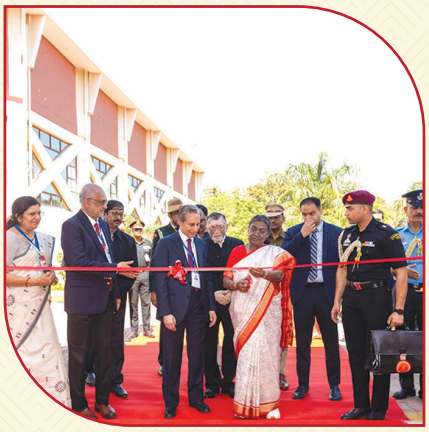
Annual Report
वार्षिक प्रतिवेदन 2024-25

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
बिरला प्रौद्योगिकी संस्थान, मेसरा, राँची

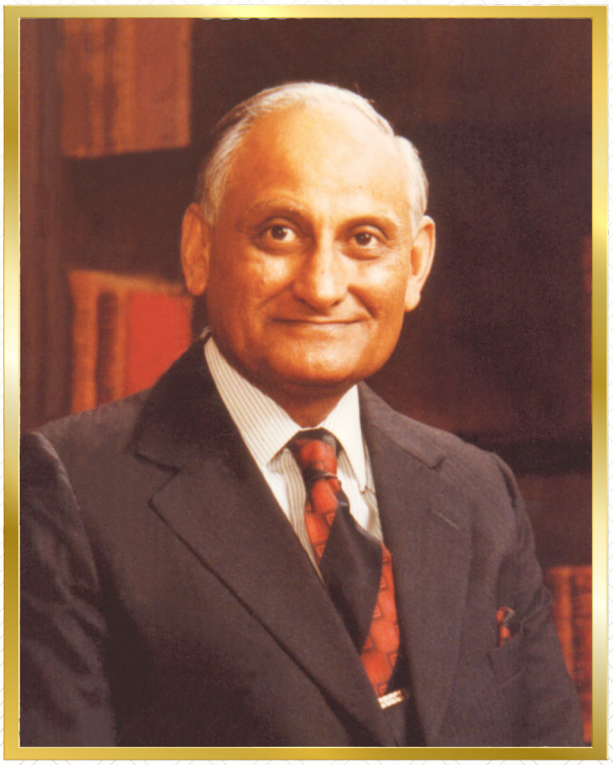
Platinum Jubilee Celebration

15th February, 2025

A Platinum Jubilee Year of Impact, Innovation and Inspiration.



SHRI B.M. BIRLA
Founder of the Institute



SHRI G.P. BIRLA
Former Chairman of the Board of Governors

INSTITUTE PRAYER

प्रार्थना

यं शैवाः समुपासते शिव इति ब्रह्मेति वेदान्तिनो
बौद्धा बुद्ध इति प्रमाणपटवः कर्तेति नैयायिकाः।
अर्हन् नित्यमथ जैन शासनरताः कर्मेति मीमांसकाः
सोऽयं वो विदधातु वाञ्छित फलं त्रैलोक्यनाथोहरिः॥

English Translation: May the Lord of the universe, the remover of evil, whom devotees of Shiva worship as Shiva, the Vedantins as Brahman, the Buddhists as Buddha, the followers of the Nyaya philosophy who are clever in logic as representatives of those devoted to the Jaina doctrines as Arhan, the advocators of the Mimamsa School as Karma— grant us all our hearty desire.

हे जग त्राता, विश्व विधाता, हे सुख शांति निकेतन हे।
प्रेम के सिन्धु दीन के बन्धु, दुःख दारिद्र विनाशन हे।
नित्य अखण्ड अनन्त अनादि, पूरण ब्रह्म सनातन हे।
जगआश्रय जगपति जगवन्दन, अनुपम अलख निरंजन हे।
प्राण सखा त्रिभुवन प्रतिपालक, जीवन के अवलंबन हे।

English Translation: You are the saviour, provider of worldly wisdom & the abode of peace and happiness. You are the ocean of love, the friend of the helpless, the reliever of sorrows and misfortune. You are the eternal, the indivisible and the infinite. You are the complete universe and the prime Being. You are the shelter, the Lord and worshiped by world. You are unparalleled, unseen and blissful. You are friend of the living, the preserver of the universe and the support of our life.

SHRI C. K. BIRLA

Chancellor

ANNUAL REPORT

वार्षिक प्रतिवेदन

2024-25

BIRLA INSTITUTE OF TECHNOLOGY

बिरला प्रौद्योगिकी संस्थान

(Deemed to be University)

Mesra, Ranchi - 835215, Jharkhand

CONTENTS

VICE-CHANCELLOR'S REPORT 1

INTRODUCTION 7

INSTITUTE IN-HOUSE EVENTS:

- BIT Mesra Celebrates 70 Years of Glorious Existence 27
- BIT Faculty Appreciation Award (BITFAA) 33
- Staff Commendation Award 34

DEPARTMENTS:

- Department of Architecture & Planning 35
- Department of Bioengineering & Biotechnology 50
- Department of Chemical Engineering 65
- Department of Chemistry 76
- Department of Civil and Environmental Engineering 90
- Department of Computer Science & Engineering 99
- Centre For Quantitative Economics and Data Science 111
- Department of Electrical and Electronics Engineering 124
- Department of Electronics & Communication Engineering 139
- Department of Humanities and Social Sciences 154
- Department of Management Studies 160
- Department of Mathematics 172
- Department of Mechanical Engineering 183
- Department of Pharmaceutical Sciences & Technology 195
- Department of Physics 214
- Department of Production and Industrial Engineering 227
- Department of Remote Sensing and Geoinformatics 236
- Department of Space Engineering and Rocketry 248

UNIVERSITY POLYTECHNIC BIT MESRA **258**

BIT MESRA (LALPUR UNIT) **277**

OFF CAMPUS :

- BIT Off-Campus Deoghar 297
- BIT Off-Campus Patna 322
- BIT Off-Campus Jaipur 343
- BIT Off-Campus Noida 367

NATIONAL CADET CORPS **383**

NSS- NATIONAL SERVICE SCHEME **389**

ENVIRONMENT PROTECTION AND AWARENESS CLUB **396**

ENTREPRENEURSHIP DEVELOPMENT CELL **404**

CREATIVE ARTS **406**

INSTITUTE CLUBS ACTIVATES **410**

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS **443**

VALUE EDUCATION CELL (VEC) **454**

राजभाषा प्रकोष्ठ **457**

TRAINING AND PLACEMENT **459**

CENTRAL INSTRUMENTATION FACILITY **467**

CENTRAL LIBRARY **476**

ANNEXURES:

- Annexure I: List DEANS, ASSOCIATE DEANS and HODs 480
- Annexure II: List of Members of the Executive Council 481
- Annexure III: Academic Council 482
- Annexure IV: Finance Committee 485
- Annexure V: Addresses- Campuses of BIT Mesra 486
- Annexure VI: Internal Complaint Committee (ICC) 2024–25 487
- Annexure VII: Annual Report Committee 488

VICE-CHANCELLOR'S REPORT

VICE-CHANCELLOR
Prof. Indranil Manna

Founded in 1955 by the visionary industrialist B.M. Birla, Birla Institute of Technology, Mesra has emerged as a premier institution in technical education, research, and innovation. The Institute was granted the status of a Deemed-to-be University in 1986 and today hosts over 18 academic departments, several research centres, and multiple off-campuses across India and overseas.

BIT Mesra is accredited with NAAC 'A' Grade (CGPA 3.17, valid till November 2027) and its programmes are widely recognised by AICTE, NBA, Council of Architecture, and Pharmacy Council of India. The Institute has consistently secured positions in NIRF, QS, and Times Higher Education world rankings, and has earned respect as a hub for cutting-edge research funded by agencies such as DST, ISRO, DRDO, ICMR, and ICSSR.

The Institute continues to nurture over 1,50,000 alumni worldwide, who are serving as leaders, entrepreneurs, and innovators across industries, academia, and government.

1. New Initiatives and Reforms (2024–25)

During the academic year, several reforms and new initiatives were undertaken:

- Faculty Recruitment and Promotion: A total of 38 new faculty members joined BIT Mesra in 2024–25. Additionally, 171 faculty members across 18 departments were promoted, strengthening the academic leadership.
- Mechanical Engineering: Installation of Control System Trainer, Antilock Braking System, Cascade Refrigeration Test Rig, Kaplan Turbine Test Rig, CNC Lathe Trainer, Deluxe R134a Vapour Compression Refrigeration Trainer, and Vapour Absorption Refrigeration Trainer.
- Civil and Environmental Engineering: Purchase of MELTIO M450 Metal 3D Printer and DSC-TG Analyzer.
- Computer Science & Engineering: Establishment of a blended teaching classroom and a DST-PURSE-supported research lab with six high-end servers and 150 advanced desktop computers.
- Electrical & Electronics Engineering: A landmark MoU was signed with L&T Technology Services Ltd. for setting up an Electric Vehicle Laboratory under CSR funding of ₹97 lakhs.
- Biotechnology & Bioengineering: Addition of 80 dual desks, 40 high-end computers, and advanced instrumentation facilities.
- Chemistry: Procurement of UV-Vis Spectrophotometer, Fluorescence Spectrophotometer, Electrochemical Workstation, and Thermal Analysis Instruments, supported by DST-FIST Grant.
- Pharmaceutical Sciences & Technology: Establishment of a state-of-the-art cell culture facility.
- Remote Sensing: Creation of an Aerosol Laboratory with advanced analyzers.
- Other Departments: Several additional labs were upgraded across Physics, Production Engineering, and Architecture & Planning, ensuring that modern teaching aids and research facilities are available to students.

- Interdisciplinary Centres: The Centre for Quantitative Data Science added a Digital Innovation Lab (in collaboration with ADROSONIC) and an Advanced Data Science Lab (sponsored by State Bank of India).
- These investments in infrastructure and laboratories reaffirm the Institute's mission to provide holistic, hands-on, and industry-relevant education.

2. Compliance with Statutory Regulations

BIT Mesra is a Deemed-to-be University under Section 3 of the UGC Act, 1956 and complies fully with statutory requirements:

- NAAC Accreditation: BIT Mesra was accredited with NAAC Grade 'A' (CGPA 3.17), valid till November 2027.
- NBA Accreditation: Among UG programmes, 80% have been accredited by NBA; applications for the remaining programmes are in process, which will take the accreditation coverage to 100%. Several PG programmes are also under evaluation.
- Statutory Approvals: Programmes enjoy approvals from AICTE, Council of Architecture (COA), and Pharmacy Council of India (PCI).
- UGC Regulations: The Institute is listed under UGC Section 12(B), and its Memorandum of Association has been amended to align with the latest UGC Deemed-to-be University Regulations, 2023.
- NIRF Rankings 2025: BIT Mesra secured 51st position in Engineering, 92nd in University categories, and 97th in Management categories, 28th in Pharmacy categories, and 22nd in Architecture and Planning categories
- Times Higher Education Ranking: BIT Mesra was placed 44th in India and in the 1001–1200 band globally.
- QS Asia Rankings: The Institute was ranked in the 463 band among Asian universities.

These achievements reflect the Institute's compliance, governance, and rising global reputation.

3. Social Service Rendered by BIT

BIT Mesra has always believed in service beyond the classroom.

- Our 24×7 Health Centre serves not only students, faculty, and staff but also the neighbouring community, with five ambulances equipped for emergencies.
- The BIT Rural Dispensary provides outpatient care, minor inpatient treatments, emergency services, and specialty clinics to nearby villages, with a 20-bed capacity. This commitment underlines our mission to serve society with compassion.

4. Research Grants

Research continues to be the lifeline of BIT.

- From 2021 to July 2025, the Institute secured over 250 sponsored projects worth ₹67 crore from agencies such as DST-SERB, ISRO, AICTE, ICMR, DRDO, and ICSSR.
- In 2024–25 alone, 20 new sponsored projects worth ₹3.33 crore were sanctioned, alongside 17 consultancy projects worth ₹2.34 crore.
- Alumni also extended their support, funding 12 R&D projects worth ₹1.22 crore.

- BIT Mesra has filed, published, or been granted 115 patents this year, including 35 granted and 47 published.

5. Memoranda of Understanding (MoUs)

BIT signed several important MoUs in 2024–25, including with:

- Ranchi University, MACS Agharkar Research Institute Pune, L&T Technology Services Ltd, King Faisal University, Durban University of Technology, Tata Steel Limited, CSIR-CGCRI Kolkata, among others.
- These collaborations strengthen research, internships, industry exposure, and global outreach.

6. Immersive Summer Research Experience – BIT SIPAR 2025

The flagship BIT-SIPAR Summer Internship Programme in Advanced Research was launched this year, attracting nearly 2000 applications nationwide and internationally. A total of 247 students successfully completed the programme, enriching their research capabilities.

7. G.P. Birla Scholarship

BIT continues to nurture meritorious students through the **GP Birla Scholarship**.

- In Monsoon 2024, ₹2.28 crore was distributed among 205 students.
- In Spring 2025, ₹2.21 crore was awarded to 213 students across GEN, EWS, SC/ST/OBC, and EBC categories.

8. New Equipment and Laboratories

BIT invested heavily in modernising infrastructure in 2024–25.

- The Central Instrumentation Facility was upgraded with equipment like GCMSMS, Gas Analyzer, CHNS Analyzer, and XRD, with a budget of ₹7.12 crore allocated for further acquisitions.
- Departments of Production, Chemistry, Physics, Remote Sensing, and others have added advanced facilities, including metal 3D printing, lightning detector networks, and upgraded NMR and BET systems.

9. Clubs and Societies

BIT offers **30+ student clubs**, fostering creativity and holistic growth.

- Pantheon (Technical Fest) featured leaders like Love Babbar and Koyesha Mukherjee.
- Bitotsav (Cultural Fest) drew huge participation and concluded with a concert by Meet Bros.
- Sporting events like the Chetan Devraj Tournament and the Annual Athletic Meet showcased talent and teamwork.

10. Achievements of Students

BIT students continue to make us proud:

- Saikat Dey won ₹15 lakh in the MSME Idea Hackathon 4.0.
- Soumyajeet Das secured AIR-11 in JEST Physics and qualified for the Integrated MS–PhD at IACS, Kolkata.
- Prashant Pratap Singh won 2nd prize at Hackfest 2025, IIT ISM Dhanbad.

- Cultural talents also shone, with prizes at Mood Indigo (IIT Bombay) and Kashiyatra (IIT BHU).
- Over 45 awards were won by students across events nationally and internationally.

11. BIT Faculty Appreciation Award (BITFAA) 2025

The BIT Faculty Appreciation Award 2025 recognized outstanding faculty members across six different criteria, with a total of 114 nominations received from various departments, extension centers, and University Polytechnic.

- Publication Record, Quality, Impact of publication
- Sponsored Research, Institutional Contribution, Teaching & Supervision

Award Categories

1. Publication Record - 26 nominations
2. Publication Quality - 23 nominations
3. Impact of Publication - 22 nominations
4. Sponsored Research Record - 9 nominations
5. Contribution to Institute - 15 nominations
6. Teaching and Supervision Record - 19 nominations

12. Student Development Programmes

BIT organised a wide range of workshops and training sessions:

- Rocket Technologies, Green Propellants, SAR Data Processing, Cloud Computing, Communication Skills, Wetland Ecosystem Management, among others.
- Events like Speakfest, Business Plan Competitions, Quizzard, and industrial visits enriched student learning.

13. Visits of Eminent Professionals

BIT hosted a galaxy of distinguished visitors including:

- Smt. Droupadi Murmu, Hon'ble President of India
- Scientists from ISRO, DRDO, CSIR, IITs, NITs, and reputed international institutions such as RMIT University, Columbia University, University of Bayreuth, and ENS Paris.

These visits inspire our students and faculty alike.

14. NSS, NCC and Rajbhasha Prakoshtha Activities

Our students actively engaged in social service:

- NSS conducted tree plantation drives, organ donation campaigns, blood donation camps, and awareness drives on substance abuse, cyber fraud, and health.
- NCC cadets showcased discipline in Republic Day and Independence Day parades, river-cleaning drives, and marathons.

- The Rajbhasha Prakoshtha promoted Hindi through essay and poetry competitions and publications.

15. Celebrations and Conferences

BIT departments organised numerous academic and cultural events in 2024–25, such as:

- International conferences on Chemical Engineering, Materials Science, Data Science, Architecture & Planning, and Quantum Mechanics.
- Celebrations like National Science Day, World Architecture Day, and Cultural Festivals across centres.

16. Alumni Interaction and Foundation Day

On Foundation Day 2024 held on 14th and 15th of july, the Institute conferred Distinguished Alumni Awards to luminaries which are as follows:

Distinguished Alumni Award under the category 'Contributions to Engineering, Technology and Entrepreneurship' to Dr. Ashish Vaswani

Distinguished Alumni Award under the category ' Leadership in Corporate world, Industry, Academia and Research Institutions ' to Dr. Deven Sharma

Distinguished Alumni Award under the category 'Excellence in Teaching and Research in Engineering and Technology' to Professor K P J Reddy

Distinguished Alumni Award under the category 'Service to Society in India and abroad, including Support to alma mater' to Mr. Aditya Ranjan

Distinguished Alumni Award under the category 'Service to Society in India and abroad, including Support to alma mater' to Mr Sushant Gaurav

Distinguished Alumni Award under the category' Service to Society in India and abroad including support to the alma mater’ (Young Alumnus Award)' to Dr. Aatmesh Shrivastava

Distinguished Alumni Award under the category' Contributions to Engineering, Technology and Entrepreneurship’ (Distinguished Alumna Award)' to Ms Tanuja Prasad

Distinguished Alumni Award under the category ' Leadership in Corporate world, Industry, Academia and Research Institutions’ (Distinguished Alumna Award)' to Ms Jaya Singh Panda

Special Award (Posthumous)

Distinguished Alumni Award under the category 'Service to Society in India and abroad, including Support to alma mater' to Mr Madhavan Nayar

For Distinguished Teacher's Award, the list of awardees are

1. Prof. P. K. Sinha (EEE Department)
2. Prof. J. K Prasad (Space Engineering & Rocketry)
3. Prof. K. V Krishnamurthy (Civil Engineering Department)

17. Digital Infrastructure Augmentation

Key IT upgrades included:

- 1 Gbps Internet expansion
- Wall-in access points for hostels
- Firewall & cybersecurity systems
- Digital podiums and smart classrooms

18. Placement Summary (2024–25)

This year's placements were very encouraging:

At BIT Mesra, the 2024–25 placement season has been quite positive. With outstanding results from Computer Science & Engineering (74%), Information Technology (82%), Electrical & Electronics (77%), Mechanical (76%), and Electronics & Communication (73%), our flagship B.Tech program obtained over 70% placements. With a median income of ₹9 Lakh and an average salary of ₹11.9 Lakh for B.Tech, these branches also offered the greatest compensation package, totaling ₹1.44 Crore.

With an average compensation of ₹7.9 Lakh and a maximum package of 15.12 Lakh, the MBA program had an outstanding placement rate of 75%, followed by Marketing & Business Analytics (88%) and Marketing & Finance (83%). With an average package of more than ₹12.4 Lakh and a maximum of ₹51 Lakh, the MCA program secured (71%), while the IMSc in Mathematics & Computing achieved (71%).

INTRODUCTION

The Main Building at BIT, Mesra, Ranchi

Birla Institute of Technology, Mesra was established by the renowned philanthropist and visionary industrialist, Late Sri B. M. Birla in July 1955. Initially it was started as an affiliated college of the erstwhile Bihar University and later in 1960 upon creation of the new university in the state; its affiliation was transferred to Ranchi University. In pursuance of the recommendation of the Education Commission Government of India (1964 -1966) and on the basis of the report of a joint selection committee of the UGC and AUDIT, in March 1972, the Institute was granted the status of an 'Autonomous' college by making special provision in Bihar State University Act. The chancellor of the University of Bihar made the rules for its governance.

The achievement of the Institute in terms of research and excellent academic program led to its attaining the status of a deemed university under section 3 of the UGC act in August 1986.

The Institute has constantly improved on its technical facilities as well as in academics in order to keep pace with the fast changing technology scenario, thereby acquiring a pride of place amongst the institutions offering technical education in the country. This Institute celebrated the golden jubilee of its establishment in the year 2005 reaffirming its commitment to the cause of higher education.

Administration

B.I.T. Mesra is a "Deemed to be University" under sec. 3 of the of the U.G.C act 1956. It functions under the overall supervision, direction and control of a high-powered Board of Governors, comprising representatives of all the Ministry of Education, Government of India, the UGC, the state government, the Chancellor, the A.I.C.T.E, the Hindustan Charity Trust and the Institute faculty. The Governor of the state of Jharkhand is the Chancellor of the Institute. Shri C.K. Birla is the chairman of the Board of Governors, the composition of the Board of Governors is given in Annexure - II.

The Academic Council decides the academic policy of the Institute. It controls the approves the curriculum the courses and the examination results. It appoints committee like regulation committee for Undergraduate and Post-Graduate Courses, Semester Program Coordination Committee, Admission Committee, Scholarship Committee, Student Welfare Committee etc. and the Departmental Board of Studies to look into the specific academic matters arising from time to time. The teaching training and research activities of various Departments at the Institute are constantly under review for both facilities and Standards. The Vice Chancellor

of the Institute is the chairman of the Academic Council. The members of the Academic Council have been enlisted in Annexure - III.

The Finance Committee gives financial advice to the Institute in matters relating to building work as well. The composition of these committees have been given in Annexure-IV and V.

The Main Campus, Mesra, Ranchi

The main campus of the Institute is fully residential and is spread over 780 acres. The main building of the Institute itself covers an area of 30,000 square meters and accommodates the various research and training laboratory, administrative offices and classrooms

The workshop Annex has built up area of 4,000 square meters. The laboratory and the office of Department of space engineering and rocketry are situated for security reason in a sub campus, about half a kilometer away from the main building the. The campuses is self contained amidst well laid lawn with its own protected water supply, marketing centre, dispensary, Bank and schools the first off campus was established in Ranchi City at Lalpur in 1976 with the experience to support with the spirit is it to support the continuing education program for the working engineers and professionals.

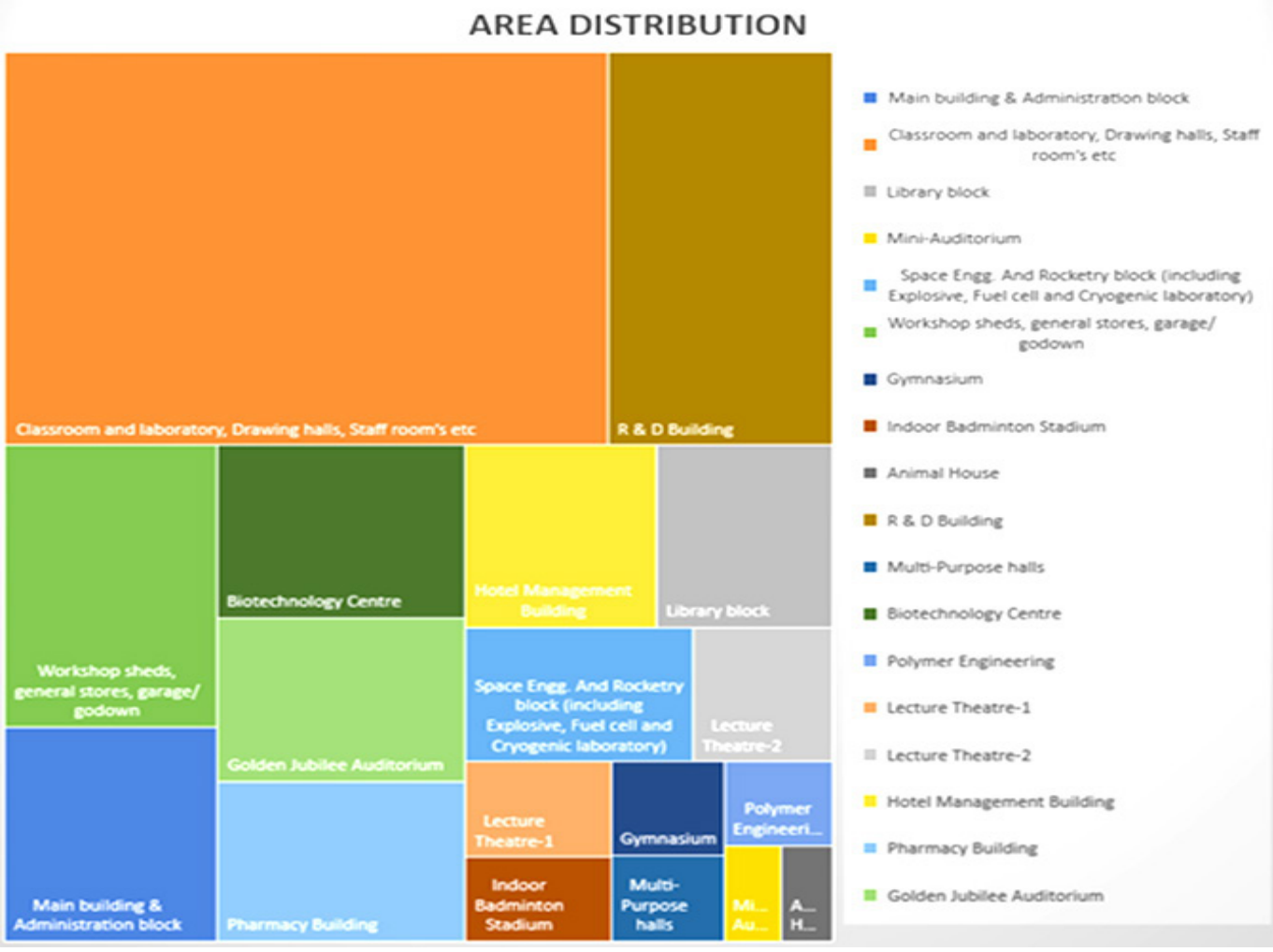
Institute Building	**(Sq Mtrs.)**
Main building & Administration block	3700
Classroom and laboratory, Drawing halls, Staff room's etc	19300
Library block	3900
Mini-Auditorium	450
Space Engg. And Rocketry block (including Explosive, Fuel cell and	3300
Cryogenic laboratory) Workshop sheds, general stores, garage/godown	7750
Gymnasium	850
Indoor Badminton Stadium	1000
Animal House	427
R & D Building	7200
Multi-Purpose halls	785
Biotechnology Centre	4550
Polymer Engineering	836
Lecture Theatre-1	1143
Lecture Theatre-2	1535
Hotel Management Building	2835
Pharmacy Building	4280
Golden Jubilee Auditorium	3400

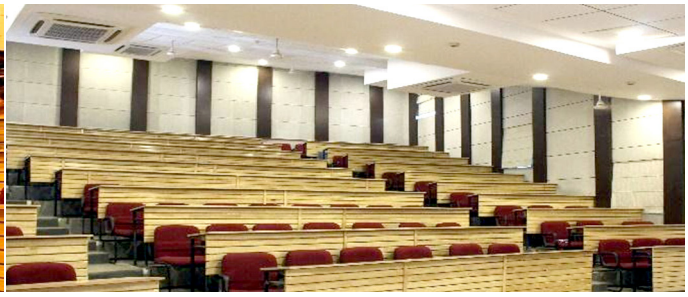
Shopping Complexes and services	8320
Health centre	1150
Guest House	3764
Total Residential Area	48972
Total Academic Area	59100
Total hostel Area	123152

Residential Complex

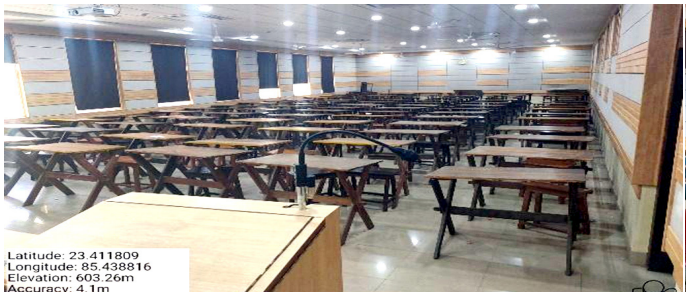
Staff quarter in different categories	385
Residential complex for supporting services	
Guards, Dairy Shopkeepers, Washer man etc.	190

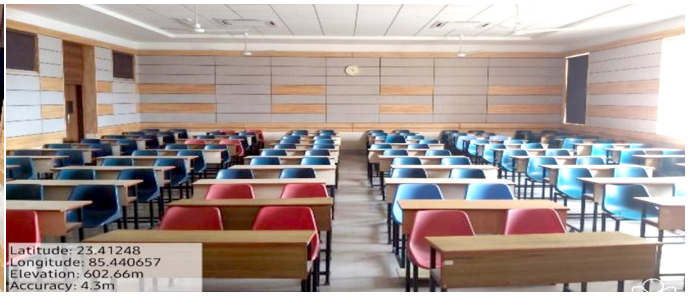
The campus area distribution is shown in the following tree-map visualization.





Lecture Halls





Design Studio and Lecture Hall

Staff Quarters and Club House

Student Hostels

SBI and UCO Banking Facilities

Transport Section

NCC Office

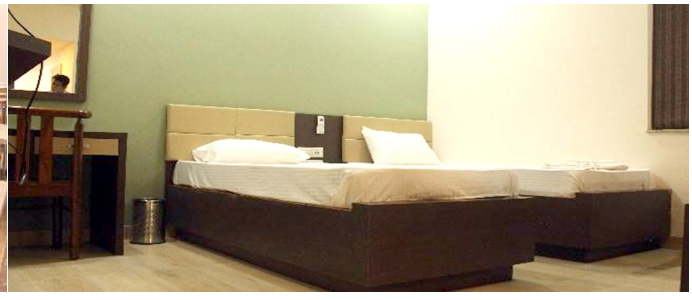
Others

- Consumer's co-operative stores
- NCC Block
- Rifle Firing Range
- NCC Parade ground
- Club House

IC Arena and Cafeteria

Guest Houses

The Institute maintains two Guest houses with a total numbers of 47 furnished rooms of which 09 are suite rooms, 16 large rooms, 14 regular rooms, and 08 small rooms.



Auditorium

The Institute building houses an auditorium having capacity of 350 persons. Larger scale events organized at Golden Jubilee Auditorium having capacity of about 3000 persons.

The G.P. Birla Auditorium

Mini Auditorium

Sports Complex

Games and sports complex

The Institute has Highway structure sports facilities for Indoor as well as outdoor games. These are as follows:

- Gymnasium including Multi Gym 1
- Stadium for track and field for sports/athletics 1
- Cricket ground including net 2
- Football ground 2
- Hockey ground 2
- Basketball courts 4
- Volleyball courts 6
- Tennis courts 6
- Badminton courts 8
- Kho - Kho ground 1
- Kabaddi Ground 1

Gymnasium and Student Activity Room

The Indoor Stadium

The Volley Ball Court

Seminar Hall

Dispensary

Central Library

Administrative Offices

Dispensary Cum Health Centre

Facilities available

➢ OPD services	8 A.M to 12.00 Noon, 4.00 P.M to 8.00 P.M
➢ Emergency services	Round the Clock
➢ Total number of Female wards (and Beds):	01 (4 beds)
➢ Total number of Male wards (and Beds):	01(04 beds)
➢ Isolation wards female:	04 beds
➢ Isolation ward for Male:	04 beds
➢ General Ward:	04 beds

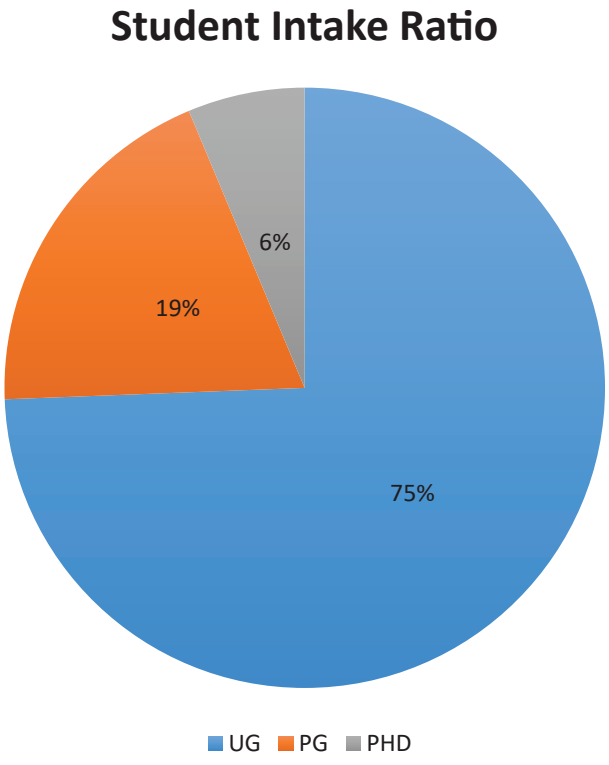
Shopping Centre

A well - maintained Cooperative Store provides the daily requirements of the campus residents. Over past few years, additional Shopping Complexes have been developed to meet the day today Sundry needs.

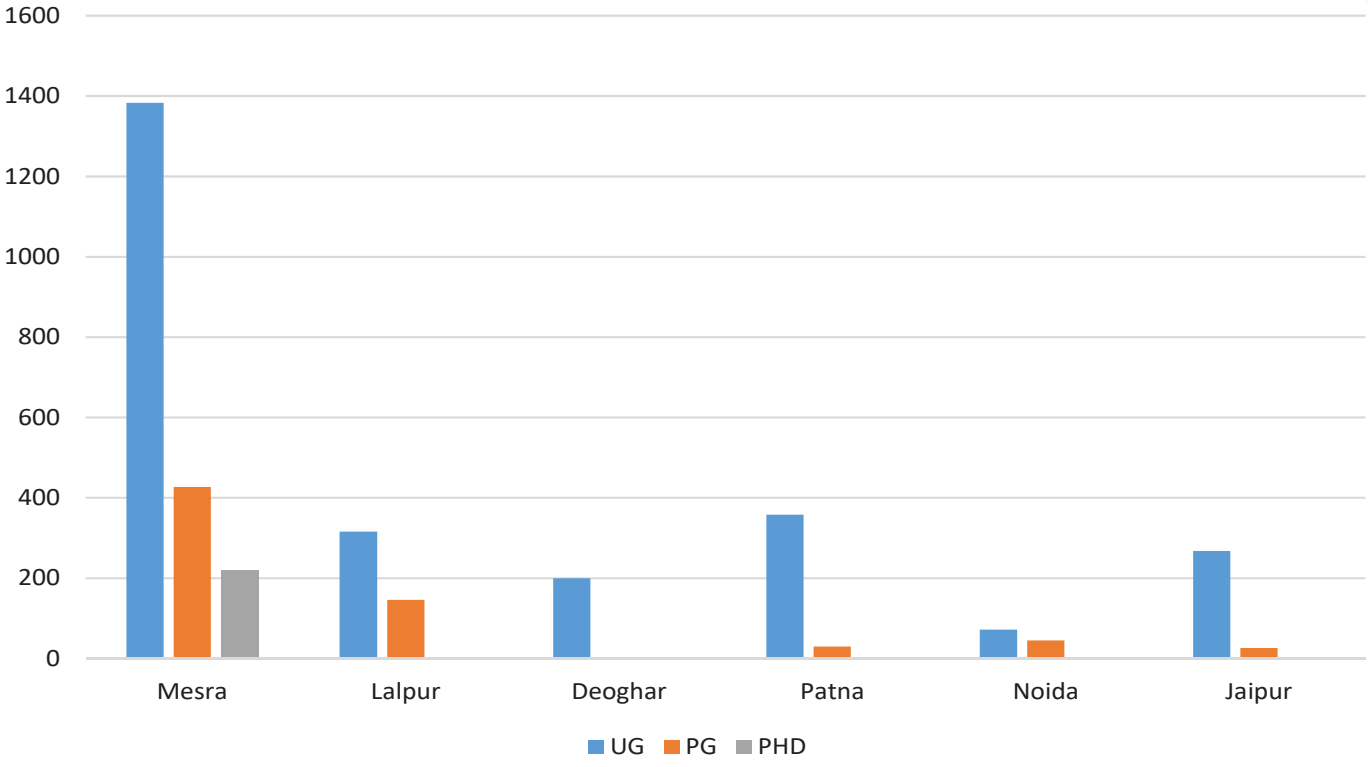
Hostel Facilities for Students

Since the Institute is completely residential, it has 12 boys and 2 girls hostel for their accommodation. All rooms of the hostel are having internet facility. Borders participate in inter - hostel tournaments, indoor and outdoor games, various competitions and adventure trips. Each hostel is having its own well maintained dining hall and a mess committee being managed by the students under the supervision of Hostel Wardens.

Student Intake and Admissions



STUDENT INTAKE CAMPUS WISE:



Admission in UG Programmes 2024-25(Mesra Campus)

Details of UG Admission at Mesra Campus			
Sr.No.	Branch	Year 2024-2025	
		Intake Seats	Numbers of Admissions
1	B.Tech Food Engineering & Technology	30	16
2	B.Tech Biotechnology	60	59
3	B.Tech Chemical Engineering	120	132
4	B.Tech Civil Engineering	60	68
5	B.Tech Computer Science & Engineering	180	244
6	B.Tech Electrical &Electronics Engineering	60	73
7	B.Tech Electronics & Communication Engineering	180	221
8	B.Tech Artificial Intelligence and Machine Learning	60	80
9	B.Tech Mechanical Engineering	120	145
10	B.Tech Production and Industrial Engineering	60	63
11	Bachelor of Architecture (B. Arch)	40	27
12	Bachelor of Pharmacy (B. Pharma)	60	45
13	Bachelor of Hotel Management &Catering Technology (BHMCT)	30	2
14	B.Sc Chemistry	30	12
15	B.Sc in Medical Lab Technology (BMLT)	30	39
16	Integrated Master of Business Administration (MBA)	60	34
17	Integrated M.Sc. in Mathematics & Computing	60	74
18	Integrated M.Sc. in Physics	30	18
19	Integrated M.Sc. Quantitative Economics & Data Science	30	31
	Total:	1300	1383*

*Including EWS & NRI/OCI/FN Supernumerary Seats.

Admission in PG Programmes 2024-25(Mesra Campus)			
Sr.No.	Branch	Year 2024-2025	
		Intake Seats	Numbers of Admission
1	Master of Business Administration (MBA)	120	150
2	Master of Business Administration (MBA) Online	100	22
3	Master of Computer Application (MCA)	60	73
4	Master of Pharmacy in Pharmaceutics	15	15
5	Master of Pharmacy in Pharmaceutical Chemistry	15	3
6	Master of Pharmacy in Pharmacology	15	14
7	Master of Pharmacy in Pharmacognosy	15	4
8	M.Pharm in Pharmaceutical Quality Assurance	15	9
9	Master of Urban Planning (MUP)	20	6
10	M.Tech Production and Industrial Engineering	12	0
11	M.Tech Civil Engineering	24	5
12	M.Tech Electrical &Electronics Engineering	30	5
13	M.Tech Electronics & Communication Engineering	30	9
14	M.Tech Mechanical Engineering	24	7
15	M.Tech Aerospace Engineering	24	12
16	M.Tech Biotechnology	18	6
17	M.Tech Computer Science & Engineering	30	22
18	M.Tech Remote Sensing	24	5
19	M.Tech Electric Vehicle Technology	30	0
20	M.Tech Artificial Intelligence and Machine Learning	30	11
21	M.Sc. in Chemistry	15	4
22	M.Sc. in Physics	15	6
23	M.Sc. in Biotechnology	30	20
24	M.Sc. in Geoinformatics	20	18
25	M.Sc. in Environmental Science and Management	30	1
	Total:	761	427

Admission in UG Programmes 2024-25 (Mesra Campus)		
Sl.No.	Course	Numbers of Admissions
1.	Bachelor of Technology	1101
2.	Bachelor of Architecture	27
3.	Bachelor of Pharmacy	45
4.	Bachelor of Hotel Management & Catering Technology	2
5.	Integrated M.Sc	123
6.	B.Sc in Medical Lab Technology (BMLT)	39
7.	B.Sc Chemistry	12
8.	Integrated Master of Business Administration (MBA)	34
	Total:	1383*

*Including EWS & NRI/OCI/FN Supernumerary Seats.

Admission in Ph.D Programme – 2024-25 (Session MO-2024)		
Sl.No.	**Departments**	**Numbers Of Admissions**
1	Architecture	2
2	Bio Engineering & Technology	11
3	Chemical Engineering	1
4	Chemistry	12
5	Civil & Environmental Engineering	6
6	Computer Science & Engineering	22
7	Electrical And Electronics Engineering	4
8	Electronics And Communication Engineering	2
9	Humanities And Social Sciences	4
10	Management	25
11	Mathematics	1
12	Mechanical Engineering	3
13	Pharmaceutical Science & Technology	6
14	Physics	5
15	Production And Industrial Engineering	1
16	Quantitative Economics & Data Science	4
17	Remote Sensing	6
18	Space Engineering And Rocketry	3
Total:		118

Admission in Ph.D Programme – 2024-25 (Session SP-2025)		
Sl.No.	**Departments**	**Numbers of Admissions**
1	Architecture	1
2	Bio Engineering & Technology	8
3	Chemical Engineering (Food Technology)	2
4	Chemistry	4
5	Civil & Environmental Engineering	3
6	Computer Science & Engineering	13
27	Electrical And Electronics Engineering	2
8	Electronics And Communication Engineering	5
9	Humanities And Social Sciences	10
10	Management	21
11	Mathematics	6
12	Mechanical Engineering	3
13	Pharmaceutical Science & Technology	7
14	Physics	5
15	Production And Industrial Engineering	2
16	Quantitative Economics & Data Science	4
17	Remote Sensing	1
18	Space Engineering And Rocketry	5
Total:		102

Details of UG Admission at Mesra(Lalpur Unit) Campus			
Sr.No.	Branch	Year 2024-2025	
		Intake Seats	Numbers of Admissions
1	Bachelor of Business Administration (BBA)	200	180
2	Bachelor of Computer Application (BCA)	200	136
	Total:	400	316

Details of PG Admission at Mesra(Lalpur Unit) Campus			
Sr.No.	Branch	Year 2024-2025	
		Intake Seats	Numbers of Admissions
1	Master of Business Administration (MBA)	100	97
2	Master of Computer Application (MCA)	100	49
	Total:	200	146

Sl.No.	Details of UG Admission at Deoghar Off Campus		
	Branch	Intake Seats	Numbers of Admissions
1	Bachelor of Business Administration (BBA)	40	27
2	Bachelor of Computer Application (BCA)	40	10
3	B.Tech Computer Science & Engineering	90	109
4	B.Tech Electronics & Communication Engineering	60	45
5	B.Tech Electrical & Electronics Engineering	30	6
6	B.Tech Mechanical Engineering	30	3
	Total:	290	200

Details of UG Admission at Patna Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	Bachelor of Business Administration (BBA)	80	64
2	Bachelor of Computer Application (BCA)	60	41
3	B.Tech Civil Engineering	60	15
4	B.Tech Computer Science & Engineering	60	74
5	B.Tech Electronics & Communication Engineering	60	57
6	B.Tech Electrical & Electronics Engineering	60	35
7	B.Tech Artificial Intelligence and Machine Learning	60	63
8	B.Tech Mechanical Engineering	60	9
	Total:	500	358

Details of PG Admission at Patna Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	M.Tech Computer Science & Engineering	18	5
2	M.Tech Electronics & Communication Engineering	18	0
3	Master of Business Administration (MBA)	60	25
	Total:	96	30

Details of UG Admission at Noida Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	Bachelor of Business Administration (BBA)	60	16
2	Bachelor of Computer Application (BCA)	60	38
3	Bachelor of Animation & Multimedia (BAM)	40	18
	Total:	160	72

Details of PG Admission at Noida Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	Master of Business Administration (MBA)	30	19
2	Master of Computer Application (MCA)	30	26
	Total:	60	45

Details of UG Admission at Jaipur Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	Bachelor of Business Administration (BBA)	60	15
2	Bachelor of Computer Application (BCA)	60	35
3	Bachelor of Animation & Multimedia (BAM)	40	13
4	B.Tech Computer Science & Engineering	120	124
5	B.Tech Electronics & Communication Engineering	30	28
6	B.Tech Artificial Intelligence	60	45
7	B.Tech Electrical &Electronics Engineering	30	8
	Total:	400	268

Details of PG Admission at Jaipur Off Campus			
Sl.No.	Branch	Intake Seats	Numbers of Admissions
1	Master of Computer Application (MCA)	45	20
2	M.Sc. Animation & Design (A&D)	10	3
3	M.Sc Bioinformatics and Computational Biology	20	3
	Total:	75	26

University Polytechnic

Currently, the Polytechnic offers Diploma programs across six engineering disciplines—Automobile, Civil, Computer, Electronics & Communication, Electrical & Electronics, and Mechanical Engineering—with a total enrollment of 270 students.

Degree Awarded and Gold Medalists:

Summary of no. of Degree Recipients' Course wise/Center wise 34th Convocation (Pass out from 17th August 2023 to 08th October 2024)						
S. No.	Center	Course				Total
		Ph.D	PG	UG	Diploma	
1	Mesra	90	422	788	0	1300
2	Patna	4	16	247	0	267
3	Deoghar	0	0	146	0	146
4	Lalpur	2	106	373	0	481
5	Noida	7	56	86	0	149
6	Jaipur	0	36	159	0	195
7	University Polytechnic	0	0	25	152	177
	Total	103	636	1824	152	2715

LIST OF ELIGIBLE CANDIDATES FOR THE AWARD OF GOLD MEDAL				
SL.NO.	ROLL NO.	NAME	CGPA	CENTER
Bachelor of Architecture				
1	BARCH/10008/19	RIDDHI SHARMA	9.03	MESRA
Bachelor of Technology (Biotechnology)				
2	BTECH/10613/20	TIWARI AASTHA ALOK	9.37	MESRA
Bachelor of Technology (Chemical Engineering)				
3	BTECH/10629/20	MANPREET SINGH	9.00	MESRA
Bachelor of Technology (Chemical-Plastics and Polymer)				
4	BTECH/10354/20	SNEHA JHA	8.51	MESRA
Bachelor of Technology (Civil Engineering)				
5	BTECH/10169/20	MILIND BHASKAR	9.41	MESRA
Bachelor of Technology (Computer Science and Engineering)				
6	BTECH/15159/20	SOUMYA KANTI PANDA	9.49	PATNA
Bachelor of Technology (Electronics and Communication Engineering)				
7	BTECH/10507/20	NISHANT BIYANI	9.29	MESRA
Bachelor of Technology (Electrical and Electronics Engineering)				
8	BTECH/10324/20	SHASHWAT SINHA	8.92	MESRA
Bachelor of Technology (Information Technology)				
9	BTECH/10122/20	RISHIKA RAJ	9.29	MESRA
Bachelor of Technology (Mechanical Engineering)				
10	BTECH/10400/20	EHTESHAM SIDDIQUE	9.60	MESRA
Bachelor of Technology (Production Engineering)				
11	BTECH/10527/20	ANIRUDH CHATTERJEE	9.38	MESRA

Bachelor of Hotel Management and Catering Technology				
12	BHMCT/10007/20	AMRITA BANDYOPADHYAY	9.16	MESRA
Bachelor of Pharmacy				
13	BPH/10036/20	SNIGDHA CHAKRABORTY	9.62	MESRA
Bachelor of Business Administration				
14	BBA/25001/21	PRAYATNA GUPTA	9.64	JAIPUR
Bachelor of Computer Applications				
15	BCA/15005/21	SAUMYA BHARTI	9.29	PATNA
Bachelor of Science (Animation and Multimedia)				
16	BAM/25012/21	SAKSHI TIWARI	9.20	JAIPUR
Bachelor of Science (Medical Lab. Technology)				
17	BMLT01/21	ANKITA GIRI	9.80	UNIV. POLY.

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI

34th CONVOCATION (MESRA)

1	Doctor of Philosophy				Total
	Doctor of Philosophy (Architecture)				1
	Doctor of Philosophy (Engineering)				51
	Doctor of Philosophy (Management)				4
	Doctor of Philosophy (Pharmacy)				7
	Doctor of Philosophy (Science)				20
	Doctor of Philosophy (Technology)				7
		Total			90
2	**Post-Graduate Degrees**	**ID**	**I**	**II**	**Total**
	Integrated Master of Science (Chemistry)	0	8	0	8
	Integrated Master of Science (Food Technology)	0	9	0	9
	Integrated Master of Science (Mathematics and Computing)	0	75	1	76
	Integrated Master of Science (Physics)	0	3	0	3
	Master of Business Administration	0	103	0	103
	Master of Computer Applications	0	62	0	62
	Master of Pharmacy	40	1	0	41
	Master of Science (Biotechnology)	0	14	0	14
	Master of Science (Chemistry)	0	3	0	3
	Master of Science (Geo-Informatics)	0	18	0	18
	Master of Science (Mathematics)	0	1	0	1

	Master of Science (Physics)	0	6	0	6
	Master of Technology (Aerospace Engineering)	0	2	0	2
	Master of Technology (Biotechnology)	0	6	0	6
	Master of Technology (Civil Engineering)	0	2	0	2
	Master of Technology (Computer Science and Engineering)	0	6	0	6
	Master of Technology (Computer Science and Engineering - Artificial Intelligence and Machine Learning)	0	5	0	5
	Master of Technology (Electronics and Communication Engineering)	0	4	0	4
	Master of Technology (Electrical Engineering)	0	6	0	6
	Master of Technology (Electric Vehicle Technology)	0	27	0	27
	Master of Technology (Mechanical Engineering)	0	6	0	6
	Master of Technology (Remote Sensing)	0	5	0	5
	Master of Technology (Space Engineering and Rocketry)	0	1	0	1
	Master of Urban Planning	0	8	0	8
		Total			422
3	**Under-Graduate Degrees**	**ID**	**I**	**II**	**Total**
	Bachelor of Architecture	16	11	1	28
	Bachelor of Technology (Biotechnology)	19	13	0	32
	Bachelor of Technology (Chemical Engineering)	30	13	0	43
	Bachelor of Technology (Chemical-Plastics and Polymer)	15	12	0	27
	Bachelor of Technology (Civil Engineering)	32	12	0	44
	Bachelor of Technology (Computer Science)	106	29	0	135
	Bachelor of Technology (Electronics and Communication Engineering)	92	29	0	121
	Bachelor of Engineering (Electronics and Communication)	0	1	0	1
	Bachelor of Technology (Electrical and Electronics Engineering)	47	14	0	61
	Bachelor of Technology (Information Technology)	60	8	0	68
	Bachelor of Technology (Mechanical Engineering)	86	21	0	107
	Bachelor of Technology (Production Engineering)	33	11	0	44
	Bachelor of Hotel Management and Catering Technology	6	5	1	12
	Bachelor of Pharmacy	39	6	0	45
	Bachelor of Science (Honours) in Mathematics & Computing	1	1	0	2
	Bachelor of Science (Honours) in Physics	5	5	0	10
	Bachelor of Science (Honours) in Quantitative Economics & Data Science	7	1	0	8
		Total			788
		Grand Total			1300

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (PATNA)					
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				4
				Total	4
2	Post-Graduate Degrees	ID	I	II	Total
	Master of Business Administration	0	15	1	16
				Total	16
3	Under-Graduate Degrees	ID	I	II	Total
	Bachelor of Architecture	0	0	1	1
	Bachelor of Business Administration	13	5	0	18
	Bachelor of Computer Applications	7	3	0	10
	Bachelor of Technology (Civil Engineering)	13	13	0	26
	Bachelor of Technology (Computer Science and Engineering)	55	2	0	57
	Bachelor of Engineering (Computer Science)	0	1	0	1
	Bachelor of Technology (Electronics and Communication Engineering)	29	17	0	46
	Bachelor of Technology (Electrical and Electronics Engineering)	22	17	0	39
	Bachelor of Engineering (Electrical and Electronics)	0	1	0	1
	Bachelor of Technology (Information Technology)	22	5	0	27
	Bachelor of Technology (Mechanical Engineering)	13	8	0	21
				Total	247
				Grand Total	267

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (DEOGHAR)					
1	Under-Graduate Degrees	ID	I	II	Total
	Bachelor of Computer Applications	0	1	0	1
	Bachelor of Technology (Computer Science and Engineering)	67	8	0	75
	Bachelor of Technology (Electronics and Communication Engineering)	29	11	0	40
	Bachelor of Technology (Electrical and Electronics Engineering)	9	2	0	11
	Bachelor of Technology (Mechanical Engineering)	13	6	0	19
	Total				146
	Grand Total				146

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (LALPUR)					
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				1
	Doctor of Philosophy (Management)				1
				Total	2
2	Post-Graduate Degrees	ID	I	II	Total
	Master of Business Administration	0	50	0	50
	Master of Computer Applications	0	56	0	56
				Total	106
3	Under-Graduate Degrees	ID	I	II	Total
	Bachelor of Business Administration	101	99	0	200
	Bachelor of Computer Applications	91	82	0	173
				Total	373
				Grand Total	481

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (NOIDA)					
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				1
	Doctor of Philosophy (Management)				6
				Total	7
2	Post Graduate Degrees	ID	I	II	Total
	Master of Business Administration	0	24	0	24
	Master of Computer Applications	0	32	0	32
			Total		56
3	Under-Graduate Degrees	ID	I	II	Total
	Bachelor of Business Administration	16	20	0	36
	Bachelor of Computer Applications	12	16	0	28
	Bachelor of Science (Animation and Multimedia)	13	9	0	22
				Total	86
				Grand Total	149

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (JAIPUR)					
1	Post Graduate Degrees	ID	I	II	Total
	Master of Science (Animation Design)	0	1	0	1
	Master of Business Administration	0	1	0	1

	Master of Computer Applications	0	34	0	34
				Total	36
2	**Under-Graduate Degrees**	**ID**	**I**	**II**	**Total**
	Bachelor of Business Administration	10	9	0	19
	Bachelor of Computer Applications	6	8	0	14
	Bachelor of Technology (Computer Science)	44	4	0	48
	Bachelor of Technology (Electronics and Communication Engineering)	30	14	0	44
	Bachelor of Technology (Electrical and Electronics Engineering)	8	8	0	16
	Bachelor of Science (Animation and Multimedia)	16	2	0	18
				Total	159
		Grand Total			195

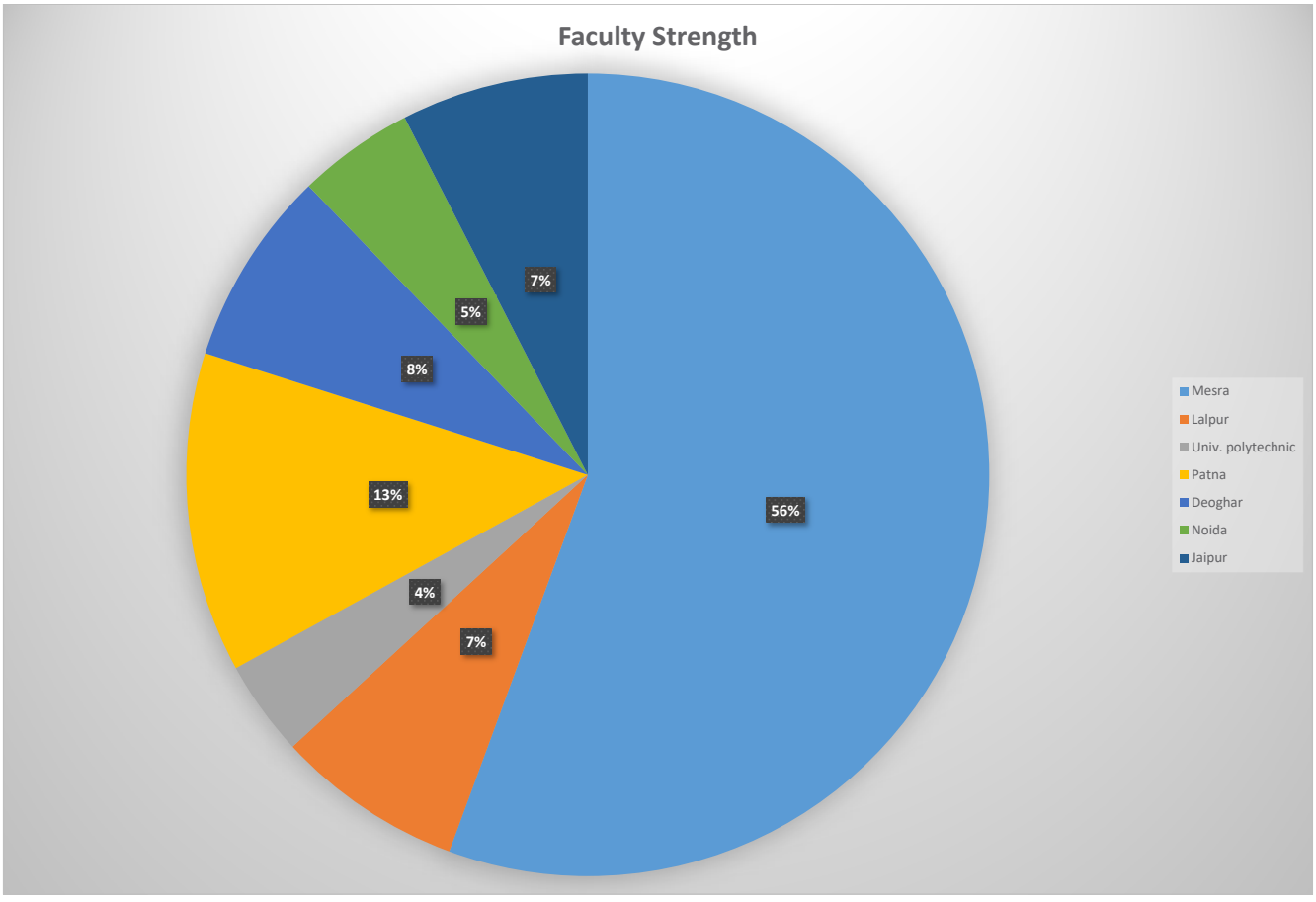
BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
34th CONVOCATION (UNIVERSITY POLYTECHNIC)					
1	**Under-Graduate Degrees**	**ID**	**I**	**II**	**Total**
	Bachelor of Science (Medical Lab. Technology)	19	6	0	25
				Total	25
2	**Diploma**	**ID**	**I**	**II**	**Total**
	Diploma in Automobile Engineering	5	3	0	8
	Diploma in Computer Engineering	17	12	0	29
	Diploma in Electrical and Electronics Engineering	32	21	0	53
	Diploma in Electronics Engineering	1	0	1	2
	Diploma in Electronics and Communications Engineering	8	4	0	12
	Diploma in Mechanical Engineering Production	0	4	0	4
	Diploma in Mechanical Engineering	18	26	0	44
				Total	152
	Grand Total				177

Faculty Strength:

The cadre wise number of faculty members in various campuses of BIT Mesra is given below. A total of 591 faculties are present in Mesra (as on 03.03.2025). Apart from these the Institute has 10 faculty members appointed as Adjunct/Visiting and,or Professor of Practse.

Position	Mesra	Univ. Poly	Lalpur	Deoghar	Patna	Jaipur	Noida	Total
Professor	59	0	2	1	3	1	3	69
Associate Professor	51	0	3	5	4	4	2	69
Assistant Professor	222	15	37	36	60	35	22	427
Senior Lecturer	0	0	0	1	0	0	0	1
Associate Lecturer	0	4	3	4	4	5	1	21
Lecturer	0	4	0	0	0	0	0	4
Total	332	23	45	47	71	45	28	
No of Total Faculty : 591								

The ratio of faculty members across various campuses are given below in the Pie chart:



BIT Mesra Celebrates 70 Years of Glorious Existence

A Platinum Jubilee Year of Impact, Innovation and Inspiration

Birla Institute of Technology, Mesra marked a historic milestone this year with the grand celebration of its Platinum Jubilee on 15th February, 2025, commemorating 70 years of excellence in education, research, and innovation.

The momentous occasion was graced by the Hon'ble President of India, Smt. Droupadi Murmu, along with Jharkhand Governor Shri Santosh Kumar Gangwar, Minister Shri Sudivya Kumar, and CKA Birla Group Chairman Shri CK Birla, adding unparalleled stature to the celebrations.

Established in 1955 by the visionary industrialist Mr. B.M.Birla, BIT Mesra was founded with a clear vision to offer its young minds a space, where their imagination could take wings and their ideas fruition. For over 6 decades now, the institute has nurtured minds with a rich heritage of academic excellence, developing learning frameworks that have been well ahead of times.

The Platinum Jubilee Year officially commenced with the 70th Foundation Day on 15th July 2024, setting in motion a remarkable series of 70+ events, each curated to honor the institute's legacy and shape its future. Over the past months, BIT Mesra has hosted a spectrum of activities — including national and international conferences, expert seminars, academic workshops, and student-driven festivals — all under the proud banner of the Platinum Jubilee.

The year saw the presence of numerous eminent personalities, including ISRO Chairman Shri S. Somanath, Padma Shri awardee Dr. B.N. Suresh, and many other distinguished scientists, educators, and industry leaders who have enriched the institute's vision and inspired its community.

Highlights of the Platinum Jubilee Year (2024–2025)

In addition to the grand Platinum Jubilee celebration, the academic year was filled with impactful events showcasing BIT Mesra's dynamic and diverse academic culture:

2024

1. Event- 70th Foundation Day 2024

Date- 15th July, 2024

The 70th Foundation Day of the Birla Institute of Technology, Mesra, marked the beginning of its Platinum Jubilee year—a historic milestone in its journey of excellence, innovation, and impact. This celebratory period was a time to reflect on the institution's rich legacy while envisioning a bright future. The occasion was graced by the Honourable Governor of Jharkhand, Shri C. P. Radhakrishnan, who joined the celebration as the Chief Guest. In his address, he shared his words of wisdom and a vision for the institute's path forward, inspiring the community to continue its tradition of academic and research leadership. His presence underscored the significant role BIT Mesra plays in the educational and technological development of the region and the nation.

The momentous occasion witnessed the felicitated homecoming of many BIT Mesra alumni, who gathered to celebrate their diverse lives, careers, and achievements. Their presence highlighted the strong bond that unites the BIT Mesra community and showcased the remarkable impact of the institute's graduates across various fields. The event also featured the release of several new books, produced with vibrant covers, multiple categories, and insightful content, all celebrating the outstanding contributions of the academic, industry, research, and social spheres.

With this momentous year, the curtain is now rising on the Platinum Jubilee year.

2. Event: AeSI CFD Symposium

Date: 11th –13th August, 2024

From August 11 to 13, 2024, the institute hosted the AeSI CFD Symposium, a major event that convened leading researchers, scientists, and professionals in the field of Computational Fluid Dynamics (CFD). The symposium was a vibrant intellectual hub, providing a crucial platform for the exchange of ideas, the presentation of cutting-edge research, and the fostering of new collaborations. The highlight of the event was the presence and insightful address by Dr. S. Somanath, Chairman of ISRO, who shared his expertise and visionary perspective on the future of aerospace technology. His participation underscored

the event's importance and inspired both students and seasoned professionals alike.

The three-day symposium was structured to facilitate deep dives into a wide range of topics, including turbulent flow modeling, aerodynamic analysis, and the application of CFD in emerging computational technologies. Through a series of technical sessions and engaging discussions, the symposium effectively highlighted the indispensable role of CFD in shaping the future of aerospace and engineering innovations. The active participation from both academia and industry made this event a true testament to the power of collaboration and interdisciplinary dialogue.

3. Event: Data Science Summit '24

Date: 6th- 8th September, 2024

The Data Science Summit, the annual flagship event of the Society for Data Science, is a premier gathering dedicated to advancing knowledge in data science, machine learning, and artificial intelligence. This summit serves as a vibrant platform for students, researchers, and tech enthusiasts to delve into the latest developments and apply their skills to real-world challenges. Data Science Summit '24 was a highly anticipated three-day event, featuring a diverse mix of intellectual and practical activities that engaged participants at every level. The summit continued its tradition of fostering innovation, collaboration, and hands-on learning in data-driven technologies. With each new edition, the summit grows as a dynamic space for the community to connect, share ideas, and drive progress in the rapidly evolving world of data.

4. Event: Pantheon 2024

Date: October 4–6, 2024

Pantheon, the annual techno-cultural fest of BIT Mesra, is celebrated as one of the most vibrant student-driven festivals in Eastern India. This grand event serves as a unique confluence of technology, innovation, culture, and creativity, attracting participants from premier institutions across the country. Pantheon offers an exciting mix of technical competitions, hackathons, workshops, and pro-shows, making it more than just a festival—it's an unforgettable experience of talent, passion, and collaboration. Each year, Pantheon brings together thousands of students, industry experts, and artists, truly celebrating youth, innovation, and diversity.

5. Event: The 34th Convocation

Date: November 16, 2024

The 34th Convocation of BIT Mesra marked another historic milestone, celebrating the achievements of its graduating students and reaffirming its vision of nurturing future leaders.

The ceremony was presided over by Shri Santosh Kumar Gangwar, the Hon'ble Governor of Jharkhand and Chancellor of BIT Mesra, who inspired the graduates to contribute meaningfully to nation-building. The keynote address was delivered by Padma Bhushan Dr. B. N. Suresh, a renowned space scientist and former President of the Indian National Academy of Engineering. Dr. Suresh shared invaluable insights into advancements in space technology and their transformative impact on the future. The presence of Shri C. K. Birla, Chairman of the Board of Governors, added to the significance of the event, with his words of wisdom serving as an inspiration to the graduating class.

2025

1. Event: Enhancement of Central Instrumentation Facility (CIF)

Date: March 20, 2025

BIT Mesra has taken a major leap forward in its pursuit of excellence in research and innovation with the recent enhancement of its Central Instrumentation Facility (CIF). The Institute has added four cutting-edge scientific instruments to its research infrastructure: Powder XRD (Rigaku, Japan), CHNS Analyzer (Elementar, Germany), GC-MS/MS (Thermo Fisher, USA), and Gas Analyzer (Thermo Fisher, USA). These advanced instruments will empower researchers, faculty, and students to undertake high-end scientific investigations and interdisciplinary studies with greater precision and efficiency. The new facilities were officially inaugurated by Prof. Indranil Manna, Vice-Chancellor, BIT Mesra, marking a significant milestone in the Institute's journey toward fostering world-class research.

2. Event: Republic Day Celebration

Date: January 26, 2025

The 76th Republic Day was celebrated with grandeur at BIT Mesra, marking both a moment of national pride and a key event within the institute's Platinum Jubilee year. The celebrations began with Prof. Indranil Manna, Vice-Chancellor, hoisting the national flag, followed by a vibrant parade that showcased the patriotic spirit of the BIT community. In his address, Prof. Manna highlighted the institute's remarkable 70-year journey, reaffirmed its commitment to the National Education Policy (NEP) 2020, and made the special announcement of the upcoming visit of the President of India on February 15, 2025, as part of the Jubilee celebrations.

3. Event- Platinum Jubilee Celebration

Date- 15th February, 2025

The Birla Institute of Technology, Mesra, recently commemorated 70 years of excellence with a grand Platinum Jubilee celebration on February 15,2025. The event marked a historic milestone, solidifying the institute's legacy of pioneering education, research, and innovation.

The ceremony was graced by the nation's most distinguished figures, with the Hon'ble President of India, Smt. Droupadi Murmu, serving as Chief Guest. Her presence, along with Jharkhand Governor Shri Santosh Kumar Gangwar, Minister Shri Sudivya Kumar, and Birla Group Chairman Shri C.K. Birla, added unparalleled prestige to the occasion.

4. Event- National Science Day 2025

Date- 28th February, 2025

The Institute Innovation Council (IIC), BIT Mesra commemorated National Science Day 2025 with a vibrant celebration that brought together students, faculty, and distinguished scientists to honor the spirit of scientific excellence. The day was marked by inspiring discussions, knowledge-sharing sessions, and heartfelt tributes to the power of science and innovation. The event was graced by Prof. Sushanta Kumar Dattagupta

(Chief Guest), Former Director of IISER Kolkata, whose address enlightened the gathering with valuable insights into the role of science in nation-building. Prof. Pratim Chattoraj (Guest of Honour) also shared his perspective, encouraging students to nurture curiosity and pursue research-driven innovation.

The celebration served as a reminder of BIT Mesra's enduring commitment to fostering scientific temper and promoting cutting-edge research. It was truly a day of inspiration, reflection, and a renewed pledge to carry forward the legacy of scientific discovery.

5. Event- Advanced Data Science Lab: Inauguration

Date- 3rd March 2025

BIT Mesra was honored to host Mr. Ashwini Tewari, the Managing Director of the State Bank of India and a distinguished alumnus. Accompanied by senior SBI officials, Mr. Tewari engaged in meaningful interactions on advancing academic excellence and fostering deeper industry–institute collaboration. As part of its continued commitment to education and innovation, SBI extended a CSR Grant of ₹25.66 lakh to BIT Mesra in 2025. This builds on their contribution of ₹21 lakh in the previous year, which supported the establishment of an Advanced Data Science Lab at CQEDS, empowering students with cutting-edge research facilities.

6. Event- 71st Foundation Day 2025

Date- 15th July, 2025

An unforgettable day filled with pride, nostalgia, and inspiration marked the celebration of the 71st Foundation Day at BIT Mesra. The campus was filled with a sense of grandeur as it welcomed alumni from across the globe, who reunited to relive cherished memories and reconnect with the spirit of the institute.

The celebration was made even more special by the presence of esteemed guests. Dr. Ganesh Natarajan graced the occasion as the Chief Guest, while Prof. Ajit Kumar Chaturvedi was the Guest of Honor. Their inspiring addresses and vibrant interactions made the celebration truly memorable.The 71st Foundation Day was a celebration of BIT Mesra's enduring legacy and a testament to its strong and vibrant community.

BIT Faculty Appreciation Award (BITFAA' 2024)

On the occasion of Independence day 2024, faculty members across various streams where given awards for their contributions in the area of academics, research and Institute Contributions. 22 faculty members were awarded under the categories given below:

BIT FACULTY APPRECIATION AWARD (BITFAA' 2024)						
Category	Highest publication	Highest sponsored research project	Highest impact factor	highest citation	Significant Institute Activity	Best Teacher and Mentor
A: Allied Sciences	Dr Soham Chattopadhyay, BET	Dr Barnali Dasgupta Ghosh, CHM	Dr. Trishna Bal, PST	Dr. Bapi Gorain, PST	Dr. Manish Kumar, (BET)	Dr.Saurabh Lahiri (PHY)
B: Engineering	Dr. Tanushree Bhattacharya, CEE Dr.Puja Rajhans, CEE Dr.Arup Choudhury , (CHE)	Dr.R Naresh Kumar, CEE	Dr. Om Prakash, MEC	Dr. Chinmay Chakraborty, ECE	Dr.Abhijeet Mustafi, CSE and Dr Gautam Sarkel, (CHE)	Dr.T.Ghosh (EEE)
C: Art and Humanities	Dr. Supriyo Roy, MGT	Dr Manjari Chakraborty	Dr. Pranjal Kumar, HMC	Dr. Satyaki Sarkar, ARP	Dr. Manish Kr. Pandey, QED	Mr. Gautam Shandilya (HMC)
D:University Polytechnic	-		-	-		Dr Sandhya Rani

Staff Commendation Award

On the auspicious occasion of Republic Day celebration 2025, 08 (Eight) staff members of this Institute has been awarded the **"Staff Commendation Award"** for their valuable contribution and performance during the year based on the recommendation of the Institute committee.

This name of the awarded staff members is as under				
Sl. No.	**CENTRE**	**CODE**	**NAME / DESIGNATION**	**DEPARTMENT**
1	Mesra	09815	Lalit Mohan Tiwari/ Senior Superintendent	Training And Placement
2	Mesra	09362	Subhash Kumar Singh/ Sr. Tech. Superintendent	Transport
3	Mesra	09256	Sanjay Kumar Sharma/ Assistant	General Office (Deputed To Dofa Office)
4	Mesra	02935	Jaleshwar Mahto/ Jr. Superintendent	Department Of Space Engg. & Rocketry
5	Mesra	09277	Swaraj Sengupta/ Sr. Tech. Superintendent	Department Of Chemical Engineering
6	Mesra	10214	Brajesh Kumar Mishra Network Assistant (Jts)	Information And Communication Technology
7	Noida	02638	Prachi Mahindroo/ Stenographer	General Admt. Support
8	Jaipur	09624	Kalyan Sahay Saini/ Senior Mechanic	Workshop

Department of Architecture & Planning

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department

The Department of Architecture & Planning was established at BIT Mesra in the year 1993, in keeping with the multifarious scope of Architecture & Planning as the art and science of designing spaces and adding value to a meaningful, built environment. It is a subject which is a combination of faculties of engineering, science and arts. The programme is a balanced combination of all these streams yet follows a unique pedagogical methodology and that is its hallmark.

1.2 Vision & Mission

Vision: The underlying vision for the Department of Architecture & Planning is to make the department an academic knowledge hub that will actively contribute to the contemporary domain, by

- Providing innovative professionals who will contribute wholesomely to nation-building.
- Providing individuals who can make significant contributions to the advancement of society.
- Preparing students for leadership roles in the fields of Architecture

Mission: The mission of the Department of Architecture & Planning is to foster a student-centered educational program in architecture and urban planning. The programmes, through its pedagogy ,which is heuristic and responsive to technological, cultural, and social environments, seeks to offer a diverse, interdisciplinary and rigorous curriculum that will promote personal development and professional excellence. The Department is committed to:

- Imparting strong fundamental concepts to students and motivate them to find innovative solutions to architectural and planning problems independently
- Developing architects and planners with managerial attributes capable of applying the latest technology with responsibility
- Creation of congenial atmosphere and excellent research facilities for undertaking quality research by faculty and students.

1.3 Key Achievements

Student Achievements:

SN	Student Name	Conpany Name	Designation	City	CTC INR
1	Adarsh Kumar	Al-Abraj consulting Engineers & Architects, Oman	Junior Architect	Oman	924000

Awards

Sl. No.	Name of Students	GATE Score	GATE Rank
1	Deep Sikha Debbarma	198	4275
2	Urvi Priyadarshini	367	1658
3	Shlok S Maskara	468	788
4	Swarnim Kiran	451	914

- **Overall Department Achievement:**
  - India Today 2025: Department of Architecture and Planning, BIT Mesra ranks 6th.
  - Outlook-ICARE Rankings 2025: Department of Architecture and Planning, BIT Mesra ranks 1st among the Private Architecture Colleges in India.
  - NIRF Rankings 2024: Department of Architecture and planning, BIT Mesra has been ranked 20th position.

1.4 Courses Offered

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Arch	5 years	40	Duration: 5 years (10 semesters) Curriculum: Combines theory, design studios, fieldwork, and practical training Regulatory Body: Approved by Council of Architecture (COA), India
2	MUP	2 years	18	Duration: 2 years (4 semesters) Curriculum: Combines theory, planning studios, fieldwork, and practical training Regulatory Body: Approved by Institute of Town Planners India & AICTE
3	PhD		NA	

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Aditi	Competitiveness Index Modelling for Perspective Development and Integrated Upliftment Focusing on Heritage Towns	Dr. Smriti Mishra	03/01/2025

SECTION 2 EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Recycling of coal mine overburden to reuse as a value-added building material to promote a circular economy	PI: Dr Manjari Chakraborty Co-PI: Rizwan Kazmi	Coal India Limited, Ministry of Coal, GoI	01-09-2023	285.92 L	02 years
2	Enhancement of Gram Panchayat Spatial Development Plan / Master Plan for Neori Panchayat (Ranchi district) and Kandra Panchayat (Bokaro District)	PI: Smriti Mishra Co-PI: Bimal Chandra Roy, Rajan Chandra Sinha, Ritu Agrawal, Apurv Ashish, Tiwari Pavan Kumar, Rizwan Kazmi, Anjali Pathak, Shama Parween, Prashant Prasad	Ministry of Panchayati Raj, GoI	October 2024	Rs. 10.00 L	1 year

(b)Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Interrelationship Between Socio-Economic Development, Social Innovation and Entrepreneurship Development: An Empirical Study on Small Heritage Town	PI: Satyaki Sarkar, Co-PI: Supriyo Roy (Dept. of Management)	ICSSR	09.03.2023	8.06 L	08.03.2025

(c) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	Projects for preparing detailed studies under the MoU between Department of Architecture and Planning, BIT Mesra and Ranchi Smart City Corporation Ltd	Ranchi Smart City Corporation Ltd.	September 2023-31st July 2025	INR 3,00,000/-	PI: Smriti Mishra Co-PI: Bimal Chandra Roy, Rajan Chandra Sinha, Ritu Agrawal, Apurv Ashish, Tiwari Pavan Kumar, Rizwan Kazmi, Anjali Pathak, Shama Parween, Prashant Prasad	Completed

3.1 Events Conducted by the Department:

SECTION 3		SEMINAR / CONFERENCE

Sl. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline /Hybrid)
1	Software Training Workshop: "Life Cycle Assessment"	Dr Manjari Chakraborty	Coal India Limited, Ministry of Coal, GoI	17-10-2024 to 18-10-2024	Offline
2	5-Day Short Term Training Program on Mastering BIM for Infrastructure and Building: A Handson Workshop	Convener -Smriti Mishra Cordinators: Apurv Ashish, Shama Parween, and Rizwan Kazmi	BIT Mesra, Ranchi	10.2.2025 -14.2.2025	Hybrid
3	Nirvikalpa Manthan in collaboration with Dept. of Humanities and Social Sciences.	Organising Committee Member as Head of the Dept.	BIT Mesra, Ranchi	4.2.2025	Offline

4	International Workshop on Wetland Ecosystem Management in collaboration with Dept. of Civil and Environmental Engineering.	Co-Convener-Smriti Mishra	BIT Mesra, Ranchi	13.1.2025 -15.1.2025	Offline
5	Eastern Regional Conference'24 organised in Collaboration with Indian Institute of Architects, Jharkhand Chapter	Organising Committee member-Smriti Mishra	IIA Jharkhand Chapter	20.12.2024 – 21. 12.2024	Offline
6	'World Architecture Day' cum Fresher's welcome for B.Arch and MUP First year students	Organising Committee Member as Head of the Dept.	BIT Mesra, Ranchi	4.10.2024 2024	Offline
7	One-day student outreach program 'Berna Bera Nu' for the school children of Surendra Nath Centenary School	Organising Committee Member as Head of the Dept.	BIT Mesra, Ranchi	12.9.2024	Offline
8	Lecture cum Hands-on Workshop Session on Vibrant Heritage and Culture for 'Viksit Bharat'	Smriti Mishra, Ritu Agrawal	BIT Mesra, Ranchi	3.4.2024 – 4.4.2024	Offline
9	Short Term Training Program on 'Energy Efficient Building Design and Energy Simulation Training	Ritu Agrawal, Ashutosh Kumar	BIT Mesra, Ranchi	23rd October - 27th October 2024	Offline

3.2 Events Attended by Faculty.

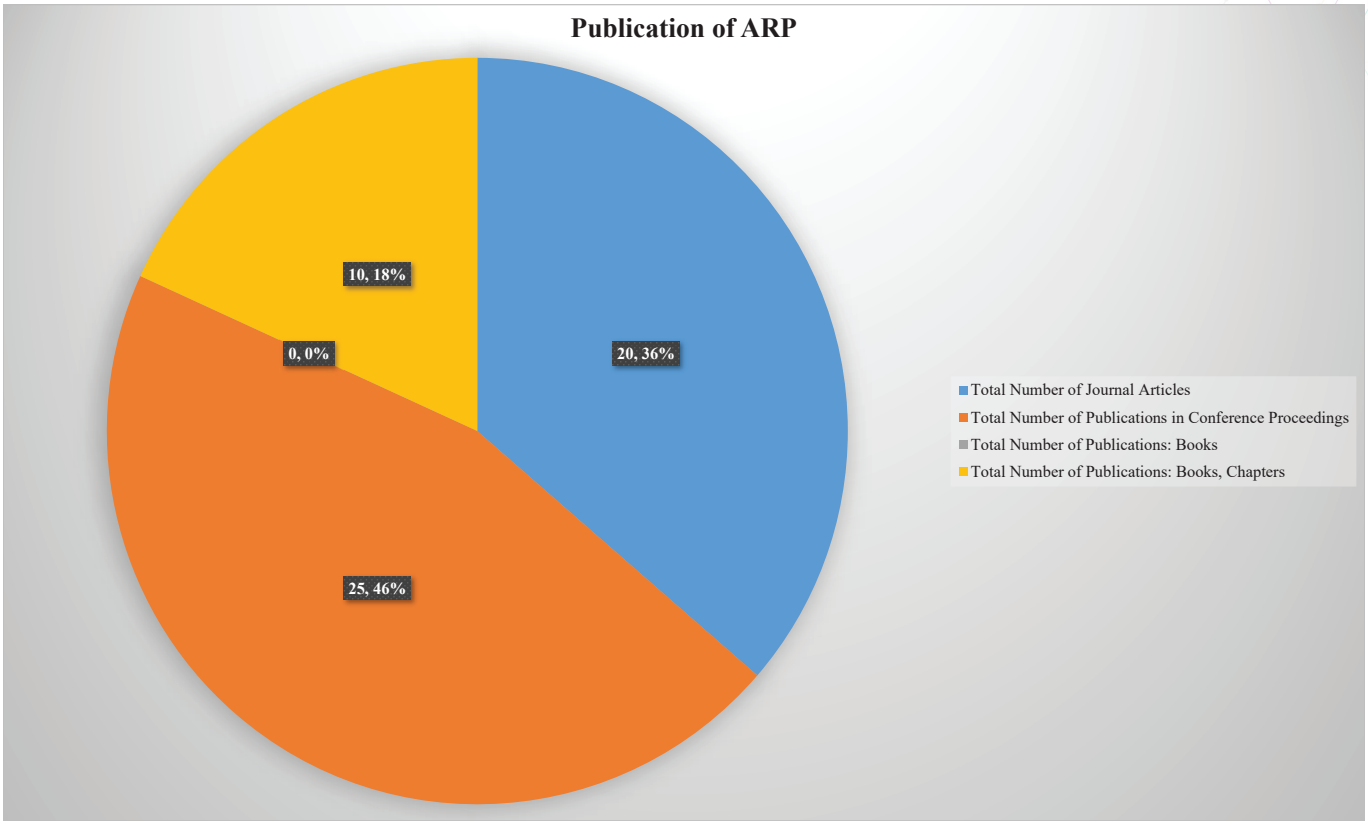
Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Smriti Mishra, R.C. Sinha, Ritu Agrawal, Apurv Ashish, Shama Parween	Eastern Regional Conference'24	IIA Jharkhand and Dept. of Arch and Plng. BIT Mesra	IIA Jharkhand Chapter	BNR, Hotel, Ranchi	20th & 21st December 2024
2	Smriti Mishra, Apurv Ashish	Training Program as Master Trainer for the training and certification of Universal Accessibility Auditors	Council of Architecture in collaboration with the Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, GoI	Council of Architecture	New Delhi	11th March 2024-12 March 2024

3	Rajan Chandra Sinha	ESG in the Energy Sector- Law and Policy	NPTEL+ Workshop	Self	Online	01.02.2025 to 02-02-2025
4	Ritu Agrawal	9th International Conference on Human Values in Higher Education (ICHVHE 2024)	UHV Foundation	Free	Online	22-24 November 2024
5	Ritu Agrawal	One Day-long Workshop-cum-brain storming Session with the Members of the Sectional Committees of BIS	National Institute of Standardization (NITS), NOIDA	National Institute of Standardization (NITS), NOIDA	Offline	16th August 2024
6	Ritu Agrawal	International Conference on Recent Trends in Engineering and Sciences	Birla Institute of Technology, Mesra, Ranchi	Birla Institute of Technology, Mesra, Ranchi	Offline	29-30th March 2024
7	Rizwan Kazmi	Webinar: 'A Framework for Life Cycle Assessment-Towards Sustainable Infrastructure'	Dept. of Civil and Infrastructure Engineering, Indian Institute of Technology (IIT) Dharwad	Indian Institute of Technology (IIT) Dharwad	Online	01-10-2024
8	Anjali Pathak	International Conference in Religious Architecture	NIT Patna	NIT Patna	NIT Patna	29-30 Dec 2024
9	Anjali Pathak	STC: Housing	NIT Patna	NIT Patna	Online	5-9 August, 2024
10	Rewati Raman	Residential Training Programme on The New Urban Agenda	Centre for Science and Environment (CSE) New Delhi	Centre for Science and Environment (CSE) Travel Support – BIT Mesra	Anil Agarwal Environment Training Institute (AAETI), Nimli, Tijara, Rajasthan	22-04-2025 to 25-04-2025

SECTION 4 — RESEARCH PUBLICATIONS

Publication Data (Period: 1st Jan 2024 to 31st Dec 2024)

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	20	25	Nil	10



SECTION 5 AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
3	Ritu Agrawal	Endowed approval and funding from the Director General, Bureau of Indian Standards (BIS) following the recommendation of the Screening Committee, for foreign deputation to participate in the meeting of ISO/TC 336 on Laboratory Design, in Austria	BIS (Bureau of Indian Standards)	International	11 to 13 June 2025
1	Dr. Bimal Chandra Roy	Chair for the technical sessions	The 3rd International Conference on Trends in Architecture & Construction (ICTAC-2025), organized by Chandigarh University	International	28th March 2025

2	Ritu Agrawal	Nominated as expert by the Chemical Hazards Sectional Committee, BIS (Bureau of Indian Standards) as representative in the ISO/TC 3336 working group for Panel CHD 07: P8 'Laboratory Design'	BIS (Bureau of Indian Standards)	National	2024
4	Dr. Tiwari Pavan Kumar	Nominated as expert by the Chemical Hazards Sectional Committee, BIS (Bureau of Indian Standards) as representative in the ISO/TC 3336 working group for Panel CHD 07: P8 'Laboratory Design'	BIS (Bureau of Indian Standards)	National	2024

SECTION 6		Faculty Members

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. Satyaki Sarkar	Professor & Head	Urban and regional planning Conservation and heritage management Disaster mitigation Rural facility planning	PhD	12.07.2004
2	Dr. Manjari Chakraborty	Professor	Architectural Education Building Science and Technology Sustainability and Green Architecture	PhD	12.02.1990
3	Dr. Smriti Mishra	Associate Prof.	Urban and Regional Planning Riverfront Planning Vernacular Architecture Perception studies Planning and development of Peri Urban Areas Development Management UHI Mitigation Strategies, Urban Environmental Management, Abandoned Mines and Landscaping Strategies.	PhD	20.10.2005
4	Dr. Bimal Chandra Roy	Associate Prof.	Urban and Regional Planning Spatial Planning for Industrial Development Urban Infrastructure Planning Planning for Conservation and Heritage Management Planning for carbon footprint reduction Planning for Socio-Economic Development Sustainable Architecture and Planning	PhD	12.08.2008

5	Dr. Rajan Chandra Sinha	Associate Prof.	Housing and Community Planning Culturally Responsive Built Environment Urban Governance and Development Planning Urban and regional Planning Urban Infrastructure Planning Systems Construction Management Disaster Management Planning	PhD	21.01.2009
6	Mrs. Ritu Agrawal	Assist. Prof.	History of Indian Architecture Vernacular Architecture Urban Environmental Management Landscape Design Urban Greens Urban Development Planning Water Resources Management Rural Development	M.Arch (PhD ongoing	09.03.2000
7	Mr. Anuj Kumar Toppo	Assist. Prof.	Urban Planning Environmental Science Plumbing	MUP (PhD Submitted)	01.11.2006
8	Mr. Ashutosh Kumar	Assist. Prof.	Master in Building Engineering & Management	M. Tech (PhD ongoing)	19.09.2016
9	Mr. Apurv Ashish	Assist. Prof.	Sustainability and Green Building. Existing Building Retrofit. History of Indian and Western Architecture. Acoustics of Enclosed Spaces. Contemporary Architecture. Landscape Architecture. Building Information Modelling.	M.Arch (PhD ongoing)	01.07.2016 -
10	Ms. Anila S. Surin	Assist. Prof.	Urban planning Architecture and tenure ship in urban area Orientation of Ethnic villages within the urban area Tenancy Laws and Urban Development Strategies.	MUP (PhD ongoing	08.08.2016
11	Dr. Tiwari Pavan Kumar	Assist. Prof.	Urban Environment Urban Water and Sanitation Historiography in Architecture and Planning Sustainable Architecture.	PhD	17.06.2019
12	Ms. Anjali Pathak	Assist. Prof.	Urban planning Affordable Housing Urban Poverty Housing Finance Built Environment	MURP (PhD ongoing)	19.06.2019

12	Mr. Rizwan Kazmi	Assist. Prof.	Circular Economy in Construction Sustainable Architecture Urban Regeneration Universal Design Building Services	M.Arch (PhD Submitted)	25.06.2019
13	Dr. Shama Parween	Assist. Prof.	Urban Water Supply Planning and Management Water Security & Conservation Urban Regeneration Urban Design Environmental Planning Vernacular & Climate Responsive Architecture	PhD	25.06.2019
14	Dr. Prashant Prasad	Assist. Prof.	Transportation Planning and Management Road Safety Non-Motorized Transportation Architectural Design	PhD	04.10.2021
16	Dr. Rewati Raman	Assist. Prof.	Designing Tomorrow: Cities, Communities, Spaces and Sustainability	PhD	25.10.2024

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

S. N.	Name	Designation	Affiliation (Regular or Previous)
1.	Ar. Sandeep Kumar Jha	Visiting Faculty	Principal Architect, AXIS Architects, Ranchi
2.	Ar. Anupam Deb	Visiting Faculty	Principal Architect, Metarch Studio, Ranchi
3.	Ar. Anup Kumar Sinha	Visiting Faculty	Principal Architect, AKS Architects, Ranchi
4.	Dr. Sumana Basak	Visiting Faculty	Practising architect, Ranchi
5.	Ar. Ankit berry	Visiting Faculty	Principal Architect, Managing Director, #5012, Skyline Mall, Kadru, Ranchi
6.	Ar. Anusha Sinha	Visiting Faculty	Principal Architect, Atmos Design House, Ranchi

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Satyaki Sarkar	Professor and Head	Chairman (Ex-Officio)
2.	Prof. Manjari Chakraborty	Professor	Internal Member
3.	Dr. Smriti Mishra	Associate Prof.	Internal Member
4.	Dr. Rajan Chandra Sinha	Associate Prof.	Internal Member
5.	Dr. Shama Parween	Assist. Prof.	Internal Member
6.	Dr. V. S. Rathore	Associate Prof. & Head, Dept. of Remote Sensing,	Internal Member (Allied Dept.)
7.	Dr. Bindhu Lal	Professor, Dept. of Civil & Environmental Engg.	Internal Member (Allied Dept.)

8.	Final Yr. MUP	(PG) Student	Student Member
9.	Final Yr. B. Arch	(UG) Student	Student Member
10.	Ar. Sandeep Kumar Jha	Principle Architect & Planner, AXIS, Ranchi	External Member
11.	Dr. N.R. Mandal	Professor, School of Planning & Architecture, Bhopal	External Member
12.	Ar. Sudipta Chakraborty	Ex-Chief Architect, CMPDIL, Ranchi	External Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Guest Lecture & B. Arch Interim Thesis Review Ar. Sandeep Kumar Vice-President Design, GMR, ALD, Hyderabad	NA		26.03.2025
2	Guest Lecture & B. Arch Interim Thesis Review Ar. Sumon Gupta Principal Architect & Partner, Aakriti Architects, Kolkata	NA		26.03.2025
3	One-Day Workshop on "Nirvikalpa Manthan: Brainstorming on Life"	NA	Dr. Prashant Prasad Ar. Anjali Pathak	05.02.2025
4	International Workshop on Wetland Ecosystem Management	NA	Dept. of ARP & CEE	13.01.2025-15.01.2025
5	Barna Bera Nu (the Future)	NA	Ar. Apurv Ashish	12.09.2024
6	Short Term Training Program on Energy Efficient Building Design and Energy Simulation Training	NA	Ar. Ritu Agrawal Ar. Ashutosh Kumar	23.10.2024 – 27.10.2024

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Uddipan Mondal	Best Studio Project	Eastern Interface of Saint-Gobain Transparence 18.0 Best Studio Project	2024	
2	Uddipan Mondal	First Prize: Global	Energy mentors: Power the community international competition	2025	
3	Ayushi Kriti Nath	Top 50	Beyond dimensions with Gyproc design Challenge	2025	
4	Ananya Prabhat	Top 50	Beyond dimensions with Gyproc design Challenge	2025	
5	Bhakti Shirsat	Top 50	Lights, camera & Design by Archdais	2024	
6	Rohan Prem Kumar, Utkarsh Anand, Swarnav Nayan	Top 50	Lights, camera & Design by Archdais	2024	
7	Rohan Prem Kumar, Utkarsh Anand, Swarnav Nayan	First Prize	Archmello Urban insert	2024	

8	Rohan Prem Kumar, Utkarsh Anand, Swarnav Nayan	Jury Commendation	Eastern interface of Saint Gobain Transparence 19.0	2025	
9	Abantika Duttagaur	First Prize: Global	Energy mentors: Power the community international competition	2025	
10	Dhruv Mukherjee, Gauri Kahate, Kislaya	Special Recognition	Eastern interface of Saint Gobain Transparence 19.0	2025	
11	Student's group from 4th year	Top 30	Architecture Student Contest of Saint Gobain Transparence 19.0	2025	

Placement

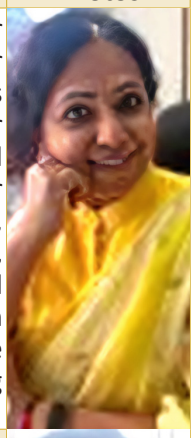
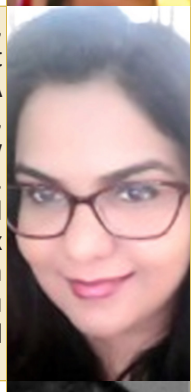
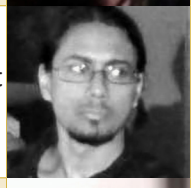
S.N.	Student Name	Company Name	Designation	City	CTC INR
1	Harsh Kumar Singh	M Moser Design Associates (India) Private Limited	Graduate Architect	Delhi	420000
2	Samridhi Khanna	Edific Consultants Pvt. Ltd.	Graduate Architect	Mumbai	360000
3	Srinidhi Srinivasan	M Moser Design Associates (India) Private Limited	Graduate Architect	Mumbai	480000
4	Shubhashish Kumar	M Moser Design Associates (India) Private Limited	Graduate Architect	Mumbai	480000
5	Subham Sinha	Practice Design Pvt. Ltd.	Graduate Architect	Mumbai	400000

SECTION 8 OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date (DD.MM.YYYY)	Photos
1	Keynote speech by Ar. Chitra Vishwanath,	Biome Environmental Solutions, Bangalore	Dept. of ARP	4.10.2024	
2	Lecture by Ar. Gurjeet Singh	Practicing Architect, Jamshedpur			
3	Lecture by Ar. Sudipta Chakraborty	Ex-Chief Architect, CMPDIL, Ranchi			
4	Dr. Alok Bajpai aspects of mental health.	Consultant Psychiatrist at IIT Kanpur and a TEDx speaker, addressing critical	Dept. ARP	5.2. 2025	
	Dr. Himanshu Shekhar	Consultant Psychiatrist at IIT Kanpur and a TEDx speaker, addressing critical			

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Shipra Dutta	Senior Vice President | Group Head - BD (Domestic & International Market) and Corporate Communication, Delhi, India	Shipra Dutta is a dynamic business leader with 22 years of experience in public sector advisory, infrastructure consulting, and business development. She has played a key role in her company's growth and has contributed to several landmark projects across India. Known for her positive outlook, she excels in business strategy, financial management, process improvement, and forging strategic partnerships. A recognized speaker and mentor, Shipra inspires many through her ability to connect people and ideas. She recently delivered an enriching session on "Building a Brand", offering valuable insights to students.	
2	Ar. Richa Singh	Co-Founder and Principal Architect at The Ishaan Kone (Architects and Interior Designers) Bengaluru	Richa Singh, Co-Founder and Principal Architect, brings 20 years of expertise in architecture, project and vendor management, and team leadership. A B.Arch graduate from Birla Institute of Technology, she previously led Design Management in New Jersey as an Architectural Production Manager. Proficient in tools like AutoCAD, SketchUp, and Adobe Suite, she is known for delivering complex projects with precision and reliability. Richa recently conducted an insightful session on "Vastu Principles – Where to Draw the Line", which proved highly valuable for the students.	
3	Ar. Aditya Singh	Project Architect, Hunnarshala Foundation for Building Technology and Innovations	Ar. Aditya Singh, Managing Director of Aabhat Cum and Project Director at Hunnarshala	
4	Ar. Sandeep Jha.	Principal Architect, AXIS Architects, Ranchi	Sandeep Jha has nearly 30 years of experience, is an alumnus of the School of Planning and Architecture, New Delhi, and holds a degree in Urban Planning from BIT Mesra. He is currently the Design Principal of Axis Architects and Planners in Urban. His career includes significant roles at Space Design Consultants in India. This experience has endowed him with a diverse and robust skill set, encompassing architectural design, sustainable design, and comprehensive planning.	
5	Ar. Anupam Deb	Principal Architect, Metarch Studio, Ranchi	Ar. Anupam Deb serves as the Director and Principal Architect at Metarch Studios, a Ranchi-based design firm, where he leads architectural projects spanning residential, commercial, and hospitality spaces throughout Jharkhand. Under his guidance, the studio has executed projects such as local residences, resorts, clubhouses, schools, and showrooms built to blend form and function into regional context.	

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

Developed new Building Materials & Technology Lab from CIL Project fund:

With the State-of-the-art facilities and equipment listed below:

- Tiles Abrasion Testing Machine
- Vibration Table/Tiles Machine
- Swing Hammer Crusher
- Foam Generator
- Brick Making Machine
- Laboratory Pulverizer Machine
- Automatic Compression Testing Machine
- Tile Flexural Testing Machine
- Ribbon Blender Concrete Cut-Off Saw

9.2 IT Upgrades

Total No. of Computers: 71

1. Graphic Lab: 40
2. Building Science Lab: 20
3. MUP Lab: 11
4. Model Making Lab with 3D Printer

SECTION 10		FUTURE PLANS

Research Goals

1. Sustainable Built Environments
   - Promote green architecture, energy-efficient design, and climate-responsive planning.
2. Smart and Resilient Cities
   - Integrate GIS, remote sensing, and AI-driven technologies for urban resilience and smart infrastructure.
3. Heritage Conservation and Urban Regeneration
   - Study and preserve architectural heritage through adaptive reuse and context-sensitive design.
4. Affordable Housing & Inclusive Development
   - Research on low-cost housing technologies, slum rehabilitation, and equitable urban planning.
5. Disaster-Resilient Architecture & Planning
   - Design frameworks and planning models for post-disaster recovery and mitigation.

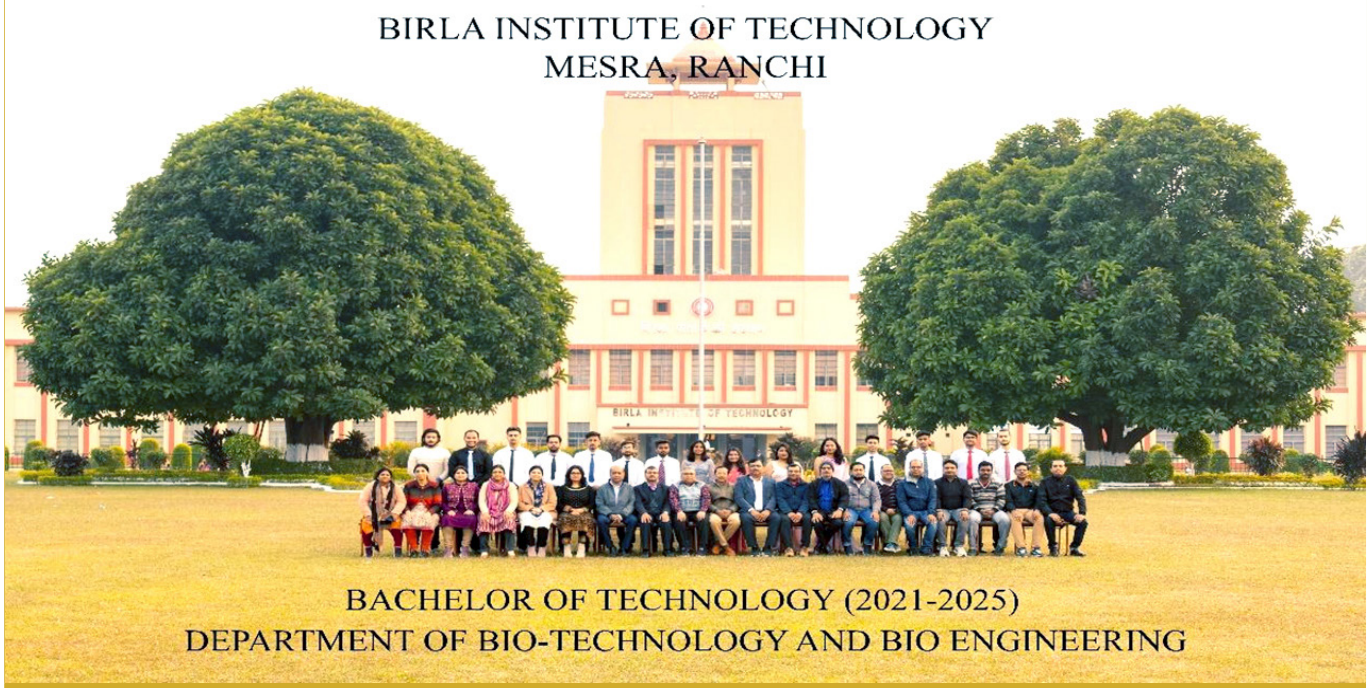
6. Urban Mobility and Transport Planning
   - Develop efficient and sustainable urban transport systems and NMT (non-motorized transport) strategies.
7. Materials and Construction Innovation
   - Experimentation with low-impact materials, digital fabrication, and construction automation.
8. Design Pedagogy and Technology Integration
   - Evolve architectural education by incorporating digital tools, virtual reality, and interdisciplinary methods.

Infrastructure Proposals

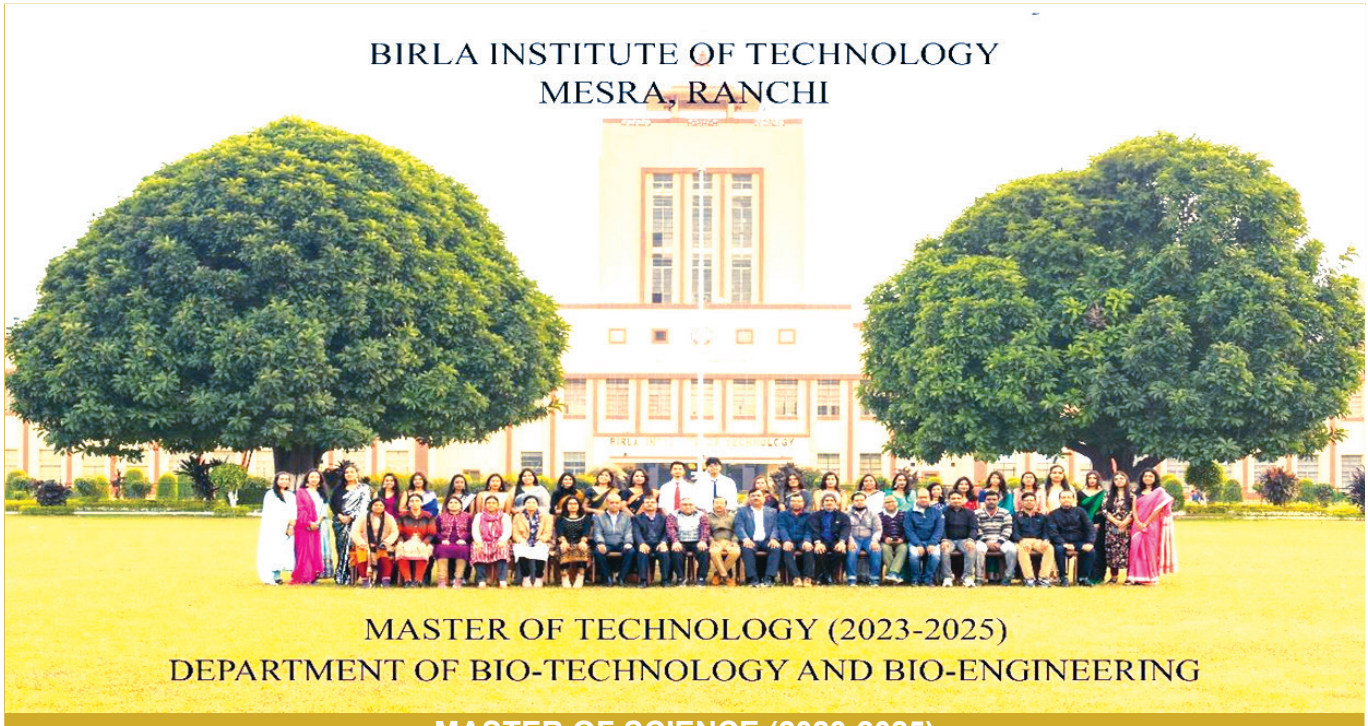
1. Centre for Urban & Regional Studies (CURS)
   - A dedicated research hub for urban analytics, GIS-based planning, and regional development projects.
2. Sustainable Design Lab
   - A hands-on lab equipped for simulation-based studies on daylighting, thermal comfort, and energy use.
3. Digital Fabrication Studio
   - Proposed makerspace with 3D printers, laser cutters, CNC machines, and AR/VR tools for prototyping and model-making.
4. Material Testing & Building Science Lab
   - Upgradation to support research on new materials, structural behaviour, and environmental performance.

Department of Bioengineering & Biotechnology

SECTION 1		DEPARTMENTAL PROFILE



BACHELOR OF TECHNOLOGY (2021-2025)
DEPARTMENT OF BIOENGINEERING AND BIOTECHNOLOGY



MASTER OF SCIENCE (2023-2025)
DEPARTMENT OF BIOENGINEERING AND BIOTECHNOLOGY

1.1 About the Department / Off-Campus

The Department of Biotechnology was established in 2002 with financial support from the Department of Agriculture, Government of Jharkhand, with objectives like providing education and training facilities, carrying out application-oriented research, developing in-house technologies and promoting consultancy services in various areas of Biotechnology. The Department name was changed to Bio-Engineering in May, 2013 and further as Department of Bioengineering and Biotechnology in the year 2022. The department has expertise in all areas of Biotechnology involved in research and teaching. It has proactively taken the lead to provide academic and scientific support to various institutions and Universities for setting up academic and research facility.

1.2 Vision & Mission

- **Vision:** The Department of Bioengineering has a vision to impart international standard quality education in the field of Bioscience, Biotechnology and Bioengineering
- **Mission:** To create state-of-the-art infrastructure for Research and Training in Biotechnology and Bioengineering.

To provide globally acceptable technical education in Bioscience, Biotechnology and Bioengineering.

To nurture graduates for innovation and creativity in the field of Bioscience, Biotechnology and Bioengineering having ethical and social concern.

To promote collaboration with Academia, Industries and Research Organizations at National and International level.

To contribute to socio-economic development through education and bioentrepreneurship.

1.3 Key Achievements

- **Student Achievements:**

Highest package:
B.Tech.
ABHINAV DASHWANT (BTECH/10379/21)
Urban Company; Rs 9,00,000

M.Sc.
Madhumita (MBT/10019/23)
Mu Sigma Pvt Ltd; Rs 5,00,000

Awards/Achievements:

1. Chinmay Ajit Patade (BTECH/10244/21): GATE 2025 AIR 3
2. Aditi Arun Singh (BTECH/10763/21): GATE 2025 AIR 978
3. Simran Kumari (BTECH/10673/21): GATE 2025 AIR 1785
4. Akshat Raj Sharma (BTECH/10762/21): XAT 95.58 percentile

Higher Studies:

1. Chinmay Ajit Patade (BTECH/10244/21): Currently pursuing M.Tech in Bioengineering at IISc Bangalore
2. Aditi Arun Singh (BTECH/10763/21): pursuing Masters at INSA France
3. Shreya Agarwal (BTECH/10716/21): pursuing Masters at Taipei Medical University

- **Faculty Achievement:**
  - Dr Shubha Rani Sharma got a JSPS project from Japan in the 2024, developed collaboration with Dr Khelifa Buoacem, Associate Professor from Algeria in the field of research on thermophiles from Hot Springs. She published 2 patents in 2024.
  - Dr Alok Jain has been invited to join the Editorial Board of *Nature Scientific Reports*.
- **Overall Department Achievement:**

  As part of the 70 years (Platinum Jubilee) celebration of our institute, the department organized three conferences (2 International and 1 National) in the Academic Session 2024-25.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B.Tech. Biotechnology	4 years	60	To produce graduates in Biotechnology with strong technical competence in Bioscience, technology, engineering and management. To develop trained human resource in Biotechnology to promote quality education and to initiate lifelong learning process for productive career
2	M.Tech. Biotechnology	years	18	Students will acquire necessary knowledge and skills in the key areas of Biotechnology. They will think critically and creatively about the use of biotechnology to address local and global problems. Students will be able to implement the engineering principles to biological systems for development of industrial applications, as well as entrepreneurship skills to start biotech industries
3	M.Sc. Biotechnology	2 years	30	To guide students to gain necessary knowledge and develop specialized skills in the different areas of Biotechnology. After completion of this course students will be able to implement the scientific knowledge and skills for development of industrial applications and entrepreneurship

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Bhavna Sharma	Prediction of Gallstones Through Serum Parameters and Exploration of possible Link Between Gallstones and Gallbladder Cancer	Dr. Shubha Rani Sharma	27.07.2024
2	Usha Lakra	Elucidation of structure and application of exopolysaccharide produced by thermophilic bacteria from hot spring of Jharkhand	Dr. Shubha Rani Sharma	08.10.2024

3	Ahmed Hussain	Antimicrobial properties of epidermal mucus from fish	Dr. Shashwati Ghosh Sachan	02.12.2024
4	Prerna Srivastava	Genomic and Proteomic Markers in Oral Potentially Malignant and Malignant Disorder	Dr. Manish Kumar	02.04.2025
5	Uzma Afreen	Study of DNA methylation in Wheat (Triticum aestivum L.) in response to Leaf rust Pathogenesis	Dr. Manish Kumar	16.04.2025
6	Uzma Afreen	Identification and Characterization of microRNAs produced in wheat (Triticum aestivum L.) and Puccinia triticina during leaf rust interactions and development of a prototype of miRNA spray	Dr. Kunal Mukhopadhyay and Dr. Manish Kumar	01.05.2025
7	Shikha Agarwal	Assessment of Hyperglycaemia from Finger Pulse Plethysmogram using Soft Computing Tools	Dr. Rakesh Kr. Sinha	13.05.2025
8	Umang Kumar Dhandhanya	Role of Circular RNA In Leaf Rust Pathogenesis In Wheat (Triticum aestivum L.)	Dr. Manish Kumar and Dr. Kunal Mukhopadhyay	13.05.2025
9	Mahadevan Iyer	Development And Characterization of Lipase Nanocomposites for Biosesnor Application	Dr. Soham Chattopadhyay	16.05.2025
10	Aruna Rani	Bio-Molecular Characterization of Antheraea Mylitta Cocoonase and its Utilization in Silk Processing	Dr. D. M. Pandey	20.05.2025
11	Rishab Garg	Microfluidics Platform for Loop Mediated Isothermal Amplification based DNA Biosensor	Dr. Dinesh Prasad	22.05.2025

SECTION 2 EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Unraveling the roles of wheat and Puccinia triticina microRNAs through Dual RNA-sequencing during leaf rust infection and characterization of microRNA–encoded peptides associated in the process	Dr Kunal Mukhopadhyay (PI) Dr Manish Kumar (Co-PI)	ANRF	03.06.2024	40.42 Lakhs	3 Years
2	Development of Micro-Encapsulated Streptococcus salivarius K12 and Curcumin Extract Gel and Its Effect on Oral Mucositis in Oral Cancer Patients	Dr Manish Kumar (Co-PI)	ANRF	20.06.2024	37.50 Lakhs BIT Share 12.65 Lakhs	3 Years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Bioleaching process for the recovery of precious metals (Cu, Ag) from electronic waste: Towards circular economy	Dr. Muthu K Sampath (PI) Dr. V K Nigam (Co-PI)	DST-SERB, Govt. of India	13.02.2023	29.52 Lakhs	3 Years
2	Optimization of Production and Commercial Applicaion of Xylanase from Thermophilic Bacteria of Surajkund Hotspring	Dr. Shubha Rani Sharma (PI) Dr. V K Nigam (Co-PI)	CSIR, Govt. of India	01.03.2023	24.45 Lakhs	3 Years
3	The role of oxysterol in gallbladder cancer development	Dr Shubha Rani Sharma	Indo Japan Project funded by Japanese funding Agency JSPS	05.03.2024	117.25 Lakhs With the Japanese PI, amount will be sanctioned for India as required	4 Years
4	Self-fitting 4D-Printed Smart Scaffolds with Efficient Bone Regenerative Potential	Dr. Sneha Singh	SERB	24.12.2021	Total Grant- Rs. 70.56 Lakhs BIT Component 40.26 Lakhs	3 Years and 6 months
5	Indigenous development of low-cost AI enabled portable multispectral camera system for rapid early detection of plant diseases and other stress based morphological changes, 9389-ITR	Dr Raju Poddar (Co-PI)	DST-NMICPS; TIH – ISI	03.10.2023	15.21 Lakhs	3 Years
6	Indigenous development of novel biomaterial for laser tissue soldering process and real-time monitoring with optical coherence tomography/angiography system, CRG/2022 /001404	Dr Raju Poddar (PI)	DST-SERB, CRG	04.03.2022	31.46 Lakhs	3 Years
7	Indigenous development of low-cost optical imaging system for early detection of Retinoblastoma in child, 11017/1 5/2023- GIA/HR	Dr Raju Poddar (PI)	DHR-ICMR	11.11.2023	30.81 Lakhs	3 Years
8	Nanorobotic drug delivery system & Lab-On-Chip platform development.	Dr Koel Mukherjee (PI)	I-Hub Foundation for Cobotics, (IHFC) IIT Delhi	31.03.2022	46 Lakhs	3 Years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Analysis and identification of features from neural dynamics and their correlations with autonomic nervous system for development of hybrid brain-computer interface	Dr Rakesh Kumar Sinha (PI)	All India Council for Technical Education	14.08.2020	17.65 Lakhs	30.06.2025
2	Development of multi-functional nano-HAP bone substitute for effective bone regeneration in critical defects	Dr. Sneha Singh	DST	10.07.2021	Total Grant 113.25 Lakhs BIT component 51.15 Lakhs	14.01.2023
3	Development of novel antileukemics through the structural and functional studies of engineered and chimeric plant-type asparaginases	Dr Hare Ram Singh (Co-PI)	SERB, Govt of India	08.02.2022	33.66 Lakhs	30.06.2025
4	A Multi-scale Simulation-based Approach to Design, Characterize and Optimize the Peptide Based Scaffold for Tissue Engineering Applications	Dr Alok Jain (PI)	SERB	10.11.2022	29.82 Lakhs	09.11.2024
5	In-silico design and validation of boronic acid-based molecules for the treatment of colorectal cancer: Computer aided hit to lead discovery	Dr Alok Jain (PI)	DBT	02.07.2019	113.60 Lakhs	01.07.2024

SECTION 3		EXTRAMURAL GRANTS

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	International Conference on Emerging trends in translational Bioinformatics (ET2B-2024)	Dr. Alok Jain (Convenor)	DBT, ANRF, JCSTI, CSIR	05.12.2024-07.12.2024	Offline
2	National Conference on Biotechnology for Sustainable Development (BSD-25)	Dr Shashwati Ghosh Sachan (Convenor)	DBT, ANRF, JCSTI, NASI	27.03.25-29.03.25	Offline
3	International Conference on "Frontiers in Translational Bioengineering for Healthcare" (FTBH 25),	Dr. Sneha Singh (Organizing Secretary)	ANRF, DBT	08.05.2025-10.05.2025	Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Sheela Chandra	FDP on "Genomics assisted crop improvement".	Faculty of Agriculture, Sri Sri University, Cuttack.	DBT, DST	Online	18.07.2024-19.07.2024
2	Alok Jain	FDP on From Bench to Bedside: Challenges in Translational Biomedical Research	NIT Rourkela	-	NIT Rourkela	19.08.2024-23.08.2024
3	Dr Muthu K Sampath (Oral presentation)	International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management (XI IBA-IFIBiop, 2024)	Hongkong Polytechnic University, Hongkong		Hongkong Polytechnic University, Hongkong	01.12.2024-06.12.2024
4	Dr. Koel Mukherjee (Session Chair)	International Conference on Emerging Trends in Translational Bioinformatics,	Dept. of Bioengg and Biotech., BIT Mesra	DBT, ANRF, JCSTI, CSIR	BIT Mesra Ranchi Jharkhand	5.12.2024-7.12.2024
5	Dr Shashwati Ghosh Sachan (Session Chair)	International Conference on Emerging Trends in Translational Bioinformatics (ET2B-2024)	Dept. of Bioengineering and Biotechnology, BIT Mesra	DBT, ANRF, JCSTI, CSIR	BIT Mesra Ranchi Jharkhand	5.12.2024-7.12.2024
6	Dr. Sneha Singh	International Conference on Advances and Challenges in Medical Technology Translation (TransMedTech-2024)	SCTIMST, STERMI and SBAOI	--	Thiruvananthapuram	12.12.2024-14.12.2024
7	Dr Shubha Rani Sharma	One Week hands-on training programme on GC-MS MS and Gas Analyzer	CIF BIT Mesra	Thermo Fisher Scientific India Pvt. Ltd., Thane-421302	CIF BIT Mesra	27.01.2025-31.01.2025
8	Alok Jain	XIIIth International Conference of Indian Academy of Biomedical Science (IABSCON- 2025)	AIIMS Bhopal	-	AIIMS Bhopal	11.02.2025-13.02.2025
9	Dr Shubha Rani Sharma	One Week hands-on Training Programme on X-Ray Diffraction Techniques for Material Characterization and Data Interpretation	CIF BIT Mesra	Thermo I R Technology Services Pvt. Ltd., Kolkata - 700 160 (WB) INDIA	CIF BIT Mesra	03.03.2025 -07.03.2025
10	Dr. Sheela Chandra (Session Chair)	National Conference on Biotechnology for sustainable development (BSD-25)	Dept. of BET	DBT, ANRF, JCSTI, NASI & Institute	BIT Mesra	27.03.2025-29.03.2025
11	Dr Anjana Dwivedi	IKS-TKDL Workshop-7 on Traditional Knowledge Intellectual Property & People's Rights	AICTE		ONLINE	1.4.25 - 4.4.2025 & 7.4.2025 April 2025

12	Dr. Anjana Dwivedi	One day FDP on Know yourself as a teacher	Value Education Cell, BIT, Mesra	BIT, Msera	BIT, Mesra	23.04.2025
13	Dr. Sheela Chandra	International Conference (FTBH) 2025	Dept. of BET	DST, ANRF	BIT Mesra	08.05.25-10.05.25
14	Dr Shashwati Ghosh Sachan (Session Chair)	International Conference on "Frontiers in Translational Bioengineering for Healthcare" (FTBH 25)	Dept. of Bioengineering and Biotechnology, BIT Mesra	ANRF, DBT	BIT Mesra Ranchi Jharkhand	08.05.25-10.05.25
15	Dr. Ramesh Chandra	Wiley's Sustainability in Bioprocessing	Digital Event Wiley	NA	Online	17.06.2025
16	Dr. Anjana Dwivedi (Resource person)	6th Asia-Pacific Virtual Event, Advanced Nursing Practice, Nursing Education And Leadership Conclave, Singapore	Peers Alley International	-	Singapore (Online)	19.06.2025-20.06.2025
17	Dr. Soham Chattopadhyay	Research Structuring & Publication Process	National Foundation for Entrepreneurship Development (NFED)		Online	23.06.2025-27.06.2025
18	Dr. Alok Jain	Research Structuring & Publication Process	National Foundation for Entrepreneurship Development (NFED)		Online	23.06.2025-27.06.2025
19	Dr. Ramesh Chandra (Resource Person)	UGC Malaviya Mission Teacher Training Centre (MMTTC) Ranchi University, Ranchi	Ranchi University		Ranchi University	26.06.2025 (24.06.2025 to 07.07.2025)

SECTION 4 — RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Book Chapters
1	63	Nil	2	18

Graphical representation of Publications

SECTION 5		AWARD / PATENT / COLLABORATIONS

1.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent (Max 50 words)
1	Raju Poddar	A method and apparatus for imaging of vasculature of human eyes adapting an intensity disparity field subtraction	538177	2024	Granted	Optical Instrument and method to measure blood flow in human eye
2	Dr. Kunal Mukhopadhyay, Ms. Uzma Afreen, Dr. Paramjit Kour, Dr. Manish Kumar.	A method for synthesizing silica nanoparticles from waste plant matter.	202431027046	2024	Published	Extraction and purification of crystalline silica further require cautious chemical handling and utilizes specialized tools functioning under regulated environments, particularly for industrial-scale production rather than small-scale or artisanal activities. These procedures significantly impact the environment and lack a cost-effective method.
3	Jaiswal, S., Sinha, R. K. and Nigam, V. K.	A method of isolating extremophilic bacterial microflora from a semi digested food sample and a biocatalyst formulation therof	202431006964	2024	Published	Disclosed invention herein presents a method for isolating and purifying bacterial morphotypes from thermophilic bacterial microflora.
4	Ashish Kumar, Koel Mukherjee, Anushka Satpathy, Vinod Kumar Nigam	ANNZYMIX: A machine learning-based system for predicting and optimizing pectinase enzyme activity	202531006309	2025	Published	A Machine Learning (ML) based web page was developed with a user-friendly interface for predicting pectinase activity. The web page will provide the researcher with the predicted enzyme activity without performing the tedious, long, and costly experiments.
5	Komal Singh, Banhi Halder, Vinod Kumar Nigam	A process for microbial degradation of polystyrene plastic	202531068015	2025	Published	A sustainable method for degrading polystyrene (PS) plastic using Bacillus cereus isolated from e-waste. The process enables efficient PS biodegradation in simple nutrient broth without additives, offering an eco-friendly solution to mitigate rigid plastic pollution.

6	Mahadevan Iyer, Soham Chattopadhyay	A Nanoparticle-Based Method For determining Fatty Acid In Sample	E-12/5/2025/KOL	2025	Applied	A novel method to detect free fatty acids in a given sample was developed. The method based on colorimetric detection of fatty acids using a mixture of two or more nanoparticles.
7	Raju Poddar, Abhishek Banerjee, Shreekant Pandey and Pratyush Pallav	A red-reflux imaging system for detecting retinal defects, and method thereof	202531003239	2024	Applied	Optical Instrument to diagnose ocular diseases
8	Madhumita Kumari , Sheela Chandra	A method for isolating diterpene glycosides producing microbes from Stevia plant	202431052195	2024	Applied	A method for isolating diterpene glycosides producing microbes from Stevia plant is described here which shows that the potenial microbes producing the zero calorie sweetener steviosides Glycosides.
9	Kumari, Kajal, Sampath, Dr. Muthu Kumar, Bal, Dr. Trishna Singh, Dr. Hare Ram	Nanoparticle-charged Hydrogel Dressing for Wound Management	202431085119	2024	Applied	The present invention relates to the preparation of composite hydrogel-based dressing. More particularly, the present invention relates to plant-based hydrogel preparation for wound management.
10	Usha Lakra, Vinod Kumar Nigam, Shubha Rani Sharma	A method for time-efficient production of microbial natural product using minimal media	202431002003	2024	Published	Disclosed invention herein is a method for synthesizing and extracting a biosurfactant from thermophilic bacteria efficiently. This method involves fermenting suitable bacteria in minimal culture media composed of salt and dairy waste, to make the process cost effective and shorten the production cycle.
11	Aakansha Singh & Anjana Dwivedi	Computational System for Identifying Drug Target Combinations to Inhibit Colon Cancer Progression, And Method Thereof	202531003757	2025	Published	The framework identifies critical genetic and molecular control nodes, enabling precise prediction of therapeutic responses and combinatorial drug synergies. The present invention operates by dynamically analyzing biological data, employing Boolean and advanced computational methods to uncover key intervention points, and reducing experimental dependency through robust in silico predictions.

12	Garg R., Prasad D.	A method and device for nucleic acid extraction and purification.	202431007428	2024	Published	The invention presents a cost-effective, time-efficient method for genomic DNA extraction and purification using a synthetic resin-based device. Cells are lysed on threads, and DNA is separated, concentrated, and purified via isotachophoresis, yielding PCR-compatible DNA free from impurities and inhibitors.
13	Garg R., Prasad D.	A polymer sheet for determining nucleic acid and method of use thereof.	202431038910	2024	Published	A portable, cost-effective biosensing sheet is disclosed for rapid detection of pyrophosphate (PPi), a byproduct of DNA amplification methods like LAMP and PCR. This sheet-based biosensor enables nucleic acid detection with strong potential for industrial and point-of-care applications.

SECTION 6 — Faculty Members

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Kunal Mukhopadhyay	Professor & Head	Plant Molecular Biology	PhD	10.07.2003
2	Padmini Padmanabhan	Professor	Bioprocess Engg., Renewable energy	PhD	08.08.2007
3	Ramesh Chandra	Professor	Enzymes, Bioprocess Technology, Mushrooms	Ph.D	01.07.1996
4	Rakesh Kumar Sinha	Professor	Biomedical Signal Analysis	PhD	05.05.2003
5	Vinod Kumar Nigam	Professor	Bioprocess Engineering, Process Development & Microbial Technology	Ph. D	01.08.2009
6	Dev Mani Pandey	Professor	Plant Biotechnology	Ph.D	08.01.2007
7	Manish Kumar	Professor	Plant molecular Biology, Chromatography and mass spectrometry	Ph.D.	03.05.2005
8	Raju Poddar	Professor	Biophysics, Biophotonics, Computational Biology	Ph.D	04.10.2005
9	Shashwati Ghosh Sachan	Associate Professor	Microbial Biotechnology	Ph.D	12.07.2007
10	Sheela Chandra	Associate Professor	Plant Biotechnology, Plant Microbe Interaction	Ph.D	01.07.2008
11	Hare Ram Singh	Asst Professor	Reproductive physiology, Bioprocess and Nanotech	Ph.D	01.10.2007
12	Yogender Aggarwal	Assistant Professor	Biomedical Engineering	Ph.D	01.06.2007
13	Shubha Rani Sharma	Assistant Professor	Microbiology, Medical Sciences	Ph.D	01.09.2008
14	Anjana Dwivedi	Assistant Professor	Biomedical Instrumentation, Systems Biology	Ph.D.	01.04.2008

15	Koel Mukherjee	Assistant Professor	Bioinformatics, Nanobiotechnology	Ph.D	18.09.2009
16	Dinesh Prasad	Assistant Professor	Biomolecular Engineering	Ph.D	01.10.2011
17	Sneha Singh	Assistant Professor	Functional Biomaterials, Tissue Engineering, Regenerative Medicine, Nanobiotechnology, phytomedicines	Ph.D	21.07.2009
18	Soham Chattopadhyay	Assistant Professor	Biosensor, Bioprocess, Bioremediation	Ph.D	11.07.2016
19	Muthu Kumar Sampath	Asst Professor	Bioprocess and Bioseparations	Ph.D	01.09.2016
20	Alok Jain	Assistant Professor	Computational Biology	Ph.D	02.07.2020 (RLF Fellow)

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr Kunal Mukhopadhyay	Ex-Officio	Chairman
2.	Dr. Padmini Padmanabhan	Professor	Internal Member
3	Dr. Ramesh Chandra	Professor	Internal Member
4	Dr Gautam Sarkhel	Professor	Internal Member
5	Dr Ashoke Sharon	Professor	Internal Member
6	Dr Manish Kumar	Professor	Internal Member
7	Dr Soham Chattopadhyay	Assistant Professor	Internal Member
8	Dr. Sudip Chattopadhyay (NIT, Durgapur)	Professor	External Member
9	Dr Arun Goyal (IIT Guwahati)	Professor	External Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Industrial Visit to Sudha Dairy	Mr. Ritik Raj	Dr. Dinesh Prasad	19.10.2024

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1.	Anuradha (PHD/BE10053/20)	3 months internship at Department of Chemical Engineering, National Chung Hsing University Taiwan	IIPP scheme, Taiwan	01.09.2024-30.11.2024	National Chung Hsing University, Taiwan
2	Anushka Satpathy (PHD/BE/10055/20) Awarded with ANRF-SERB-International Travel Grant-2024	Poster Presentation in 1st Asia Pacific Bioinformatics Joint Conference, Okinawa, Japan	Okinawa, Japan	22.10.24-25.10.24	Okinawa, Japan
3	Shazma Sarwat (PHD/BE/10055/22) Awarded with DBT-International Travel Grant- 2024	Poster Presentation in 1st Asia Pacific Bioinformatics Joint Conference, Okinawa, Japan	Okinawa, Japan	22.10.24-25.10.24	Okinawa, Japan

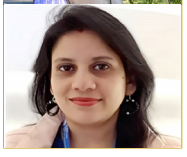
4	Aakansha Singh (PHD/BE/10057/20)	3 months internship at National Yang Ming Chiao Tung University, Taiwan	IIPP scheme, Taiwan	01.12.2024-28.02.2025	National Yang Ming Chiao Tung University, Taiwan
5	Ms Kumari Kajal (PHD/BE/10061/20)	3 months internship at Ming Chi University of Technology, New Taipei City, Taiwan	Under TEEP Programme, Ming Chi University of Technology, New Taipei City, Taiwan	01.05.2025-31.07.2025	Ming Chi University of Technology, New Taipei City, Taiwan

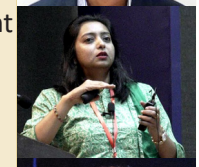
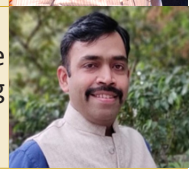
SECTION 8 OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof. LS Shashidhara (Chief Guest)	Director, NCBS Bengaluru	International Conference on Emerging trends in translational Bioinformatics (ET2B-2024)	05.12.2024 to 07.12.2024	
2	Prof. D. Sundar (Guest of Honor)	Director, IBAB Bengaluru			
3	Prof. Anurag Agarwal (Chief Guest)	Ashoka University, Sonipat, Haryana	National Conference on Biotechnology for Sustainable Development (BSD-25)	27.03.2025 to 29.03.2025	
4	Dr. Alok Krishna Sinha (Guest of Honor)	NIPGR, New Delhi			
5	Prof. Bikramjit Basu (Chief Guest)	Director, CSIR-CGCRI, Kolkata & Professor, IISc Bangalore	International Conference on "Frontiers in Translational Bioengineering for Healthcare" (FTBH 25)	08.05.2025 to 10.05.2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Dr Prasoon Kumar	NIT Rourkela	Invited Speakers in International Conference on Emerging trends in translational Bioinformatics (ET2B-2024)	
2	Dr Amita Barik	NIT Durgapur		

3	Dr Nitin Sharma	AstraZenca		
4	Dr Dharmendra Singh	Central University of Kashmir	Invited Speakers in National Conference on Biotechnology for Sustainable Development (BSD-25)	
5	Dr Saket Chandra	NIT Calicut		
6	Dr Astha Agarwal	Indian Patent Agent, Lexpert Consilium LLP		
7	Dr Gopal Prajapati	R&D Biologics, Virchow Biotech Pvt Ltd		
8	Dr. Shashi Ranjan	Entrepreneur, Bengaluru	Invited Speaker in International Conference on "Frontiers in Translational Bioengineering for Healthcare" (FTBH 25)	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	Juntendo University, Japan	A joint JSPS project on the topic Role of oxysterol in gallbladder cancer	2024/ 5 years
2	Dankook University, South Korea	Research	2024 Onwards
3	MSLS, MAHE, Manipal	Research	2024 Onwards
4	Central University of Rajasthan, India	In the form Research proposal submission to DBT GOI with Dr. Sanjib K. Panda	2024-2025
5	Dev Mani Pandey, Ewa Muszyńska, Boris Lazarević, and Fayaz Dar Ewa Muszyńska: Warsaw University of Life Sciences, Warsaw, Poland Boris Lazarević: Faculty of Agriculture, University of Zagreb, Zagreb, Croatia Fayaz Dar: Department of Bioresources, Amar Singh College, Cluster University, Srinagar, India	Editor on the Research Topic " Elucidating Mechanisms of Aluminium Tolerance in Plants" of Frontiers in Plant Science	2025
6	Rajendra Institute of Medical Sciences, Ranchi, Jharkhand	Research in the field of Physiology and biosignals with Dr. Rajendra Kumar, Dept. of Physiology	2025

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

PG Laboratory has been provided with a Smart Board. 80 new Dual Desks for classrooms have been procured. Chairs for Department Seminar room.

9.2 IT Upgrades

The department has recently undergone significant IT upgrades to enhance computational support for students. Currently, there are approximately 40 high-end computers equipped with the latest hardware and software, readily available for student use in academic activities. In addition, the department houses several high-performance workstations and dedicated computer servers to support advanced research. We also maintain licensed access to select commercial software tools essential for various research applications.

SECTION 10		FUTURE PLANS (2025-26)

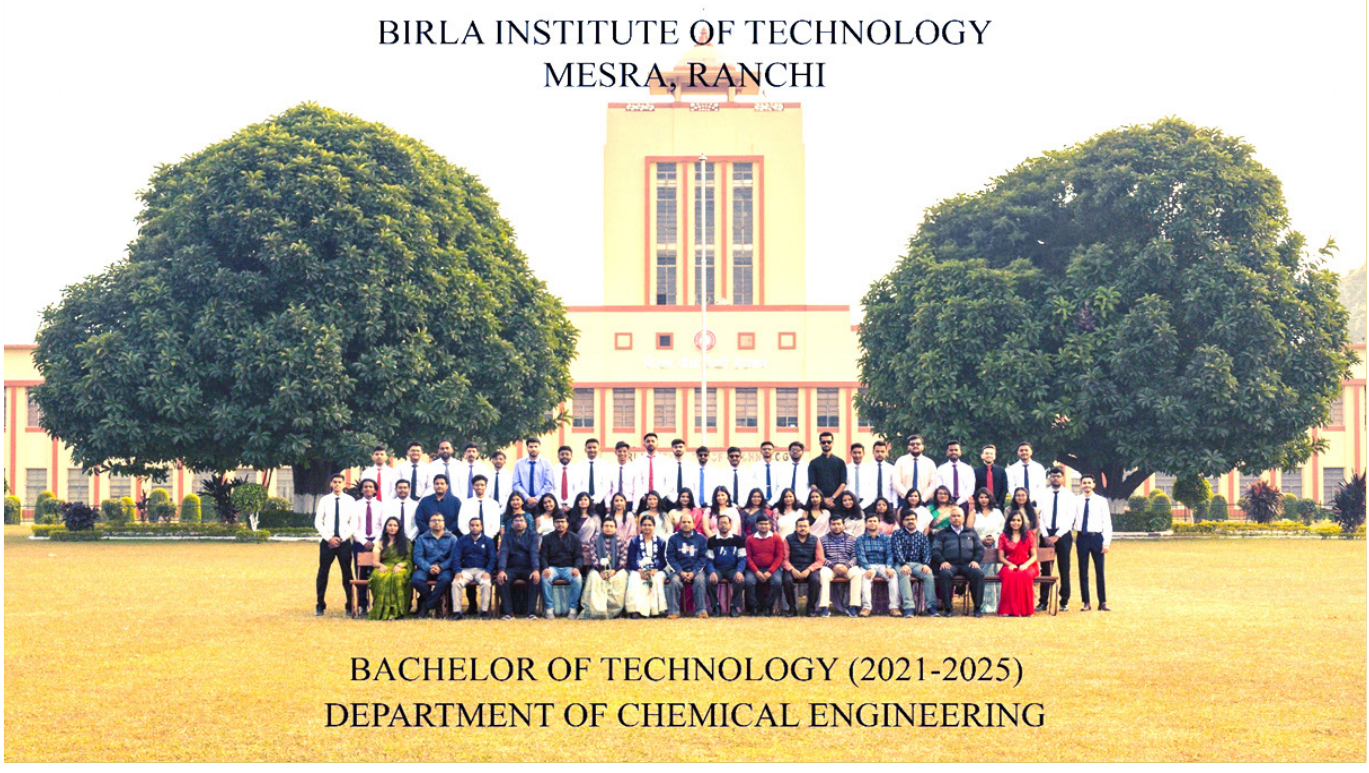
- **(Upcoming courses, research goals, infrastructure proposals in a brief paragraph)**

Upcoming courses:

1. BMLT 4 yr course from 2025-26

Department of Chemical Engineering

SECTION 1		DEPARTMENTAL PROFILE



About the Department / Off-Campus

Department of Chemical Engineering at BIT Mesra. Chemical Engineering discipline is the interface of molecular sciences and engineering. The discipline is strongly dependent on the basic scientific fundamentals like Chemistry, Physics, Mathematics and Biology along with other engineering disciplines like Materials Science, Mechanical, Electrical, Civil and Computer Science. The discipline offers unparalleled opportunities to change human civilization on all fronts.

The department was established in 1994 as Polymer Engineering and was renamed Chemical Engineering in 2011. The Department currently offers two undergraduate programs: one is B.TECH. (Chemical Engineering), NBA-accredited with 120 seat capacity, & another is B.TECH. (Food Engineering and Technology) with 30 seat capacity. The department has well-qualified faculties that provide a high standard of education and research in the diversified fields of Chemical Engineering. The academic curriculum of both the existing and proposed courses is up-to-date with CBCS in line with the recent scenario in the field while retaining the core concepts of the discipline. Faculties have introduced new electives related to their research and recent industrial developments. The department also provides facilities for doctoral research in the fields of Chemical Engineering, Polymer Science and Technology, Food Science and Technology and allied areas.

The department has state-of-the art laboratory facilities, comprising high-end equipment, processing lines, and cutting-edge computational facilities with modern simulation software to cater to modern industrial requirements. The department has 7 undergraduate laboratories covering the length and breadth of the core concepts of the disciplines, which include Heat and Mass Transfer lab, Fluid and Mechanical operations, Reaction Engineering, Process Control, Chemical synthesis, material processing, and computational labs with cutting-edge software like COMSOL, ASPEN, ANSYS, MAT LAB and others. In addition, the department has 4 advanced research lab covering the areas of recent advancements in energy, materials, process engineering, and computational fluid dynamics.

The Department received national recognition by winning the Gold Trophy for Plasticon Award 2012 in the category of Best Educational Institution Contributing to Plastics at the 8th International Plastics Exhibition and Conference, supported by the Ministry of Chemicals and Fertilizers and the Department of Chemicals and Petrochemicals, Government of India. The Department is recognized by the Department of Science and Technology, Government of India, as a FIST Department. Over last few years, there has been an increase in sponsored research from DRDL, DRDO, DBT, DST, ICMR, Ministry of New and Renewable Energy, Coir Board, CCL, etc.

The Department has strong interaction with many industries to insist on our students taking part in industrial projects and to accept pre-placement offers as final year projects in the industry. Students are placed in esteemed core and software companies across the world. To name some of our recruiters, ADITYA BIRLA, TATA STEEL, ZINDAL, RELIANCE, PWC, STARLITE, GOOGLE, WIPRO, AMAZON, ACCENTURE and many more.

Students are also pursuing their higher studies at institutes of national and international repute, including different IITs, NITs, and foreign universities. Some of our alumni cracked Civil Service examinations as well.

In addition, the IICHE, BIT Mesra student chapter aims to make the students aware of the recent requirements and progress of chemical engineering and to give them the opportunity to be members of a wide chemical engineering fraternity. Almost every year, Chemical Engineering students organize the Technical Fest "Coalescence," where experts from industry are invited for guest lectures. The department organizes industry visits from time to time to familiarize itself with the industry.

1.2 Vision & Mission

- Vision: To be a centre of excellence for the provision of effective teaching/learning, skill development, and research in the areas of chemical engineering and allied areas through the application of chemical engineering principles.
- Mission:
  - To educate and prepare graduate engineers with critical thinking skills in the areas of chemical engineering & polymer science and engineering, who will be the leaders in industry, academia, and administrative services, both at national and international levels.
  - To inculcate a fundamental knowledge base in undergraduate students which enable them to carry out post-graduate study, do innovative interdisciplinary doctoral research, and to be engaged in long-life learning.
  - To train students in addressing the challenges in chemical, petrochemical, polymer, and allied industries by developing sustainable and eco-friendly technologies.

1.3 Key Achievements (2024-25) (One in each category)

- Student Achievements: Ms. Prashansha Agarwal received a fully funded internship at University of Guelph, Canada
- Faculty Achievement: Faculty have published more than 69 publications in peer reviewed journals
- Overall Department Achievement: Department has conducted one International conferences in 2024-25, namely, ETCEAM 24 in December 24 and is preparing for NBA accreditation for a third time after receiving TWO prior accreditations in 2018-21 and 2022-25.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features of Course
1	B. Tech (Chemical Engineering)	4 years	120	Program imparts high standard knowledge and training on Chemical Engineering fundamentals - Heat Transfer, Mass Transfer, Fluid Mechanics, Process Control, Reaction Engineering, Computer Aided Engineering to groom students to carry out economic environment friendly Design, Technology Development and operation of wide range of Chemical Plants – Industrial chemicals, petroleum, polymers, pharmaceuticals, cement, fertilizer, food industry etc.
2	B. Tech (Food Engineering & Technology)	4 years	30	Program offers knowledge to students on basics of food science, engineering, processing and technology enabling them to find opportunities in Food industries.
3	Ph.D (Chemical Engineering/ Polymer Science and Engineering/ Food Science and Engineering)	NA	NA	Program motivates and enables students to successfully complete novel research works in areas of chemical engineering, materials, food processing, alternative fuels, sensors etc. After completion students find opportunities in postdoctoral, teaching and scientist positions.

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Bijendra Sahoo	Development of process technology for enhanced resistant starch content in rice and rice based snack (puffed rice)	Dr. Anupam Roy	14/05/2025
2	Ankanksha Kumari	Fortification, micronutrient retention and quality preservation of whole rice grain by soaking and microwave-steam (SMS) gelatinisation	Dr. Anupam Roy	13/05/2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded (2024-25)

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Design and Development of short-time Microwave Assisted Vacuum-Steam-Vacuum (MAVSV) process technology for simultaneous reduction of rancidity-causing enzymes and antinutrients in Millet: Enhancing shelf life and micronutrient bioavailability	Dr. Anupam Roy, Dr. Bidhan Chandra Ruidas	DBT	2024	30,00,000	2 years
2	Nanofluid based solar heat harvesting through modified hybrid PV TEG pannel for sustained solar output and extended lifespan	Dr. Anupam Roy	DST-SERB	2024	37,12,000	3 years
3	Electrochemical Energy driven valuable products Generation from CO2 using MXene-based electrocatalyst	Dr. Bidhan Chandra Ruidas	UGC-DAE	2024	1,35,000	3 years

(b) Ongoing Projects (Period: Financial Year 2024-25)

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Waste Nutshell-derived Porous Carbon Nanofibers and Their Hybrid Mats as Supercapacitor Electrode	Dr. Arup Choudhury	BRNS	Feb 2025	33,72,000	3 years

2	Degradation of polystyrene microplastics (PMSs) from wastewater using Novel Continuous Rotating Electro-Chemical Reactor (CRECR)	Dr. Abhijit Mondal	ICMR-DHR	20/03/2023	44,17,000	
3	Modification of expanded porous starch matrix (EPSM) for promoting survival of probiotic bacteria in both high temperature and gastrointestinal condition: Lab scale to food product matrix validation	Dr. Anupam Roy	ICMR	2022	15,46,000	3 years
4	Degradation of polystyrene microplastics (PMPs) from wastewater using Novel Continuous Rotating Electro-Chemical Reactor (CRECR)	Dr. Anand Bharti	Ministry of Health and Family Welfare, Govt. of India	20/03/2023	44,16,880	3 years

(c) Completed Projects (Period: Financial Year 2024-25)

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Role of hybrid nanofillers on the physio-mechanical and tribological behavior of polymer nanocomposites for load bearing advanced mechanical component applications	Dr. Sudeepan J	SERB	2022	45,83,889	3 years
2	Technical Feasability Assessment of Polymer Recycling to Enable Sustainability	Dr. Sudeepan J	John Deere India Pvt Ltd., Pune	2022	5,90,000	1 year
3	Fibre Reinforced Silica Aerogel Blankets Preparation	Dr. G T Mohanraj, Dr. Aniruddha Deb, Dr. B. C. Ruidas	IndoBell Industries Ltd. Kolkata	June 2021	1,90,000	31.03.25
4	Development of non-destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid	Dr. Anupam Roy	DBT	2020	57,90,000	4 years
5	Design and development of low cost technology for micronutrient protein-fortified whole grain puffed rice	Dr. Anupam Roy	ICMR	2022	49,00,000	2 years
6	Study the Effect of Stretching on the Physico-Mechanical Properties of Acrylates	Prof. Gautam Sarkhel	DMSRDE DRDO	2022	81,36,800	2.5 years

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date (DD. MM.YYYY)	Mode (Online/ Offline/Hybrid)
1	International Conference on "Emerging Trends on Chemical Engineering and Advanced Materials (ETCEAM- 2024)"	Prof. A K Sen (Convenor)		December 13-15, 2024	Offline

3.2 Events Attended by Faculty.

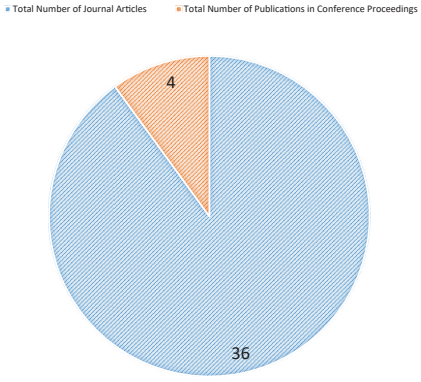
Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Amit Kumar Tiwari	Know Yourself as a Teacher	BIT Mesra	BIT Mesra	BIT Mesra	23.04.2025
2	Dr. Amit Kumar Tiwari	Research Structuring and Publication Process	Centre for Research & Training, National Foundation for Entrepreneurship Development	NFED	Coimbatore	23.06.2025-27.06.2025
3	Dr. Aniruddha Deb	New era of Bioengineering: Innovations and Applications	MIT-WPU	MIT-WPU	Pune	01.07.2024-05.07.2024
4	Dr. Aniruddha Deb	Hybrid composite material-based supercapacitors for next generation portable energy storage electronics	Electronics and ICT Academy, NIT Patna	Ministry of Electronics and Information Technology, Govt of India	NIT Patna	19.05.2025-30.05.2025
5	Dr. Iman Sengupta	High-Efficiency, Low Emissions Clean Coal and Carbon Capture, Utilization, and Storage Technologies	IIT (ISM) Dhanbad	MMTTP	Dhanbad	23.09.2024-28.09.2024
6	Dr. Iman Sengupta	Know Yourself as a Teacher	BIT Mesra	BIT Mesra	BIT Mesra	23.04.2025
6	Dr. Iman Sengupta	Nurturing Future Leadership in Academia	IIT Kharagpur	MMTTP	Kolkata	19.05.2025-23.05.2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings
1	36	4

PUBLICATION DATA



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
Nil					

5.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted
1	Dr. Abhijit Mondal, Gokul Gangadharan P	A Rotating Electrochemical Reactor Using Boron-doped Diamond and Titanium Electrodes for Degrading Polystyrene Microplastics, and Method Thereof	202431087019	2024	Published
2	Dr. Abhijit Mondal, Gokul Gangadharan P	An Electro-Chemical Batch Reactor (ECBR) for degradation of polyethylene terephthalate (PET) microplastics (MPs) in water	202531006308	2025	Published
3	Dr. Anand Bharti	A solar still apparatus and method of use thereof	202431028924	2024	Applied
4	Sen, A.K., Vibha Shree	A Process for manufacturing Melamine based silica filler for the development of self-extinguishing DOPO-Epoxy composites cured by aliphatic amine	202531038920	2025	Applied

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Qualification	Date of Joining
1	Dr. Akhil Kumar Sen	Professor	Smart polymer synthesis and applications	Ph.D.	02-08-2004
2	Dr. Gautam Sarkhel	Professor	Polymer Blends & Composites	Ph.D.	13-01-2001
3	Dr. Sudipta Goswami	Professor	Specialty Polymer (Synthesis & characterization)	Ph.D.	10-04-2006
4	Dr. Arup Choudhury	Associate Professor	Supercapacitor materials	Ph.D.	01-04-2007
5	Dr. G.T. Mohanraj	Associate Professor	Polymeric sensors & actuators	Ph.D.	16-08-2011
6	Dr. Sumit Kumar Jana	Assistant Professor	Fluid Mechanics	Ph.D.	01-07-2008
7	Dr. Sudeepan Jayapalan	Assistant Professor	Tribology of Polymer Composites	Ph.D.	05-09-2009
8	Dr. Pulak Datta	Assistant Professor	Advanced Energy Storage Materials	Ph.D.	15-09-2009
9	Dr. Debasree Ghosh	Assistant Professor	Process Control, Heat Transfer,	Ph.D.	21-10-2009
10	Dr. Abhijit Mondal	Assistant Professor	Process Intensification, Advanced Separation Process	Ph.D.	02-09-2021
11	Dr. Amarnath Mishra	Assistant Professor	Polymer, Water Pollution and Food Technology	Ph.D.	21-01-2009
12	Dr. Arnab Karmakar	Assistant Professor	Boiling Flow; Thermal Fluid; Heat Pipe; Thermal Desalination	Ph.D.	16-02-2015
13	Dr. Bidhan Chandra Ruidas	Assistant Professor	Recent advances in petroleum technology, Combustion	Ph.D.	03-03-2015
14	Dr. Anupam Roy	Assistant Professor	Novel Techniques in Food Processing, Preservation, Food Nanotechnology	Ph.D.	18-07-2016
15	Dr. Amit Kumar Tiwari	Assistant Professor	Food Processing, Food Preservation, NPD from Agricultural/ Forest and Animal produces	Ph.D.	14-03-2005
16	Dr. Anand Bharti	Assistant Professor	Separations, Energy and Environmental Engineering, Thermodynamics, Quantum Chemistry and Molecular Simulation	Ph.D.	28-01-2020
17	Dr. Yogendra Nath Prajapati	Assistant Professor	Adsorption and Heterogeneous Catalysis	Ph.D.	28-01-2020
18	Dr Rajeswari Chatterjee	Assistant Professor	Renewable energy	Ph.D.	07-08-2007
19	Dr. Sangram Roy	Assistant Professor	Multiphase Reaction Engineering, Non-invasive measurements and CFD modeling of Multiphase Flows	Ph.D.	27-06-2023
20	Dr. Aniruddha Deb	Assistant Professor	Nanotechnology, Biosensors & Electrochemical sensors for healthcare, Gel electrophoresis.	Ph.D.	28-02-2024
21	Dr. Iman Sengupta	Assistant Professor	2D materials, graphene, energy-storage devices	Ph.D	30-07-2024
22	Dr Y Jerjurkar	Assistant Professor (Joint Faculty with SER)	Combustion and Computational Fluid Dynamics	Ph.D.	04-07-2017

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HoD/In-charge	Ex-Officio	Chairman
2.	Dr. Gautam Sarkhel	Professor	Internal Member
3.	Dr. (Mrs.) S. Goswami	Professor	Internal Member
4.	Dr. G.T. Mohanraj	Associate Professor	Internal Member
5.	Dr. Anand Bharti	Assistant Professor	Internal Member
6.	Dr. Sumit Kumar Jana	Assistant Professor	Internal Member
7.	Dr (Mrs.) Padmini Padmanavan	Professor	Internal Member
8.	Dr. Sudip das	Professor	Internal Member
9.	One student representative of UG programme		Internal Member
10.	One student representative of PG programme		Internal Member
11.	Dr. Pallab Ghosh	Professor, Dept. of chemical engineering, IIT G	External Member
12.	Dr. Sudip Pattanayek	Professor, Chemical Engineering Department, IITD	External Member
13.	Dr. H.N. Mishra	Ex-Professor, Department of Food and Agricultural Engineering, IIT KGP	External Member
14.	Prof. Priyabrata Sarkar	Ex-Professor, Department of Polymer Science & technology, University of Calcutta	External Member
15.	Dr. Lalaso Vishnu Mohite	Senior Scientist, Aditya Birla Science and Technology Comp Ltd.	External Member
16.	Dr. Chandan Guria	Professor, Department of Petroleum Engineering, ISM Dhanbad	External Member
17.	Dr. Kartik Chandra Ghanta	Professor, Department of Chemical Engineering, NIT Durgapur	External Member
18.	Mr. Basudev Chakraborty	GM Coal Cabonization, RDCIS, SAIL	External Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	ANSYS Workshop	Sakshi Sinha	Dr. Sangram Roy, Dr. Iman Sengupta	17.02.2025

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date (DD.MM.YYYY)
1	Prof. V. Juvekar	Emeritus Fellow, IIT Bombay	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
2	Prof. Dipankar Bandopadhyay	IIT Guwahati	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
3	Prof. J.K. Singh	IIT Kanpur	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
4	Prof. Raman Singh	Monash University, Australia	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
5	Dr. Debdutta Ratna	DRDO	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
6	Dr. Saikat Saha	Ecole Normale Superieure, Paris, France	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
7	Dr. Sourav Sengupta	IIT (ISM) Dhanbad	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
8	Dr. Suman Dutta	IIT (ISM) Dhanbad	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
9	Dr. Sumana Ghosh	IIT Roorkee	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
10	Prof. Ranjana Chowdhury	Jadavpur University	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
11	Dr. Siddhartha G. Chatterjee	SUNY College of Environmental Science & Forestry	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024
12	Dr. M.W. Ahmad	Dhofar University, Oman	Department of Chemical Engineering, BIT Mesra	14.12.2024-16.12.2024

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Sushil Lohia	Director (Supply chain), KPMG India	Lecture by distinguished alumni	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	University of Georgia, Athens, USA	Faculty and student exchange	2024-2029
2	Indobell Insulations Ltd. Kolkata	Fiber reinforced silica aerogel preparation	2024
3	Avanika Softwares Pvt Ltd	Intellectual Property development	2025
4	John Deere Pvt. Ltd., Pune	Development of tribological composites	2022

8.4 Industry Connect (In Brief) (Period: 1st July 2024 - 30th June 2025)

1	Indobell Insulations Ltd. Kolkata	Fiber reinforced silica aerogel preparation
2	Avanika Softwares Pvt Ltd	Intellectual Property development
3	Nandu Chemicals	Visited the department for hiring interns
4	John Deere Pvt. Ltd., Pune	Development of tribological composites

SECTION 9 INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation.

1. Shell and Tube Heat Exchanger

2. Flow Rate Measuring Instrument

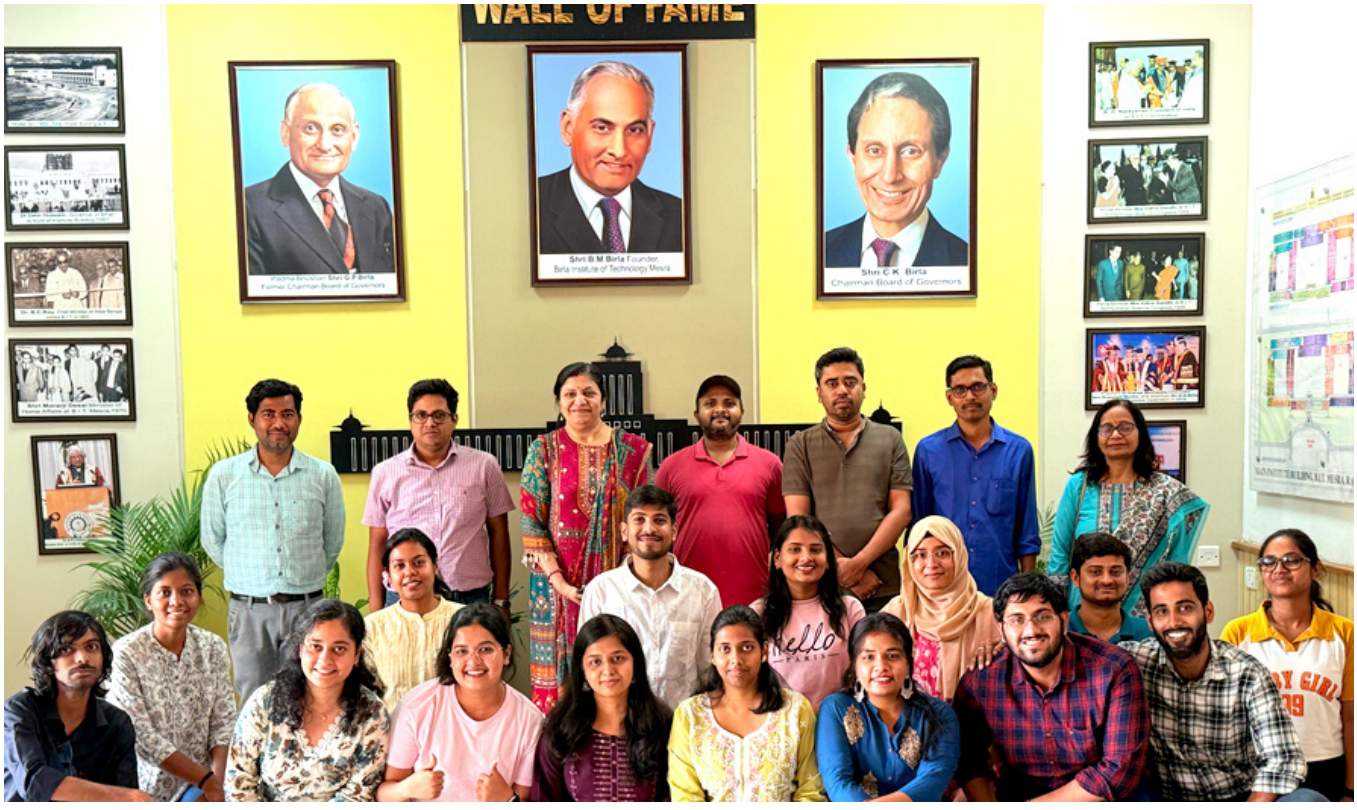
9.2 IT Upgrades.

Department has a computer lab of its own housing more than 40 no. of computers available for student use in the department for carrying out B.Tech projects, PhD research, simulation and modelling works.

SECTION 10 FUTURE PLANS (2025-26)

Department likes to propose M.Tech (Chemical Engineering) PG course in future, because this will enable the department to be eligible for FIST, AICTE and many other funding schemes. Also, starting of a PG course will help the department in bringing more PhD students.

Department of Chemistry



1.1 About the Department / Off-Campus

The Department of Chemistry was established in 1955 during the inception of the institute. We offer Undergraduate, Postgraduate & Ph.D. programmes in various domains of pure and applied chemistry. The department has witnessed continuous growth and development in terms of sponsored projects, publications, patents, advanced research facilities, national and international collaborations and many more. Our alumni have made us immensely proud through their achievements and are our brand ambassadors across the globe. The Department has received support under "Fund for Improvement in Science & Technology Infrastructure" (FIST-2012) programme of the Department of Science and Technology, New Delhi for NMR and Computational Chemistry facility.

- The department is engaged in pure chemistry, applied and interdisciplinary research in all branches of chemistry, specializing in emerging materials for various applications from biomaterials, environmental remediation, energy harvesting materials, composites, sensors, supercapacitors, drug discovery and molecular modeling, to theoretical chemistry and quantum chemistry research. Faculty members have research support through various funding agencies like SERB, ANRF, DST, ICMR. AICTE, UGC, DBT. The department has state of the art laboratories and excellent research facilities like NMR, HRMS, UV Vis Spectrophotometer, FTIR, Spectrofluorometer, solar simulator, GPC, gas chromatography, electrospinning and many others.
- The department has conducted various events like international (ISCB-2022, AMCS-24) and national conferences supported by various agencies, workshops through DST STUTI , AICTE VAANI, Academic lecture series jointly supported by all the three Indian academies, IASC, INSA and NASI. The department regularly organizes invited lectures, talks, outreach programs, training activities, student activities for a holistic growth and vibrant work environment.
- The department has recently initiated NEP based B.Sc and M.Sc program in Chemistry as per new education policy guidelines with multiple entry and exit options. This program is likely to create more employment opportunities than conventional degree courses.

1.2 Vision & Mission

- Vision: To become a recognized centre of excellence for teaching and research in Chemical Sciences by producing excellent academicians, professionals, entrepreneurs, and innovators.
- Mission: Inculcate fundamental concepts of Chemical Sciences through state-of-the-art laboratory, teaching, and research facilities. Building a scientific environment and motivation towards innovation with quality research in chemical sciences and allied areas.

1.3 Key Achievements

- Student Achievements:

Mr. M. Visuwesh has joined TIFR Mumbai after completion of 5 yrs Integrated MSc degree

Mr. Harish Gananathan has joined IIFT New Delhi after completion of 3 years of BSc degree

Mr. Saurav Chowdhury has joined The University of Melbourne for his PhD after completion of 5 yrs of Integrated MSc degree

- Faculty Achievement:

Dr Ashoke Sharon: NASI Member

Dr Sumit Mishra: Collaborative research cum consultancy project with 4 Post Doctoral fellows

Dr S Naskar: SERB ANRF project sanctioned (2024)

Dr P Kar: SERB ANRF project sanctioned (2024)

Dr Deep Shikha: 10 publication in SCI indexed journals

Dr Gautam Sen: Elsevier Book Published

Dr Barnali Dasgupta Ghosh: 2 patent, Highest IF publication in dept: 13.2, Awarded BIT FAA'24 for highest

Project sanctioned.

Dr Anirban Pradhan: Paper selected for cover page of RSC, Wiley journals, Industrial Consultancy with Ellitech India pvt. Ltd.

Dr Joydeep Dhar: Consultancy generated for Spectrofluorometer, Invited talk

Dr Debdutta Chakraborty: Book Published

- Overall Department Achievement: 1. DST FIST Phase II under FIST Program 2024 of 270.0 Lacs

  Activities: One International conference, 4 other events.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	NEP based B.Sc (Hons. with Research) and M.Sc (Research) in Chemistry	5 Yrs	30	Interdisciplinary program with exposure to pure & applied chemistry, research facilities at par with global standards. Creates employability at various academic, industry, research levels Multiple entry and exit options with various certifications in case of exit
2	M.Sc. in Chemistry	2 Yrs	20	
3	PhD in Chemistry			

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Smita Singh (PHD/AC/10051/21)	Microwave based synthesis of novel graft copolymers of [2-(methacryloxyethyl] trimethylammonium chloride (MAETMAC) and their applications	Dr. Gautam Sen	30-01-2025
2	Leena Priya (PHD/AC/10004/21)	Development of Poly (m-aminophenol) Silver Nanocomposite Based Sensors for Nitrogenous Contaminants in Aqueous Medium	Dr. Pradip Kar	06-05-2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Facility for Material Characterization with solid state NMR & BET analyzer	Head, Dept of Chemistry	DST FIST (TPN 108047)	Dec 2024	270 lacs	5 Yrs
2	Polyphenylenediamine/silver hybrid based non-enzymatic gutamate sensor	Dr. Pradip Kar (PI)	ANRF-SERB (CRG)	21.05.2024	2656016/-	3 years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Biocompatibility and mechanicalstudies of nanostructured HAP,metal doped nanostructured HAPon alumin a by RF Magnetron Sputtering Deposition	Dr. Deep Shikha (PI)	DST- SERB	28-02-2022	27,71,824	3.5 years
2	Electrospun PVDF based piezoelectric nanocomposite energy harvesters for self-powered smart wearable and implantable electronics	Dr. Barnali Dasgupta Ghosh (PI)	ANRF	14-02-2023	48,19,474	3 Years
3	Investigating the Effect of Molecular Doping in Halide Perovskites Based Energy Harvesting Devices	Dr. Joydeep Dhar (PI)	SRG-SERB	22-12-2023	30,09,160	2 Years
4	Development of Low cost Electrocatalysts for the Hydrogen production by Water Splitting	Subhendu Naskar (PI)	SERB (CRG/2023/001349)	16-03-2024	44,16,016	3 Yrs
5	Development of Low cost Electrocatalysts for the Hydrogen production by Water Splitting	S.S. Mahapatra (Co-PI)	SERB (CRG/2023/001349)	16-03-2024	44,16,016	3 Yrs
6	Metal organic frameworks and sequential electrocoagulation for remediation of mining effluents	Dr Sumit Mishra (PI)	ANRF(CRG/2021/007402)	2-03-2022	25,01,400	3 Yrs

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	Bottom-up solution phase synthesis of curved polycyclic aromatics, nanographene, carbon nanoribbons and nanobelts for next-generation optoelectronics	Dr. Anirban Pradhan (PI)	SERB-SRG project, (File Number: SRG/2022/000628)	26.09.2022	31,18,000	26.12.2024

2.	Photo-responsive tetra-aryl pyrazole based emissive organic nano-cage as an artificial-light harvester for heterogeneous photocatalysis"	Dr. Atul kumar (PI)	SERB-SRG	28-09-2022	31,76,000	28.12.2024

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1.	Collaborative research cum consultancy project: Synthesis and characterization of sustainable hydrogels, aerogels and Foams for advanced applications	MMU Haryana	2025-26	1,39,68,000	Dr Sumit Mishra Dr Ashoke Sharon	Ongoing

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	Mixed Research scholar cricket tournament	Dr Debdutta Chakraborty	Institute	July 2024	Offline
2	Chemistry Annual Day	Dr Sumit Mishra	Institute	August 2024	Offline
3	SSR activity of SERB Project: Career awareness workshop in Chemistry	Dr Barnali Dasgupta Ghosh	Institute	August 2024	Offline
4	International Conference on Advances in Materials and Chemical Sciences (AMCS-24)	Convenor: Dr. Sumit Mishra, Organizing Secretary: Dr. Barnali Dasgupta Ghosh and Dr. Pradip Kar	RSC, ACS, Various sponsors	Dec 18-20, 2024	Offline
5	"National science day (NSD-25)" "Empowering Indian Youth for Global Leadership in Science and Innovation for Viksit Bharat @ 2047"	Organizing Secretary Dr. Anirban Pradhan	IIC BIT Mesra	28th February 2025	Offline

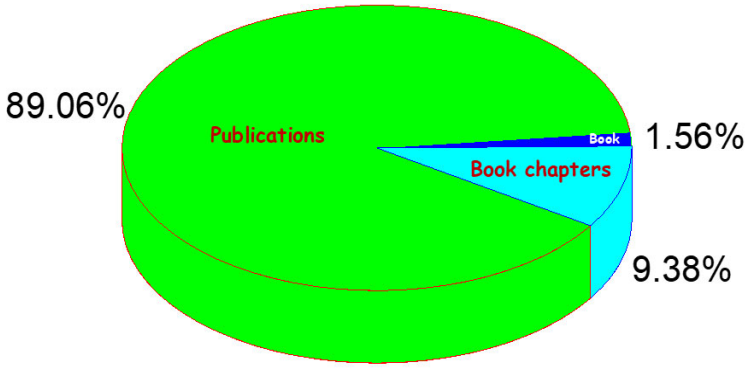
3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Anirban Pradhan	International Conference on Energy, Materials, and Information Technology (ICEMIT-24)	Amity University Jharkhand.	SERB-ANRF	Amity University Jharkhand.	19th to 20th December 2024
2	Dr. Anirban Pradhan	30th ISCB International Conference (ISCBC-2025)	ISCB, University of Lucknow India	ISCB	University of Lucknow India	27th to 29th January 2025.
3	Dr. Joydeep Dhar	3rd International Conference on Energy Functional Materials/Molecules & Nanotechnology (ICEFN2025)	Kumaun University, Nainital	SERB-SRG	Kumaun University, Nainital	20-22 March 2025
4	Dr. S.S. Mahapatra	NEP-2020 Orientation & Sensitization Programmes	IIT (ISM), Dhanbad	UGC	IIT (ISM), Dhanbad	23-06-2025 to 05-7-2025
5	Subhendu Naskar	As Resource Person: Training Programme on Chemical Science: Molecules to Materials	Assam University, Silchar Under the aegis of MMTTC		Assam University, Silchar	09 – 14 September 2024
6	Dr Sumit Mishra	As Resource Person: Training Programme on Chemical Science: Molecules to Materials	Assam University, Silchar Under the aegis of MMTTC		Assam University, Silchar	09 – 14 September 2024
7	Dr Sumit Mishra	As Resource Person: Talk on World Water Day 2025	LNM University, Bihar		LNM University, Bihar	22.3.25
8	Dr Sumit Mishra	As Resource Person: 5 day FDP on Emerging technologies & applications of AI in science & humanities	RTC institute of Technology		RTC institute of Technology	23.6.25-27-6.25

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	57	-	1	6



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr Ashoke Sharon	NASI member	The National Academy of sciences in India	National	2024

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	B. Dasgupta Ghosh, S.Roy, A. Mu kherjee	A Metal and Plant -Based Pigment Containing Polymer Composite for Industrial applications and Method	Application no. 202431100934 PAT199/105/24	2024	Published	
2	S.Roy, B. Dasgupta Ghosh	Eco-Smart Coating: Transforming Eggshell Biowaste into Durable and Long-Lasting Waterproof Coatings	Application no. 202531071643 IP1762	2025	Applied	
3	J. K. Maity, R. Hore, A. Pradhan, T. Halder, S. Mukherjee,	Sauropunol Compounds and Method of Preparing the Same	Patent no. 547547,	2024	Patent Granted Date of grant: 12.08.24.	The drug molecule is obtained from the plant Sauropus genus, found in China. Due to this, the prices of medicines prepared from it are high. To overcome this deficiency, a similar drug molecule has been prepared in the lab.

4	Sumit Mishra, Munmun Choudhary, Asmita De, Srinath Das	A biopolymer based metal organic framework composite and method of fabrication thereof.	Application No. 202431053454	2024	Published Publication date: 20.09.2024	Biopolymer based aerogel

SECTION 6 — Faculty Members

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr S. Mishra	Professor & Head	Biomaterials and Material Research, Metal organic frameworks, Water remediation, Nutrient and drug release, adhesives, Engineering materials	PhD	18-08-2004
2	Dr. A. Sharon	Professor	Organic / Medicinal Chemistry Computational Chemistry, Drug Design & Molecular Modeling	PhD	15-01-2009
3	Dr. S. Naskar	Professor	Photosynthetic Water Oxidation, Hydrogen Evolution, CO2 Reduction Reaction; Photoelectrochemical Solar Cell	PhD	08-10-2009
4	Dr. P. Kar	Associate Professor	Functional conjugated polymer,Functional nanomaterials and its nanocomposites, Bio & chemical sensor	PhD	08-01-2009
5	Dr. Deepshikha	Associate Professor	Surface modification, characterization and applications of materials for its use as biomaterial	PhD	08-01-2008
6	Dr. J. Dhar	Assistant Professor	Energy Material, Electronic Devices, Nanomaterial	PhD	25-08-2021
7	Dr. B. D. Ghosh	Assistant Professor	Synthesis of Nanoparticles, Synthesis of Polymer and Nanocomposites for Different Advanced Application, Energy Harvesting Materials	PhD	01-11-2012
8	Dr. S. S. Mahapatra	Assistant Professor	Direct Alcohol Fuel Cells, Electrochemical Supercapacitors, Electrochemical treatment of water, Microbial Fuel Cell	PhD	18-08-2009
9	Dr. A. Pradhan	Assistant Professor	Organic Synthesis, Polycyclic aromatic hydrocarbons (PAHs) synthesis, Porous carbon material (COFs, MOFs, CMPs, COPs, HOFs etc.) synthesis, Material Science, Electrochemistry, Optoelectronic applications	PhD	23.09.2021
10	Dr. G. Sen	Assistant Professor	Synthesis and characterization of graft copolymers, biopolymers, matrix for controlled drug release, flocculation, analytical chemistry	PhD	08-01-2009

11	Dr. A. Kumar	Assistant Professor	Supramolecular chemistry	PhD	06-09-2021
12	Dr. D. Chakraborty	Assistant Professor	Computational Quantum Chemistry, Chemical Reaction Dynamics, Quantum Trajectories	PhD	10-01-2021

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Prof Pratim Kumar Chattaraj	Distinguished Visiting Professor	Regular

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HOD	Head of the Department (Ex-Officio)	Chairperson
2.	Dr. Ashoke Sharon	Professor, Dept. of Chemistry	Member
3	Dr. Subhendu Naskar	Professor, Dept. of Chemistry	Member
4	Dr. P. Kar	Associate Professor, Dept. of Chemistry	Member
5	Dr. Deepshikha	Associate Professor, Dept. of Chemistry	Member
6	Dr B D Ghosh	Assistant Professor, Dept. of Chemistry	Member
7	Dr Atul Kumar	Assistant Professor, Dept. of Chemistry	Member
8	Dr. S S Solanki	Professor, Dept. of Electronics and Comm Engg	Member
9	Dr. Animesh Ghosh	Professor, Dept. of Pharm Sc & Tech	Member
10	Dr Abhishek Dey	Professor, Indian Association for the Cultivation of Science (IACS), Kolkata	External Member
11	Dr Swagata Dasgupta	Professor, Indian Institute of Technology, Kharagpur	External Member
12	Dr. Rakeshwar Bandichhor	Vice- President & Head of Chemistry, Dr. Reddy's Laboratories Ltd. Hyderabad	External Member
13	Dr Vinod Kumar Tiwari	Professor, Dept of Chemistry, Banaras Hindu University	External Member

SECTION 7	STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Inter-departmental Cricket Tournament	Mr. Vishal Singh	Dr. Debdutta Chakraborty	30-07-2024

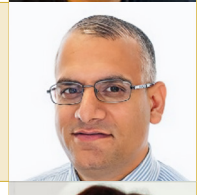
7.2 Student Achievements

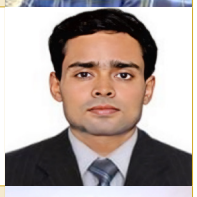
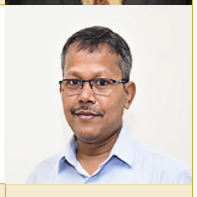
Sr. No.	Name	Achievement	Organizer	Date	Venue
1.	Ms. Shreya	Gold Medal in High Jump	Udghosh24 at IIT Kanpur	04-10-2024 to 06-10-2024	IIT Kanpur
2	Ms. Anindita Mukherjee	Best oral award in RESCOL-IV	BIT Mesra	17-07-2024	BIT Mesra

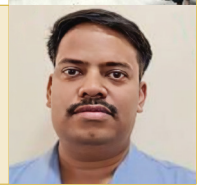
3.	Ms. Sadhana Kundu	Best poster award in RESCOL-IV	BIT Mesra	17-07-2024	BIT Mesra
4.	Mr. Vishal Singh	Best poster presentation award at AMCS-24	Department of Chemistry, BIT Mersa	20-12-2024	BIT Mesra
5.	Mr. Mukul Deo	Best poster presentation award at AMCS-24	Department of Chemistry, BIT Mersa	20-12-2024	BIT Mesra
		Young Scientist Award by in International Conference on "EMERGING TRENDS IN CHEMICAL SCIENCES TOWARDS SUSTAINABILITY & INTERDISCIPLINARITY (ETCSTSI-2025)"	The Royal Society of Chemistry and Bhawanipur Education Society, Kolkata.	10th and 11th January 2025.	Bhawanipur Education Society, Kolkata

SECTION 8 OUTREACH ACTIVITIES

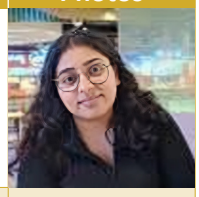
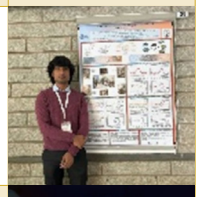
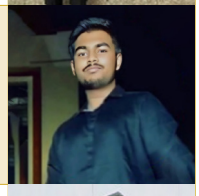
8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof Susanta Banerjee	(HAG) & Institute Chair Professor Chairperson Central Research Facility (MSD) Materials Science Centre, IIT Kharagpur.	AMCS-24 Department of Chemistry, BIT Mesra	18-12-2024	
2	Prof Vijay Thakur	SRUC UK	AMCS-24 Department of Chemistry, BIT Mesra	20-12-2024	
3	Prof Prasanth Raghavan	Cochin University of Science & Technology	AMCS-24 Department of Chemistry, BIT Mesra	20-12-2024	
4	Prof Sagar Pal	Professor, Department of Chemistry IIT ISM Dhanbad	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	
5	Prof Seema Agarwal	University of Bayreuth	AMCS-24 Department of Chemistry, BIT Mesra	18-12-2024	
6	Dr Sunanda Roy	Mechanical Engineering, Alliance University, Bangalore	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	

7	Dr Pradeep Maji	Professor, Polymer and Process Engineering, IIT Roorkee	AMCS-24 Department of Chemistry, BIT Mesra	20-12-2024	
8	Dr Prabhat Kumar Jaiswal	Department of Physics IIT Jodhpur	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	
9	Dr Sanjeev Banerjee	Associate Professor Dept. of Chemistry IIT Bhilai	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	
10	Dr Trilochan Mishra	CSIR NML Jamshedpur	AMCS-24 Department of Chemistry, BIT Mesra	18-12-2024	
11	Dr Samrendra Majhi	SRM Institute of Science and Technology	AMCS-24 Department of Chemistry, BIT Mesra	20-12-2024	
12	Dr Biswajit Paul		External Thesis Evaluator at	30-01-2024	
13	Dr Vinod Kumar Tiwari	Assistant Professor, Department of Pharmaceutical Engineering & Technology at the Indian Institute of Technology (BHU), Varanasi, India	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	
14	Dr Debasish Panda	Professor, C. V. Raman Global University, Bhubaneshwar	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	
15	Dr Devdutta Chaturvedi	Professor and Dean at Mahatma Gandhi Central University	AMCS-24 Department of Chemistry, BIT Mesra	19-12-2024	

People from Industry					
1	Dr Ashok Jha				
2	Dr Ganesh Basak	Hindalco Industries Limited	AMCS-24 Department of Chemistry, BIT Mesra	20-12-2024	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Prachi Priya	IISc Bangalore	Integrated PhD	
2	Visuwesh M	TIFR Mumbai	Project Student	
3	Srinath Das	NCL Pune	PhD	
4	Harish Gananathan	IIFT New Delhi	MBA	
5	Shubhodeep Saha	IISER Tiruvananthapuram	MSc	
6	Dr Smita Singh	Gossner College Ranchi	Assistant Professor	
7	Dr Anuradha Mohanty	Amity University Ranchi	Assistant Professor	

8	Dr Shalini Divya	Tasmanion, New Zealand	Entrepreneur, Newzealand	
9	Dr Nandkishore Thombare	ICAR Ranchi	Senior Scientist	
10	Dr Kartick Prasad Dey	Usha Martin Univerity, Ranchi	Assistant Professor	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Eliteck India Pvt. Ltd. & Eliteck Hydrogen Resource Pvt. Ltd.	Commercial development of nanocarbon (PGNRs/CNRs)-Pt based electrocalyst for PEM fuel cells and electrolyzers	2025-2030
2.	Maharishi Markandeshwar University, Haryana	Collaborative research & consultancy Project	2025-2026

SECTION 9		INFRASTRUCTURE DEVELOPMENT

8.1 New Facilities Upgradation

1. DST FIST grant sanctioned which includes upgradation of existing NMR facility, procurement of BET surface area analyzer.
2. High resolution mass spectrophotometer
3. Advanced Polymer Chromatography/ Gel permeation Chromatography for determination of molecular weight
4. Gas Chromatography

8.2 IT Upgrades

Computational lab facilities with 15 seated high end computer systems is available in the department with periodic updates.

SECTION 10		FUTURE PLANS (2025-26)

- Upcoming courses: PG diploma in instrumentation certification for facilities like Spectrofluorometer, HRMS and Separation sciences and Chromatography including Flash chromatography, GPC, Gas Chromatography
- Research goals:
- Taking research projects above TRL level 5 to pilot scale and industrial level production.

Academic Industry collaboration for consultancy, research & industry- oriented training

Infrastructure proposals in a brief paragraph:

The Department has UG, PG, research laboratories and two state of the art instrumentation labs, “Sophisticated Instrument Lab” which houses Spectroscopic, Chromatography, Electrochemical, Material synthesis & electrospinning facility for various soft and hard materials.

The department envisions to strengthen its analytical facility base by addition of DST FIST sponsored upgraded NMR facility, BET surface area analyzer and addition of UG teaching laboratory.

Department of Civil and Environmental Engineering

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department

- The department was established in the year 1957. The department runs a full-time B. Tech four-year course in Civil Engineering. The master's courses are M. Tech in Civil Engineering with specialisation in Structure Engineering, Soil Mechanics, Water Resources, Environmental Engineering, and Transportation Engineering. The department also runs a Master's in Environmental Management and has recently started Environmental Science and Technology for B. Sc /B.Tech. passed students.

1.2 Vision & Mission

Vision

To develop quality intellectuals through education, research and motivation so that they can bring a positive contribution to the society in area of Civil and Environmental Engineering

Mission

- To develop professional skills through quality education and research
- To outreach various sectors of society through interdisciplinary programmes and practical oriented approach.
- To create dynamic, logical and effective leaders with inspiring mindsets

1.3 Key Achievements

- **Student Achievements:**

Eighteen (18) students opted for an internship with different companies, namely KBP Mining Private Limited, Teachnook, Acmegrade Pvt Ltd, DIONY Construction Private Limited, SLNKO Energy Private Limited, Sigmoid, Axxela, Bain Capability Network, and Vetty, with a stipend of Rs. 13,000 to 40,000 (maximum students got Rs. 20,000/ per month of stipend). Avinash Kapoor (BTECH/10784/21) was absorbed in Axxela (PPO) with a package of Rs. 1,400,000/- per annum, and Avinash Kumar Pandey (BTECH/10449/21) in Bain Capability Network (PPO) with a package of Rs. 1,400,000/- per annum.

• Faculty Achievement:

- Dr. Sukalyan Chakraborty has been selected for the prestigious NASI-Membership 2024.
- Dr. Tanushree Bhattacharya received the Indian National Science Academy, GOI, Associate Fellow, 2024, Young Scientist Award, in 9th International Congress and Exhibition on Arsenic in the Environment, 20-24th October, 2024 organised by Kalinga Institute of International Technology, International Society of Groundwater for Sustainable Development, and KTH Royal Institute of Technology, Stockholm, Sweden, and Award for highest number of research papers, Birla Institute of Technology, 2024.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Tech in Civil Engineering	4	75	Structure and concrete technology Soil foundation engineering Water resource engineering Transportation engineering Environmental engineering
2	MTech. in Civil Engineering	2	18	With specialisation in Structure Engineering, Soil Mechanics and Foundation Engineering, Water Resource Engineering, Transportation Engineering, and Environmental Engineering
3	M.Sc. in Environmental Science	2	12	Air pollution, water pollution, solid waste management, climate change, ecosystem restoration, EIA and laws

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Pradyut Anand, PHD/CEE/10002/2021	Integration of Recycled Materials and Enhancement of Durability in Aerated Concrete Blocks Using Construction and Demolition Waste and Mixed Waste Materials	Guide – Prof. Anand Kr. Sinha Co-Guide – Dr. Puja Rajhans	16.10.2024
2	Ms Soumya Pandey	Soil and water quality management using Biochar in and around the Jumar River watershed in Ranchi district of Jharkhand	Dr. Neeta Kumari	13/12/24
3	Abisheg D	Estimation of Fine Particulate Matter And Aerosol Acidity At Ranchi, India	Dr. R Naresh Kumar (guide) / Dr. Jawed Iqbal (Co-guide)	June 2024

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Designing of drinking water system for the removal of groundwater fluoride using biochar derived from agro industrial waste	PI: Dr. Neeta Kumari Co-PI : Dr. Shubha Rani Sharma	Jharkhand Council for Science Technology and Innovation (JCSTI)	29/05/25	3,00,000 Lakh	2025-27
2	Development of Mix Design Method for producing Sustainable Geopolymer Concrete Prepared with Waste Materials Employing EMV Method	Dr. Puja Rajhans/Dr. Ashish Kumar Patnaik	Jharkhand Council for Science Technology and Innovation (JCSTI)	29/05/2025	3,20,000/-	2 Years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Performance Evaluation of the Roads Constructed using TerraZyme in the State of Jharkhand under PMGSY	PI – Prof. Bindhu Lal Co-PIs – Prof. Anand Kr. Sinha and Dr. Mani Mohan	NRIDA, Ministry of Rural Development, Government of India	01.09.2023	Rs. 23.54 lakhs	22 Months
2	Performance Evaluation of the Roads Constructed using Steel Slag in the State of Jharkhand under PMGSY	PI – Prof. Bindhu Lal Co-PIs – Prof. Anand Kr. Sinha and Dr. Mani Mohan	NRIDA, Ministry of Rural Development, Government of India	01.09.2023	Rs. 23.54 lakhs	22 Months
3	Source apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro-Plastics in Drinking Water supplying Reservoirs of Ranchi, Jharkhand	PI- Dr. Sukalyan Chakraborty Co-PI – Dr. Mili Ghosh and Dr. Madhu Priya	ANRF	10.5.2022	Rs. 38,10240/-	3 years + 3 months extension
4	National Carbonaceous Aerosol Programme (NCAP) Working Group III- Modeling Carbonaceous Aerosol Source Influence and Atmospheric Effects	Dr. R Naresh Kumar (PI) / Dr. Jawed Iqbal (Co-PI)	MoEFCC	30/03/2016	RS:159.54 Lacs	2016-25
5	Assessing The Abiotic and Biotic Factors in The Pit Lakes For Sustainable Management of Water and Environment – Implementing Agencies: BIT Mesra, CMPDI Ranchi, CCL Ranchi, MCL Sambalpur	Dr. R Naresh Kumar (PI) / Dr. Jawed Iqbal (Co-PI)	MoC	06/07/2023	RS: 208.58 Lacs	2023-25

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	Prediction of Particulate Matter and Gaseous Pollutant Concentration Through ANN, PNN And CART Models and Comparison with CALPUFF and AERMOD In Singrauli Coal Mines	PI: Dr. Tanushree Bhattacharya	Coal India Ltd.	05/02/2021	85.25 Lakhs (2021-2024)	2024

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	Management of Waste Dump with Power Plant Ash together for optimum ash volume utilisation in OB and Backfilling in the mine pit of Ghogha Surkha Lignite Mine, Bhavnagar	P C Mahakaxmi	April, 2024 to December, 2024	5.9 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	completed
2	Slope Stability Study of Junad OCM	WCL	April to September, 2024	5.19	PI – Indrajit Roy CO-PI – Dr. Mani Mohan	completed
3	Slope Stability Study of Reclaimed Land of Rajmahal OCM	ECL	January to March, 2025	9.14 lakhs	PI – Indrajit Roy CO-PI – Dr. Mani Mohan	completed
4	Slope Stability of Pahari Mandir	Jharkhand Govt	May to November, 2025	12.4 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	Ongoing
5	Hill Slope for Crusher house installations	S K Samanta ltd	June to August	10.21 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	On going

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	2 days workshop 'Microplastics in the Environment"	Dr. Sukalyan Chakraborty	ANRF, Thermofisher, BIT, Mesra	23.08.2024 & 24.08.2024	Offline
2	Biodiversity: Preserving Nature For A Sustainable Future	Dr. Sukalyan Chakraborty	Jharkhand Biodiversity Board	25.04.2025	Offline
3	Clean Water, Clear Future: Training on Water Quality Analysis	Dr. Sukalyan Chakraborty	ANRF	30.04.2025	Offline

3.2 Events Attended by Faculty

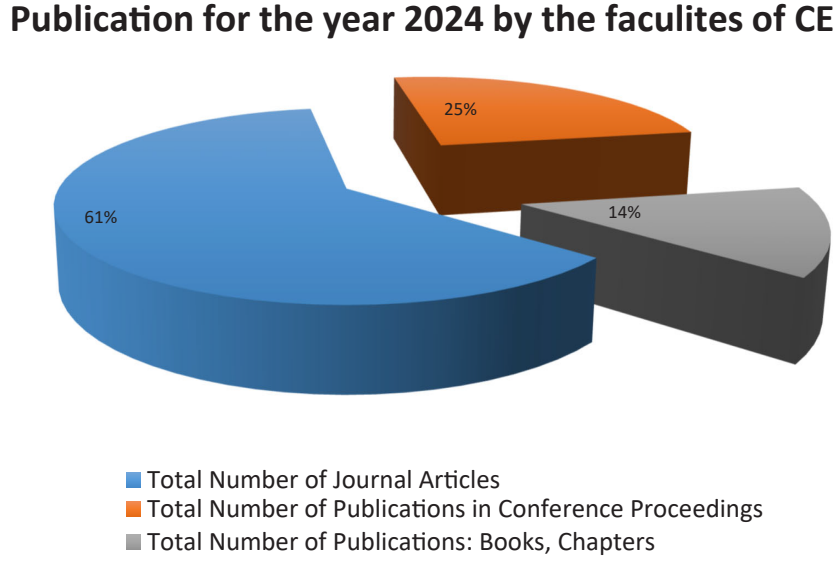
Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Sukalyan Chakraborty	Invited lecture: Land restoration, desertification and drought resilience	University of Kalyani	ENVIS	Online	27th May, 2024
2	Dr. Sukalyan Chakraborty	Invited Lecture in Strategy Workshop on "Microplastics Pollution: Strategies for Remediation in Sustainable Environmental Management"	National Academy of Agricultural Sciences, Delhi	NAAS	Online	23rd November 2024
3	Dr. Sukalyan Chakraborty	Invited talk in the National Seminar on Clean Environment Envisioned towards Viksit Bharat on at	Central University of Jharkhand (CUJ).	CUJ	CUJ	11-12th March 2025
4	Dr. Sukalyan Chakraborty	Participated in the "National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions"	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	IAE	Online	6th March, 2025
5.	Dr. Siddhartha Sengupta	Workshop entitled "Microplastics in the Environment"	BIT Mesra	Govt. of India	BIT Mesra	23/08/2024 – 24/08/2024
6.	Dr. Siddhartha Sengupta	Seminar entitled "Aerospace Technologies in Defence Sector – An Overview"	BIT Mesra	Govt. of India	BIT Mesra	28/11/2024
7.	Dr. Siddhartha Sengupta	One Day Faculty Development Workshop on "Know Yourself as a Teacher (KYaaT)"	BIT Mesra	BIT Mesra	BIT Mesra	23/04/2025
8.	Dr. Siddhartha Sengupta	One Day Workshop on "Biodiversity: Preserving Nature for a Sustainable Future"	BIT Mesra	Jharkhand Biodiversity Board	BIT Mesra	25/04/2025
9.	Dr. Siddhartha Sengupta	Workshop on "Clean water, Clean future: Training on Water Quality Analysis"	BIT Mesra	Govt. of India	BIT Mesra	30/04/2025
10.	Dr. Siddhartha Sengupta	Short Term Training Programme on Professional Values Ethics	NITTTR Kolkata	Govt. of India	NITTTR Kolkata (Online)	19/05/2025 - 23/05/2025
11.	Dr. Siddhartha Sengupta	Five-Day Online FDP on "From Waste to Wonder: Transforming Industrial Byproducts into Next-Gen Construction Material"	RTC Institute of Technology	RTC Institute of Technology	RTC Institute of Technology (Online)	02/06/2025 – 06/06/2025

12	Dr. Neeta Kumari	Participated in "International Conference on Innovation in Civil, Structural and Environmental Engineering" delivered An invited talk on "Groundwater quality management in coal mining areas of Jharkhand"	Civil Engineering society for Structural and Environmental Engineering, Optimum research meetings 2024, Rome, Italy	CIVILENG24	Online	23/10/2024-25/10/2024
13	Dr. Neeta Kumari	An invited talk in International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN) Mahatma Gandhi University, Kerala on "Groundwater fluoride management using waste materials	Mahatma Gandhi University, Kerala	MGU	Online	06/07/2024-07/07/2024
14	Dr. Neeta Kumari	Attended MMTTC NEP training from IIT-ISM Dhanbad	IIT-ISM Dhanbad	IIT-ISM Dhanbad	Online	21/10/2024-02/11/2024
15	Dr. Ashish Kumar Patnaik	INAE CEEE Program	INAE & IIT Kharagpur	INAE & Infosys	IIT Kharagpur	30.06.2025 to 11.07.2025
16	Dr. Puja Rajhans	CEEE Programme	IIT Delhi	INAE/ Infosys	IIT Delhi Campus, New Delhi	24.06.2025 to 04.07.2025
17	Dr. Tanushree Bhattacharya	9th International Congress and Exhibition on Arsenic in the Environment	Kalinga Institute of International Technology, International Society of Groundwater for Sustainable Development, and KTH Royal Institute of Technology, Stockholm, Sweden	International Society of Groundwater for Sustainable Development	Bhubaneshwar	20.10.2024-24.10.2024
18	Dr. Tanushree Bhattacharya	5th International Conference on Waste Management-RECYCLE 2025	IIT Guwahati	IIT Guwahati	Guwahati	05.06.2025-06.06.2025
19	Dr. Tanushree Bhattacharya	National Seminar on Clean Environment Envisioned towards Viksit Bharat India. Topic: Biochar for Arsenic Remediation: A Sustainable Approach to Soil Recovery and Circular Economy Promotion.	Central University of Jharkhand	Central University of Jharkhand	Jharkhand	11-12th March, 2025
20		Invited talk and session chair in The 2nd International Conference on Biochar Research and Application & The 7th Asia Pacific Biochar Conference"	Shenyang agricultural University	Biochar Journal	Shenyang, China	September 20th to 22nd, 2024
21	Dr Jawed Iqbal	Guest Lecture on World Environment Day 2025 on "Combating Plastic Pollution"	CSIR-CIMFR, Barwa Road, Dhanbad	CSIR-CIMFR,	CSIR-CIMFR, Barwa Road, Dhanbad	05/06/2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

Sl. No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	40	16	0	9



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

AWARD / PATENT / COLLABORATIONS	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Sukalyan Chakraborty	Member of the National Academy of Sciences, India	NASI	National	2024
2	Dr. Tanushree Bhattacharya	Young Scientist Award	9th International Congress and Exhibition on Arsenic in the Environment, 20-24th October, 2024, organised by Kalinga Institute of International Technology, International Society of Groundwater for Sustainable Development, and KTH Royal Institute of Technology, Stockholm, Sweden.	International	2024
3	Dr. Tanushree Bhattacharya	Associate Fellow	Indian National Science Academy	National	2024
4	Dr. Tanushree Bhattacharya	Highest number of research papers award	Birla Institute of Technology	National	2024

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. Anand Kumar Sinha	Professor	Water Resources Engineering	Ph.D.	01.11.1990
2	Dr. Bindhu Lal	Professor	Soil Mechanics	PhD	
3	Dr. Rajeev Ranjan Sahay	Professor	Water Resources Engineering	PhD	
4	Dr. Birendra Kr. Singh	Professor	Water Resources Engineering/ Structural Engineering	PhD	
5	Dr. Siddhartha Sengupta	Associate Professor	Geotechnical Engineering	Ph.D.	10/01/2004
6	Dr. Kirti Avishek	Associate Professor	Environmental Science	PhD	2005
7	Dr. R Naresh Kumar	Associate Professor	Environmental Science	PhD	2012
8	Dr. Sukalyan Chakraborty	Associate Professor	Environmental Science	PhD	16.07.2012
9	Dr. Tanushree Bhattacharya	Associate Professor	Environmental Science	PhD	2012
10	Dr. Mani Mohan	Assistant Professor	Structure and concrete	PhD	2015
11	Dr. Jawed Iqbal	Assistant Professor	Environmental Science	PhD	30.04.2008
12	Dr. Neeta Kumari	Assistant Professor	Water Quality Management and Modeling	PhD	12.07.2008
13	Dr. Ashish Kr. Patnaik	Assistant Professor	Transportation	PhD	2020
14	Dr. Puja RajHans	Assistant Professor	Structure and concrete	PhD	2020
15	Dr. Saptarshi K Lahari	Assistant Professor	Structure and concrete	PhD	2024

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Dr. Pulak Kumar Munshi	Professor of Practice	Regular
2	Dr. Somnath Ghosh	Visiting Professor & Dean of Infra. Struc. & Planning	Jadavpur University

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Prof. Bindhu Lal	HOD (Ex-Officio)	Chairman
2.	Prof. Anand Kr. Sinha	Professor	Internal Member
3.	Prof. Rajeev Ranjan Sahay	Professor	Internal Member
4.	Prof. Sudeshna Chakravarty	Professor	Internal Member
5.	Prof. Birendra Kr. Singh	Professor	Internal Member
6.	Dr. Sukalyan Chakraborty	Associate Professor	Internal Member
7.	Dr. Ashish Kr. Patnaik	Assistant Professor	Internal Member
8.	Prof. Manjari Chakraborty	Professor (Architecture and Planning)	Internal Member
9.	Prof. Rabindra Prasad Sharma	Professor (Mechanical Engineering)	Internal Member
10.	Prof. S. K. Maity	Professor (ESE), IIT (ISM), Dhanbad	External Member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Departmental NAAC Coordinator		Departmental NAAC Coordinator	2020-2025

SECTION 8		OUTREACH ACTIVITIES

8.1 New Facilities Upgradation

- DST-FIST sponsored MicroFTIR in the Advanced Instruments Laboratory
- Procured Digital Triaxial Testing Machine for Soil
- Dr. R. Naresh Kumar & Dr. Jawed Iqbal. An advanced research setup has been created for monitoring and assessment of deep aquatic systems (maximum depth 100 m). This is a one-of-a-kind setup available only with a few organisations in India. The setup created is part of a Ministry of Coal funded sponsored research project.
- Dr. R. Naresh Kumar & Dr. Jawed Iqbal. An advanced facility for air quality monitoring (both gaseous and particulate matter in ambient air) has been established. This is available only with select organisations in India. The facility created is part of a Ministry of Environment, Forest and Climate Change funded sponsored research project.

SECTION 9		FUTURE PLANS (2025-26)

- (Upcoming courses, research goals, infrastructure proposals in a brief paragraph)
- Research on Biopolymer Reinforced Municipal Solid Wastes
- One day workshop on concrete technology

Department of Computer Science & Engineering

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department / Off-Campus

- The Department of Computer Science & Engineering was established in the year 1983 and is now recognized as one of the leading departments with infrastructure and facilities to match the very best in the country. The department remains committed towards its mission, which is twofold. One is to provide students with the fundamental knowledge and problem solving skills in Computer Science required for a fulfilling career. The other goal is to create and disseminate knowledge to improve Computer Science research, education and practice.The department has had academic collaborations with University of New Brunswick, Canada, University of Melbourne, Australia and University of Manitoba, Canada.

1.2 Vision & Mission

- Vision: The department strives to be recognized for outstanding education and research, leading to excellent professionals and innovators in the field of Computer Science and Engineering, who can positively contribute to the society.
- Mission:
  - To impart quality education and equip the students with strong foundation that could make them capable of handling challenges of the new century.
  - To maintain state of the art research facilities and facilitate interaction with world's leading universities, industries and research organization for constant improvement in the quality of education and research.

1.3 Key Achievements

- Student Achievements:

  Placement: Highest package: 14450000 by Rubrik India. Nidumol Lakshmi Narayan Rao

- Faculty Achievement:

  Dr. A. Nigam has received a funding of over Rs. 70 Lacs from ICMR for her research on Malarial diseases.

- Overall Department Achievement:

The department continues to be at the forefront of innovation in teaching and learning with the launch of a new post graduate course i.e. M. Tech in AI & ML.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity
1	BTech CSE	4 Years	180
2	BTech AIML	4 Years	60
3	MTech CSE	2 Years	30
4	MTech AIML	2 Years	30
5	MCA	3 Years	160

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Ms. Komal Naaz (PHD/CS/10008/2021)	A Computational Approach towards Analysis and Classification of Hindi Poetry	Dr. Niraj Kumar Singh	01-07-2024
2	Mr. Ravi Prakash (PHD/CS/10053/2018)	Metaheuristic Approaches for Solving Green Vehicle Routing Applications	Dr. Shashank Pushkar	09- 08-2024
3	Mrs. Vanita Verma (PHD/CS/10002/2018)	Optimal Path Selection, Secure Data Transmission and Efficient Attack Detection Through a Variety of Wireless ADHOC Networks Approaches	Dr. V. K. Jha	02- 09-2024
4	Mrs. Chandana Kumari (PHD/CS/10059/2017)	Development of Efficient Metaheuristic Algorithms for Image Segmentation	Dr. Abhijit Mustafi	11-09-2024
5	Ms. Kahkashan Kouser (PHD/CS/10052/2014)	Study of Genetic Algorithm and its Application in Data Mining	Dr. Amrita Priyam	22-10-2024
6	Mr. Devesh Kumar Upadhyay (PHD/CS/10052/2017)	Early Prediction of Mental Illness Using Machine Learning Algorithms	Dr. Niraj Kumar Singh(Guide) Dr. Subrajeet Mohapatra (Co-Guide)	11-11-2024
7	Bhosale Tejaswini Ankush PhD/CS/10001/2018)	Tourist Recommendation System for Destination Classification Using Deep Learning Techniques	Dr. Shashank Pushkar	07-02-2025
8	Adla Sanober (PHD/CS/10001/2019)	Blockchain Enabled Electronic Health Record Management for Privacy Preservation	Dr. S.Anwar	25-04-2025
9	Vandana Singh (PhD/CS/10008/2020)	Road Traffic Signal Control Using AI Techniques	Dr. Sudeep Sahana and Dr.V. Bhattachrjee	28- 05-2025
10	Mr. Saleem Sanatan Kujur (PHD/CS/10069/2017)	Accelerating P Systems using GPU's	Dr. Sudeep Sahana	30-05-2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Digital Twin-based Process Monitoring System for Laser Directed Energy deposition process	Dr Akriti Nigam	International Science Partnerships Fund (ISPF), Department of the Economy, Northern Ireland	Aug 2024 - Mar 2025	44.75 Lakhs	8 Months
2	Development of a Robust Machine Learning Tool to Support Quick Malaria Detection and Parasite Stage Identification for Reducing Malaria Burden	Dr Akriti Nigam	ICMR	Feb 2025 - Jan 2028	72.61 Lakhs	3 years

3	Non-invasive Method for Detection and Analysis of Anemia in Pregnant Women using Deep learning based Model: a Multidisciplinary Multicenteric Study	CoPI- Dr Vandana Bhattacharya	ICMR	Mar 2025 - Feb 2028	27.49	3 years
4	Combining the Cyber Mirage: Advanced Research in Misinformation, Deepfakes and AI Generated Fakes	CoPI- Dr Prashant Pranav	Cyber Peace Foundation	Nov 2025	35.4	1 year

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	360 Degree Health Monitoring of Miners and Mining Community of CCL.	PI: Dr. Sudip Kumar Sahana Co-PIs: Prof. (Dr.) A. Mustafi, Dr. D. Mustafi, Dr. S. Mohapatra	CCL	06.02.2023 To 05.02.2026	30.1 Lakhs	3 years
2	Multi-Source Optimization using Deep Learning framework for Downscaling Satellite-Derived Thermal Data	PI: Dr. Indrajit Mukherjee Co-PI: Dr. S. Pushkar	DST-SERB	24.02.2023 To 31.03.2026	19 Lakhs	3 years
3	Visually Evoked EEG Classification and Perceived Image Regeneration using Deep Learning for Brain Fingerprinting	PI: Dr. Shamama Anwar	SUPRA-SERB	April 2023 To May 2026	24 lakhs	3 years
4	Mitigation of Electromagnetic Interference and electromagnetic compatibility issues in wearable IoT devices	PI: Dr. Itu Snigdh	SERB-POWER	September 2022 To August 2025	23.2 Lakhs	3 years
5	Center for Advanced Research on Machine Learning for Geospatial Analytics and Solutions for the State of Jharkhand (ARMLEGS)	PI: Prof. (Dr.) Abhijit Mustafi Co-Pis: Dr. S. Dutta Dr. S.K. Sahana Dr. S. Anwar, Dr. D. Mustafi Dr. A.P. Krishna Dr. C. Jeganathan, Dr. M. Ghosh Lala	DST-PURSE	February 2023 To February 2027	8.5 crore	4 years
6	Explanable-AI for Hypoxic Ischemic encephalopathy detection using ultrasound images in Jharkhand Neonates: A Deep Learning Approach	PI: Dr. K. Sridhar Patnaik Co-PIs: Dr. Itu Snigdh Dr. Rajeeva Mishra (RIMS), Rajeev Ranjan (RIMS), Dr. Rajesh Rao (ICMR-INMR)	ICMR	January 2024 To December 2025	40 Lakhs	2 years
7	Development of a robust Machine Learning tool to support quick Malaria detection and parasite stage identification for reducing Malaria burden	PI: Dr. Akriti Nigam Co-PI: Manish Pandey	ICMR	February 2025 To January 2028	1.5 crore	3 years

8	Non-invasive method for detection and analysis for anemia in pregnant women using deep learning-based: A Multidisciplinary and Multicentric study	PI: Dr. P.S. Bishnu Co-PI: Prof. (Dr.) Vandana Bhattacharya	ICMR	March 2025 To February 2028	27.5 Lakhs	3 years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Improving Health Services of Rural Area in Indian Healthcare System through Machine Learning Approaches	PI: Dr. B.K. Sarkar Co-PI: Dr. Sudip Kumar Sahana	NM-ICPS, IDEA: Technology Inovation Hub @ Indian Statistical Institute Kolkata	October 2022 To October 2024	5.8 Lakhs	2 years
2	Digital Twin-based Process Monitoring System for Laser Directed Energy deposition process	Dr Akriti Nigam	International Science Partnerships Fund (ISPF), Department of the Economy, Northern Ireland	Aug 2024 - Mar 2025	44.75 Lakhs	8 Months
3	Machine Learning-based characterization and grading of minerals and establishment of image-based mineral repository for the State of Jharkhand	PI: Dr. Subrajeet Mohapatra Co-PI: Dr. Shamama Anwar	SERB	February 2023 To February 2025	20.3	2 years
4	Development of Intelligent Blockchain Techniques for providing efficient management and storage security solutions for E-healthcare	PI: Dr. Shamama Anwar Co-PIs: Prof. (Dr.) Sandip Dutta, Dr. Prashant Pranav	BIRAC, DBT	April 2023 To February 2024	10 Lakhs	11 months
5	Proposing Health Indicators for Modeling and Prediction of Selected Biological Aspects in Human Communities	PI: Prof. Ranjita Pandey Co-PI: Dr. Shruti Garg	IOE FRP Delhi University	August 2024 To June 2025	5 Lakhs	10 months

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	Cyber Security Assesment of DDCS against Cyber Threats of Prototype Fast Breeder Reactor (PFBR)	Indra Gandhi Centre for Atomic Research, Kalpakkam	Feb 2024 - Sep 2026 [2.5 years]	29.77	PI: Prof. (Dr) Sandip Dutta, Co-PI: Dr Prashant Pranav	Ongoing

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1.	One-day national workshop on image processing and machine learning for mineral characterization	Dr Shamama Anwar	ANRF	17.01.2025	Offline
2	National Workshop on Natural Language Processing for Conversational AI	Dr MD Shah Fahad, Dr Amritanjali, and Dr Bhaskar Karn	JCSTI	09.12.2024 to 13.12.2024	Offline

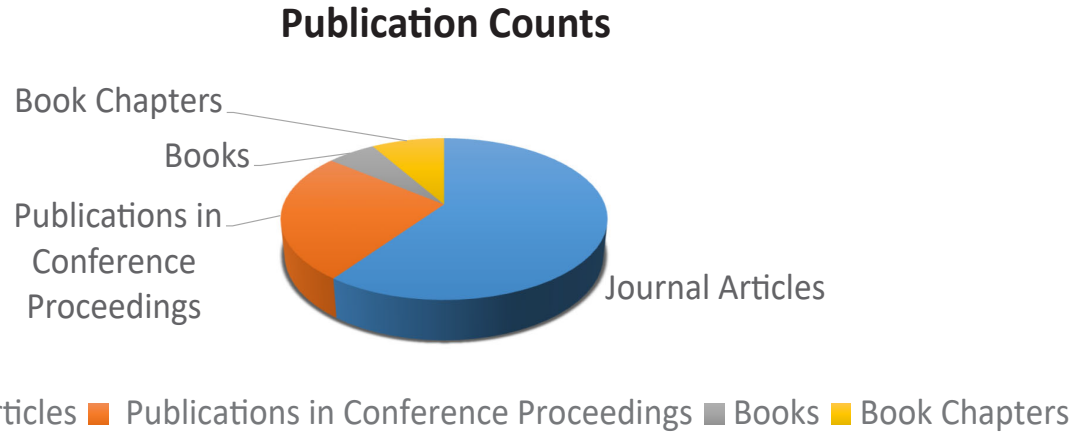
3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr Lopa Mudra Hota	Foundation of Computer Networking: Core Concepts, Protocol & Infrastructure	NIT Rourkela	NIT Rourkela	NIT Rourkela	16.06.2025
2	Dr I Mukherjee	The role of AI and ML in Enhancing Cybersecurity against Cyber Crime	RTC Institute of Technology	RTC Institute of Technology	RTC Institute of Technology	26.05.2025

SECTION 4		RESEARCH PUBLICATIONS

4.5 Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	21	9	2	3



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr Sudip K. Sahana	Resource Person in "Advanced Developments in AI: From Basics of AI to Generative AI, Explainable AI, and Beyond"	Electronics &I CT Academy, Indian Institute of Technology Roorkee.	National	2024
2	Dr Jit Mukherjee	One year PostDoctoral Fellowship in University of Pavia	University of Pavia, Italy	International	2024-25
3	Dr Supreeti Kamilya	Awarded Short Research Trip to France (SRTF) under the Scientific High Level Visiting Fellowships (SSHN)	The French Institute in India (IFI), Embassy of France in India.	International	2024
4	Dr Jayshree Sengupta	Received the IRTF Diversity Travel Grant to attend IETF 120 in Vancouver, Canada and IETF 115 in London	IRTF	International	2024

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/Granted
1	PANDEY, Mamata 2. KESHRI, Dr. Anup Kumar 3. SINHA, Dr. Rakesh Kumar	An Ecg-Based Authentication System And Method Thereof	202431049057	2024	Published
2	BISHNU, Dr. Partha Sarathi 2. KUMAR, Abhishek 3. BHATTACHARJEE, Dr. Vandana	System And Method For Optimizing Discounts To Enhance Customer Satisfaction And Company's Revenue	202431053477	2024	Published

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

S. No.	Faculty	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. (Mrs). Vandana Bhattacharjee	Professor	Machine learning Object Oriented Software Metrics Soft Computing Software Cost Estimation Process Models	Ph.D. (CS)	01-10-2002
2	Dr. Sandip Dutta	Professor	Network Security Cryptography Blockchain Cyber Security Digital Forensics Security in Cloud Computing Biometric Security in MANET	Ph. D.	25-04-2001

3	Dr. Abhijit Mustafi	Professor	Digital Image Processing Machine Learning Deep Learning	Ph. D.	08-03-2003
4	Dr. Vijay Kumar Jha	Professor	Network Security Big data Analytics Data Mining	Ph. D.	04-02-2001
5	Dr. Dheeresh Kumar Mallick	Associate Professor	Wireless Sensor Network Distributed Systems Parallel Computing Interconnection Network for Massively Parallel Systems Parallel and Distributed Algorithms Parallel Image Processing Data Science	Ph. D.	07-07-1999
6	Dr. K. Sridhar Patnaik	Associate Professor	Software Engineering Software Testing Machine Learning IoT,CPS Blockchain	Ph. D.	07-10-2003
7	Dr. Kumar Rajnish	Associate Professor	Software Metrics Programming languages Object-Oriented Software Engineering Cognitive Approach in Software Engineering Data Mining Database Systems Database Metrics Machine Learning	Ph. D.	09-12-2002
8	Dr. Bikas Kanti Sarkar	Associate Professor	Algorithm Design (Sequential & Parallel) Automata Theory Graph Theory Compiler Design Coding Theory	Ph. D.	01-03-2000
9	Dr. (Mrs.) Sanchita Paul	Associate Professor	Cloud Computing Artificial Intelligence Machine Learning Medical Informatics	Ph. D.	15-07-2006
10	Dr. Sudip Kumar Sahana	Associate Professor	Artificial Intelligence Soft Evolutionary Computing System Programming Grid Computing	Ph. D.	08-02-2007
11	Dr. Indrajit Mukherjee	Associate Professor	Compiler Design Algorithm Design & Analysis Evolutionary Algorithms Data Mining Information Retrieval Web Mining	Ph. D.	17-07-2000
12	Dr. (Mrs.) Itu Snigdh	Associate Professor	Internet of Things Cyber physical systems Wireless sensor networks Software design and Testing Database management systems	Ph. D.	02-02-2003
13	Dr. Kishore Kumar Senapati	Associate Professor	Algorithm Design Cyber Security Image Processing	Ph. D.	13-07-2005
14	Dr. Shashank Pushkar	Associate Professor	Optimization Theory and Applications, Machine Learinng and Deep Learning Database Systems Remote Sensing Data Analytics Data Mining Techniques Software Engineering	Ph. D.	06-03-2008
15	Dr. Subrajeet Mohapatra	Associate Professor	Image Processing Pattern Recognition Soft Computing Cognitive Psychology	Ph. D.	29-06-2012
16	Dr. Suvendu Kanungo	Assistant Professor	Data Mining Image Processing Bio-informatics Content Based Image Retrieval Pattern Recognition	Ph. D.	08-01-1995
17	Dr. Satya Prakash Singh	Assistant Professor	Database Management System Big Database Machine Learning Image Processing Software Engineering Cloud Computing	Ph. D.	17-08-2001
18	Dr. (Mrs.) Shruti Garg	Assistant Professor	Biomedical Signal Processing Machine Learning Natural Language Processing	Ph. D.	06-01-2007
19	Dr. (Mrs.) Amritanjali	Assistant Professor	Parallel and Distributed Computing Wireless Networks Bioinformatics Machine Learning	Ph. D.	07-05-2006

20	Dr. (Mrs.) Shamama Anwar	Assistant Professor	Image Processing Medical Image Analysis Machine Learning Deep Learning Cryptography Blockchain	Ph. D.	11-05-2008
21	Dr. Anup Kumar Keshri	Assistant Professor	Theory of Computation Compiler Design Parallel Computing Soft Computing	Ph. D.	28-10-2004
22	Dr. Ritesh Jha	Assistant Professor	Algorithm Analysis Data mining	Ph. D.	07-12-2003
23	Prof. Indradeo Ram	Assistant Professor	Computer Vision Machine Learning Soft Computing Artificial Intelligence	ME	13-07-2003
24	Dr. Sabina Priyadarshini	Assistant Professor	Content based image retrieval Digital image processing Computer networks Database management System Artificial intelligence and machine learning	Ph. D.	02-01-2007
25	Dr. (Mrs) Akriti Nigam	Assistant Professor	Image Processing Medical Imaging Pattern Recognition Machine Learning Audio & Speech Processing	Ph. D.	15-04-2015
26	Dr. Satish Chander	Assistant Professor	Data Mining, Pattern Recognition Computer Graphics Database System Data Structure	Ph. D.	22-02-2001
27	Dr. (Mrs.) Debjani Mustafi	Assistant Professor	Data Mining Machine Learning Computer Vision	Ph. D.	01-12-2007
28	Dr. Niraj Kumar Singh	Assistant Professor	Data Structures Design and Analysis of Algorithms Formal Languages and Automata Theory	Ph. D.	17-07-2012
29	Prof. Kalyan Samanta	Assistant Professor	Computer Graphics Software Engineering Software Project Management Image Processing Machine Learning	M. TECH.	08-02-2010
30	Dr. Sumit Srivastava	Assistant Professor	Computer Network Information Network Security Computer Architecture Speech Technology	Ph.D.	30-07-2012
31	Prof. Bidyut K. Chanda	Assistant Professor	Information Technology	MCA	13-07-2016
32	Dr. Jit Mukherjee	Assistant Professor	Image Processing Remote Sensing Machine Learning Deep Learning Pattern Recognition	Ph.D.	17-08-2021
33	Dr. Prashant Pranav	Assistant Professor	Cryptography, Algorithm Analysis Random Numbers Computational Musicology Cloud Computing Integer Factorization Cyber Security Digital Forensics Network Security Intrusion Detection System	Ph.D.	25-08-2021
34	Dr. Supreeti Kamilya	Assistant Professor	Cellular Automata Machine Learning Deep Learning	Ph.D.	23-12-2021
35	Dr. Richa	Assistant Professor	Artificial Intelligence Machine Learning Information Retrieval Recommender Systems Deep Learning	Ph.D.	15-03-2023
36	Dr. Md Shah Fahad	Assistant Professor	Speech Processing Machine Learning Deep Learning Emotion Recognition, Computational Biology and Disease Modeling	Ph.D.	20-03-2023
37	Dr. Jamimamul Bakas	Assistant Professor	Multimedia Forensics Machine Learning Image and Video Processing Computer Vision	Ph.D.	29-03-2023

38	Dr. Jayasree Sengupta	Assistant Professor	Network Security	Ph.D.	15-04-2024
39	Dr. Saikat Chakraborty	Assistant Professor	Pattern Recognition Machine Learning Clinical Gait Analysis	Ph.D.	05-09-2024
40	Dr. Sandip Ghosal	Assistant Professor	Language-based Information Flow Control Programming Language Security Synthesizing Program Contracts Symbolic Execution	Ph.D.	27-05-2024
41	Dr. Komal Naaz	Assistant Professor	Data Analytics Computational Linguistics	Ph.D.	12-05-2024
42	Dr. Ravishankar Mehta	Assistant Professor	Computer Vision Deep Learning Image Processing	Ph.D.	19-12-2024
43	Dr. Lopamudra Hota	Assistant Professor	Wireless Sensor Networks Vehicular Ad-hoc Networks Internet of Things Machine Learning	Ph.D.	31-01-2025
44	Dr. Shreeya Swagatika Sahoo	Assistant Professor	Cryptography, Information Security, Network Security, Internet of Things (IoT) Security, Authentication Protocols	Ph.D.	03-10-2025
45	Dr. Rathindra Nath Dutta	Assistant Professor	Computer Networks Mobile Computing Distributed Systems Algorithms Design	Ph.D.	21-03-2025
46	Dr. Monu Bhagat	Assistant Professor		Postdoc (IIT Kharagpur),Ph.D.(CSE N.I.T. Jamshedpur)	28-03-2025

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Dr. Supratim Biswas	Visiting Professor	Regular

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Prof. (Dr) Abhijit Mustafi	Chairman (Ex-Officio)	Internal
2.	Prof. (Dr) V. Bhattacharjee	Member	Internal
3	Prof. (Dr) S. Dutta	Member	Internal
4	Prof. (Dr) V.K. Jha	Member	Internal
5	Dr Sudip Sahana, Associate Professor	Member	Internal
6	Dr Suvendu Kanungo, Assistant Professor	Member	Internal
7	Dr Debjani Mustafi, Assistant Professor	Member	Internal
8	Faculty Member CSE, Nominee of Director BIT Jaipur	Member	Internal
9	Faculty Member CSE, Nominee of Director BIT Patna	Member	Internal
10	Faculty Member CSE, Nominee of Director BIT Deoghar	Member	Internal
11	Faculty Member CSE, Nominee of Director BIT Noida	Member	Internal
12	Faculty Member CSE, Nominee of In-Charge BIT Lalpur	Member	Internal
13	Prof. (Dr) Manish Kumar, BET	Member	External
14	Prof. (Dr) Supriyo Roy, MGT	Member	External

15	Prof. (Dr) Abhishek Srivastava Department of Computer Science and Engineering, IIT Indore, Indore-453552 Contact: asrivastava@iiti.ac.in	Member	External
16	Prof. (Dr) Tanmay De Department of Computer Science and Engineering, NIT Durgapur, West Bengal-713209 Contact: tde.cse@nitdgp.ac.in	Member	External
17	Dr Sriparna Saha Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology Patna Bihta, Patna -801103 (Bihar) E-mail: sriparna@iitp.ac.in/sriparna.saha@gmail.com Tel : +91-612-302 8128	Member	External
18	Prof. (Dr) Biswajit Sahoo Department of Computer Engineering, Kalinga Institute of Industrial Technology, Bhubaneswar-751024, Contact: bsahoofcs@kiit.ac.in	Member	External
19	Mr. Askok Chakraborty Senior Director, Celonis, Celonis Catalog and Business Apps Product Development & Engineering,	Member	External
20	Mr. Varun Kumar Senior Vice President at Signifyd, United States	Member	External
21	Mr. Jalaj Jain Software Developer, Texas Instruments	Member	External

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Entrepreneurship / Startups

Sr. No.	Student Name	Funding Source	Title	Description
1	Kingshuk Banerjee	Start-up India	Anonymous Squirrels Business Solutions PVT. LTD.	Advertising and market research based start-up
2	Kabir Talade	Start-up India	BTech Travelwala	

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Ayush Kumar(Team Zypher)	AIM 2024 (Smart Card Design Challenge): Achievement	NXP India	October 2024	Online
2	Animesh Patra, Soham Ganguly	3rd Prize: AI Hack at Dreamhack	Dreamhack Hyderabad	November 2024	Hyderabad
3	Achintya Kumar	IEEE Mega Project (CodeZ): Excellence award	IEEE	February 2025	Online

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof. (Dr) Subhasis Chaudhuri	Former director at the Indian Institute of Technology, Bombay (IIT Bombay) and currently Chairman of the Board of Directors of BSE Limited.	Deptt of Computer Science and Engineering	24.01.2025	

8.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	University: DSPMU	Dept of Tribal and Regional Language (DSPMU) and Dept of Computer Science and Engineering (BIT Mesra) signed an MoU for Computational Linguistics research in the regional languages of Jharkhand	15.03.2024

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- Blended teaching classroom (Seminar Hall -3) is introduced in the department with a 90-seat capacity.
- DST PURSE supported research lab (ARMLEGS LAB) with a total capacity of 50 systems.
- All of the 6 teaching Labs in the department are now equipped with smart screens.

9.2 IT Upgrades

Sl. No.	Lab	PC Count	Teaching/Research
1	Lab 1	93	Teaching
2	Lab 2	50	Research
3	Lab 3	63 + 15 (latest expansion)	Teaching
4	Lab 4	86	Teaching
5	Lab 5	61	Teaching
6	Lab 6	70 (20 in 70 are newly added)	Teaching
7	Lab 7	81	Teaching
8	Lab 8	11	Research
9	Lab 9	14	Research
	Total	544	

There are total 544 systems available in the department, out of which, 75 are for research purposes and 469 are for students for teaching purposes. Out of the 75 research allocated systems, 50 are added recently using the DST PURSE grant. On the other hand, 35 out of 469 systems are recently added/replaced.

SECTION 10		FUTURE PLANS (2025-26)

Course: The Department of Computer Science and Engineering has recently updated its entire curriculum in alignment with the National Education Policy (NEP) guidelines. The department is firmly committed to continuous refinement of the curriculum, incorporating new courses and timely revisions based on systematic feedback from stakeholders. This approach ensures that the curriculum remains contemporary, relevant, and responsive to the evolving needs of students, industry, and academia.

Research goals: The department intends to follow the latest research in various domains and plans to improvise by promoting quality publication and research grants.

Infrastructure: Over the past year, the Department of Computer Science and Engineering has made significant strides in expanding and upgrading its infrastructure. A new 90-seater blended classroom-cum-laboratory has been established, along with the addition of eight new faculty chambers. In parallel, the existing faculty chambers and washrooms have undergone extensive renovation to provide an improved working and learning environment. The department has also created dedicated partitioned rooms for battery and UPS accommodation, ensuring better operational efficiency.

Looking ahead, the department envisions further expansion of faculty seating arrangements to accommodate new recruits and remains committed to continuously enhancing its teaching and research facilities in alignment with the highest academic standards.

Centre for Quantitative Economics and Data Science

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Centre

The Centre for Quantitative Economics and Data Science was established in the year 2021 with the aim to provide fundamental knowledge and problem-solving skills in the area of Quantitative Economics and Data Sciences. This will help in disseminating the acquired knowledge towards improving analytical skills, research and practical application. The Centre is recognized at par with existing leading Centres in terms of available computational facilities and academic & research infrastructure. The Centre remains committed to its two-fold mission.

1.2 Vision & Mission

Vision: To become a globally recognized centre of excellence in teaching and research by producing academicians, professionals, and innovators to create a better world where a profound understanding of the field of Quantitative Economics and Data Sciences drives positive change in business and society.

Mission:

- To set-up a world-class Quantitative Economics and Data Science centre by producing original & robust research insights, delivering high-quality & evidence-based education and engaging with people & organisations worldwide, across the private & public sectors, who are motivated to transform the world by tackling real world challenges.
- To intellectually transform students for productive and stimulating careers by providing them a strong grasp of fundamentals through a diverse living environment, exposure to new ideas and interaction with people who come from different walks of life and have evolving identities.

1.3 Key Achievements

- **Student Achievements:**

  Rohit Singh batch of 2023 - Founder and Managing Director of Mentivisor Pvt Ltd (DPIIT Recognised)
  Pratuyush Upadhyay batch of 2022 – founder of VedaAI

  Ankur Panjwani batch of 2023 – founder of Anugat

- **Faculty Achievement:**

  Dr Manish Kumar Pandey Certificate of Merit at the BIT Faculty Appreciation Award BITFAA'2024

- **Overall Department Achievement:**

  Development of Digital Innovation Lab in collaboration with ADROSONIC.

  Development of Advanced Data Science Lab, sponsored by State Bank of India.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	Integrated-M. Sc. program in Quantitative Economics and Data Science	5 years 10 semesters	30	To become a globally recognized centre of excellence in teaching and research by producing academicians, professionals, and innovators to create a better world where a profound understanding of the field of Quantitative Economics and Data Sciences drives positive change in business and society.

2	Ph.D. in Data Science Ph.D. in Economics Ph.D. in Mathematics / Statistics	Minimum 3 years	Variable	To intellectually transform students for productive and stimulating careers by providing them a strong grasp of fundamentals through a diverse living environment, exposure to new ideas and interaction with people who come from different walks of life and have evolving identities.

SECTION 2 EXTRAMURALGRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Tracing the Transition: A Longitudinal Study of Skilling and Labor Market Outcomes of Indian Youth in Orissa, Jharkhand, Telangana and West Bengal	Co-PI Dr. Saheli Bose	ICSSR	23/09/2025	INR 4850000 BIT's share Total 2 crores	5 years
2	Development of a Robust Machine Learning Tool to Support Quick Malaria Detection and Parasite Stage Identification for Reducing Malaria Burden	Co-PI Dr. Manish Kr Pandey	ICMR	01/02/2025	INR 1,51,50,863	3 Years

(b) Ongoing Projects:

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Development and Validation of Graph Optimization Based Multi-Sensor Fusion Algorithm to Establish Real-Time Connections between Climatic Variables in Himalayan Ecohydrological Process Networks for Future Climate Projections.	Dr Manish Kumar Pandey (PI)	BIT Mesra	27/09/ 2022	5,00,000.00	27.09 2022-31.12.2025
2	Microwave satellite data assimilation in Weather Research & Forecasting model through deep learning for improved forecasting of surface and sub-surface soil moisture conditions	Dr Manish Kumar Pandey (Co-PI)	SERB-CRG	01/03/2023	25,41,240	3 Years
3.	Behavioural responses and the impact of environmental knowledge of ponds: Evidence from field experiment in India	Dr Saheli Bose (PI)	ICIMOD	15/01/2024	2069000.00	2 years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	PI - Dr Shrimoyee Ganguly	ANRF, ICSSR-ERC	25.03.2025	280000	25.04.2025
2	2nd Annual QEDS Conference on Advances in Applied & Computational Mathematics: Theory, Methods & Applications in Finance & Data Science. (AACM'25)	PI - Dr. Mrinal Jana	ANRF	23.10. 2024	250000	17.02. 2025

(d) Consultancy Projects:

Sr. No.	Title	Funding Agency	Duration	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status
1	Digital Innovation Lab	Adrosonic IT Consultancy Pvt Ltd	01.03.2023 – 28.02.2028	92,63,523.92 (Including 18 % Tax	Dr Manish Kumar Pandey	Ongoing

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode
1.	International Data Science and Engineering Conclave	Dr Manish Kumar Pandey	Adrosonic	21-22.10.2024	Offline
2	2nd Annual QEDS Conference on Advances in Applied & Computational Mathematics: Theory, Methods & Applications in Finance & Data Science. (AACM'25)	Dr. Mrinal Jana	ANRF	13-15.02.2025	Offline
3	A scientific discussion on Use of Computationa l Mathematics and Data-Driven Solutions for Skill Development and Job Creation	Dr. Mrinal Jana	NASI	13.02.2025	Offline
4	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	Dr. Shrimoyee Ganguly (Convener)	ANRF and ICSSR-ERC (Eastern regional Centre)	24-25.04.2025	Offline

3.2 Events Attended by Faculty.

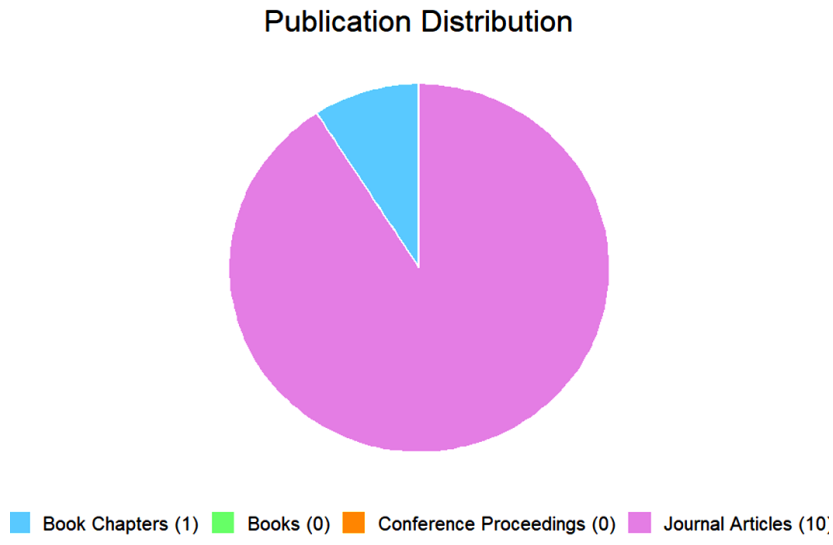
Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Tina Dutta	Invited Talk: One-week National Workshop on Statistical Methods and Research Techniques (SMART)	Dept. of Animal Genetics & Breeding, Birsa Agricultural University, Ranchi	-	Birsa Agricultural University, Ranchi	23.07.2024 - 29.07.2024

2	Dr. Manish Kumar Pandey	Panel Discussion on AI's Impact on Art & Literature	Metaphor - Lucknow Literature Festival	ADROSONIC	CII, Gomtinagar, Lucknow	14.12.2024
3	Saheli Bose	9th International Conference on Empirical Issues in International Trade and Finance	IIFT Kolkata	Indian Institute of Foreign Trade	Kolkata	12.12.2024 - 13.12.2024
4	Dr. Lakshman Mahto	Conference on Applied AI and Scientific Machine Learning (CASML 2024)	IISc Bangalore	ARTPARK, IISc Bangalore	CDS, IISc Bangalore	14.12.2024 - 16.12.2024
5	Dr. Manish Kumar Pandey	Invited Talk: "Data Science, ML & AI - Statistics with Python"	University Polytechnic, BIT Mesra	-	BIT Mesra, Ranchi	16.12.2024 - 20.12.2024
6	Dr. Tina Dutta	Invited Talks: Five-day guest lecture sessions on "Big Data Using Machine Learning"	International Institute for Population Sciences, Mumbai	-	Online	27.09.2024 - 05.10.2024
7	Dr. Tina Dutta	Invited Talks: 5-Day Workshop on 'Business Intelligence and Analytics using Microsoft Power BI'	Jaypee Institute of Information Technology, Noida	-	Online	18.11.2024 - 22.11.2024
8	Dr. Manish Kumar Pandey	Principal Rapporteur at 23rd Annual Conference of Social Science Institutions (IASSI)	BIT Mesra & Institute for Human Development, Ranchi	-	BIT Mesra & IHD, Ranchi	25.10.2024 - 27.10.2024
9	Dr. Manish Kumar Pandey	Invited Talk: "Basics of AI & ML" at SAR Data Analysis Workshop	Banaras Hindu University	SERB	BHU, Varanasi	07.02.2025 - 09.02.2025
10	Dr. Manish Kumar Pandey	Panel Discussion on Artificial Intelligence in Education	Ranchi Sahodaya School Complex 2025 - SYNERGY	-	Chanakya BNR Hotel, Ranchi	23.02.2025
11	Dr. Tina Dutta	Invited Talk: National Workshop on "Data Analysis using R and Python"	Utkal University, Bhubaneswar	-	Bhubaneswar, Odisha	26.03.2025 - 27.03.2025
12	Saheli Bose	34th Annual Conference, Dept. of Economics, Jadavpur University	Jadavpur University	BIT Mesra	Kolkata	02.01.2025 - 03.02.2025
13	Dr. Mrinal Jana	Faculty Development Program on Research Paper Writing	Research Foundation of India & Parul University	SHODH, Gujarat	Parul University, Gujarat	24.06.2025 - 28.06.2025
14	Dr. Shrimoyee Ganguly	Five-Day Workshop cum FDP on Statistics, ML, and Optimization	IIIT Kottayam	-	Online	26.06.2025 - 30.06.2025

SECTION 4 RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	10	0	0	1



SECTION 5 AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr Manish Kumar Pandey	Travel Grant to Attend Elevate Connect.	ADROSONIC	International (Travel to London)	14th September 2024-19th September 2024
2	Dr Manish Kumar Pandey	Travel Grant to Attend Art & Literature in Metaphor- Lucknow Literature Festival	ADROSONIC	National (Travel to Lucknow)	13th December 2024-16th December 2024
3	Dr Manish Kumar Pandey	Certificate of Merit at the BIT Faculty Appreciation Award BITFAA'2024	BIT Mesra	State	15th August 2024.

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr Manish Kumar Pandey	Assistant Professor	Data Science, Artificial Intelligence, Big Data Analytics	PhD (Computer Science)	21/09/2021
2	Dr. Mrinal Jana	Assistant Professor	Optimization theory	PhD (Mathematics)	06/12/2021
3	Dr. Tina Dutta	Assistant Professor	Statistics, Business Analytics, Mathematical Demography	Fellow (PhD), M.Phil., M.Sc. Statistics	18/08/2023

4	Dr. Shrimoyee Ganguly	Assistant Professor	International Economics and Development, Microeconomics	Ph.D.(UGC NET SRF) M.Phil., M.A., B.A (Hons.) Economics	17/07/2023
5	Dr. Saheli Bose	Assistant Professor	Development Economics, Labour Economics	PhD Economics	20/07/2023
6	Dr. Kusum Lata Mishra	Associate Lecturer	Management	PhD (Human Resource Management)	12/08/2009
7	Dr. Pushkal Kumar	Assistant Professor	Statistical Classification Problems, Bayesian Inference, Statistical Inference Using Censored Data, Decision Theory, Computational Statistics	PhD (Mathematical Statistics)	13/05/2024
8	Dr Lakhsman Mahto	Assistant Professor	Learning dynamical systems and control, autonomous control systems	PhD (Mathematics)	13/12/2024
9	Dr Sunny Bhushan	Assistant Professor	Law and Economics, Economics of Conflict, Microeconomics, Contract Economics	PhD (Economics)	3/01/2025
10	Dr Ashkamini	Assistant Professor	Bayesian Analysis, Bayesian Inferences	PhD (Statistics)	2/01/2025

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Prof. Anindya Sen	Visiting Professor	IIM Calcutta

6.3 Board of Studies

SL. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1	Head	Professor, HOC, BIT Mesra	Chairman
2	Dr. Manish Kumar Pandey	Assistant Professor of Data Science CQEDS, BIT Mesra	Internal member
3	Dr. Mrinal Jana	Assistant Professor of Mathematics CQEDS, BIT Mesra	Internal member
4	Dr. Saheli Bose	Assistant Professor of Economics CQEDS, BIT Mesra	Internal member
5	Dr. Abhijit Mustafi	Associate Professor Department of Computer Science & Engineering BIT Mesra	Internal member
6	Prof. S. Padhi	Professor Department of Mathematics BIT Mesra	Internal member
	(Any Two Members of the Following List)		
1	Mr Mayank	CEO & Managing Director Adrosonic	Member from Industry (External Members)
2	Prof. Partha Ray	Director, National Institute of Bank Management, Pune	Member from Academics (External Members)

3	Prof. Mousumi Dutta	Professor of Economics, Presidency University, Kolkata	Member from Academics (External Members)
4	Prof. Rahul Mukerjee	Professor of Statistics Indian Institute of Management, Calcutta	Member from Academics (External Members)
5	Prof. Animesh Mukherjee	Professor of Computer Science IIT Kharagpur	Member from Academics (External Members)

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Teachers' day celebration 2024	Batch of 2021	Dr. Shrimoyee Ganguly	05/09/2024
2	Fresher's welcome organised by Student club E.D.G.E. (Entante of Data Science and Global Economics)	Aayushi Singh	Dr. Shrimoyee Ganguly	30/01/2025

7.2 Entrepreneurship / Startups

Sr. No.	Student Name	Funding Source	Title	Description
1	Rohit Singh	15 lakhs Capital infusion, 20 lakhs Seed fund from angel investors	Mentivisor pvt ltd	Mentivisor is building a self-empowering digital ecosystem app designed to transform the college experience for India's youth. We connect students with the mentorship, community, and opportunities they need to achieve their academic, professional, and personal goals — all within one trusted platform.
2	Pratyush Kr Upadhyay	10 lakhs - BITMAA Innovation Group 10 Lakhs - Startup Bihar 5 Lakhs - IIM BANGALORE NSRCEL 40 Lakhs - Delhi Angle Network - Not to be posted in social media handles as we have signed NDA 10 Lakhs - Meity Startup Hub	VedaAI - Vedafy Technologies Private Limited	Empowering K-12 educational institutions with AI Native Agents for Teachers and Students, for increasing classroom efficiency, saving time and providing personalised learning support. We Provide K-12 Institutions with an ecosystem of 12 AI Agents customised and trained on their school data and personalised according to each individual user.
3	Navneet Kumar	Jharkhand MSME Hackathon 5.0 Incubation amount 15 Lakhs	Elyvate Technologies Private Limited	Elyvate is an end-to-end drones + data science company that turns aerial data into decisions you can trust. We build and operate mission-ready UAVs, then run your captures through our AI/ML pipelines (geospatial analytics, forecasting, anomaly detection) to deliver auditable maps, metrics, and dashboards.

4	Nishant Sharma	Bootstrapped as of now with revenue: USD25000 ARR	Hire Buddy	Hirebuddy is a platform that automates the job/ internship search and application process. We help job seekers land roles effortlessly. From finding roles all over the internet to applying to these roles on your behalf - Hirebuddy does it all. We're building AI Agents that help you find jobs in no time.

7.3 Studnent Achievements(Overall)

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Rohit Singh (K23)	Winner of B-Plan Competition 2024	BIT Mesra	05/10/2024	BIT Mesra
2	Rohit Singh (K23)	Winner of Bit Nishan 2024	IIC BIT Mesra	11/12/2024	BIT Mesra
3	Priyanshi Agarwal (K23)	Winner of consolation prize (with a cash prize of Rs. 20000) at All India Level "Data Visualization Hackathon-Innovate with GoIStats"	Ministry of Statistics and Programme Implementation (MoSPI), Government of India	25/02/2025-01/04/2025	online
4	Himanshu Kumar (K23)	Winner of consolation prize (with a cash prize of Rs. 20000) at All India Level "Data Visualization Hackathon-Innovate with GoIStats"	Ministry of Statistics and Programme Implementation (MoSPI), Government of India	25/02/2025-01/04/2025	online
5	Dhruv (K22)	Internship	Ministry of Electronics and Information Technology	June' 25–July' '25	New Delhi
6	Aayushii Singh (K21)	Internship	NABARD	June' 25–July' ' 25	Ranchi
7	Naman Khatwani, (K22)	Internship (2 Months)	Adrosonic – Digital Innovation Lab	June' 25–July' ' 25	BIT Mesra, Ranchi
8	Aastha Chhabra, (K22)	Internship (2 Months)	Adrosonic – Digital Innovation Lab	(June' 25–July' ' 25)	BIT Mesra, Ranchi
9	Sawon Mitra (K23)	Research Internship	XLRI Jamshedpur	(June' 25–July' '25)	Jamshedpur
10	Ashish Ranjan (K22)	Internship (2 Months)	Adrosonic – Digital Innovation Lab	(June' 25–July' '25)	BIT Mesra, Ranchi
11	Anoushka Aditi (K23)	Summer Internship	EY India	(June' 25–July' '25)	—
12	Harsh Ranjan (K21)	Summer Internship	Reserve Bank of India	(June' 25–July' '25)	RBI Patna
13	Yaagik Maurya (K21)	Summer Internship	Adrosonic – Digital Innovation Lab	(June' 25–July' '25)	BIT Mesra, Ranchi
14	Navneet Kumar (K21)	Summer Internship	Adrosonic– Digital Innovation Lab	(June' 25–July' '25)	BIT Mesra, Ranchi

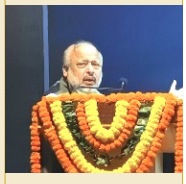
7.4 Students Toppers

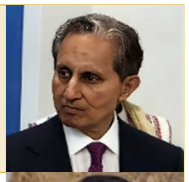
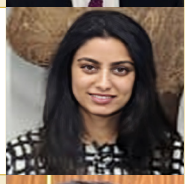
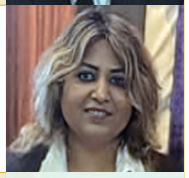
Sr. No.	Name	Course	Sem	Grade
1	Harsh Ranjan	IMSc	7	9.59
2	Harsh Ranjan	IMSc	8	9.27
3	Naman Khatwani	IMSc	5	9.60
4	Naman Khatwani	IMSc	4	10
5	Gautam Chabbra	IMSc	3	9.71
6	Anoushka Aditi	IMSc	4	10
7	Vijay Joshi	IMSc	1	9.7
8	Vedant Pasari	IMSc	2	9.61

SECTION 8 OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof.Saibal Kar	RBI Chair Professor of Economics Centre for Studies in Social Sciences, Calcutta	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	24.04.2025	
2	Prof. Achin Chakraborty	Professor and Former Director, Institute of Development Studies Kolkata	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	24.04.2025	
3	Prof.Siddhartha Chattopadhyay	Department of Humanities and Social Sciences, IIT Kharagpur	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	25.04.2025	
4	Prof.Paramita Mukherjee	School of Economics, XIM University Bhubaneswar	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	24.04.2025	
5	Prof. Partha Chatterjee	School of Humanities, Shiv Nadar Institution of Eminence	Workshop on frontiers of Research in Applied Econometrics and Public Policy 6Analysis 2025	54.04.2025	
6	Prof.Tushar Kanti Nandi	Department of Humanities and Social Sciences, IISER Kolkata	Workshop on frontiers of Research in Applied Econometrics and Public Policy Analysis 2025	24.04.2025	

7	Prof. Geetanjali Panda	Professor, Department of Mathematics, Indian Institute of Technology Kharagpur, Kharagpur, India - 721302	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	13.02.2025	
8	Prof Jitendra Kumar	Professor & Head, Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India, Pin-140001	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	13.02.2025	
9	Prof. Malay Bhattacharya	Associate Professor, Machine Intelligence Unit, Indian Statistical Institute 203 Barrackpore Trunk Road Kolkata 700 108, India	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	13.02.2025	
10	Prof. Manas Ranjan Tripathy	Professor, Department of Mathematics, National Institute of Technology Rourkela, Odisha, India, 769008	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	14.02.2025	
11	Prof. Somesh Kumar	Professor, Department of Mathematics, Indian Institute of Technology Kharagpur, Kharagpur, India - 721302	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	15.02.2025	
12	Dr. Manab Majumdar	Deputy Secretary General, FICCI	2nd Annual QEDS Conference 2025 on Advances in Applied & Computational Mathematics: Theory, Methods and Applications in Finance & Data Science (AACM 2025)	13.02.2025	
13	Mr Aswini Tewari	MD, State Bank of India		03.04.2025	

14	Mr. C.K. Birla	Chairman, Birla Institute of Technology, Mesra		25.11.24	
15	Ms. Avani Birla	President, Orient Electrical		14.02.25	
18	Mr. Mayank	CEO, Adrosonic		21.10.24	
19	Ms. Sonal	COO, Adrosonic		21.10.24	
20	Mr. Matt Pease	CMO, Adrosonic		21.10.24	
21	Mr. James Fairgrieve	Head of Innovation, Aventum Group		21.10.24	
22	Mr. Sanjay Kr. Singh	Olympian (Archery); Tata Group		18.04.25	

8.2 Industry Connect

International Data Science & Engineering Conclave was organised in collaboration with Adrosonic. Mr. Mayank, CEO and MD, Adrosonic, Mr. James Fairgrieve, Head of Innovation, Aventum Group, Mr. Matt Pesce, CMO and GM, Adrosonic and Dr. Manish Kumar Pandey, Assistant Professor & Head of the Digital Innovation Lab, Center for Quantitative Economics and Data Science, were present at the conclave. Apart from this, the Adrosonic Leadership team was also present, namely, COO Ms. Sonal, Director Finance Mr Sameer Arora, Head of Quality Model Office, Mr Neeraj Kumar. The Conclave marks the collaboration between industry and academia in an unprecedented manner where the Adrosonic and one of the major client, Aventum Group came together with Digital Innovation Lab for the launch of a white paper titled AI INSURANCE: UNLEASHED: REDEFINING INSURANCE WITH LANGUAGE MODELS. This whitepaper serves as a technical reference for the enterprise-level solution developed jointly by Digital Innovation Lab, Adrosonic, and Aventum Group, which leverages the capabilities of Large Language Models (LLMs) to transform the insurance sector.

SECTION 9 INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- Development of Digital Innovation Lab in collaboration with **ADROSONIC.**
- Development of Advanced Data Science Lab, sponsored by **State Bank of India.**

9.2 IT Upgrades

- Azure ML Benchwork,
- Cloud Infrastructure for 15 Systems,
- Addition of 11 All-in-One Systems

SECTION 10 FUTURE PLANS (2025-26)

- **Centre of Excellence in Applied Data Science Research**

  (CoE–ADSR) - Vision and mission - Enable high-impact, ethical, and scalable data science solutions for applied domains like MedTech, FinTech, InsureTech, Cyber-Security, Text Analytics, Mobility, and the Environment & Climate. To be a leading hub for interdisciplinary research, innovation, and deployment of data-driven systems that benefit society and industry.

Department of Electrical and Electronics Engineering

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department

The Department of Electrical and Electronics Engineering (EEE) offers B.Tech. in Electrical and Electronics Engineering, M.Tech. in Electrical Engineering and PhD in Engineering. CBCS Course Structure has been implemented from MO/2018, offering B.Tech. and M.Tech. in the EEE department. All the UG and PG programmes are approved by AICTE and accredited by NBA. Thirty-two research scholars are currently pursuing their doctoral degree on different concepts related to Micro grid, Reliability, Hybrid Electric Vehicles, Multi-level Inverters, Robotics, Fault Tolerant Multi Phase Drives, Image Processing, Power System Voltage Stability, System Identifications, Brain signal analysis, Applications of Soft Computing Techniques etc. Department of EEE is presently utilising the grants received from ICMR, SERB, ERLDC, CCL, DST (FIST), UGC (SAP), MODROB, TEQIP and Institute grant to strengthen the research and postgraduate lab facilities. The department is continuously working in the direction of elevating the standard of 11 laboratories for research and teaching purposes. Many major equipment, such as 3 and 5 kW Solar photo voltaic with Grid-tied inverters, Solar and windemulators, Micro Lab Box, DSpace Platform, IoT Based Devices, Twin Rotor MIMO System, Magnetic Levitation System, DC Servo fundamental trainer kit, Temperature, Pressure, Level and flow controller(both manual and PLC based), ACB, SVC, Relay Testing System, Generator Protection System, severalnumbers of DSO, Programmable Function Generator, Harmonic Analyser, NI Power Measurement System, Variable DC Power Supply, LCQ Meter, different ratings of DC and AC Motors, M-G Set,BLDC Motor, Single Phase And Three Phase Transformers, NI Data Acquisition Card CRIO,LabVIEW, Smart Energy Meter and NAO Humanoid Robot, Machine Fault Simulator, Typhoon Hill,Micro Lab box, DSO 1000 MHZ, Data Acquisition system Integrated with Sensor, 3 Phase Multilevel Inverter based Induction Motor Drive, NI ELVIS Rotary Inverted Pendulum, PSCAD, ETAP Software are available in the key laboratories like Control System, Power System, Power Electronics, Measurement and Process Control and Machines, Power Electronic, Smart Grid, Measurement, andDrive labs.

1.2 Vision & Mission

Vision:- To become an internationally recognized centre of excellence in academics, research and technological services in the area of Electrical and Electronics Engineering and related interdisciplinary fields.

Mission:- Imparting strong fundamental concepts to students and motivating them to find innovative solutions to engineering problems.

- Developing engineers with managerial attributes capable of applying appropriate technology with responsibility.
- Creation of a congenial atmosphere and ample research facilities for undertaking quality research to achieve national and international recognition by faculty and students.
- To strive for internationally recognised publication of research papers, books, and to obtain patents and copyrights.
- To provide excellent technological services to industry for the benefit of society.

1.3 Key Achievements

- Student Achievements:

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Akash Kumar Tiwary	Top 25 Fastest Coder - Amazon HackON 2025	Amazon India	Jun 2025	Online
2	shyamkumar	code for bharat finalist	code for bharat	Jun 2025	Online
3	Saurabh Pandey	Winner in innovation	E-BAJA SAEINDIA	March 2025	Offline
4	Soham Nag	1st in Student Project Programme (Software)	Eeesoc	Jan 25	Online
5	SARTHI ITANKAR	Qualified for 2nd round of E-yantra Robotics Compitition	E-yantra	Jan 1	Online
6	UnnatiVishisht	4th in Grand Finale of NBC Idea factory	NBC	May 21	Jaipur

- Faculty Achievement:
  - DR. SUBRAT KUMAR SWAIN, Best PhD thesis Gold Award for the topic 'Shared Control for Intelligent Vehicles using Game Theory and Reinforcement Learning' at KPIT Shodh Awards 2025 in Pune, March 2025 KIPT Technologies Ltd. International 2025.
  - DR. SANJEEV KUMAR, Best paper award at 1st International Conference on Recent Innovations and Trends in Electrical & Electronics Engineering and Computing, NIT Patna International 2025.
- Overall Department Achievement:

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity
1.	B.Tech – Electrical and Electronics Engineering	4	60
2.	M.Tech – Electrical Engineering	2	30
3.	M.Tech – EV Technology	2	30

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Ms. Priya Dubey	"Development of adaptive therapy model for prostate cancer in optimal control framework"	Dr. Surendra Kumar, Dept. of EEE, Member and Guide	14.02.2025
2.	Mr. Abdullah Umar	"Energy Management Framework for Peer-to-Peer Energy trading in the Community Micro grid Using Block chainTechnology"	Dr. Deepak Kumar, Dept. of EEE, Member and Guide	13.05.2025
3.	Mr. RajdipDebnath	"Seamless Dynamic Stabilization and Unified Control of Grid-Following and Grid- Forming Inverter Based Resources"	Dr. Gauri Shanker Gupta, Dept. of EEE, Member and Guide Dr. Deepak Kumar, Dept. of EEE, Member and Co-Guide	18.06.2025

4.	Ms. Nada Ali	"Assessment of Voltage Unbalance Mitigation and Frequency Restoration Strategies in Low Inertia Standalone Micro grid"	Dr. Deepak Kumar, Dept. of EEE, Member& Guide	13.01.2025
5.	Mr. Rohit Kumar	"Reliability Based Assessment of Generation Planning in Hybrid Thermal-Wind-Solar Systems with Optimal Replacement Strategies"	Dr. S. K. Mishra EEE Department member & Guide	08.05.2025

SECTION 2		EXTRAMURALGRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Solar Powered Hydrogen Electrolyzer for Hydrogen Generation to be used for Fuel Cell	S Shiva Kumar (PI), T Ghose (PI)	Ruhrpumpen India Pvt. Ltd	22.01.2025	7,00,000/-	1 year
2.	Development of high-power Grid-friendly Conductive and Static Wireless Chargers for Electric Vehicles	Aftab Alam, S. Shiva Kumar	ANRF	30.05.2025		

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Test bench development for investigating the performance of battery energy storage as ancillary services	Dr. T. Ghose (PI), Dr. Debomita Ghosh (PI) Dr. Md. Junaid Akhtar (PI)	Eastern Regional Load Despatch Centre, Grid Controller of India Limited, Govt. of India	04.12.2023	40 Lakhs	02. 06. 2025
2.	Solar Powered Hydrogen Electrolyzer for Hydrogen Generation to be used for Fuel Cell	S Shiva Kumar (PI), T Ghose (PI)	Ruhrpumpen India Pvt. Ltd	22.01.2025	7.0 Lakhs	1 year
3.	Secured Data Analytics for Microgrid Energy Management System Through Blockchain Technology (CRG/2021/007769)	Dr. Deepak Kumar (PI), Dr. T. Ghose (Co-PI), Dr. S Anwar (Co-PI)	DST, ANRF/ SERB/CRG (Core Research Grant)	24.01.2022	25. 21 Lakhs	23.01.2025

4.	Nanofluids based solar heat harvesting through modified hybrid PV- TEG panel for sustained solar output and extended life span (CRG/2023/ 008865)	Dr. S. K. Dhiman (PI), Dr. Deepak Kumar (Co-PI)	DST, ANRF/ SERB / CRG (Core Research Grant)	16.03.2024	37.12 Lakhs	Ongoing
5.	Brain Signal Controlled WheelChair	Dr. P.K. Upadhyay (PI), Dr. Y. Agarwal (Co-PI)	ICMR	19.03.2023	31.01 lakhs	Ongoing

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	Adaptive Irrigation Management System using Sustainable Energy	Dr. Debomita Ghosh (PI) Dr. T. Ghose (Co-PI)	Coal India Limited, Govt. of India	06.02.2023	20.06 Lakhs	02.12.2024
2.	Secured Data Analytics for Microgrid Energy ManagementSystemThrough Blockchain Technology (CRG/2021/007769)	Dr. Deepak Kumar (PI), Dr. T. Ghose (Co-PI), Dr. S Anwar (Co-PI)	DST, ANRF/ SERB / CRG (Core Research Grant)	24.01.2022	25.21 Lakhs	23.01.2025
3.	Data Driven Smart Energy Management of Micro-Grid based Cyber Physical System for Precision Agriculture	Dr. Sudhansu Kumar Mishra (Co-PI) and Other, Dr.SitanshuSahu (PI)	NM-ICPS, DST, BIT as one of the two spokes (ISI, Calcutta as Technology Innovation Hub)	01.08.2020	80 Lakhs	30.06.2025

(d) CSR Funded Project

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1.	Solar Powered Hydrogen Electrolyzer for Hydrogen Generation to be used for Fuel Cell	Ruhrpumpen India Pvt. Ltd	January 2025 to January 2026	7,00,000/-	S Shiva Kumar (PI), T Ghose (PI)	Ongoing
2.	Development of L&TTS Electric Vehicle Lab	L&TTS	21.05.2025 to 21.05.2027	97,00,000/-	Aftab Alam	Ongoing

3.1 Events Conductedby the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1.	DST-SERB/CRG Sponsored Workshop Blockchain Technology and its Application in Secured Energy Management for Microgrid	Dr. Deepak Kumar, Dr. T. Ghose	DST-SERB/CRG, GoI	14.12.2024 – 15.12.2024	Offline

2.	DST-SERB/CRG Sponsored one day research training programme on Blockchain Technology and its application in secured energy management for Microgrid	Dr. Deepak Kumar	DST-SERB/CRG, GoI	21.12.2024	Offline
3.	Two-day workshop on SCADA & IoT and their applications in Electrical Engineering	Dr. Deepak Kumar, Dr. Prem Prakash	Departmental Fund	29.03.2025 and 30.03.2025	Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1.	Debomita Ghosh	Refresher Course: Cyber-Physical Systems: A New Era of Technology Integration	IIT Patna under Malaviya Mission Teacher Training Program of UGC	IIT Patna	IIT Patna (Online)	16.06.2025 to 28.06.2025
2.	Pankaj Mishra	Four days short-term course on "Stability and Protection of Renewable Dominated Power Grids"	IISc Bengaluru	Institute	IISc Bengaluru off-line	06.01.2025 to 09.01.2025
3.	Sanjeev Kumar	Advances in Robotics and Machine Learning	Electronics and ICT Academy, NIT Patna	Self	NIT Patna (online)	10.02.2025 to 14.02.2025
4.	S Shiva Kumar	Power Electronics and Drives: Shaping the Future of Electric Vechicles	Electronics and ICT Academy, NIT Patna	Self	NIT Patna (online)	10.03.2025 to 16.03.2025
5.	SourabhPaitandi	INAE-INFOSYS CEEE mentoring program in Domain 2 (Electrical, Electronics and Instrumentation Engineering)	INAE and IIT Kharagpur	INAE and Infosys	IIT Kharagpur, Offline mode	16.06. 2025 to 27.06. 2025
6.	Mohammad Junaid Akhtar	Distributed Energy Resources: Transforming Grids with Renewable Technologies	National Institute of Technology Jamshedpur	National Institute of Technology Jamshedpur	NIT Jamshedpur (Online)	15.01.2025 to 19.01.2025
7.	Mohammad Junaid Akhtar	Cyber-Physical Systems & Control: Bridging the Gap to Future Technologies	Electronics and ICT Academy, NIT Patna	Ministry of Electronics and Information Technology (MeitY), Govt. of India	NIT Patna (online)	23.01.2025 to 31.01.2025

8.	Aftab Alam	Session Chair, International Conference on Power Electronic Converters for Transportation and Energy Applications -2025	IIT Bhubaneshwar	IIT Bhubaneshwar & IEEE	IIT Bhubaneshwar	18.06.2025 to 21.06.2025
9.	Sudhansu Kumar Mishra	Session Chair, 5th International Conference on Data Science and Applications (ICDSA-2024), TS 07: Models and Algorithms,	Malaviya National Institute of Technology,Jaipur, .	MNIT Jaipur	MNIT,Jaipur	17.07.2024 to 19.07.2024
10.	Sudhansu Kumar Mishra	Session Chair, A discussant for session at 23rd Annual Conference of Indian Association of Social Session Science Institute (IASSI),Technical Session 1.2,	BIT Mesra, Ranchi	BIT Mesra, Ranchi	BIT Mesra, Ranchi	25.10.2024 to 27.10.2024
11.	Sudhansu Kumar Mishra	Session Chair, A discussant for session at 23rd Annual Conference of Indian Association of Social Session Science Institute (IASSI), Technical Session 3.1,	BIT Mesra, Ranchi, 25-27 October 2024, Technical Session 3.1,	BIT Mesra, Ranchi	BIT Mesra, Ranchi	25.10.2024 to 27.10.2024
12.	Sudhansu Kumar Mishra	Session Chair, International Conference on Information Technology and Artificial Intelligence (ITAI 2025),	Gurugram University, Gurgaon, Haryana, India.	Gurugram University, Gurgaon, Haryana, India.	Gurugram University, Gurgaon, Haryana, India.	24.01.2025 to 25.01.2025,
13.	Sudhansu Kumar Mishra	Session Chair, Session chair / Judge during the 6th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2025)	Sardar Patel University, Mandi.	Sardar Patel University, Mandi.	Sardar Patel University, Mandi.	17.05.2025 to 18.05.2025

14.	Sudhansu Kumar Mishra	Session Chair, International Conference on Computer Vision and Robotics (CVR)	National Institute of Technology Goa, India.	National Institute of Technology Goa, India	National Institute of Technology Goa, India	25.04.2025 to 26.04.2025
15.	Sudhansu Kumar Mishra	Session Chair, 5th International Conference on Intelligent Vision and Computing (ICIVC 2025)	ICFAI, University, Dehradun.	ICFAI, University, Dehradun.	ICFAI, University, Dehradun.	13.06.2025 to 14.06.2025
16.	Sudhansu Kumar Mishra	Artificial Intelligence & its Dimension	BIT Mesra Ranchi	AICTE-VAANI	BIT Mesra Ranchi	9/08/2024 to 11/08/2024
17.	Sudhansu Kumar Mishra	Embedded DSP	BIT Mesra Ranchi	Tech Labs	BIT Mesra Ranchi	19/02/2024 to 22/02/2024
18.	Prateem Pan	Refresher Course: Cyber-Physical Systems: A New Era of Technology Integration	IIT Patna under Malaviya Mission Teacher Training Program of UGC	IIT Patna	IIT Patna (Online)	16.06.2025 to 28.06.2025
19.	Prateem Pan	Cyber-Physical Systems & Control: Bridging the Gap to Future Technologies	Electronics and ICT Academy, NIT Patna	Ministry of Electronics and Information Technology (MeitY), Govt. of India	NIT Patna (online)	23.01.2025 to 31.01.2025
20.	T. Ghose	Key note Speaker . Delivered lecture on Scopes and Challenges for Transforming the Power Grid Smarter	IIIT, Bhubaneswar	Ministry of Electronics and Information Technology (MeitY), Govt. of India		
21.		Overview of the Blockchain	EEE, BIT Mesra	ANRF		
22.	Vijaya Laxmi	Mastering UAV Design: From Concept to Creation (UAVDW-2024)	ECE, BIT, Mesra			22.07.2024-26.07.2024
23.	Vijaya Laxmi	Solar Vehicles: Design and Implementation (SVDI-2024)	IIT, Kanpur			23.09.2024-28.09.2024
24.	Vijaya Laxmi	Natural Language Processing for Conversational AI	CSE, BIT, Mesra			09.12.2024-13.12.2024

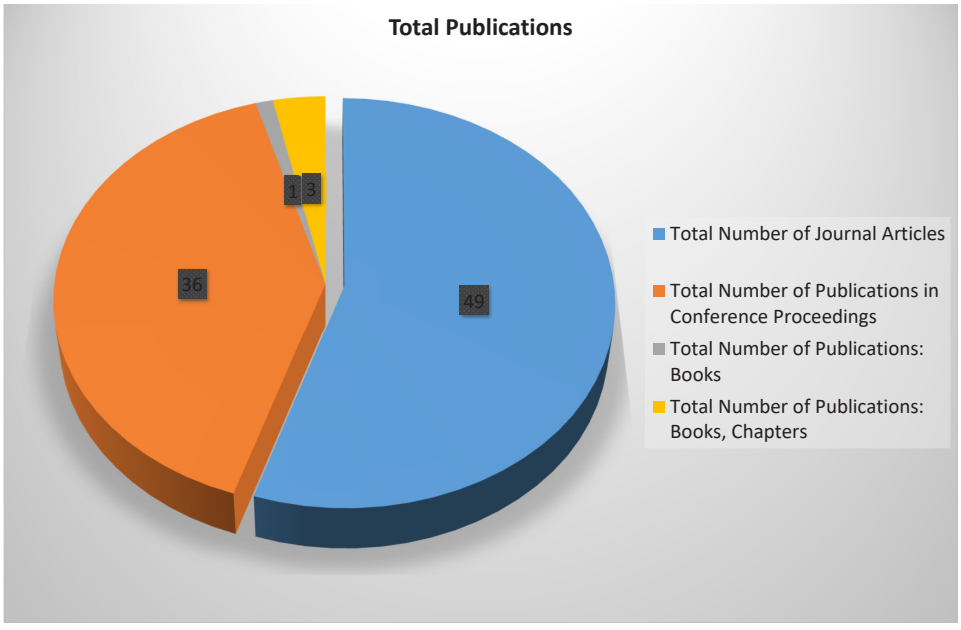
25.	Prem Prakash	One Day Faculty Development Workshop on"Know Yourself as a Teacher	BIT Mesra Ranchi	BIT Mesra Ranchi	BIT Mesra Ranchi	23.04.2025
26.	Prem Prakash	Journo Con - 24	BIT Mesra Ranchi	BIT Mesra Ranchi	BIT Mesra Ranchi	28.09.2024 to 29.09.2024

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S. No	Faculty's Name	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1.	Debomita Ghosh	3	3	0	0
2.	Sanjeev Kumar	2	1	0	0
3.	S Shiva Kumar	1	3	0	0
4.	Brij Mohan Prasad	0	1	0	0
5.	Chaman Lal Dewangan	0	1	0	0
6.	Mohammad Junaid Akhtar	0	2	0	0
7.	Deepak Kumar	9	3	0	0
8.	AftabAlam	3	3	0	0
9.	Subrat Kumar Swain	5	0	0	0
10.	GauriShanker Gupta	5	0	0	0
11.	Prateem Pan	2	1	0	0
12.	Sudhansu Kumar Mishra	10	7	1	3
13.	P.K Upadhyay	6	4	0	0
14.	Pankaj Mishra	2	4	0	0
15.	VijayaLaxmi	1	3	0	0
16.	SourabhPaitandi	0	0	0	0
17.	Sushma Kamlu	1	1	0	0
18.	T.Ghose	5	5	0	0
19.	Prem Prakash	0	0	0	0
20.	Surendra Kumar	0	0	0	0

SECTION 5		AWARD / PATENT / COLLABORATIONS



5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	DR. SUBRAT KUMAR SWAIN	Best PhD thesis Gold Award for the topic 'Shared Control for Intelligent Vehicles using Game Theory and Reinforcement Learning' at KPIT Shodh Awards 2025 in Pune, March 2025	K P I T Technologies Ltd.	International	2025
2.	DR. SANJEEV KUMAR	Best paper award at 1st International conference on Recent Innovations and Trends in Electrical & Electronics Engineering and Computing	NIT Patna	International	2025

5.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (Asapplicable)	Year	Applied/ Granted
1.	Birla Institute of Technology, Mesra, Mr. Sourav Kumar Sahu, Ms. Sonal, Dr. Debomita Ghosh, Dr.Dusmanta Kumar Mohanta	Method for Assessment of Hosting Capacity and Voltage Stability for Renewable Energy Integrated EV Charging Station	Application No. 202231065637	2024	Granted 29/10/2024
2.	Birla Institute of Technology, Mesra, Dr.Nilesh Kumar Rajalwal, Dr.Debomita Ghosh,	A Protection System for Securing Operation of a Distance Relay in an Electrical Power Transmission Network Method Thereof	Application No. 202531055970	2025	Filed 10/06/2025

3.	Dr. Debomita Ghosh, Ms. Divyangini Gyani, Dr. Tirthadip Ghose, Dr. Sonal, Dr. Saptak Bhattacherjee, Mr. Tapan Das	Agricultural Equipment Control Box	Application No: 446163-001	2025	Filed 30/01/2025
4.	Dr. Trishna Bal, Dr. Manik Ghosh, Dr. Debomita Ghosh, Mr. Vinamr Saksena	Device for Thermo-Conductivity Meter	Application No: 445470-001	2025	Filed 24/01/2025
5.	Birla Institute of Technology, Mesra, Dr. Sonal, Dr. Debomita Ghosh	A System for Managing a Software Development Lifecycle (SDLC), and Method Thereof	Application No. 202531049140	2025	Filed 21/05/2025
6.	Birla Institute of Technology, S Shiva; KUMARI, Niteesha; LAXMI, Vijaya; MISHRA, Sudhansu Kumar; SWAIN, Subrat Kumar and KOMMUKURI, Vinaya Sagar	A self-balanced single input multiple output (SIMO) DC–DC converter, and method of operations thereof	Indian Patent Application No. 202531035660	2025	Filed 14/04/25
7.	Birla Institute of Technology, Rohit Kumar, Prity Soni, Subrat Kumar Swain, Sudhansu Kumar Mishra, Pankaj Mishra, 6. Sarode Shiva Kumar	A wind farm integrated power generation system and method thereof	Indian Innovation Patent, Application Number: 202431072644	2024	Filed: 25/09/2024
8.	Ravinder Kumar, Tripurari Nath Gupta, Mahiraj Singh Rawat, Karan Veer, Jagannath Sethi, Vikash Kumar Gupta, Subrat Kumar Swain, Sudhansu Kumar Mishra	Autonomous Vehicle Fleet Management System for Logistics Optimization	Indian Innovation Patent, Application Number: 202411081908	2024	Published: 08/11/2024
9.	Abdullah Umar,Deepak Kumar,T. Ghose	A decentralized peer-to-peer energy trading system for a community microgrid and method thereof	Indian Process Patent Application No: 202431051818	2024	Published on 13/09/2024
10	R Debnath, G S Gupta, Deepak Kumar	A Model Predictive Control System for Inverter- Based Microgrid Operations, and Method Thereof	Indian Process Patent Application No: 202531002658	2025	Published on 17/01/2025
11.	Sinha, Suruchi, ALI, Nada, UMAR, Abdullah, Deepak Kumar	Virtual Inertia- Based Inverter Control Strategy for Voltage Unbalance Factor Mitigation in Standalone Microgrids	Indian Process Patent Application No:202531001954	2025	Filed on 08/01/2025
12.	ShimnaShafeek, Chetna Nagpal, Vidhya Koothupalakkal Viswambaran, P. K. Upadhyay	Electric Vehicle Trolley	Design No.: 450177-001 Date: 03/03/2025	2025	

13	Chetna Nagpal P.K.Upadhyay	EEG-Integrated Stress Monitoring Device	Design No.: 456265-001 23/04/2025	2025	
14.	MansiVerma, AartiTewari, SonamLata, Prabhat Kumar Upadhyay, ChetnaNagpalRashmi Panda	Breast cancer detection device using micro calcifications	Design No.: 438063-001 Date : 22/11/2024	2024	
15.	Chetna Nagpal, Prabhat Kumar Upadhyay, Vidhya Koothupalakkal Viswambaran, Deep Shekhar Acharya, Sudhansu Kumar Mishra,	Biometric sensors on steering wheel,	Design No.: 439404-001, Date : 03/12/2024	2024	
16	LAKHANI, Aparna Arunkumar Gautam and LAXMI, Vijaya	A multilevel inverter system with reduced switch configuration	Indian Patent Application No. 202531071131	2025	filed on July 25, 2025

SECTION 6 — Faculty Members

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1.	DR. SUDHANSU KR. MISHRA	Associate Prof. & Head	Control System	PhD in Engineering	01-12-2011
2.	DR. TIRTHADIP GHOSE	Professor	Power System	PhD in Engineering	19-06-1999
3.	DR. (MRS.) VIJAYA LAXMI	Professor	Control System	PhD in Engineering	01-07-2002
4.	DR. DEBOMITA GHOSH	Associate Professor	Power System	PhD in Engineering	08-07-2008
5.	DR. PREM PRAKASH	Assistant Professor	High Voltage Engeering /Power System	PhD in Engineering	03-11-2003
6.	DR. SURENDRA KUMAR	Assistant Professor	Control System	PhD in Engineering	19-07-1999
7.	DR. P.K. UPADHYAY	Assistant Professor	Control System	PhD in Technology	14-07-2003
8.	DR. DEEPAK KUAMR	Assistant Professor	Power System	PhD in Engineering	01-06-2015
9.	DR. PANKAJ MISHRA	Assistant Professor	Power System	PhD in Engineering	13-07-2009
10.	DR. AFTAB ALAM	Assistant Professor	Power Electronics	PhD in Engineering	29-06-2015
11.	DR. S. SHIVA KUMAR	Assistant Professor	Power Electronics	PhD in Engineering	04-10-2016
12.	DR. GAURI SHANKER GUPTA	Assistant Professor	Control System	PhD in Engineering	07-08-2008
13.	DR. SUSHMA S. KAMLU	Assistant Professor	Control System	PhD in Engineering	05-07-2007
14.	MR. B. M. PRASAD	Assistant Professor	Control System	M.E.	01-02-2008
15.	DR. SUBRAT KUMAR SWAIN	Assistant Professor	Control System	PhD in Engineering	16-04-2015
16.	DR. MD. JUNAID AKHTAR	Assistant Professor	Power Electronics	PhD in Engineering	17-08-2021
17	DR. SOURABH PAITANDI	Assistant Professor	Power Electronics	PhD in Engineering	24-05-2024
18.	DR. CHAMAN LAL DEBANGAN	Assistant Professor	Power System	PhD in Engineering	03-06-2024
19.	DR. SANJEEV KUMAR	Assistant Professor	Control System	PhD in Engineering	12.11.2024
20	DR. PRATEEM PAN	Assistant Professor	Power System	PhD in Engineering	18-12-2024

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	DR. SUDHANSU KR. MISHRA	Associate Professor	Chairman, Ex-officio
2.	DR. TIRTHADIP GHOSE, EEE	Professor	Internal Member
3.	DR. (MRS.) VIJAYA LAXMI, EEE	Professor	Internal Member
4.	DR. DEBOMITA GHOSH, EEE	Associate Professor	Internal Member
5.	DR. PREM PRAKASH, EEE	Assistant Professor	Internal Member
6.	DR. DEEPAK KUAMR, EEE	Assistant Professor	Internal Member
7.	DR. S.S. SOLANKI, ECE	Professor	Internal Member
8.	DR. PIYUSH KUMAR OJHA, I/c EEE, Deoghar Campus	Assistant Professor	Internal Member
9.	DR. KUMAR NIKHIL, I/c EEE, PATNA CAMPUS	Assistant Professor	Internal Member
10.	DR. P.S. RATHOR, I/c EEE, JAIPUR CAMPUS	Assistant Professor	Internal Member
11	MR. SAURABH PANDEY,	BTECH/10580/22, UG STUDENT	Internal Member
	External Member		
1.	DR. ANUP KUMAR PANDA	PROFESSOR, NIT ROURKELA	External Member
2.	MR. DEEPAK KUMAR	GM, ELECTRICAL, MECON LTD. RANCHI	External Member
3.	PROF. AMITAVA CHATTERJEE	PROFESSOR, EE JADAVPUR UNIVERSITY	External Member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Student	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Lucky kumar	PCB for e-ATV	Saurabh Pandey		01.05.2025
2.	Lucky kumar	BMS for 3S1P Lithium ion cell	Atul Tiwari		01.02.2025
3.	Nakka Kiran Siva Koushik	predicting age of solar panel using ML algorithms		Dr. S Shiva Kumar	01.08.2025
4.	Nakka Kiran Siva Koushik	Speech Recognition using Natural Language Processing		Dr.Vijayalaxmi	06.08.2025
5.	Piyush Ranjan	BMS with active balancing for 3S1P Battery Pack	Atul Tiwari, Saurabh Pandey	Dr. S Shiva Kumar	05.12.2024
6.	Piyush Ranjan	PCB designing for LV system of E-ATV	Saurabh Pandey	Dr. S.S. Tripathy	
7.	Kunal Das	Smart Home Automation	Sarthiltankar	Dr. S Shiva Kumar	26.06.2025
8.	Subham Sinha	I2C protocol hardware modelling	Sarthiltankar	Dr. S Shiva Kumar	05.12.2024
9.	Vasundhra Arya	Grid connected DC-AC converter	Atul Tiwari, Sarthiltankar	Dr. S Shiva Kumar	25.05.2025
10.	Vasundhra Arya	BMS for 3S1P	Atul Tiwari, Sarthiltankar	Dr. S Shiva Kumar	10.04.2024

11.	Vasundhra Arya	internship- CCL (IOT)			04.12.2024, 4 weeks
12.	Snigddhadebnath	Smart home automation (acdimmer ckt)	SarthiItnakar	Dr. S Shiva Kumar	20.05.2025
13.	Snigddhadebnath	BMS 3s1p	Atul Tiwari	Dr. S Shiva Kumar	5.12.2024
14.	Snigddhadebnath	CCL internship			3.12.2024, 1 month
15.	Shyam kumar	summer project program	Shivamkumar	Dr. S Shiva Kumar	14.12.2024
16.	Aryan Singh	Smart Home Automation	SarthiItankar	Dr. S Shiva Kumar	26.06.2025
17.	Ketan Sagar	Grid connected DC-AC converter	Atul Tiwari, SarthiItankar	Dr. S Shiva Kumar	25.05.2025
18.	Abhijay Pansari	Internship at YES SECURITIES			2 months
19.	Tushar Kumar	Internship at NTPC BARH			1 month
20.	Arooshi Prasad	Grid connected DC-AC converter	Atul Tiwari, SarthiItankar	Dr. S Shiva Kumar	
21.	Prashant Singh	Internship at Emergexiansinfotech			3 months (may-july)
22.	Adarsh	Internship at SAIL INDIA			1 month
23.	Adarsh	Internship at Indian Railways			2 month
24.	Shubhojitsarkar	Devweek:- three phase inverter in Simulink	Atul Tiwari, SarthiItankar	Dr. S Shiva Kumar	09.10.2024 to16.10.2024
25	Abhash Ekka	Chat Application SMP 2025	Aryan Tiwari	Dr. S Shiva Kumar	26.6.2025
26	Ramesh Tudu	Chat Application SMP 2025	Aryan Tiwari	Dr. S Shiva Kumar	26.6.2025
27	Chandraveer Kumar	SMP:- smart home automation(ac dimmer ckt)	SarthiItankar, Atul Tiwari	Dr. S Shiva Kumar	01.06.25 -5.08.25
28	AnshuPriya	SMP 2025 - Smart Home Automation	SarthiItankar	Dr. S Shiva Kumar	26.6.2025
29	Atul Harsh	Analytical Design of single phase induction motor for ceiling fan application		Dr.Junaid Akhtar	23/06/2025-25/07/2025

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Akash Kumar Tiwary	Top 25 Fastest Coder - Amazon HackON 2025	Amazon India	6/1/2025 (June 2025)	Online
2	Shyamkumar	Code for bharat finalist	code for bharat	6/1/2025 (June 2025)	Online
3	Saurabh Pandey	Winner in innovation	E-BAJA SAEINDIA	3/1/2025 (March 2025)	Offline
4	Soham Nag	1st in Student Project Programme(Software)	EEESOC	1/25/2025 (January 2025)	Online
5	SARTHI ITANKAR	Qualified for 2nd round of E-yantra Robotics Compitition	E-yantra	1/1/2025 (January 2025)	Online

6	Unnati Vishisht	4th in Grand Finale of NBC Idea factory	NBC	5/21/2025 (May 2025)	Jaipur

SECTION 8		OUTREACH ACTIVITIES

8.1 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Eastern Regional Load Despatch Centre, Grid Controller of India Limited, Govt. of India	R&D Project on Test bench development for investigating the performance of battery energy storage as ancillary services	2023-2025
2.	L&TTS MoU	Development of EV Lab	2025-2027

8.2 Industry Connect

- MEGATHER INDUCTION Ltd has partnered with the Department of EEE on an ANRF-sponsored project with PI as Dr. Aftab Alam and Dr. S. Shiva Kumar. This partnership will enable high-power density converter designs for EV applications and other related power electronics-based application areas.

SECTION 9		INFRASTRUCTURE DEVELOPMENT

8.1 New Facilities Upgradation

- An MoU was signed on 21 May 2025 between L&T T S and BIT, Mesra. The purpose of this MoU was to set up the Electric Vehicle Lab in the Department of Electrical and Electronics Engineering of BIT, Mesra. Under this MoU, a total of 97 Lakhs Rs has been committed by L&TTS through CSR funding over a period of two years. Currently, procurement of an experimental platform for EV chassis and lab infrastructure development is underway. This will also add computationally powerful workstations for high-fidelity simulation and motor design applications. This lab will be developing enabling technologies for EV applications and automated navigation. A battery-cycler will also be installed for enabling improved Battery Management System (BMS) design. This will help the upcoming EV lab to become a one-stop solution for all EV technological verticals.

8.2 IT Upgrades

- As part of the recent IT infrastructure enhancement:

  40 new HP i7 generation computers have been installed in the DSP Lab to support student academic activities. With this addition, the total number of computers in the lab has increased to 100. Additionally, three new UPS units have been procured to ensure uninterrupted power supply in the laboratories: 1 unit of 3 KVA UPS and 2 units of 5 KVA UPS.

SECTION 10		FUTURE PLANS (2025-26)

- Development of Smart Electric Mobility Research Lab
- Development of Industry – Institute Consortia

Department of Electronics & Communication Engineering

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department

The Department of Electronics and Communication Engineering at BIT Mesra boasts a rich history, having been established in 1960. Since its inception, the department has undergone remarkable growth in various aspects, including student and faculty numbers, infrastructure development, and learning resources. As one of the largest departments within the institute, it proudly holds the distinction of having the highest student and faculty enrolment.

Committed to delivering excellence in education and research, the department maintains a focus on continually enhancing its offerings. With nineteen state-of-the-art UG and PG laboratories equipped with cutting-edge experimental setups and resources, students have access to hands-on learning experiences that complement their theoretical knowledge.

At the core of the department's mission is the provision of high-quality education and the pursuit of groundbreaking research. Research endeavours span diverse areas such as Communication Engineering, Instrumentation, Wireless Communication, Microwave Engineering, Signal Processing, and VLSI Design. Faculty members actively engage in research projects, often securing funding from prestigious organizations like ISRO, DST, among others.

The department's curriculum reflects its commitment to excellence, aligning with industry demands and fostering a conducive environment for innovation. Whether students are pursuing B.Tech., M.Tech., or Ph.D. degrees, they benefit from a curriculum designed to equip them with the skills and knowledge necessary to excel in their chosen fields.

Recognizing its contributions and potential, the Department of ECE has earned sponsorship from FIST-DST and support from SAP (Special Assistance Programme) through UGC.

1.2 Vision & Mission

- Vision:

  To become a centre of excellence in teaching and research for creating technical manpower to meet the technological, societal and environmental needs of the country in the field of Electronics and Communication Engineering.

- Mission:

  1. To offer state of the art education of global standards through innovative methods of teaching and learning with practical orientation aiming to prepare the students for successful career and to provide required technological services.
  2. To prepare the students to think independently, take initiative, lead a team in an organization, take responsibility and solve the problems related to industry, society, environmental, health, safety, legal and cultural issues maintaining the professional ethics.

3. To pursue high quality contemporary research through continued interaction with research organizations and industries.

1.3 Key Achievements

- Student Achievements:

  Highest Package: 3723000 to Honey Pradhan (BTECH/10168/21) Google India Pvt Ltd

  i. Average Package: 11.5 Lac

1. Faculty Achievement:

A. Winner Team (Dr. Richa Mishra, Dr. Neela Chattoraj, Dr. Vinod Belwanshi, Sachin Kr. Singh, Rahul Kr. Singh), Ministry of Electronics and Information Technology, India Semiconductor Mission and IISc Bangalore sponsored INUP Hackathon 2025, Topic: SOI-MEMS Hackathon: Pioneering Innovations in Microelectromechanical Systems, Project – Development of MEMS Pressure Sensors Intended for Subsonic Wind Tunnel Applications, 2025

B. 1st Prize, Research Project Poster Exhibition & Presentation for SERB POWER project (2022-2025) titled “Scalable assembly of Painless Hollow Microneedle Array”, National Technology Day-25, 7th & 8th May 2025, Birla Institute of Technology, Mesra awarded to Research Scholar-Sachin Kumar Singh, Supervisor - Dr. Richa Mishra

C. 1st position in Oral Presentation Award, "Hollow Microneedle Mediated Painless Drug Delivery, 4th Research Colloquium, BIT Mesra, 15th-17th July 2024, awarded to Research Scholar-Sachin Kumar Singh, Supervisor - Dr. Richa Mishra

4. Overall Department Achievement:

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Tech in Electronics and Communication Engineering	4 years	180	The Department equips undergraduates with core and advanced knowledge in Electronics and Communication, offering subjects like VLSI, DSP, Satellite and Fibre Optic Communication. Computer-related courses are also included. The curriculum is regularly updated to reflect national and global technological advancements.
2	M. Tech in Electronics and Communication Engineering (specializing in i. Instrumentation Engineering ii. Microwave Engineering iii. Wireless Communication iv. VLSI Design and Embedded System)	2 years	30	The students are exposed to some of the specialized software tools such as Cadence design tools, IE3D, Microwave Office, Sonnet, Fidelity, Beampro, SystemView and NS-2 etc apart from various other software tools like LABView and MATLAB.

3	PhD in Electronics and Communication Engineering		Currently around 50 scholars are registered in the department as full time or part time PhD scholars.	Students get exposed to all the labs and facilities mentioned above, they can also work in the several R&D projects from various agencies like UGC, DST, AICTE, ISRO etc.

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Chanchala Kumari PhD/EC/10051/2019	Design, Analysis and Development of Tapered Slot Antennas for Wireless Applications	Dr. Neela Chattoraj	11/07/2024
2	Rakesh Kumar Chandan PhD/EC/10002/2018	Study of Some Wideband Feeding Mechanisms and Functional High Gain Low Side Lobe Level Millimeter Wave Antenna Arrays and Characteristic Modal Analysis Final	Dr. Srikanta Pal	12/07/2024
3	Amit Kumar Singh PhD/EC/10005/19	Development of Millimeter-Wave Microstrip to Folded Substrate Integrated Waveguide Transition Based MIMO Antenna for 5G Application	Dr. Srikanta Pal	16/10/2024
4	Sukanta Kumar Dash PHD/EC/10054/20	Predominant Instrument Recognition in Polyphonic Music Using Deep Convolutional Neural Networks	Dr. S. S. Solanki (Guide) Dr. Soubhik Chakraborty (Co-guide)	18/11/2024
5	Ravi Chandra PhD/EC/10054/2017	Design, Analysis, and Development of Dielectric Resonator MIMO Antennas for Wireless Communication Systems	Dr. Dileep Kumar Upadhyay	04/02/2025
6	Pammi Kumari PhD/EC/10003/2019	Detection of Retinal Diseases from Fundus Images Using Deep Learning Techniques	Dr. Priyank Saxena	03/03/2025
7	Prem Nath Suman PHD/EC/10001/2020	Design, Analysis and Development of Reconfigurable Microstrip Patch Antennas for Wireless Communication	Dr. Gajendra Kant Mishra	04/04/2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Combating the Cyber Mirage : The Advanced Research in Misinformation, Deepfakes and AI Generated Fakes	Dr. Vijay Nath	Cyber Peace Foundation, New Delhi	22.11.2024	3450000.00	One Year

2	Functional Assessment and Geotagging of Water Supply and Sanitation Systems of Villages and Schools Under Jal Jeewan Mission	Vishal H Shah	Asha & SAjjan Foundation	02.07.2025	1556000	One Year
3	Design and Development of Solar power intelligent Scare crow for Bird and animal Removal	Dr. S.S. Tripathy	JCSTI Ranchi	29/05/2025	635000	Three Year
4	Design and Development of a Water Hyacinth Fiber Extraction System	Dr. S.S. Tripathy	Asha & SAjjan Foundation	02/07/2025	1540000	2 Year

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	CombatingtheCyberMirage : The Advanced Research in Misinformation, Deepfakes and AI Generated Fakes	Dr. Vijay Nath	Cyber Peace Foundation, New Delhi	22.11.2024	3450000.00	One Year
2	Mitigation of Electromagnetic Interference and Electromagnetic Compatibility Issues in Wearable IoT Devices.	Dr. Nisha Gupta	DST, SERB under DST Power	26.09.2022	23.2166	Three years
3	Setting up 5G use case lab	PI: Dr. Sanjay Kumar Co-PIs: Dr. Sanjeet Kumar, Dr. Gajendra Kant Mishra Members: Dr. Neela Chattoraj Dr. Sitanshu Sekhar Sahu Dr. Dileep Kumar Upadhyay Dr. Priyank Saxena Dr. K.K. Senapati (CSE) Dr. Deepak Kumar (EEE)	Department of Telecommunications (DoT). Govt of India	Dec 2023	72 Lakh	Four Years
4	AI enabled MEMS based Sensors Fabrication and Characterization Facility (AMSFCF), DST FIST Program 2022 (2023-28)	PI - HoD ECE, Dr/ Sanjay Kumar Co PIs - Prof. S.S. Solanki, Dr. N. Chattoraj, Dr. S.S. Sahu, Dr. S.S.Tripathy, Dr. K. Mahto, Dr. P. Saxena, Dr. Richa Mishra, Dr. V.K.S. Yadav (IIT BHU)	DST	2023	178L	Five years

5	Scalable assembly of Painless Hollow Microneedle Array", 2022-25	Dr. Richa Mishra	SERB	2022	29.1L	3 years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	High Speed Two Photon Polymerisation based Fabrication of Hollow Microneedles	Dr. Richa Msihra	BIT Mesra	2022	5L	2024
2	Big Data Analysis of 5G network based Autonomous Drone Swarm system: A prototype	Dr. Sanjeet Kumar	IDEAS, Technology Innovation Hub@ ISI, Kolkata	2022	14.40 Lacs	2025
3	Design and development of AI based wearable device(neck band) for dementia care	Dr. S.S. Tripathy	IDEAS, Technology Innovation Hub@ ISI, Kolkata	2022	6.0 Lakh	2025

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status
1	Development of a fire announcement system for mining applications.&quot	MIMEC Electronics Pvt. Ltd., Ranchi.	August 23 - March 25	2.0	Dr. Priyank Saxena	Completed
2	Development of a prototype for Obstacle Detection near the specified zone around the railway tracks	Specialty Products & Servives (India), LLP, Jamshedpur	Jan 25- September 25	4.0	Dr. Priyank Saxena & Dr. S. S. Tripathy	Ongoing
3	Development of an HDMI-Based GUI for Real-Time Fire Alarm Generation	MIMEC Electronics Pvt. Ltd., Ranchi.	April 25 - October 25	3.0	Dr. Priyank Saxena	Ongoing
4.	Development of Range Extender (Repeater) for walkie-Talkie communication system	MIMEC Electronics Pvt. Ltd., Ranchi.	August 23 - Dec'25	2.0	Dr. Gajendra Kant Mishra	Ongoing

(e) CSR Funded Project

Sr. No.	Title	Funding Agency	Duration	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status
1	Functional Assessment and Geotagging of Water Supply and Sanitation Systems of Villages and Schools Under Jal Jeewan Mission	Asha & SAjjan Foundation	02/07/2025	1556000	Mr. Vishal H. Shah (Co-PI)	ongoing
2	Design and Development of a Water Hyacinth Fiber Extraction System	Asha & Sajjan Foundation	02/07/2025	1540000	Dr. S.S. Tripathi (PI)	Ongoing

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode
1.	Digital System Design with VHDL & Verilog (Remedial Classes)	Dr. Vijay Nath	BIT Mesra	22nd January 2025 to 31st January 2025	Hybrid Mode
2	A one-week workshop entitled "Mastering UAV Design: From Concept to Creation (UAVDW-2024)"	Dr. Priyank Saxena	Specialty Products & Services (India), LLP, Jamshedpur in addition to the fund generated from the attendees.	July 22nd to July 26th, 2024.	Offline
3	A two-day workshop on "Microcontroller-Based Development Board: An Insight into Prototyping and Automation"	Dr. Priyank Saxena	BIT Mesra	November 30th to December 1st, 2024.	Offline
4	SERB Sponsored 2 Day High-End Workshop on MEMS based Scalable Healthcare Technologies on 1st and 2nd August 2024 under SERB POWER project titled “Scalable Assembly of Hollow Microneedle array”	Dr. Richa Mishra	SERB and BIT Mesra	1st - 2nd August, 2024	Offline
5	TEcha-Thon	Dr. S.S. Tripathy	BIT Mesra	15July to 15 August	Hybrid

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1.	Dr. Aminul Islam	National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions.	Jointly conducted by Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	NA	Online	06 March 2025
2.	Dr. Vijay Nath	Two-Day Workshop on Rocket Technologies	Department of Space Engg. & Rocketry Birla Institute of Technology, Mesra, Ranchi	NA	CAT Hall BIT Mesra	1st May 2025 to 2nd May 2025

3.	Dr Anusha Vupputuri	Advancing Medical Applications with Generative AI: Challenges and Prospects (AMAGA-2025)	National Institute of Technology, Rourkela	BIT	Online	24 Feb to 28 Feb, 2025
4.	Dr.Neela Chattoraj as a key note speaker	National Seminar on "5G and Beyond: Revolutionizing Communication and Networking"	,ICFAI University Ranchi Jharkhand	NA	ICFAI University Ranchi Jharkhand	20th May -21st May 2025
5	Dr. Neela Chattoraj ,As a speaker	Day High-End Workshop on MEMS based Scalable Healthcare Technologies	SERB	BITMESRA	BITMESRA	1st-2ndAugust, 2024(SERB POWER) national
6.	Dr. Sanjeet Kumar	INAE-INFOSYS CEEE mentoring program in Domain 2 (Electrical, Electronics and Instrumentation Engineering) held at Indian Institute of Technology Bombay	CEEE Program INAE - Infosys	INAE - Infosys	IIT Bombay	2nd June to 13th June 2025
7.	Dr Sanjay Kumar	2 days discipline-wise Annual Convention	Bureau of Indian Standards, Government of India	Bureau of Indian Standards, Government of India	Mahabalipuram, Tamil Nadu	27-28 Sep, 2024
8.	Dr. Kartik Mahto	6 days workshop on Implementing AI driven Solutions in Engineering and Technology	EICT, IIT ROORKEE	NA	Online	23-28 September 2024
9.	Dr. Megha Dadel	One week FDP on "Drone and IOT Technology for GIS and Smart Farming Applications" jointly organized by Electronics and ICT Academy, NIT Patna and BIT Mesra Patna Campus	Electronics and ICT Academy, NIT Patna and BIT Mesra Patna Campus under the "Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)" by the Ministry of Electronics and Information Technology (MeitY), GoI.	NA	Online	02nd June - 06th June, 2025.
10.	Dr. Prajna Parimita Dash	One Day Faculty Development Workshop on "Know Yourself as a Teacher (K YaaT)"	Value Education Cell (VEC) and institution's Innovation Council (IIC). Birla Institute of Technology, Mesra, Ranchi	BIT Mesra	BIT Mesra	23rd April 2025.

11.	Dr. Prajna Parimita Dash	AICTE-WAANI sponsored Three Daya Seminar 1. On "Artificial Intelligence & its Dimension" from	BIT, Mesra	AICTE	Online	9th to 11th August 2024.
12.	Dr. Prajna Parimita Dash	6-days Online Short Term Programme on Future of Semiconductor Device with Neuromorphic Computing	Malaviya Mission Teacher Training Center at the Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai	Ministry of Education, Govt of India	Online	6-11 January, 2025
13.	Dr. MD Afaque Azam	1 day Webinar on Science Narrative Twisted Radio Waves	BIT Mesra	NA	CAT Hall, Mesra.	Mar 10, 2025
14.	Dr. MD Afaque Azam	12 days FDP on Advanced Optimization Techniques using MATLAB	MeitY	NA	Online	Feb 17-28, 2025
15.	Dr. MD Afaque Azam	10 days FDP on Current Advancements in Artificial Intelligence, Machine Learning, and Data Science	MeitY	NA	Online	June 16-25, 2025
16.	Dr. Dileep Kumar Upadhyay	Two weeks Faculty Development Program on "Semiconductor Devices Circuits & Sensor: Applications & Research Perspective	Jointly organized by Electronics and ICT Academy, NIT Patna, IIITDM Jabalpur, MNIT Jaipur, IIT Kanpur and IIT Roorkee	BIT, Mesra (Refund to be initiated)	Online	09th June, 2025 - 20th June, 2025
17.	Dr. MD Afaque Azam	Seminar on Aerospace technologies in defense sector-An Overview	Systems and Engg. Panel, ARDB, DRDO and BIT Mesra	NA	CAT Hall, BIT Mesra	Nov 28, 2024
18.	Dr. S. K. Dash	Faculty Development Program (FDP) on Signal Processing Algorithms and Applications: Bridging IoT, AI, and Edge Computing	Electronics & ICT Academy (Hub), NIT Warangal in association with E&ICT Academy (Spoke), NIT Raipur, Raipur–492010, Chhattisgarh & MIT Academy of Engineering, Alandi, Pune - 412 105, Maharashtra (India) Sponsored by Ministry of Electronics and Information Technology (MeitY), GoI	Self	Online	(26th May – 04th June 2025)

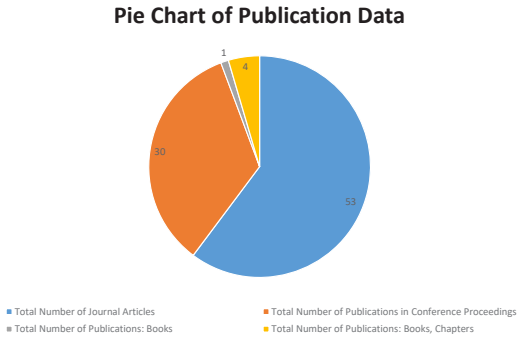
19.	Dr.Richa Mishra	INAE-INFOSYS CEEE mentoring program in Domain 2 (Electrical, Electronics and Instrumentation Engineering) held at Indian Institute of Technology Kharagpur	INAE - Infosys	NA	Online	16-Jun-2025 to 27-Jun-2025
20.	Dr. Deepti Gola	6-days Online Short Term Programme on Future of Semiconductor Device with Neuromorphic Computing	organized by the Malaviya Mission Teacher Training Center at the Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai	NA	Online	January 6-11, 2025.
21.	Dr. Deepti Gola	FDP on Semiconductor Devices and Circuits: Research Trends and Applications	E&ICT NIT Warangal and Dept. of ECE NIT Warangal	Sponsored by Ministry of Electronics and Information Technology (MeitY) GOI	Online	8-17 November 2024
22.	Dr. Deepti Gola	GIAN course on "Memristor and its Applications in Neuromorphic Computations"	Department of Electronics Engineering, Indian Institute of Technology (ISM) Dhanbad	Global Initiative of Academic Network (GIAN) programme of MHRD, Government of India.	Online	June 23-27, 2025
23.	Dr. Santashraya Prasad	FDP on “Next-Generation Semiconductor Technology Advancement, Research and Applications”	Dept. of Electrical Engineering National Institute of Technology Patna in association with Electronics & ICT Academy.	Self	Online	23rd - 27th June 2025
24.	Mr. Vishal H Shah	2 days discipline-wise Annual Convention	Bureau of Indian Standards, Government of India	Bureau of Indian Standards, Government of India	Mahabalipuram, Tamil Nadu	27-28 Sep, 2024
25.	Dr. S.S. Tripathy	AICTE-WAANI sponsored Three Daya Seminar 1. On "Artificial Intelligence & its Dimension" from	BIT, Mesra	AICTE	Online	9th to 11th August 2024.

26.	Dr. Vijay Nath,	Chief Guest in 6 days FDP in Startup in VLSI Design, Embedded System & Computational Intelligence	IIC PRSU, SoS in Electronics & Photonics, IRETM, Pt. Ravi Shankar Shukla University Raipur, ISVE Ranchi in Collaboration with E&ICT Academy PDPM IIITDM Jabalpur on	MHRD New Delhi	Pt. Ravi Shankar Shukla University Raipur,	17-22 February 2025
27.	Dr. Vijay Nath,	Resource Person in 6 days FDP in Startup in VLSI Design, Embedded System & Computational Intelligence	IIC PRSU, SoS in Electronics & Photonics, IRETM, Pt. Ravi Shankar Shukla University Raipur, ISVE Ranchi in Collaboration with E&ICT Academy PDPM IIITDM Jabalpur on	MHRD New Delhi	Pt. Ravi Shankar Shukla University Raipur	17-22 February 2025
28.	Dr. Vijay Nath	Delivered expert talk on Chip Design and Role of India Semiconductor Mission in Biksit Bharat-2047	GNOIT, Greater Noida, India	NA	Online	23rd May 2025
29.	Dr. Vijay Nath	Delivered expert talk on Startups in VLSI, Embedded and Computation techniques	Dr.D.Y. Patil Institute of Technology Pimpri Pune	Dr.D.Y. Patil Institute of Technology Pimpri Pune	Online	20th Feb 2025
30.	Dr. Vijay Nath	Program Coordinator Webinar A La Carte Webinar on Science narratives of Twisted Radio Waves Delivered by Prof. Srikanta Pal	ECE BIT Mesra	ECE BIT Mesra	ECE BIT Mesra	10th March 2025
31,	Dr. Sandeep Mukherjee	One Day Faculty Development Workshop on "Know Yourself as a Teacher (K YaaT)"	Value Education Cell (VEC) and institution's Innovation Council (IIC). Birla Institute of Technology, Mesra, Ranchi	BIT Mesra	BIT Mesra	23rd April 2025.
32.	Dr.Sandeep Mukherjee	NPTEL Course on Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning (AICTE approved FDP)	IIT Kanpur	Swayam/IIT Kanpur	Online	July-October 2024

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	53	30	01	04



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Vinod Belwanshi, Neela Chattoraj, Richa Mishra	Ist prize INUP Hackathon 2025 (IISc Bangalore INUP Hackathon 2025)	Ministry of Electronics and Information Technology, India Semiconductor Mission and IISc Bangalore sponsored INUP Hackathon 2025	National	April 2025
2	Himadri Nirjhar Mandal and Soumya Sidhishwari	Best Paper Award	IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT 2024), at ABV-Indian Institute of Information Technology and Management (IIITM) Gwalior, Madhya Pradesh, India.	International	7th – 8th Dec., 2024
3	Sanjeet Kumar	Best Paper Presenter Award	27th International Symposium on Wireless Personal Multimedia Communications (WPMC), Greater Noida, India, 2024	International	Oct. 2024

5.6 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Applied/ Granted	Short Description about the Patent

1.	R. Chandra, N. Gupta, and I. Snigdh	A chipless RFID tag, and method of fabrication thereof	202531059678	2025	Applied	A cost-effective chipless electromagnetically compatible RFID Tag is proposed having a seven segment tag architecture to offer 128 IDs.
2	Dr. Aminul Islam, Shashank Kumar Dubey, Meena Mishra	A High Electron Mobility Transistor and A Method of Manufacturing Thereof	Application No. 202211070869, applied on 08/12/2022	2024	published on 14/06/2024	This study analyzes $Al_{0.30}Ga_{0.70}N$/GaN HEMTs with T-shaped gates for RF use, showing strong DC, RF, and noise performance. Simulations yield IDMAX of 808 mA/mm, fT of 100 GHz, and fMAX of 147 GHz. Noise parameters suit low-noise applications across 10–100 GHz, verified via Silvaco TCAD
3.	Dr. Vibha Rani Gupta and Turio Sinha	Multibeam High-Gain Substrate Integrated Waveguide (SIW) Microstrip Patch Antenna For 5G FR2 Communication	202431103558	2024	Published	An antenna with multibeam and high gain is designed for the 5G FR2 Communication
4.	Dr. S. Pratap Singh, Urvashi Chugh, Amit Kumar, M. Raghevendra Jaiswal,. Ankush Kansal, Kulbir Singh and. Sanjay Kumar	AI-Powered Human Gait Monitoring System Using Vibrational Signals	202511021604	2025	Published	This indian patent is about the development of AI-Powered Human Gait Monitoring System which will use Vibrational Signals for implementation
5.	Dr. S. Pratap Singh, Urvashi Chugh, Amit Kumar, Mr. Raghevendra Jaiswal, Ankush Kansal, Kulbir Singh and Sanjay Kumar	A Vibro Detection & Identification Real-Time Security System	202511012407	2025	Published	This indian patent will develops a method for Detection & Identification Real-Time security system.
6.	Dr. Sashi Shankar, Dileep Kumar Upadhyay	A Frequency Reconfigurable Multiple-Input Multiple-Output (MIMO) Antenna System for Wireless Communication	202431091330	Nov. 2024	Published	The present invention relates to electronics and communication engineering, generally to radio frequency (RF) circuit design and microwave engineering. The invention relates to RF switchable/reconfigurable multiple-input multiple-output (MIMO) antenna system for 4G and 5G wireless communication engineering.

7.	Dr. Tuhin Mukherjee, Ashok Pattnaik, Sitanshu Sekhar Sahu	A Photo Biomodulation Device for Attenuating Obesity, and Method Thereof	564886	April 2025	Granted	RRM Guided Photo Biomodulation Device is Developed for Attenuating Obesity

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. Nisha Gupta	Professor	RF & Microwave	PhD	01.02.1999
2	Dr. S. Pal	Professor	RF and Micro Wave	PhD	15-04-2008
3	Dr. Vibha Rani Gupta	Professor	RF and MicroWave	PhD	7/1/2000
4	Dr. S.S. Solanki	Professor & Dean PGS	Instrumentation	PhD	21-08-2000
5.	Dr. Sanjay Kumar	Professor & Head	Wireless Communication	PhD	02-08-2003
6.	Dr. Aminul Islam	Professor	VLSI Design	PhD	01/11/2006
7.	Dr Neela Chattoraj	Associate Professor	RF & Microwave, MEMS	PhD	06/08/2001
8	Dr. Vijay Nath	Associate Professor	VLSI Design, Embedded System and Cyber Securities	PhD (VLSI Design and Embedded Systems)	14.07.2006
9.	Dr. S. S. Sahu	Associate Professor	Signal Processing	PhD	28-09-2011
10.	Dr. Kartik Mahto	Assistant Professor	Signal Processing	PhD	2/04/1997
11.	Vishal H Shah	Assistant Professor	Signal Processing	M.Tech	30.10.2006
12	Dr. Sanjeet Kumar	Assistant Professor	Wireless Communication	Ph.D	14/07/2003
13	Dr. S.S. Tripathy	Asst. Professor	AIML	PhD	14th July 2006
14.	Dr. Dileep Kumar Upadhyay	Assistant Professor	RF and Microwave	PhD	25th Aug. 2007
15.	Dr. Gajendra Kant Mishra	Assistant Professor	RF circuit design and Wireless Communication	PhD	14/07/2006
16.	Dr Somnath Sengupta	Assistant Professor	Fiber Optics & photonics	PhD	14.07.2006
17.	Dr. Priyank Saxena	Assistant Professor	Computer Vision, UAV, Embedded System	PhD	09-08-2007
18	Dr. S. K. Dash	Assistant Professor	Multimodal Signal Processing, AI and ML, Deep Learning	PhD	16 August 2004
19	Dr. Megha Dadel	Assistant Professor	RF & Microwave	PhD	08/06/2009
20	Dr. Prajna Parimita Dash	Assistant Professor	Signal and image processing, AIML	PhD	29.06. 2013
21.	Dr. Santashraya Prasad	Assistant Professor	Microelectronics and VLSI Design	PhD	1st November 2008

22.	Dr. Soumya Sidhishwari	Assistant Professor	Fiber Optics Sensors	PhD	1-04-2009
23.	Dr. Rupesh Kumar Sinha	Assistant Professor	Computer Vision, Signal Processing, Cyber Security	PhD	15.04.2008
24.	Dr. Kalyan Koley	Assistant Professor	VLSI Design	PhD	31/08/2021
25.	Dr. Richa Mishra	Assistant Professor	MEMS	PhD	15/09/2021
26.	Dr. Deepti Gola	Assistant Professor	Microelectronics and VLSI Design	PhD	6th Sep 2021
27.	Dr. Sandeep Mukherjee	Assistant Professor	Wireless Communication	PhD	19/03/2024
28.	Dr. MD Afaque Azam	Assistant Professor	Signal Processing, AI and Wireless	PhD	09/05/2024
29.	Dr Anusha Vupputuri	Assistant Professor	Signal Processing, AI/ML for Computer Vision	Ph. D.	07/06/2024

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others.

Sr. No.	Name	Designation	Affiliation
1.	Dr. S.S. Pathak	Visiting Professor	IIT Kharagpur

6.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr Sanjay Kumar	Professor & HoD, Dept. of ECE, BIT Mesra	Chairman
2.	Dr. Sandeep Singh Solanki	Professor, Dept. of ECE, BIT Mesra	Internal member
3.	Dr. S. K. Ghorai	Professor and Director, Dept. of ECE, BIT Deoghar	Internal member
4.	Dr. Nisha Gupta	Professor, Dept. of ECE, BIT Mesra	Internal member
5.	Dr. Vibha Rani Gupta	Professor, Dept. of ECE, BIT Mesra	Internal member
6.	Dr. Srikanta Pal	Professor, Dept. of ECE, BIT Mesra	Internal member
7	Dr. Vijay Nath	Associate Professor, Dept. of ECE, BIT Mesra	Internal member
8.	Dr. Kartik Mahto	Asst. Professor, Dept. of ECE, BIT Mesra	Internal member
9.	Dr Prajna Parimita Dash	Asst. Professor, Dept. of ECE, BIT Mesra	Member Secretary
10.	Dr. T. Ghosh	Professor, Dept. of EEE, BIT Mesra	Internal member
11.	Dr. Umesh Chandra Pati	Professor, NIT Rourkela	External member
12.	Dr. Bratin Ghosh (External member)	Professor IIT, Kharagpur	External member
13.	Dr. Goutam Saha (External member)	Professor IIT, Kharagpur	External member
14.	Dr. Brajesh Kumar Kaushik (External member)	Professor IIT, Roorkee	External member
15.	Dr. Nandita Dasgupta (External member)	Professor IIT, Madras	External member
16.	Dr. Suvra Sekhar Das (External member)	Associate Professor, IIT, Kharagpur	External member
17.	Mr. Sanjaya Nayak (External member)	CEO & MD Tejas Network	External member
18.	Mr. Subhas Basu (External member)	CEO Silicon Interfaces Pvt. Ltd.	External member
19.	Mr. Parikhit Dutta	Sr. RF Engineer Knowles Corporation, Bengaluru	External member
20.	Dr. Shahiruddin	Assistant Professor In charge, Dept. of ECE, BIT Patna	External member
21.	Dr. Sanjaya Kumar	Associate Professor In charge, Dept. of ECE, BIT Deoghar	External member
22.	Ankur Agarwal	Assistant Professor In charge, Dept. of ECE, BIT Jaipur	External member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
1.	Digital System Design with Verilog & VHDL (Remedial Classes for all BIT Academic Campuses)	Sannidhya Nikhat Anjum Manish Kumar Gupta	Dr. Vijay Nath	22.01.2025 to 31.01.2025
2	Techathon-3	ECE Society	Dr. S.S. Tripathy	15th July 2024-15th August 2014

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1.	Dr. Vimal Kumar Singh Yadav	IIT BHU	Department of ECE BIT Mesra	06.03.2025	

8.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Cyber Peace Foundation New Delhi & Birla Institute of Technology Mesra Ranchi	Combating the Cyber Mirage : The Advanced Research in Misinformation, Deepfakes and AI Generated Fakes	Nov 2024 to Nov 2025
2	Speciality Products & Services (SPS) (www.spsig.com), LLP	collaborative research on industrial problems and support student Internships.	July 26th, 2024
3	E-MoU with Garuda Aerospace Pvt. Ltd., Chennai	To establish a centre of excellence in Drone Technology.	July 12th, 2024

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- The following Labs have been renovated :1. VLSI Design Lab, 2. Circuit Simulation Lab, 3. Sensor Fabrication Lab, 4. 5G use Case Lab, 5. Advanced Instrumentation Lab, 6.

9.2 IT Upgrades

All Lab computer facilities are available in department for students in their respective mentors.

SECTION 10		FUTURE PLANS (2025-26)

- Department have adopted the New Education Policy NEP-2020 as per guidelines decided by the institute. Department is also planning to establish the CoE with industry and alumni support in the area of Drones and 5G use Case etc.

Department of Humanities and Social Sciences

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department

Birla Institute of Technology, Mesra, is an institution of excellence globally recognised for the academic calibre and versatility of its educational programmes. We take immense pride in the teaching and the research culture of the institute, which is guided by a scientific temper as well as an aspiration for creative autonomy in thought and action. The Department of Humanities and Social Sciences is a hub of literary, linguistic, cultural, and social exploration. One can immerse oneself in the power of language, literature, and the intricacies of human behaviour with our diverse offerings. Our department proudly provides robust programs in English and Culture Studies, French, German, Sociology, Psychology, Philosophy, and Creative and Performing Arts. Whether you are drawn to the beauty of literature, the nuances of multilingual communication, or the study of society and the human mind, we shall help carve the pathway for you. At HSS (Established in the year 2023), we believe in "sÄ vidyÄ yÄ vimuktaye", fostering intellectual growth, encouraging critical thinking, promoting empathy, and augmenting cultural understanding. Our dedicated faculty members bring passion and expertise to their respective disciplines, ensuring a vibrant and engaging learning experience.

1.2 Vision & Mission

- Vision: To become a nationally and internationally acknowledged center of excellence in Humanities and Social Sciences that encourages critical thinking, interdisciplinary research, and human-centered knowledge aligned with social, cultural, economic, and ecological requirements.
- Mission:
  1. To offer a comprehensive and inclusive education in humanities and social sciences that develops analytical thinking, ethical comprehension, communication abilities, and social responsibility.
  2. To encourage interdisciplinary and socially pertinent research that aids in policy development, innovation, and sustainable growth.
  3. To empower students and scholars to confront societal challenges through critical examination, creativity, and cultural understanding.
  4. To promote collaborations across various fields and with industries, government, and civil society for the progress of human and social development.
  5. To create an engaging academic environment that encourages lifelong learning, reflective teaching practices, and the professional development of both faculty and students.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	HS24131	3 hrs	900 approx. per semester	Communication Skills
2	HS24133	3 hrs	900 approx. per semester	Communication Skills (advanced level)
3	HS401	3 hrs	Open Elective	French Language Skills
4	HS403	3 hrs	Open Elective	French Language Skills II
5	HS405	3 hrs	Open Elective	German Language Skills
6	HS407	3 hrs	Open Elective	German Language Skills II
7	HS111	3 hrs	Open Elective	Indian Heritage Studies
8	HS113	3 hrs	Open Elective	Indian Heritage Studies II
9	HS415	3 hrs	PhD Coursework (English)	Popular Culture Theory

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency/ Collaboration	Date (DD. MM.YYYY)	Mode (Online/ Offline/ Hybrid)
1	Journocon 24		NAPS	28/09/2024 to 29/09/2024	Offline
2	Workplace Etiquette Workshop		T&P, Cambridge University Press and Assessment	28/09/2024 to 29/09/2024	Offline
3	Letter Writing Competition		Postal Department		Offline
4	Indian Association of Social Science Institutions Annual Conference		Department of Management and the Institute for Human Development, Eastern Regional Centre, Ranchi	25/10/2024 to 27/10/2024	Offline

5	One-Day Workshop on Nirvikalpa Manthan		Department of Architecture	05/02/2025	Offline
6	Zephyr- A Breeze of Tales, A Three-day storytelling international workshop		HSS	19/02/2025 to 21/02/2025	Offline
7	Bharat Mahotsav		Value Education Cell, BIT Mesra.		Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date (DD. MM.YYYY)
1	Mrinal K Pathak	38th AIU Inter University National Youth Festival 2024-25.	Association of Indian University and AMITY university	AIU	AMITY Noida	03/03/2025-07/03/2025
2	Mrinal K Pathak	विकसित भारत युवा संसद महोत्सव 2025 के राज्य स्तरीय कार्यक्रम मे निर्णायक मण्डल के सदस्य के रूप मे सहभागिता हेतु आमंत्रण पत्र।	Nehru Yuva Kednra Sangathan, Govt. of India	Ministry of Youth Affairs & Sports, Govt. of India	Old Vidhan Sabha, Ranchi	27/03/2025 to 28/03/2025
3	Mrinal K Pathak	NEP Orientation and Sensitization Programme	UGC-MMTTC	UGC -	UGC - Malviya Mission Teacher Training Centre (MMTTC) Ranchi University Morabadi Campus, Ranchi	05/08/2024
4	Mrinal K Pathak	Refresher Course IKS (Indian Knowledge System)	Ugc-Malaviya Mission Teacher Training Centre (Mmttc)	UGC	UGC - Malviya Mission Teacher Training Centre (MMTTC) Ranchi University Morabadi Campus, Ranchi	12/07/2025
5	Mrinal K Pathak	Faculty Development and Workshop Series Artistry in Action: A Faculty Development Series for Transforming Pedagogy and Performance	Parul University	Parul University	Parul University	26/05/2025
6	Mrinal K Pathak	28 days GURU DAKSHTA 23rd Faculty Induction Programme (FIP)	UGC	UGC	online	03/08/2024
7	Mrinal K Pathak	International workshop of Indian Knowledge system and Indian Art and culture	AM foundation Taipei, Taiwan	AM Welfare Foundation, Taiwan	YUJING District, Tainan, Taiwan	04/10/2024 to 15/10/2024

8	Ananya Saha	Comics as World Literature-International Conference	EFLU, Hyderabad	EFLU, Hyderabad	EFLU, Hyderabad	12/02/2025 to 14/02/2025
9	Ananya Saha	AAS Annual Conference	AAS Kathmandu, Nepal	AAS Kathmandu, Nepal	AAS Kathmandu, Nepal	01/06/2025 to 04/06/2025
10	Ananya Saha	Animal Studies Conference- Troy University (online)	Troy University (online)	Troy University (online)	Troy University (online)	13/03/2025 to 15/03/2025
11	Ananya Saha	IGCC/IBDS Annual Conference	Brussels University, Belgium (online)	Brussels University, Belgium (online)	Brussels University, Belgium (online)	27/06/2025 to 29/06/2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
	6	1		3

SECTION 6		Faculty Members

6.1 List of Faculties.

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr Dharmendra Kr Chand	Asst Prof	French Language and Literature	PhD	16/07/2010
2	Dr Rohit Kr Pandey	Asst Prof	Communication, Humanities	PhD	02/01/2002
3	Dr Shailendra Kr Singh	Asst Prof	German Language and Literature	PhD	16/07/2010
4	Dr Ananya Saha	Asst Prof	Literature and Culture Studies	PhD	11/03/2024
5	Mr Mrinal Pathak	Asst Prof	Creative Arts	MFA, MBA	19/08/2008

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1	HOD/In-charge	(Ex-Officio)	Chairman
2	Dr. Dharmendra Kumar Chand	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Mesra, Ranchi
3	Dr. Shailendra Kumar Singh	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Mesra, Ranchi
4	Dr. Ananya Saha	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Mesra, Ranchi
5	Mr. Mrinal Pathak, Assistant Professor	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Mesra, Ranchi
6	Dr. Suparna Dutta	Assoc. Prof	Internal Member Department of Management, BIT Noida
7	Dr. Ritu Pareek	Asst. Prof	Internal Member Department of Management, BIT Jaipur
8	Dr. Arya S.	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Mesra, (Lalpur)
9	Dr. Kankan Das	Asst. Prof	Internal Member Department of Humanities and Social Sciences, BIT Deoghar
10	Dr. Saheli Bose, Assistant Professor.	Asst. Prof	Allied Department Member Dept of Centre for Quantitative Economics and Data Science, BIT, Mesra.
11	Dr. Manju Bhagat, Professor,	Professor	Allied Department Member Department of Management, BIT, Mesra, Ranchi
12	Prof. Sushant Kumar Mishra, (French)	Professor	External Member Centre for French & Francophone Studies, School of Language, Literature and Culture Studies, JNU,
13	Prof. Vishnu Charan Mahato, (English)	Professor	External Member Department of English, Ranchi University
14	Dr. Preeti Bhatt, (English)	Assoc. Prof & Head	External Member Department of Humanities and Social Sciences, MNIT, Jaipur
15	Dr. Milind Brahme, (German)	Assoc. Prof	External Member Department of Humanities and Social Sciences, IIT, Madras

16	Dr. Jaya Sahi, (Creative & Performing Arts & Music)	Asst. Prof	External Member Professor & Head, Department of Performing Arts, CUJ, Ranchi
17	Prof. Manish Kumar Verma, (Sociology)	Professor and Head	External Member Department of Sociology, Babasaheb Bhimrao Ambedkar University, Lucknow
18	Dr. R.P. Singh	Dean of Humanities and Religious Studies	Guru Nanak Dev University, Amritsar
19	Prof. Tanusree Dutta, (Psychology)	Professor and Dean Academics	External Member Department of Organisation Behaviour & Human Resource, IIM Ranchi
20	Mrs. Tuhina David	Member from Industry	External Member Business Transformation Consultant, IBM

SECTION 7 — STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

(Please arrange in reverse chronological order: Latest first) (Period: 1st July 2024 - 30th June 2025)

Sr No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration (DD.MM.YYYY)
1	Zephyr- A Breeze of Tales, A Three-day storytelling international workshop	Deblina Bhattacharya, Atreyee Choubey	Mr Mrinal Pathak	19/02/2025 to 21/02/2025

SECTION 8 — OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date (DD.MM.YYYY)	Photos
1	Bharat Dash	Sri Sri University	HSS	19/02/2025 to 21/02/2025	

SECTION 10 — FUTURE PLANS (2025-26)

- More Open Elective Courses to be offered from SP 26
- Philosophy, Psychology, Sociology faculty members to join from MO 25.
- Departmental Conference is being planned in SP 26.

Department of Management Studies

SECTION 1		DEPARTMENTAL PROFILE

MBA 2023-2025 Batch Photography

About the Department

1.1 About the Department

The Department of Management was established in the year 1979 with the aim of serving the growing need for qualified professionals who could harness the resources of the country to achieve its development goals. The department has continuously strived to achieve this aim by maintaining the highest standards in the Postgraduate (MBA) and Doctoral Programmes offered by it since its inception. The vision of the department today is to be recognized as a frontrunner in Management education in the country in consonance with the social, economic and ecological environment while striving to contribute to nation building through excellence in research and development activities. The department follows the philosophy of Outcome Based Education. Therefore, the teaching learning process is student centric. The pedagogy is practical, hands on and real time. Case studies, Problem Solving Exercises, Role-Plays, Management Games and Presentations are extensively used. The curriculum is planned to facilitate learning in theory and practice of all aspects of the discipline of management ensuring the achievement of predefined learning outcomes.

1.2 Vision & Mission

Department Vision

- To be recognized as a frontrunner in Management education in the country in consonance with the social, economic and ecological environment while striving to contribute to nation building through excellence in research and development activities.

Department Mission

- To educate students at Postgraduate and Doctoral level to perform better in challenging environment.
- To nurture first generation entrepreneurs with innovative mindset.
- To provide excellent Consulting, and Research & Development facilities for faculty and students.
- To uphold the values of Personal Integrity and Social Responsibility in all our decisions.

1.3 Key Achievements (2024-25)

- Student Achievements:

Sl. No.	Name of the Students	Company Selected	Highest Package
1	Sadiya Tabbassum	Accenture India	15.12 Lakhs

- Faculty Achievement:
  - Dr. Supriyo Roy has published his work in High Impact Journals, namely The TQM Journal, Emerald, Q1, I.F: 9.1, Business Process Management, Emerald, I.F : 8.8, Q1, Benchmarking: An International Journal, Emerald, Q1, I.F: 9.7.
  - Dr. Niraj Mishra has published his work in High Impact Journals, namely Journal of Travel & Tourism Marketing, Impact Factor: 9.0, Q1, Taylor & Francis.
  - Dr. Satyajit Mahto has published his work in High Impact Journals, namely Benchmarking: An International Journal with Impact Factor 9.7, IJQRM - 3.4, Polymer Composites - 4.7.
  - Dr. Anand Pd. Sinha, invited as a Resource Person in Faculty Development program on Research methodology Advancement Program-REMAP (2025) organized by Faculty of Business Management, Sarala Birla University, Ranchi held 25th June 2025.

- Dr. Anand Pd. Sinha, Invited as a Chair Person & Plenary Speaker in International Conference on Emerging Management Practices & Social Impact on Sustainability (ICMSIS'25) organized by Amity University Jharkhand held on June 27 , 2025.
- Dr. Praveen Srivastava has taken Session Chair at ITSA Amity Regional Conference for Asia 2025 organised by Amity University, Noida, Uttar Pradesh on 7th - 9th Feb.'25. The theme of the conference "Bridging the gap in Tourism Knowledge and Practice: Sustainable Development, Regenerative Tourism, Digital Ecosystem and Green Investment".
- Dr. Sujata Priyambada Dash invited as a Resource Person for a Workshop on Business Model Canvas, organized by Amity School of Business under the mandate of the Institution's Innovation Council (IIC), Amity University Jharkhand on 5th March, 2025, AUJ Campus, Ranchi.
- Dr. Praveen Srivastava has taken a Session Chair at 5th International Conference on "The Role of Innovation, Entrepreneurship and Management for Sustainable Development (ICRICEMSD - 2024) organised by School of Management, O P Jindal University, Raigarh in association with Sohar University, and Metropolia on 17th and 18th October'24.

- **Overall Department Achievement in the last three years.**

- The Department of Management at Birla Institute of Technology (BIT), Mesra, organised Model United Nations'24 (MUN'24), presented by the Student Activity Forum (SAF), February 26th, 2024. This event provides a valuable platform for students to delve into the complexities of cross-border terrorism and understand how the United Nations tackles this global challenge.
- The Department of Management has been accredited by National Borad of Accreditation (NBA) on May 2023. The Accreditation valid duration from 2023 to 2026.
- Dr. Supriyo Roy, Associate Professor awarded for his BIT Faculty Appreciation Award (BITFAA-24) distinguished contribution in the year 2023 in terms of his overall "Highest Number of Research Publication".
- Dr. Supriyo Roy, Associate Professor, Mentor, Kingshuk 2k22 batch BTech Students received first prize of Rs 1 Lakh from IIC- BIT Mesra in BIT NISHAN-23 innovation contest which was held on 15.12.23 in R&D Building BIT Mesra Ranchi (Start-up Name - Anonymous Squirrels Business Solutions PVT. Ltd.).
- Dr. Anand Pd Sinha, Assistant Professor, Mentor of Ayush Kumar, Computer Science 2k23 batch BTech Students received first prize of Rs 1 Lakh from IIC- BIT Mesra in BIT NISHAN-23 innovation contest which was held on 15.12.23 in R&D Building BIT Mesra Ranchi (Start-up Name - Menta Mind Pvt. Ltd).
- Dr. Somanth Mukherjee, Assistant Professor, Convenor & Dr. Niraj Mishra, Assistant Professor Co-Convenor organized "National workshop on Digital Marketing" 04-07- 2022 to 08- 07- 2022.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	MBA	2 Years	120	Marketing/ HR/Finance/IT
2	Ph.D	6 Years		IT/MGT/HR/Finance/Marketing
3	Bachelor in Hotel Management	4 Years	30	Hospitality Mgt.

1.5 List of PhD Scholars Graduated from the Department (1st July 2024 - 30th June 2025)

SL. No.	Roll No.	Name of the Scholars	Title	Supervisor(s)	Date of Award
1	PHD/ MB/10053/16	Puja Kumari	E-recruitment Through social media Considering Employer Branding Framework	Dr. Mili Dutta	01.10.2024
2	PHD/ MB/10012/2017	Pooja Yadav	Impact of Employee Engagement on Job Satisfaction and Turnover Intension	Dr. Abhaya Ranjan Srivastava	06.03.2025

Sr. No.	Roll No.	Name of the Scholars	Title	Supervisor(s)	Date of Award
3	PHD/B/10005/2017	Preeti Aagneya	Exploring the Determinants of Effective Retention Strategies for Knowledge Workers in India	Dr. Soumitro Chakravarty/ Dr. Umesh Prasad (Co guide)	06.03.2025
4	PHD/B/10006/2017	Daisy Rani Prasad	Role of Public Sector in Promoting CSR in Jharkhand with special focus on Skill Development Initiatives of Central Coalfields Limited (CCL)	Dr. Mili Dutta	09.06.2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy) 1st July 2024 – 30th June 2025

(a) Ongoing Projects:

SL. No.	Project Title	PI/ Co PI/ Collaborator, if any	Funding Agency	Date of Sanction (dd. mm. yyyy)	Sanctioned Amount in INR	Duration of the Project (dd. mm.yyyy to dd.mm.yyyy)
1	Interrelationship between Socio-Economic Development, Social Innovation and Entrepreneurship Development: An Empirical Study on Small Heritage Town	Satyaki Sarkar-PI/ Supriyo Roy-Co-PI	ICSSR, New Delhi	9th March/2023	7.5 LAKHS	2 YEARS
2	"Inclusive Technology Business Incubator (i-TBI) at Birla Institute of Technology-Ranchi"; Recommended by National Expert Advisory Committee (NEAC) to support under NIDHI i- TBI program	Supriyo Roy; Priyank Kumar, Vishal H Shah; Anupam Roy	DST, New Delhi		500 LAKHS	3 YEARS

(b) Projects Completed (1st July 2024 to 30th June 2025)

Sr. No.	Project Title	PI/ Co PI/ Collaborator, if any	Funding Agency	Date of Sanction (dd. mm.yyyy)	Sanctioned Amount in INR	Duration of the Project (dd. mm.yyyy to dd.mm.yyyy)
1	Interrelationship between Socio-Economic Development, Social Innovation and Entrepreneurship Development: An Empirical Study on Small Heritage Town	Satyaki Sarkar-PI/	ICSSR, New Delhi	9th March/2023	7.5 LAKHS	2 YEARS

(C) Consultancy Projects : (1st July 2024 to 30th June 2025)

Sl. No.	Title of Project	Funding Agency	Duration		Grant Mobilized (Rs. Lakhs)	Principal Investigator/ Co Investigator	Ongoing/ Completed*
			from	to			
1	LPG Dealer Training	Indian Oil	03.08.2024	03.08.2024	675000	Dr. Niraj Mishra, Dr. Shraddha Shivani, Dr. Shelly Srivastava	Completed

SECTION 3		SEMINAR/CONFERENCE

3.1 Events Conducted by the Department: (1st July 2024 - 30th June 2025)

SL. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop/ FDP	Coordinator	Funding/ Sponsoring Agency	Date of Event	Mode (Online/ Offline/ Hybrid)
1	Indian Association of Social Science Institutions	Dr. Manju Bhagat	IASSI	24-27 Oct 2024	Offline
2	AMCS-24: Entrepreneurship: Innovation, Patent & Mechanism" during international conference	Dr. Anand Pd. Sinha,	IIC -BIT	20th Dec 2024	Offline
3	Conference	Dr. Nishikant Kumar, Dr. Anand Kumar	Ministry of Tourism, Government of Jharkhand	21.03.2025 – 22.03.2025	Offline
4	Doctoral Colloquium	Dr. Anupam Ghosh, Dr. Satyajit Mahato, Dr. Rohini Jha	Participants & BIT Mesra	04.04.2025	Offline

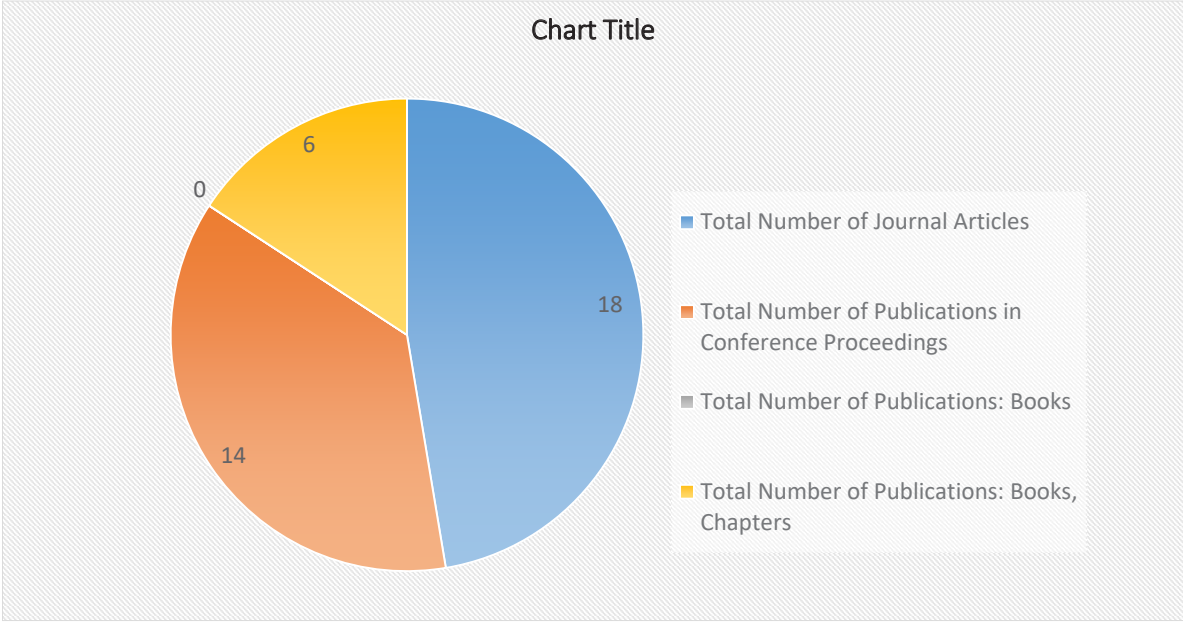
3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members: (between 1st July 2024 to 30th June 2025)

Sl. No.	Name of the Faculty	Title of the Conference/ Seminar/ FDP	Funding Agency	Organizers	Venue	Date (dd. mm.yyyy)
1	Dr. Anupam Ghosh	FDP	Council of Academic Research and Educational Organization	Research Foundation of India	BIT Mesra	13th – 20th June 2025
2	Dr. Anupam Ghosh	FDP	Council of Academic Research and Educational Organization	Malviya Mission Teacher Training Program	BIT Mesra	23th – 5th June 2025
3	Dr. Anand Pd Sinha	FDP	IIECVIT-AP University	Innovation Incubation and Entrepreneurship Cell (IIEC) VIT-AP University Amaravati	Online	7th -11th April 2025
4	Dr. Anand Pd Sinha	FDP	Value Education Cell , BIT Mesra	Value Education Cell & IIC-BIT Mesra	BIT Mesra	23rd April 2025
5	Dr. Anand Pd Sinha	Seminar	Qual Comm	Turnip Innovation	Online	25th April 2025
6	Dr. Satyajit Mahato	FDP	CRT, National Foundation for Entrepreneurship Development (NFED),	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.	Online	23rd -27th June 2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data (Period: 1st Jan 2024 to 31st Dec 2024)

SL. No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	18	14	NIL	6



SECTION 5		AWARD/PATENT/COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International) (between 1st July 2023 to 30th June 2024)

SL No	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Supriyo Roy	Highest Number of Research Publications	BIT Mesra	National	15.08.24

5.2 Patents (Applied / Granted) (between 1st July 2024 to 30th June 2025)

SL. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent (Max 50 words)
1	Dr. Anupam Ghosh, Dr. Soumya Prakash Patra, Dr. Rohit Agrawal	A System and A Process for Preventing Electronic Fuel Injection (EFI) Dry Running In A Two-Wheeler	202331070663	National	In the intricate landscape of motorcycle engineering, the spectre of Electronic Fuel Injection (EFI) dry running casts a shadow over engine performance and durability. This challenge, born from the capricious movement of fuel within the tank due to road irregularities, threatens to disrupt fuel delivery, potentially leading to engine malfunctions.

SECTION 6		Activities/Faculty Members/DOS/DAS

6.1. List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Highest Qualification
1	Prof. Manju Bhagat	Professor	Human Resource	Ph.D.
2	Prof. Amar Nath Jha	Professor	Finance	Ph.D.
3	Prof. Shradha Shivani	Professor	Marketing	Ph.D.
4	Prof. R. N. Bhagat	Professor	Agro Business Marketing	Ph.D.
5	Dr. Supriyo Roy	Professor	Operations Management, Supply Chain	D. Litt, PDF (IIM-B), PH.D
6	Dr. Praveen Chandra Jha	Assistant Professor	Economics	Ph.D.
7	Dr. Anupam Ghosh	Assistant Professor	Sustainability	Ph.D.
8	Dr. Anand Kumar	Assistant professor	Human Resource	Ph.D.
9	Dr. Niraj Mishra	Assistant Professor	Marketing	Ph.D.
10	Dr. Shelly Srivastava	Assistant Professor	Finance	Ph.D.
11	Dr. Rohini Jha	Assistant Professor	Information Technology	Ph.D.
12*	Dr. Shailendra Kumar Singh	Assistant Professor	German	Ph.D.
13	Dr. Anand Prasad Sinha	Assistant Professor	Technology Management	Ph.D.
14	Dr. Sujata Priyambada Dash	Assistant Professor	Human Resource Management	Ph.D.

15	Satyajit Mahato	Assistant Professor	Operations Management	Ph.D.
16	Dr. Bhaskar Karn	Associate Professor	AI, ITM	Ph.D.
17	Dr. Praveen Srivastava	Associate Professor	Hotel Mktg., Marketing	Ph.D.
18	Dr. Abhishek Jana	Assistant Professor	Hotel Mgmt, Marketing	Ph.D.
19	Dr. Amit Saran	Assistant Professor	Hotel Mgmt., Marketing	Ph.D.
20	Dr. Nishikant Kumar	Assistant Professor,	Hotel Mgt., Tourism	Ph.D.
21	Dr. Pranjal Kumar	Assistant Professor,	Hotel Mgt., HRM	Ph.D.
22	Dr. Pratima Ekka	Assistant Professor,	Food Production	Ph.D.
23	Dr. Gautam Shandilya	Assistant Professor,	Hotel Mgmt., HRM	Ph.D.
24	Dr. Sanjiv Kumar Srivastava	Assistant Professor,	Hotel Mgmt., Marketing	Ph.D.

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

Sr. No.	Name	Designation	Affiliation
1	Dr. Utpal Baul	Professor (Retd.)	BIT Mesra

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable	Role (Chairman/ Internal or External Member)
1	Dr. A N Jha	Professor	Internal Member
2	Dr. Manju Bhagat	Professor	Internal Member
3	Dr. Shradha Shivani	Professor	Internal Member
4	Dr. R N Bhagat	Professor	Internal Member
5	Dr. Supriyo Roy	Associate Professor	Internal Member
6	Dr. Niraj Mishra	Assistant Professor	Internal Member
7	Dr. Shelly Srivastava	Assistant Professor	Internal Member
8	Dr. Vinay Sharma	Professor	External Member
9	Dr. Vijay Kumar Jha	Associate Professor	External Member
10	Dr. Tanushree Dutta	Associate Professor, IIM Ranchi	External Member
11	Mr. S Botchu	Sr. Manager Accenture	External Member
12	Dr. Rakesh Kumar Singh	Prof. IMT Ghaziabad	External Member
13	Prof. Partha Pratim Sengupta	Sr. Prof., Humanities & Social Science, NIT Durgapur	External Member
14	Dr. Shivesh Singh	Head Business HR, Bandhan Bank	External Member
15	Mr. Priyobrata Bhattacharjee	DGM (Knowledge Management) Birla Corporation Ltd, Birla Cement Works (A MP Birla Group)	External Member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities: (Period: 1st July 2024 - 30th June 2025)

SL. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	BTrix'25: Flagship annual B-school fest	Kaustubh Pallav Pandey	Dr. Anand Pd Sinha & Dr. Sujata P. Dash	10th to 12th April, 2025
	B-PLAN			
	MAD -SQUAD			
	PODCAST			
	FINMAZE			
	UNMAD			
2	Workshop on Designing the Business i2I - Ideation to Implementation	Sakshi Pandey	Dr. Anand Pd Sinha	March 24, 2025
3	International Women's Day 2025	Sirsh & Chavi	Dr. Shailendra Kr. Singh	6th March 2025
4	Industrial Visit	Arunjay Aayush Gupta & Nihal	Dr. Anand Pd Sinha & Dr. Sujata P. Dash	1st March 2025
5	Battle of Minds' 25	Kushi Rani &Pratyush Kr. Baghel	Dr. Anupam Ghosh, Dr. Sujata Priyambada Dash, Dr. Pranjal Kumar	24th February 2025
6	Speakfest'25	Rishi & Prachi Singh	Dr. Sujata P. Dash	8th February 2025
7	"The Impact of AI on Career Growth,"	Sweta & Kaustubh Pallav	Dr. Anupam Ghosh	27th January 2025
8	KARTAVYA'24	Kaustubh Pallav Pandey & Rishi	Dr. Shailendra Kr. Singh	3rd October 2024
9	Soft Skill Workshop	Kaustubh Pallav Pandey	Dr. Shelly Srivastava	24th Sep 2024
10	"Future Wealth Management"	Sakshi Pandey & Simran Singh	Dr. Anand Pd Sinha	23rd Sep 2024.
11	Workshop on Strategies for Success	Ajjema	Dr. Sujata P. Dash	19th September 2024
12	Workshop on Strategy:	Kaustubh Pallav Pandey & Rishi	Dr. Rohini Jha	13th September 2024
13	QUIZZARD 2024	Kaustubh Pallav Pandey & Rishi	Dr. Sujata P. Dash & Dr. Shailendra Kr. Singh	9th -10th September 2024
14	Workshop on HR Analytics:	Shreya	Dr. Shelly Srivastava & Dr. Sujata Dash	6th September 2024
15	Orientation 2024: Udgam'24	Kaustubh Pallav Pandey	Dr. Shelly Srivastava & Dr. Sujata Dash	5th August 2024

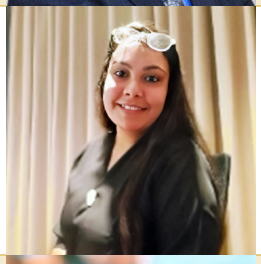
7.2 Student Entrepreneurship activities/Start-ups if any:

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description	Mentor
1	Ayush Kumar	IIC-BIT Mesra (Rs. 1 Lakh)	Menta Mind Pvt. Ltd.	Menta-Mind is an AI enabled platform which serves as a ONE STOP solution for all mental health needs and developed our own Menta Mind AI which works on symptom diagnosis for mental health issues and connect people who have symptoms of mental health issues with licensed psychologists. (Menta Mind Technologies Pvt. Ltd.- Start-up Registered -May 2024).	Dr. Anand Pd. Sinha
2	Kingshuk Banerjee	IIC-BIT Mesra (Rs, 1 Lakh)	Anonymous Squirrels Business Solutions Pvt Ltd	Anonymous Squirrels Business Solutions Pvt Ltd is a Brand Strategy and Content Marketing company with over 50+ clients across 20+ domains with Oyo, Poonawalla Fincorp, IIT Bombay, Prudent and others in our client list. From one man army to being a college recruiter at BIT Mesra, Team Squirrels has come a long way.	Dr. Supriyo Roy

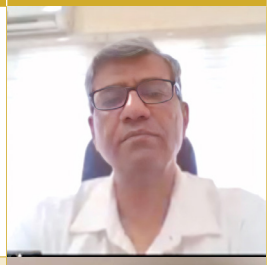
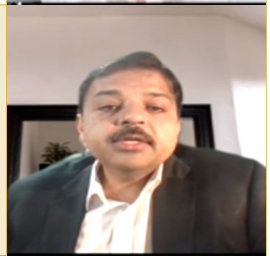
SECTION 8 OUTREACH ACTIVITIES

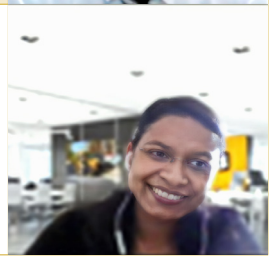
8.1 Distinguished Visitors (Period: 1st July 2024 - 30th June 2025)

SL. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1	Prof. Sudipto Bhattacharya, Start-up Mentor Certification from London Business School & Professor in Design Thinking, Innovation & Creativity, Entrepreneurship, and Business Strategy	24th March 2025	
2	Ms. Anshu Gupta, Chartered Accountant (Partner -Chartered Accountancy Firm).	23rd Sep 2024	
4	Mr. Pritam Pritu an alumnus from the 1997–1999 batch and current Global SAP Lead (Metals & Industrial Manufacturing) at IBM Consulting.	7th July 2024	

5	Mr. Sanjeev Kumar Choudhary (Executive Director & Bihar State Head, IOCL),	5th August 2024	
6	Ms. Nikita Jha (Senior Specialist, Service & Operations, Xiaomi),	5th August 2024	
7	Dr. S. Shadab Hasan (Founder & Former Director of H.H. High School, Brambe; Faculty, IIIT Ranchi).	5th August 2024	
8	Dr. P.K. Chatterjee, Former CGM, Mecon Ltd.	7th April 2025	

8.2 Distinguished Alumni (Period: 1st July 2024 - 30th June 2025)

SL .No	Name, Batch and Affiliation	PIC of Alumni
1	Mr. Aloke Singh	
2	Mr. Pranay Mittal, (1991-1993)	

3	Miss Jayita Sarkar, (1999-2000)	
4	Mr. Ripudaman Magon – 1989-91	
5	Miss Mridula Shekhar, 1999-2000	

8.3 MoUs / Collaborations (between 1st July 2024 to 30th June 2025) :

SL No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	IIM Bodhgaya	A system and a process for preventing electronic fuel injection (EFI) dry running in a two-wheeler	2024

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation (Period: 1st July 2024 - 30th June 2025)

(Institute Labs, CSR Funded Lab/Industry Funded Labs, Smart Classrooms in brief paragraph)

- The language lab is equipped with latest version of system assisted language learning and adaptation which assist in learning of foreign languages.

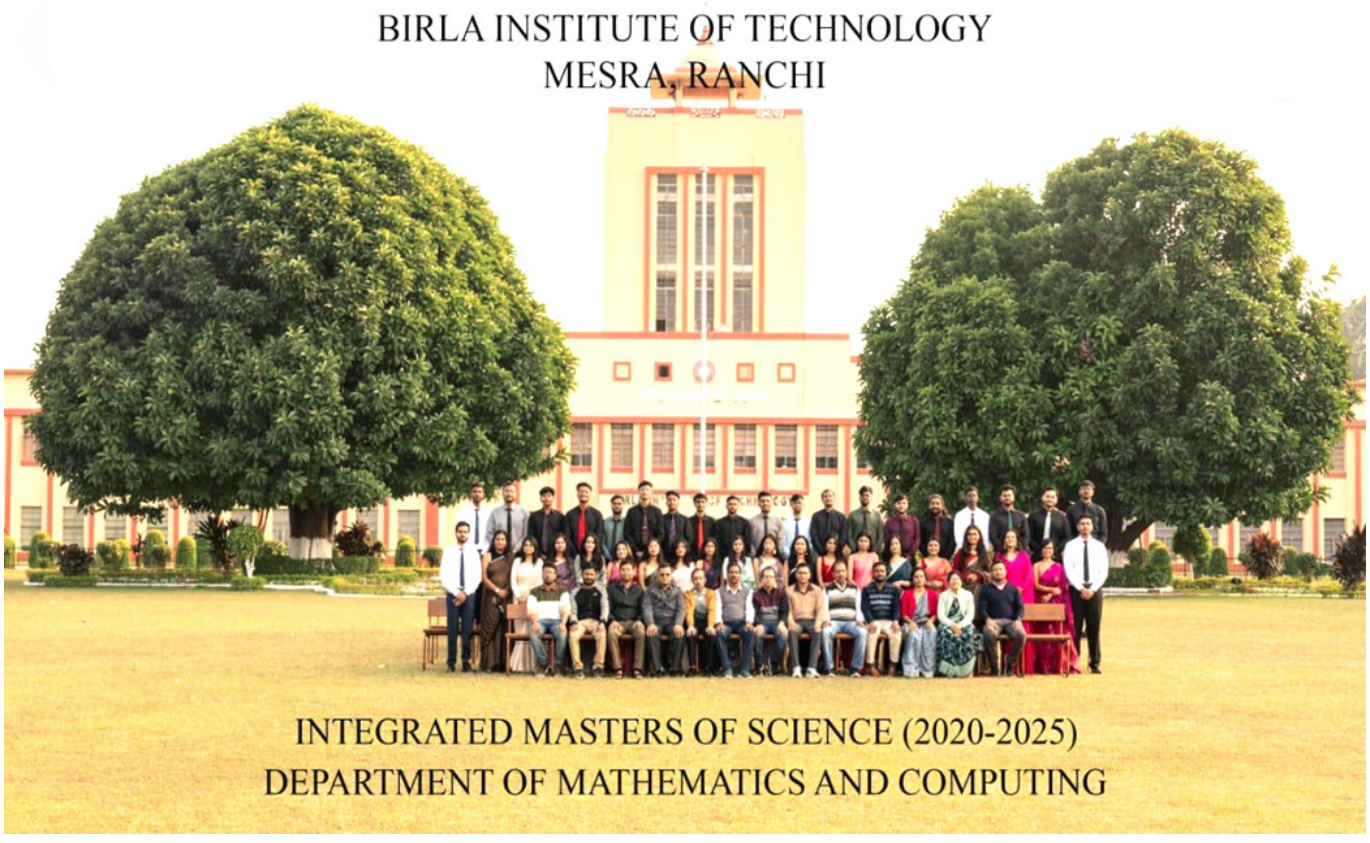
9.2 IT Upgrades

SECTION 10		FUTURE PLANS (2025-26)

- The department has a fully functional computer lab to assist analytics and IT students to have valuable learning.
- The Department of Management going to introduce new Specialization course i.e., “Operation Management” for MBA III semester students from MO 25 onwards.
- The UG Programme i.e., IMBA Course will be start in Management Dept. Mesra Campus from MO 25 onwards.
- Three new faculty will be hiring in the department, areas of Finance & HR specialization.
- Two International Conference will be schedule in MO 25 & SP26.
- FDP/ Workshop/ Seminar will be held in SP 2026.
- To get sponsored project also in pipeline.

Department of Mathematics

SECTION 1 DEPARTMENTAL PROFILE



1.1 About the Department / Off-Campus

The Department of Mathematics was founded in 1956 under the name Department of Applied Mathematics. It started with only an undergraduate program offered to engineering students. Nevertheless, mathematics plays a vital role in engineering, and it is clearly reflected in the fact that it conducts all the mathematics courses offered in different branches of engineering, management, pharmaceutical sciences, architecture, and the University polytechnic. A gamut of very motivated, qualified, and talented faculty is actively engaged in teaching and research in pure and applied mathematics and technology. Faculties of the department present their papers in National/International Conferences.

1.2 Vision & Mission

- Vision: To become a globally recognized center of excellence in teaching and research, producing excellent academicians, professionals, and innovators who can positively contribute to society.
- Mission:
  - 1. Imparting strong fundamental concepts to students in the field of Mathematical Sciences and motivating them towards innovative and emerging areas of research.
  - 2. Creation of a compatible environment and providing sufficient research facilities for undertaking quality research to achieve global recognition.

1.3 Key Achievements

- **Student Achievements:**
- Saikat Dey (IMH/10051/22) has got INR 15 Lakh funding and Incubation support from MSME for his Startup.
- Saikat Dey (IMH/10051/22) has won BIT Nissan 2024 and got 1 lakh.
- Mollika Garg (IMH/10014/20) and Shambhavi Singh (IMH/10022/20) have got the highest package of 51 Lakhs CTC in the company Microsoft.
- **Faculty Achievement:**
- Dr. Randhir Singh is listed in “World’s Top 2% Scientists” by Stanford University/Elsevier.
- Dr.Prabjot Kaur as keynote speaker in a conference of Operational Research Society (ORSN), Nepal.
- **Overall Department Achievement:**

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	IMSC Mathematics & Computing (UG & PG)	5 Years	75	The Mathematics and Computing program at BIT Mesra blends mathematics with computer science and engineering principles. This interdisciplinary approach provides students with a robust foundation in both theoretical and applied aspects of mathematics, computing, and technology. Students gain proficiency in solving complex problems using mathematical techniques combined with computational tools. The department promotes research-led teaching and provides opportunities for students to engage in research activities. Students are encouraged to take up internships during the summer and at various stages of their education, where they can apply theoretical knowledge to real-world problems. Collaboration with tech companies often results in guest lectures, training programs, and placements for graduates in reputed firms. Mathematical software (e.g., MATLAB, Mathematica) and programming environments (e.g., Python, C++, R) are readily available for students to use. Graduates from the IMSC program are highly sought after in both the mathematics and computing sectors. The department has a high placement rate, with graduates being recruited by top tech companies, financial institutions, and research organizations.
2	PhD in Mathematics	3-5 Years	NA	The program emphasizes fundamental and applied research in areas such as pure mathematics, applied mathematics, computational mathematics, mathematical modeling, cryptography, and data science. Faculty members are actively involved in research projects, offering guidance and collaboration opportunities to PhD candidates. Students are encouraged to participate in seminars, workshops, and conferences. The program provides opportunities to present research at national and international platforms. Research scholars may be eligible for fellowships and financial support based on merit.

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Yashwant Kumar	Development of Encryption Techniques for Two-Dimensional Data	Dr. Vandana	21.01.2025

SECTION 2 EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy):

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Topological Investigation of the Escaping Set of a Transcendental Semigroup and Wandering domains in Quasiregular Dynamics	PI	ANRF(SERB)-TARE	13.05.2024	18.30 Lakhs	03 Years

(b) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Hindustani Raga Analysis Using Statistical Musicology with Therapeutic Applications for Stress Management	Prof. S. Chakraborty (PI)	IDEAS: TIH@ ISI Kolkata	23.09.2022	Rs. 4.64 lakhs	31st March, 2025

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode
1	Seminar Series on 100 Years of Quantum Mechanics at BIT Mesra	Anindita Bera	No funds required	20.02.2025	Online

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
	Dinesh Kumar	NCM Workshop on Quasiconformal Mappings and Holomorphic Dynamics	Presidency University Kolkata	National Centre for Mathematics (NCM)	Presidency University Kolkata	29.07.2024 to 03.08.2024
	Dinesh Kumar	On geometric complexity of Julia Sets V	IMPAN	Institute of Mathematics of the Polish Academy of Sciences	Bedlewo, Poland	21.07.2024 to 26.07.2024
	Dinesh Kumar	Invited talk on Recurrence relations and its properties	DDU College, University of Delhi	HCMS, DDUC	DDU College, University of Delhi	27.08.2024
	Dinesh Kumar	Presented a paper ``Results on Dynamics of Bungee Set of Composite Entire Functions in the Eremenko-Lyubich Class'' in the International Conference on Recent Trends in Mathematics, ICRTM-2025	Hansraj College, University of Delhi	DST	Hansraj College, University of Delhi	07.02.2025 to 08.02.2025

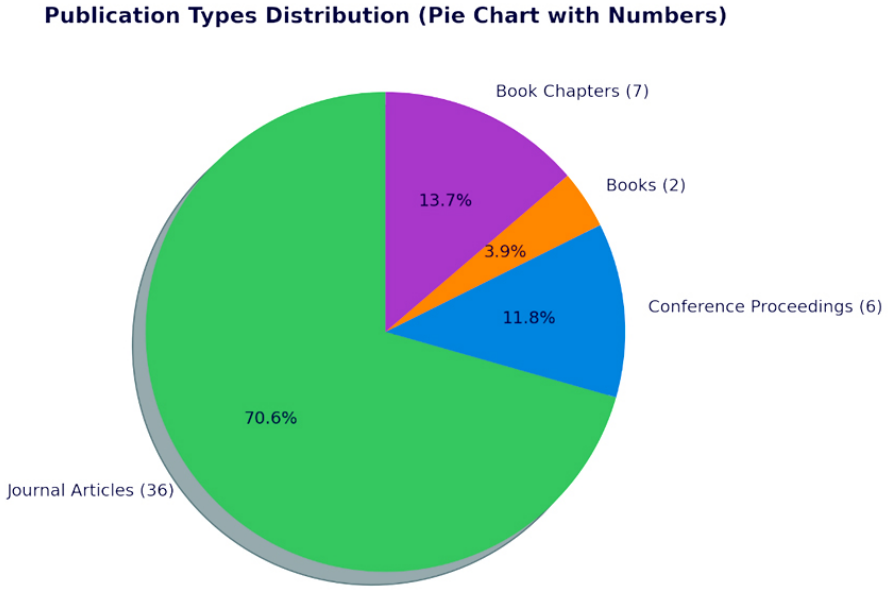
	Dinesh Kumar	Gave an invited talk `` Dynamics of Transcendental Entire Functions'' in the International Conference on Mathematics and Statistics in the Era of Data Science (ICMSDS- 2025)	Central University of Jharkhand	Central University of Jharkhand	Central University of Jharkhand	18.03.2025 to 20.03.2025
	Anindita Bera (Invited speaker)	A workshop on Quantum Information and Quantum Dynamics	Dept. of Physics, IIT Madras	BIT Mesra and IIT Bombay	IIT Bombay	25.09.2024
	Anindita Bera (Invited speaker)	Quantum Symposium for Young Investigators (QSYI)	Centre for Quantum Communication, Information and Computing (CQUICC), IIT Madras	IIT Madras, Chennai	IIT Madras, Chennai	07.03.2025 – 08.03.2025
	Amrita Mandal	Recent Developments in Mathematical Sciences National Conference	Department of Mathematics, University of Hyderabad	BIT Mesra	University of Hyderabad, India	05.02.25-07.02.25
	Amrita Mandal	AACM 2025	CQEDS, BIT Mesra	BIT Mesra	BIT Mesra	13.02.25-14.02.25
	Dr. Pawan Kumar Shaw	Gave an invited talk "Understanding Fractional Calculus and Its Diverse Applications'' in the International Conference on Mathematics and Statistics in the Era of Data Science (ICMSDS- 2025)	Central University of Jharkhand	Central University of Jharkhand	Central University of Jharkhand	18.03.2025 to 20.03.2025
	Dr. Pawan Kumar Shaw	Gave an invited talk "Fractional Calculus: Unlocking New Possibilities and Applications Across Multiple Domains '' in the 4th International Conference on Recent Advances in Mathematical Sciences and Interdisciplinary Areas (RAMSIA-2025)	GLA Mathura	GLA Mathura	GLA Mathura	28.03.2025 to 29.03.2025
	Prabjot Kaur	Forecasting using Machine Learning	IIT,Madras	Self	Online	11.1.2025
	Prabjot Kaur	21st Century Teaching & Larning Skills-Batch4.	IIT,Madras	Self	Online	15.03.2025

	Prabjot Kaur & A.Nath	First International Society of Fuzzy Sets Extensions and Applications conference	Ayandegan Institute of Higher Education (AIHE), Iran &University of Belgrade, Serbia.	No Funding required	Online	5.5.2025 to 6.5.2025
	Prabjot Kaur and Deepak Kumar	International conference on Electronics,AI and Computing(EAIC'25),	Department of Electronics and Communication,Dr BR Ambedkar National Institute of Technology,Jalandhar,Punjab	Self	Online	05.06.2025 to 07.06.2025
	Prabjot Kaur	Innovative Pedagogical Techniques in Management.	Kamal Institute of Higher Education and Advance Technology,New Delhi & Ojha Publication & Research House,New Delhi	Self	Online	21.10.2024 to 25.10.2024
	Prabjot Kaur	4th International Conference On Global Innovations in Management and Social Sciences "Imparting Dynamics"	Research & Development Department Lumbini Banijya Campus Butwal, Rupandehi, Nepal	Self	Butwal International Convention Centre (BICC), Lumbini Banijya Campus, Nepal.	29th-30th November, 2024,
	Prabjot Kaur & Supriya Chauhan	POMS India international conference 2024,	IIM, Ranchi	BIT, Mesra	IIM, Ranchi	4.12.2024 to 6.12.2024
	Prabjot Kaur & Supriya Chauhan	BAMS-ORSI 2024 International conference,IIT Bombay,	IIT,Bombay	BIT,Mesra	IIT, Bombay	11.12.2024 To 15.12. 2024.
	Dr. S D Jabeen	International Conference on Mathematics and Applications	Department of Mathematics, The University of Burdwan	BIT Mesra	Department of Mathematics, The University of Burdwan	06.07.2025 to 07.06.2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
	36	06	02	07



Pie Chart of Publication Data

SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Prof. S. Chakraborty	IMTA-NADA award for book of the year in 2024 for outstanding contribution to music therapy [Lead author of the book Stress Management through Music: A Statistical Study, Notion Press, 2024]	Indian Music Th erapy Association	National	2024
2	Randhir Singh	Top 2% Most Influential Scientists Worldwide Rankings (WR)	Stanford University/ Elsevier's	International Level	2024
3	Prabjot Kaur	Key note speaker in an international conference	Operational Research Society Nepal (ORSN)	International	1.02.2025.
4.	Prabjot Kaur	Resource person as a main speaker in a webinar	Gauhati University	National	30.6.2025

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Applied/ Granted	Short Description about the Patent
1	Prof. S. Chakraborty	A system for processing of audio signals for automatic pitch detection and method thereof	202431080829 A	2024	Published on Nov 01, 2024 (ref: The Patent Office Journal No. 44, 2024 Dated 01/11/2024 page : 102271)	Disclosed herein a system for processing audio signals, comprising a hardware processor configured to execute instructions stored in a memory, wherein the processor is operable to load audio data into the system, where the audio data is in a format selected from the group consisting of WAV, MP3, FLAC, AIFF, and OGG, or represented as a NumPy array, wherein the processor converts the loaded audio data into a time series representation comprising a one-dimensional array of amplitude values over time and determines a sampling rate of the audio signal, wherein the sampling rate is a measure of samples per second in Hertz (Hz).
2	Prof. S. Chakraborty	A personalized music therapy system for enhancing user well-being	202431104658 A	2025	Published on Jan 10, 2025 (ref: The Patent Office Journal No. 02, 2025 Dated 10/01/2025 page 4447)	Disclosed herein is a personalized music therapy system that utilizes advanced machine learning algorithms to analyze user preferences, physiological data, and emotional states to deliver tailored therapeutic music experiences.
3	Dr. D. Pandey, S.H.A. Gaffar, N. K. Singh, Dr.B.Pandey, Dr.Prabjot Kaur, M.A.Paramashivam	Interactive Computing Dashboard for data visualization	6397930	23 October 2024	Granted	A device based on hypothesis to customize specific metrics for consolidated data from multiple sources into single.
4	Dr. D. Pandey, Dr. A. Shaji George, Dr. B. Pandey, Dr.Rashmi Mahajan & Dr.Prabjot Kaur	Multi layered data visualization equipment	6396121	23 October 2024	Granted	A device like a speaker to connect to a computer for parameter visualization like performance etc. with different outputs.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. S. Chakraborty	Prof	Applied Statistics	PhD	30.11.2006
2	Dr. S. K. Jain	Prof	Computational Solid Mechanics	PhD	26.09.1996
3	Dr. S. Padhi	Prof	Differential Equations, Physics Informed Neural Networks	PhD	07.01.2004
4	Dr. Peeyush Tewari	Associate Prof	Mathematical Modelling	PhD	16.03.1999
5	Dr. Prabal Datta	Asst Prof	Numerical Solution of Boundary Layer Flows	PhD	16.08.2002
6	Dr. Prabjot Kaur	Asst Prof	Operation Research	PhD	12.08.2008
7	Dr. Abhinav Tandon	Asst Prof	Mathematical Modelling	PhD	05.11.2011
8	Dr. Randhir Singh	Asst Prof	Numerical Analysis and Differential equations	PhD	02.03.2015
9	Dr. S. D. Jabeen	Asst Prof	Optimization	PhD	02.04.2015
10	Dr. Dinesh Kumar	Asst Prof	Complex Dynamics	PhD	16.08.2021
11	Dr. Payel Das	Asst Prof	Applied Functional Analysis	PhD	28.03.2023
12	Dr. P.S. Majee	Asst Prof	Computational Fluid Dynamics	PhD	25.05.2023
13	Dr. Pawan Kumar Shaw	Asst Prof	Numerical Analysis, Fractional Calculus	PhD	23.01.2024
14	Dr. Amrita Mandal	Asst Prof	Matrix Theory	PhD	29.01.2024
15	Dr. Abhinav Chakraborty	Asst Prof	Theoretical Computer Science	PhD	01.02.2024
16	Dr. Anindita Bera	Asst Prof	Quantum Information Theory	PhD	01.02.2024
17	Dr. Ayan Chanda	Asst Prof	Fluid Dynamics	PhD	13.02.2024

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HOD/In-Charge	Ex-Officio Chairman, Professor and Head, Deptt of Maths, BIT Mesra	Chairman (Ex-Officio)
2.	Dr. S. K. Jain	Prof. Deptt. of Maths, BIT Mesra	Internal Member
3.	Dr. S. Padhi	Prof. Deptt. of Maths, BIT Mesra	Internal Member
4.	Dr. Prabal Datta	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
5.	Dr. Prabjot Kaur	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
6.	Dr. S.D. Jabeen	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
7.	Dr. Payel Das	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
8.	Faculty Member of Mathematics Department (Nominee of Director, BIT Jaipur)		Member
9.	Faculty Member of Mathematics Department (Nominee of Director, BIT Patna)		Member
10.	Faculty Member of Mathematics Department (Nominee of Director, BIT Deoghar)		Member

11.	Sanchit Sanyam	Student Representative (IMSC (Mathematics & Computing) – III Year)	Student Member
12.	Abhinandan Kumar	Student Representative (IMSC (Mathematics & Computing) – IV Year)	Student Member
13.	Dr. Abhijit Mustafi	Professor, Department of CSE, BIT Mesra	Member
14.	Dr. Manish Pandey	Assistant Professor, CQEDS, BIT Mesra	
15.	Dr. Snehashish Chakraborty	Professor HAG & Dean Academic, Department of Mathematics, National Institute of Technology Rourkela	External Member (Academic)
16.	Dr. Satyajit Roy	Professor, Department of Mathematics, Indian Institute of Technology Madras	External Member (Academic)
17	Dr. P. K. Mishra	Professor, Department of Computer Science, Banaras Hindu University	External Member (Academic)
18	Dr. Bapan Ghosh	Associate Professor, Department of Mathematics, Indian Institute of Technology Indore	External Member (Academic)
19	Dr. Jitendra Kumar	Professor, Department of Mathematics, Indian Institute of Technology Ropar	External Member (Academic)
20	Ms. Vaishnudebi Dutta	PhD Student, School of Engineering Mathematics and Technology, University of Bristol	External Member (Alumni & Academic)
21	Mr. Subhomoy Haldar	Senior Software Developer, Component Sense (Remote), Edinburgh, Scotland, United Kingdom	External Member (Alumni & Industry)
22	Mr. Kanak Raj	Applied Research Scientist, Thomson Reuters Lab., Bangalore, India	External Member (Alumni & Industry)

SECTION 7 — STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
	FRESHER'S	Shambhu Nath, Kshitij Shekhar	Dr. Dinesh Kumar, Dr. Payel Das	12.09.2024
	FAREWELL	Saket Kumar, Abhinandan Kumar	Dr. Dinesh Kumar, Dr. Payel Das	08.05.2025

7.2 Entrepreneurship / Startups

Sr. No.	Student Name	Funding Source	Title	Description
1	Saikat Dey	Government of India	MSME IDEA HACKATHON	Got 15 lakh funding from Ministry for making Humanoid Robot Prototype
2	Saikat Dey	IIC	BIT Nissan 2024	Got 1 lakh from IIC for his project in the field of Robotics

7.3 Student Achievements (Overall)

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Saikat Dey	Hackathon Winner	Government of India	2/07/2025	Ranchi

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof. Geetanjali Panda	IIT Kharagpur	Dept. of Mathematics, BIT Mesra	14.02.2025	
2	Prof. Malay Banerjee	IIT Kanpur	Dept. of Mathematics, BIT Mesra	13.08.2024	
3	Dr. Satyajit Pramanik	IIT Guwahati	Dept. of Mathematics, BIT Mesra	10.07.2024	
4	Prof. Sandip Banerjee	IIT Roorkee	Dept. of Mathematics, BIT Mesra	06.12.2024	

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.2 IT Upgrades:

- There is a lab with 90 computers where computing sessions are conducted for IMSC students.
- There is a lab for research scholars equipped with 5 operational computers where research activities are carried out.

SECTION 10		FUTURE PLANS (2025-26)

Infrastructure Proposals:

- Faculty cabins with modular cabinets
- Storage room located on the building's roof
- Workstations for scholars in the Department Research Scholar Room

Research Goals:

- Innovate in areas of computational mathematics, focusing on simulations.
- Promote research engagement among IMSC students and research scholars through seminars, workshops, and collaborative projects.
- Apply mathematical theories to real-world problems in fields such as data science, cryptography, and optimization.

Department of Mechanical Engineering

SECTION 1		DEPARTMENTAL PROFILE

BIRLA INSTITUTE OF TECHNOLOGY
MESRA, RANCHI

BACHELOR OF TECHNOLOGY (2021-2025)
DEPARTMENT OF MECHANICAL ENGINEERING

1.1 About the Department / Off-Campus

Since its inception in 1955, the Department of Mechanical Engineering has a wide reputation for the quality of teaching and research it offers. It has been awarded top grades for both teaching and research activities from independent and government bodies. The excellent laboratory facilities, modern computer clusters, systematically designed curriculum, and dedicated faculty members make this Department a dynamic place to study. Mechanical Engineering Graduates from BIT Mesra are sought after by many prestigious companies. There is also an excellent careers center on campus, which helps the students to get entry into multinational companies.

1.2 Vision & Mission

- Vision: The Mechanical Engineering Department of Birla Institute of Technology, Mesra, Ranchi strives to be globally recognized for quality engineering education and research leading to well qualified engineers, academicians and researchers who are innovative, entrepreneurial and successful in achieving excellence in their field of study.
- Mission:
- To impart quality education to the students and enhancing their knowledge and skills to be globally competitive Mechanical Engineers.
- To maintain state of the art research facilities to provide its students and faculty to create, interpret, apply and disseminate knowledge with an understanding of the limitations.
- To develop linkages and interaction with industry, R & D organizations and educational institution for excellence in consultancy practices, research and teaching.
- To provide conducive environment for learning, creativity and problem solving skill

1.3 Key Achievements

Student Achievements:

One of the students was awarded the highest package Rs. 22.60 Lakhs from WallMart.

The following students from the Department of Mechanical Engineering have launched startups:

1. Chandan Kumar(BTECH/10280/22) - Co founder, TOKENZAMEEN TECHNOLOGIES PRIVATE LIMITED
2. Aman Alok(BTECH/10247/22) - Founder, KUUL CLUB SOCIAL PRIVATE LIMITED
3. Prithwijit Dey(BTECH/10385/22)- Co founder, XALCHEMYST TECHNOLOGIES PRIVATE LIMITED

Faculty Achievement:

Prof. Kaushik Kumar has published **60+ Books** and some of them are being referred as Text Books / Reference Books by **45+ Universities / Institutes** (including MNIT Jaipur, University of Mumbai, Indian Institute of Space Science and Technology (IIST) Thiruvananthapuram etc.) in their current academic course curriculum for both UG and PG programmes.

Overall Department Achievement:

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Tech. (Mechanical Engineering)	4 years	150	• Strong foundation in core subjects: thermodynamics, fluid mechanics, and machine design • Practical skills in simulation, automation, AI, and 3D printing • Emphasis on final-year projects and soft skills • Interdisciplinary electives to broaden knowledge • Preparation for careers in industry or higher education
2	M. Tech (Mechanical Engineering)	2 Years	18	• Advanced knowledge in design, thermal, manufacturing, and automation • Focus on research and use of simulation tools like ANSYS and CFD • Specialized electives in emerging areas • Thesis/dissertation work, often linked to industry or sponsored projects • Prepares graduates for R&D, academia, and high-level technical roles in industry
3	PhD	3-5 Years		• Emphasis on original research in thermal sciences, design, robotics, or materials • Includes advanced coursework, literature review, experimental/ numerical research, and thesis submission • Opportunities to publish in reputed journals and present at conferences • Involvement in teaching assistance and academic activities • Prepares scholars for careers in academia, research & development, and leadership roles in high-tech industries.

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Satyanand Pandey	On The Performance of Cyclone Separators with different cone shapes using CFD	Dr. L.S.Brar	13.08.2024
2.	Sujit Kumar	Thermal Modelling of Single Slope Solar Still Assisted with Solar Air Heater	Dr. Om Prakash	17.10.2024
3.	Anu Anand	Investigations on Mechano Emission Characteristics of Shape Memory Alloys	Dr. Rajeev Kumar	24.12.2024
4.	Ashutosh Kumar	Liquid-Liquid Flow Through Horizontal Non-Uniform Conduit Coupled with Return Bend	Dr. Mukesh Sharma	31.01.2025
5.	Rohit Agrawal	Investigation of Tribological Behaviour of wear Resistant Ni-B Coatings on AISI 1040 Steel	Dr. Arkadeb Mukhopadhyay	04.02.2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of High Angle of Attack CFD Aerodynamic Database & Behaviour Model of Missile Configuration at Varying Geometric and Flow Parameters	1. Priyank Kumar (PI) 2. Sudip Das (Co-PI) 3. Lakhbir Singh Brar (Co-PI)	AR & DB, DRDO	25-June-2024	39.8 Lacs	2 years
2	Development of Ni reinforced surface composite of AA5083 with high wear, tensile and fatigue resistance for modern transportation sector	Dr. Arun Kumar Kadian	CRG / 2023 / 002324	06-May-2024	52.08 Lacs	3 Year

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of abrasion-resistant electroless Ni-B-W coating on cyclone separator walls and design optimization for longevity with enhanced performance	1. Lakhbir Singh Brar (PI) 2. Om Prakash (Co-PI) 3. Arkadeb Mukhopadhyay (Co-PI)	ANRF	18- March - 2024	48.64 Lacs	3 years
2	Development of High Angle of Attack CFD Aerodynamic Database & Behaviour Model of Missile Configuration at Varying Geometric and Flow Parameters	1. Priyank Kumar (PI) 2. Sudip Das (Co-PI) 3. Lakhbir Singh Brar (Co-PI)	AR&DB, DRDO	25- June -2024	39.8 Lacs	2 years
3	A novel hard magnetic soft continuum curved robot: Multi-physical mechanics, active control, modulation, and optimized design (Acronym: NHMSC robot)	Dr. Sushanta Ghuku (PI)	SERB (currently ANRF)	19.02.2024	23.76 Lakhs	3 years
4	Development, Testing, Calibration and Validation of Stirling Engine for Decentralised Power Generation using Bio-gas Produced from Stubble Waste and Agricultural Waste	Dr. Rajeev Kumar	DST/WMT/ TDT	29.09.2021	93.26 Lakhs	4 Years

5.	Development of multi-layered lead free electroless Ni-B coating with high wear resistance, thermal stability and corrosion resistance for tribological applications	Dr. Arkadeb Mukhopadhyay	CRG / 2022 / 001441	16.02.2023	37.95 Lakhs	3 years
6	Development of Ni reinforced surface composite of AA5083 with high wear, tensile and fatigue resistance for modern transportation sector	Dr. Arun Kumar Kadian	CRG / 2023 / 002324	06-May-2024	52.08 Lacs	3 Year

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Investigation of Stones as Sensible Thermal Heat Storage Materials for Concentrated Solar Power Applications	Dr. Om Prakash (PI)	SERB-DST	14.01.2022	2450000	Completed
2	Green Hydrogen: The Future of Clean Energy	Dr. Om Prakash (PI)	ANRF-DST	14.11.2024	250000	Completed

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	Structural Design and stability validation of Mobile Trolley System mounted with 900 W Solar PV Plates and 1 HP Surface Water Pump.	M/s. Royal Instrument India Pvt.Ltd, Ratu Road, Ranch.	10-3-2025 to 19-3-2025	0.10	Dr. A. K. Roy,/ Dr. Arbind Kumar	Completed
2	Evaluation of the Structural Design Trolley for 2 HP Solar Movable Pumps	Directorate of Agriculture, Jharkhand	8-12-24 to 30-12-2024	0.40	Dr. A. K. Roy,/ Dr. Arbind Kumar	Completed

SECTION 3 SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode
1	Green Hydrogen: The Future of Clean Energy	Dr. Om Prakash	ANRF-DST	20.01.2025 - 24.01.2025	Hybrid

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Saurav Chakraborty	Harnessing Computational Fluid Dynamics in the Energy Sector	Indian Institute of Petroleum and Energy, Visakhapatnam	None	Hybrid mode, IIPE Visakhapatnam	23.01.2025 - 25.01.2025

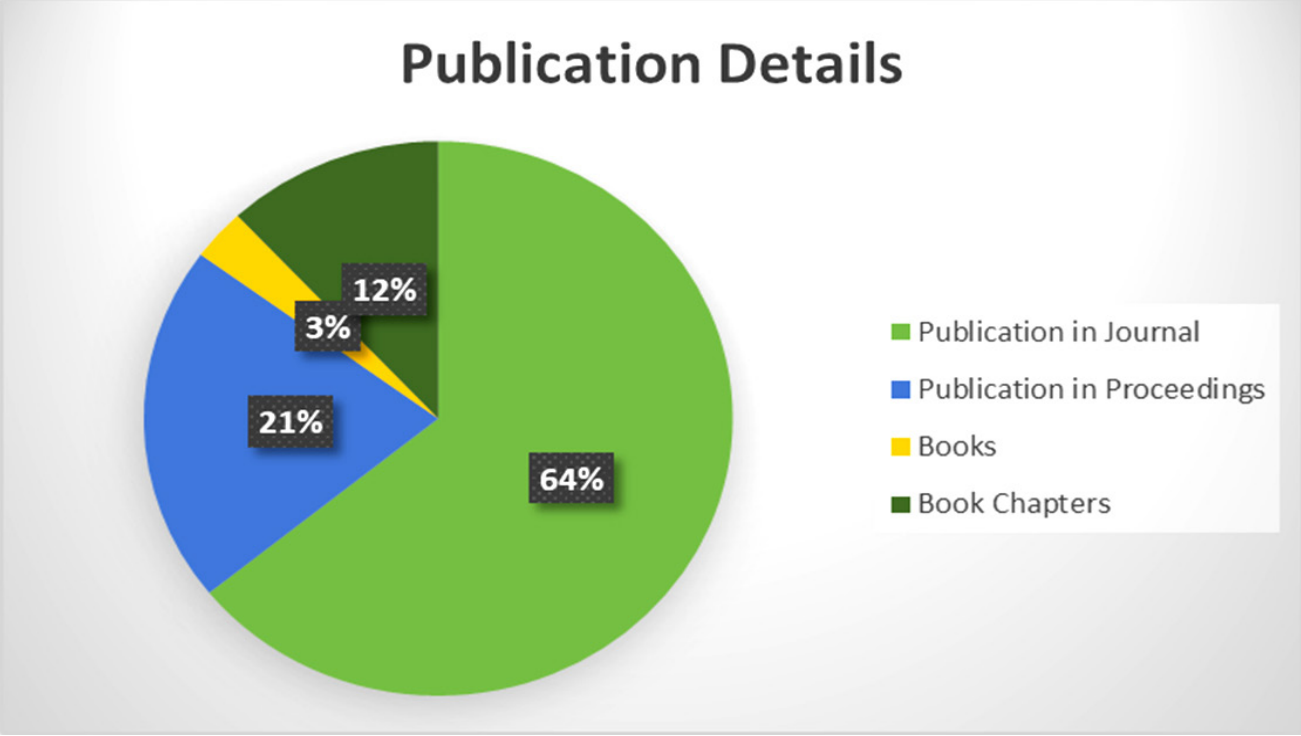
2	Dr. Sushanta Ghuku	3rd International and 15th National Conference on Industrial Problems on Machines & Mechanisms (IPRoMM-2024)	NIT Jamshedpur	None	NIT Jamshedpur, Jharkhand	19.12.2024 - 21.12.2024
3	Dr. Sushanta Ghuku	Faculty Development Program on Innovative Synergies in Mechanical Engineering-Design to Sustainability	Department of Mechanical Engineering, Sanaka Educational Trust's Group of Institution, Durgapur-713212	None	Online	21.04.2025 - 25.04.2025
4	Dr. Sushanta Ghuku	Awareness Session on Ethics in Publishing and Effective Paper Writing	Department of Mechanical Engineering, Birla Institute of Technology, Mesra	None	Department of Mechanical Engineering, BIT, Mesra, Ranchi-835215	24.08.2024
5	Dr. Paritosh Mahata	Summer School on Evolutionary Algorithms and Machine Learning	Dr BR Ambedkar National Institute of Technology Jalandhar	None	Online	16.06.2025 - 20.06.2025
6	Dr. Sujeet Kumar Mishra	One-week Short Term Programme on Sustainable Product Design and Manufacturing under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education, Government of India	Shri Mata Vaishno Devi University, Katra, Jammu	None	Online	22.07.2024 -27..07.2024
7	Dr. Sujeet Kumar Mishra	5 Days Workshop on The Future of Green Energy: Emerging Trends and Technologies	NIT Mizoram	None	Online	05.08.2024 - 09.08.2024
8	Dr. Sujeet Kumar Mishra	5 Days Workshop on Rural Technology with Special Emphasis on North East India	NIT Mizoram	None	Online	17.03.2025 - 21.03.2025
9	Dr. Sujeet Kumar Mishra	5 Days National Workshop on Materials Characterization and Sustainable Additive Manufacturing	NIT Rourkela	Self	Online	03.07.2025 - 07.07.2025

10	Dr. Praveen Mishra	Ethics in Publishing and Effective Paper Writing"	BIT Mesra	None	Department of Mechanical Engineering, BIT Mesra, Ranchi	24.08.2024
11	Dr. Praveen Mishra	One day Faculty Development workshop on KYaaT (Know Yourself as a Teacher)	BIT Mesra	None	BIT Mesra	23.04.2025
12	Dr. O.P.Pandey	One day Faculty Development workshop on KYaaT (Know Yourself as a Teacher)	BIT Mesra	None	BIT Mesra	23.04.2025

SECTION 4 — RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
	43	14	2	8



SECTION 5 — AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. Praveen Mishra	"ISTE Section Best Teacher Award-2024"	Muzaffarpur Institute of Technology, Muzaffarpur	National	2024

5.1 Patents

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Applied/ Granted	Short Description about the Patent
1	Om Prakash, Sounav Banerjee, Lakhbir Singh Brar, Anil Kumar	Hydrogen tank for usage in 2/3 wheelers (HydroRide)	202431104871	2024	Applied	This invention relates to a hydrogen storage tank for two or three-wheelers, offering enhanced thermal insulation and high-pressure tolerance, enabling safe and efficient hydrogen-powered transportation.
2	Mahato, Anil C., Mahto, Prabhat R., Sharma, Mukesh, Mukhopadhyay, Arkadeb, Kadian, Arun K.	A variable inertia flywheel for power controlling and delivering systems	202331085600 A	2024	Published on January 17, 2024.	New variable inertia flywheel technique to obtain variable inertia.
3	Mahato, Anil C., Kadian, Arun K., Mukhopadhyay, Arkadeb, Sharma, Mukesh	A wind turbine power transmission system	202531016821 A	2025	Published on April 04, 2025.	New scheme to operate dual power unit using single wind turbine
4	Mahato, Anil C., Mahato, Prabhat R., Srinivasarao, G.	Variable inertia flywheel system for inverted pendulum control	202531058700	2025	Filed on June 18, 2025.	A new variable inertia flywheel based inverted pendulum for robotics application
5	Praveen Mishra, Dhaneshwar Mahto,Nirmala Soren, Chandan Kumar	Solar-Powered Electric Vehicle Charging Hub with Energy Storage	440536-001	2024	Published on 22.08.2024	Solar-Powered Electric Vehicle Charging Hub with Energy Storage
6	Rahul, Sujeet Kumar Mishra, Deepak Kumar, Pankaj Kumar Dubey, Vikash Kumar Gorain, Yash Raj Mishra	Wall-mounted foldable and ventilated laptop workstation	453257-001 Dated 27/03/2025	2025	Published on 25.06.2025	This wall-mounted foldable & ventilated laptop workstation can easily be mounted on the wall and can be easily foldable with ease and fully ventilated.
7.	Rahul, Richa Pandey,Om Prakesh Pandey, Keya Pandey, Nitin Kumar, Praveen Mishra	Twin Load Lifter Attachment	440536-001	2025	Published on 24.03.2025	Twin Load Lifter Attachment

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. A.K.Roy	Associate Professor	Turbomachinery, CFD, Thermal Engineering	PhD	03.12.2010
2	Dr. Saurav Chakraborty	Assistant Professor	Thermal and Fluids Engineering	PhD	06.09.2021
3	Dr. Om Prakash	Assistant Professor	Thermal Engineering	PhD	26.03.2015
4	Dr. Sushanta Ghuku	Assistant Professor	Solid Mechanics / Machine Design	PhD	01.03.2023
5	Dr. Paritosh Mahata	Assistant Professor	Solid Mechanics and Design	PhD	11.07.2016
6	Dr. Nirmal Kumar	Assistant Professor	Solid Mechanics and Design	PhD	08.06.2015
7	Dr. Faisal Rahmani	Assistant Professor	Design	PhD	09.11.2021
8	Dr. Lakhbir Singh Brar	Assistant Professor	Fluid Mechanics and CFD	PhD	13.09.2010
9	Dr. Ritwik Maiti	Assistant Professor	Experimental & computational Granular Flows	PhD	31.08.2021
10	Dr. Sujeet Kumar Mishra	Assistant Professor	Design, Materials, Fracture	PhD	13.12.2005
11	Dr. Anil C. Mahato	Assistant Professor	Fluid power and Control, Dynamical System and Control	PhD	22.08.2019
12	Dr. Rajeev Kumar	Associate Professor	Energy, Plastic Deformation of Materials & Organic Waste to Power	PhD	01.07.2002
13	Dr. Kaushik Kumar	Professor	Design, Materials	PhD	10.09.2001
14	Dr. R. P. Sharma	Professor	Thermal Enggg.	PhD	1.6.1986
15	Dr. D. P. Mishra	Professor	Thermal Enggg.	PhD	19.12.2012
16	Dr. Richa Pandey	Assistant Professor	Additive Mfg, Mecatronics	PhD	1.7.2002
17.	Dr. Arbind Kumar	Professor	Thermal Enggg.	PhD	1.06.1986
18	Dr. S. K. Dhiman	Assistant Professor	Thermal Enggg.	PhD	5.7.2007
19	Dr. Praveen Mishra	Assistant Professor	Renewable Energy	PhD	23.01.2004
20	Dr. O. P. Pandey	Assistant Professor	Renewable Energy	PhD	15.07.2003
21	Dr. Abhijit Nag	Assistant Professor	Machine Design	PhD	2.01.2012
22	Dr. Arun Kumar Kadian	Assistant Professor	Machine Design	PhD	24.07.2019
23	Dr. Mukesh Sharma	Assistant Professor	Thermal Enggg.	PhD	16.08.2019
24	Dr. Arkadeb Mukhopadhyay	Assistant Professor	Machine Design , Tribology	PhD	14.8.2019
25	Dr. Praveen James sanga	Assistant Professor	Thermal Enggg.	PhD	9.07.2007

6.2 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Head of the Department of Mechanical Engineering	Chairman (Ex-officio)	Internal member
2.	Dr. D. P. Mishra(Mech Engg)	Professor	Internal member
3.	Dr. R. P. Sharma(Mech Engg)	Professor	Internal member
4.	Dr. Kaushik Kumar(Mech Engg)	Professor	Internal member
5.	Dr. Arbind Kumar(Mech Engg)	Professor	Internal member
6	Dr. A. K. Roy(Mech Engg)	Associate Professor	Internal member
7	Dr. Rajeev Kumar(Mech Engg)	Associate Professor	Internal member
8	Dr. Praveen Mishra(Mech Engg)	Assistant Professor	Internal member
9	Dr. Arun Kumar Kadian(Mech Engg)	Assistant Professor	Internal member

10	Dr. Gautam Sarkhel(Dept of Chem Engg)	Professor	Internal member
11	Dr. Joyjeet Ghosh(Dept of Prod & Industrial Engg)	Associate Professor	Internal member
12	One representative(BIT Patna)		
13	One representative(BIT Deogarh)		
14	One representative(UG student)		
15	One representative(PG student)		
16	Dr. Sanjay Kumar Samdarshi(Dept of Energy Engg, CUJ, Ranchi)	Professor	External member
17	Mr. Amit Kumar Pandey(Vice President, Operations, Bansal Wires Industries Ltd.)	V. P.	External member
18	Mr. Deepak Mishra(Tata Steel Ltd)	Head- project Procurement	External member
19	Mr. Prabhas Kumar(RDCIS, SAIL)	DGM(HOD, Energy Conservation)	External member
20	Dr. Bharat Bhushan(IT tata Metaliks Ltd)	Chief Digital Officer, GM Projects	External member
21	Dr. M. K. Sinha(Mech Engg Dept., NIT Jamshedpur)	Professor	External member
22	Dr. dayal Krishna Parhi(Mech Engg Dept., NIT Rourkela)	Professor(HAG)	External member
23	Dr. Swarup Kumar Mahapatra(School of Mech Sciences, IIT Bhubaneswar)	Professor(HOS)	External member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
1	MATHWORKS SIMULINK Workshop	Agnik Choudhury	Dr. Saurav Chakraborty	10.03.2025

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Mr Rahul Sharma and Members of BAJA SAE India 2025	The vehicle earned widespread acclaim for its innovation, reliability, and outstanding overall engineering excellence.	NATRAX, Pithampur, Madhya Pradesh	8/1/2025 – 10/1/2025	Pithampur, Madhya Pradesh
2	Group of Mech Engg students	Showcased the all terrain vehicle	Defence Ministry	13/9/2024	Deepatoli Cantonment, Ranchi

SECTION 8 OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof,(Dr.) Jeevan Vachan Tirkey	Department of Mechanical Engineering, IIT (BHU)	Department of Mechanical Engineering, B I T Mesra	22.04.2025	

2	Prof.(Dr.) Janak Shah	Founding Director of the Indian Institute of Management Udaipur (IIM Udaipur)	Department of Mechanical Engineering, B I T Mesra	11.02.2025	
3.	Prof.(Dr.) U K Saha	IIT Guwahati, Mech Engg	Department of Mechanical Engineering, B I T Mesra	09.05.2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Mr. Sanjoy Roy Choudhury (Mech 84-88)	Oil and Gas Energy at Tapel Oilfield Nigeria in Lagos	General Manager - Oil and Gas Energy at Tapel Oilfield Nigeria in Lagos and global head of Evalueserve's Insights & Advisory practice	
2	Mr. Debasish Kumar Saha BIT Roll No-103/74 (Br. Mechanical)	Mumbai Metro Lines(underground stations)	Consultant- Mumbai Metro Lines(underground stations)	
3	Dr. J. P Roy, B E- Mech Engg (1983-87)	GM, TALCHER THERMAL POWER PROJECT	GM, TALCHER THERMAL POWER PROJECT, NTPC.	

SECTION 9		INFRASTRUCTURE DEVELOPMENT

8.1 New Facilities Upgradation

The following equipment has been added in our Department for teaching and Research work.

- Control System Trainer
- Antolock Braking System
- 4 Cylinder 4 stroake Petrol Engine
- Cascade Refrigeration Test Rig
- Mechanical Heat Pump
- Pstchrometric Process and Air Conditioning Test Rig
- Free and Forced Convection Setup
- Pin Fin Apparatus
- Vertical Heat Transfer from vertical cylinder Apparatus

8.2 IT Upgrades

85 Computers are available in the Department of Mechanical Engineering for B Tech., M.Tech and PhD students.

SECTION 10		FUTURE PLANS (2025-26)

The Department of Mechanical Engineering is set to achieve notable progress in academics and research, aligning its initiatives with the National Education Policy (NEP) 2020 and Industry 4.0 requirements. Upcoming courses feature modules in robotics, AI-driven design, renewable energy systems, combustion engines, automobiles and advanced thermal engineering. The department's research focus includes sustainable technologies, smart materials, fluid-structure interactions, and the integration of AI/ML in mechanical applications. To facilitate these goals, infrastructure development is underway, including the upgradation of the robotics and automation laboratory with industrial-grade platforms, and modernization of thermal and fluid laboratories with advanced instrumentation. These efforts aim to promote interdisciplinary education, strengthen industry partnerships, and drive innovation-led research.

Department of Pharmaceutical Sciences & Technology

SECTION 1 **DEPARTMENTAL PROFILE**

1.1 About the Department / Off-Campus

The Department of Pharmaceutical Sciences and Technology was established in 1972. It boasts of a robust scientific community comprising of qualified and competent faculties, technical staffs, undergraduate & postgraduate students and research fellows.

1.2 Vision & Mission

- **Vision:**

  To become a Centre of Excellence in teaching and research for creating technical manpower to meet the technological needs in the area of healthcare system contributing towards socio-economic development of the country

- **Mission:**

  1. To develop state of the art education and research at undergraduate, post graduate and doctoral levels in different areas of pharmaceutical sciences and technology.
  2. To provide excellent infrastructural facilities to strengthen research and development activities.
  3. To extend proper academic guidance and career counseling to students in order to bridge the gap between academia and industry as per needs of the society.
  4. To develop effective pedagogical and research potential among the faculties.
  5. To create pharmaceutical knowledge pool with innovative, ethical and leadership qualities to serve the cause of the society
  6. To promote collaboration with academia, industries and research organizations at national and international levels in the areas of mutual interests.

1.3 Key Achievements

- **Student Achievements:**
  - Mr. Gaurav Rakhsit was chosen for Commonwealth Split-site Fellow (2024-25) at University of Birkbeck, UCL, UK
  - 4 M. Pharm and 2 PhD Scholars has secured placement in Leiutis Pharmacetical LLP, Hyderabad with average salary package of 4.5 Lacs p.a
  - Ms. Amrita Chatterjee and Mr. Rajdeep Saha received ANRF- International Travel Fellowship to attend and present their research in ISE-APSS Conference at Cape Town
- **Faculty Achievement:**
  - Dr. Trishna Bal and Dr. Bapi Gorain received BIT-FAA award (2024) under the category of *Highest Impact Factor* and *Highest Citations* respectively
  - Dr. Bapi Gorain and Dr. Pran Kishore Deb were recognized as one of the “World's Top 2% Most-Cited Scientists” by Stanford University, USA and Elsevier
  - Dr. Biswatrish Sarkar received ANRF- International Travel Fellowship to attend and present his research in ISE-APSS-2024 Congress at Cape Town
- **Overall Department Achievement:**
  - Department secured 32nd Rank under NIRF Ranking (2024)
  - B. Pharm.Programme is continuously accredited by NBA since 2017 and presently till 2025-26.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Pharm	4 years	60	PCI approved industry oriented professional program designed to equip students with the knowledge and skills essential to meet the growing demands of the pharmaceutical industry and regulations
2	M. Pharm (Pharmaceutics)	2 Years	15	PCI approved curriculum with emphasis on innovative formulation development and effective drug delivery for improved patient care
3	M. Pharm (Pharmaceutical Chemistry)	2 Years	15	PCI approved specialized curriculum offering advanced training in drug design, synthesis, and development, with a strong focus on medicinal chemistry and modern analytical techniques
4	M. Pharm (Pharmacology)	2 Years	15	PCI approved curriculum which delve into drug actions, mechanisms, and their impact on human physiology with strong focus on drug discovery process
5	M. Pharm (Pharmacognosy)	2 Years	15	PCI approved professional curriculum which serve as a link between traditional and modern science of natural products with expertise in latest extraction and characterization technologies of traditional medicine
6	M. Pharm (Pharmaceutical Quality Assurance)	2 Years	15	PCI approved professional curriculum to master quality management, regulatory compliance, and quality control system essential for pharmaceutical manufacturing.
7	PhD (in all the above discipline)	Average 3.5 years	As per availability of Guide	

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Swadesh Kumar Pattanik PHD/PH/10056/2019	"Studies on effects of antioxidants for the estimation of some cardiovascular drugs"	Dr. Kishanta Kr. Pradhan	05.7.2024
2	Dipan Roy PHD/PH/10002/2020	"Exploring Excipient Potential OfAlocasia Macrorrhizos (L.) G. Don Starch and Influence Of Modification On It"	Dr. K. Jayaram Kumar	02.8.2024
3	Sweta Kar PHD/PH/10052/2019	"Design, Development and Optimization of Nanoliposomes of Some Drugs"	Dr. Sandeep Kumar Singh	03.10.2024
4	Rojalini Samanta PHD/PH/10051/2017	"Studies on extracts of Oroxylum indicum (L.) Kurz and Datura metel L. with special reference to their Anticancer Properties"	Dr. Manik	17.10.2024
5	Riya Banerjee PHD/PH/10002/2021	"Exploring Amorphophallus paeonifolius (Dennst.) Nicolson Polysaccharides and Effect of Modification on its Adjuvant Properties"	Dr. K. Jayaram Kumar	01.11.2024
6	Fahaduddin PHD/PH/ 10001/2020	Fabrication and Evaluation of Composite Systems for Pharmaceutical and Biomedical Applications	Dr. (Mrs.) Trishna Bal	14.11.2024
7	Ravi Pratap Singh, PHD/PH/10007/2019	"Investigation of Anti-obesity and Hypolipidemic Activity of Bio-active Fractions of Annona squamosa (Linn.) and Kalanchoe pinnata (Lam.) Leaves"	Dr. Ashok Kumar Pattnaik	18.11.2024

8	Itishree Jogamaya Das PHD/PH/10010/2020	"Smart hydrogel as effective biomaterial for tissue regeneration and drug delivery applications"	Dr. (Mrs.) Trishna Bal	20.11.2024
9	Surabhi Chaurasia PHD/PH/10003/2021	"Exploring Artocarpus lakoochaseed polysaccharides for its use as Pharmaceutical adjuvant and in Food Packing"	Dr. (Mrs.) Animaa Pandey	12.12.2024
10	Nigam Jyoti Maiti PHD/PH/10051/2019	"Design, Synthesis and Studies on Some Benzotriazole Analogs"	Dr. Swastika Ganguly	20.12.2024
11	Mansi Agrawal PHD/PH/10008/2019	"Studies on Anti Asthmatic Properties of Active Fraction of Manilkara Zapota Leaves in the Treatment of Chemical Induced Asthma"	Dr. (Mrs.) Papiya Mitra Mazumder	15.1.2025
12	Priyanka Chandra PHD/PH/10058/2019	"Design, Synthesis and Study of Newer Azoles"	Dr. Swastika Ganguly Dr. Manik Ghosh	27.3.2025
13	Shreya Sharma PHD/PH/10053/2019	"Multifunctional Polymeric Micelles for Targeted Delivery of Pharmaceuticals and Biopharmaceuticals"	Dr. (Mrs.) Trishna Bal	11.4.2025
14	Pankaj Dagur PHD/PH/10054/2019	"Therapeutic Potential of Lac Dye Fractions in Cancer Treatment: Multimodal Anticancer Activity and Isolation of Laccaic Acids"	Dr. Manik	11.4.2025
15	Noopur Pandey PHD/PH/10005/2020	"A Mechanistic Approach to Tailor Physicochemical Properties of Pharmaceuticals through Crystal Engineering Techniques"	Dr. Animesh Ghosh	15.4.2025
16	Reetuparna Acharya PHD/PH/10051/2018	"Evaluation of Anti-Breast Cancer Activity of Some Azomethine Derivatives on DMBA Induced Experimental Model"	Dr. Pran Kishore Deb Dr. Shakti P. Pattanayak	21.4.2025
17	Rohit Kumar PHD/PH/10052/2021	"Exploring the Suitability of Modified Pink Potato Starch as Excipients in Pharmaceutical Dosage Form"	Dr. K. Jayaram Kumar	24.4.2025
18	Tushar Ranjan Mohapatra PHD/PH/10013/2020	"Design, Synthesis and Studies on Newer Benzimidazole Analogs"	Dr. S. Ganguly	03.6.2025
19	Shivangi Kumari PHD/PH/10055/2021	"Investigation of the Bioactive Fractions of Neolamarckiacadamba and Haldinacordifolia Leaves on Obesity-Induced Non-alcoholic Fatty Liver Disease (NAFLD) in the Rat Model"	Dr. Ashok Kr. Pattnaik	05.6.2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Inflatable vaginal tablet coin as vaginal contraceptive and spermicide (BT/PR51861/BMS/85/55/2024)	Dr. Trishna Bal (PI) and Dr. Manik Ghosh (Co-PI)	DBT	27.07.2024	76,00,000	2024-2027
2	Management of Type II Diabetes (T2D) using Tasar sericin	Dr. Trishna Bal (PI)	CTRTI, CSB, Ministry of Textiles, Govt. of India	01.04.2024	54,00,000	2024-2027
3	Aptamer based electrosensor for detection of NDMA impurity (a potential carcinogen)	Dr. Abhimanyu Dev (PI) and Dr. Monika Dwivedi (CO-PI)	ANRF	02.05.2024	39,86,300	2024-2027
4	Deciphering PIWI Proteins-noncoding RNA in Neoblast of Schmidtea Mediterranea for whole-body regeneration for Regenerative Medicine application	Dr. Gopal Pramanik (PI)	Seed Money Scheme, BIT Mesra	14.3.2025	5,00,000	2025-2027
5	Tailoring bioactive nanoconstituent embedded fishwastederived collagen/polycaprolactonenanofiber to promoterapid hemostasis in the management of traumaticconditions	Dr. Bapi Gorain (PI) and Dr. Santanu Ghosh (Co-PI)	Indian Council of Medical Research (ICMR), Govt. of India, New Delhi, India	01.11.2024	51,50,000	2025-2028
6	Anticancer Drug Discovery Targetting A2A Adenosine Receptor by Optimizing 2/4-Amino-5,6-substituted-thieno[2,3-d] pyridine Scaffold.	Dr. Pran Kishore Deb (PI)	Seed Money, BIT Mesra	20.08.2024	5,00,000	2024-2026

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	To develop a low dose acetazolamide tablet containing acetazolamide-p-amino benzoic acid cocrystal and to finalize the dosing range bioequivalent to 250 mg marketed tablet through pharmacometrics study	Dr. Animesh Ghosh (PI)	BIRAC-PACE	24.01.2024	41,35,000	2024-2026

2	Mitigation of poor physical and chemical properties of SGLT2 inhibitor by drug-drug cocrystallization with DPP4 inhibitor and comparative pharmacokinetic study with their respective co-administered drug products	Dr. Animesh Ghosh (PI)	SERB-CRG	14.12.2022	28,43,000	2022-2025
3	QbD based approaches and mechanistic studies towards development of verbascoside loaded topical formulations to treat diabetic wound	Dr. Biswatrish Sarkar (PI)	SERB-EMEQ	09.03.2022	40,53,000	2022-2025
4	Protein nanoparticlesintegrated biodegradablemicroneedle patch:Preclinical investigationon extended therapeuticeffect of apremilastthrough localizedintradermal delivery forPsoriasis	Dr. Ashok Kumar Pattanaik (PI) and Dr. BapiGorain (Co-PI)	Indian Council of Medical Research (ICMR), Govt. of India, New Delhi, India	14.11.2022	28,30,000	2022-2025

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Mechanistic insight ofhealing diabetic woundby different varieties ofhoney via regulating theexpression of adenosine monophosphate-activatedprotein kinase (AMPK),hypoxia inducible factor-1α (HIF-1α) andinflammatory cytokineswith special emphasis onidentification of active component in honey	Dr. Bapi Gorain (PI)	SERB-SRG	14.11.2022	29,40,000	21.2.2025

(d) CSR Funded Project

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	FromAwareness to Access: ACSR Commitment to MenstrualWellness	Leiutis Pharmaceuticals LLP	April 2025 - March 2026	Rs 1.5 Lakhs	PI: Dr.(Mrs.) Papiya Mitra Mazumder Co-PI: Dr. Suparna RoySarkar	Ongoing

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	Webinar-cum-workshop titled "Unlocking the World of Pharmacovigilance"	Dr. Biswatrish Sarkar	Global Safety Department of NovoNordisk, Bangalore and BIT Mesra	5.10.2024	Online
2	National Pharmacy Week	Dr. Papiya Mitra Mazumder	BIT, Mesra	18.11.2024	Offline
3	One-day workshop on "Health Economics and Outcome Research"	Dr. Pran Kishore Deb	BIT, Mesra	23.10.2024	Offline
4	Research Scholars' Day	Dr. Pran Kishore Deb (Convenor), Dr. Nimmy Kumari (Organizer)	BIT Mesra	7.3.2025	Offline
5	Pharmacon 2025	Prof. K. Jayaram Kumar,	BIT Mesra	7.3.2025	Offline
6	One-Day Awareness Program on "Impact of Pharmacy Education on Society"	Dr. Animesh Ghosh (Convenor), Organising secretaries: Dr. Bapi Gorain, Dr. Santanu Ghosh and Dr. Nimmy Kumari	NASI Jharkhand Chapter and BIT Mesra	18.3.2025	Offline
7	Summer Internship Program for Advanced Research (BIT-SIPAR 2025)	Dr. Papiya Mitra Mazumder and Dr. Suparna Roy Sarkar Dr. Manik, Dr. Subhadeep Roy, Dr. Sudeshna Kundu, Dr. Animesh Ghosh	BIT Mesra	02.06.2025 to 31.07.2025	Offline

3.2 Events Attended by Faculty

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Papiya Mitra Mazumder	Keynote Speaker and Chairperson of scientific sessions at NIPER Ahmedabad on International conference on CNS disorders: From mechanisms to medicines.	International conference on CNS disorders: From mechanisms to medicines.	NIPER Ahmedabad	NIPER Ahmedabad	17.02.2025 to 19.02.2025

2	Dr. Papiya Mitra Mazumder	Keynote Speaker at Arka Jain University Today national conference – PHARMATEK	Today national conference – PHARMATEK	Arka Jain University	Arka Jain University	23.02.2025 to 24.02.2025.
3	Dr. Papiya Mitra Mazumder	Chairperson for scientific session at International conference on integration of traditional medicine in modern healthcare system	Jharkhand Rai University, Ranchi, Jharkhand	Jharkhand Rai University, Ranchi, Jharkhand	Jharkhand Rai University, Ranchi, Jharkhand	2.3.2.25 to 3.3.2025
4	Dr. Swastika Ganguly	FDP On "Exploring new frontiers in Advaned Pharmaceutical Research"	DmBH Institute	DmBH Institute of Medical Sciences	DmBH Institute of Medical Sciences, Kolkata, West Bengal	24.05.2025 to 29.05.2025
5	Dr. Swastika Ganguly	FDP on "Pharmaceutical Education on the Digital Edge:Integrating Technology in Teaching and Research"	Bharat Technology	Bharat Technology	Bharat Technology, Ulberia, West Bengal	27.8.2024 to 31.08.2024
6	Dr. Swastika Ganguly	FDP on "Research Structuring and Publication Process"	Centre for Research and Training, NFED, Coimbatore	NFED	Online	23.06.2025 to 27.6.2025
7	K. Jayaram Kumar	Keynote Speaker in the AKTU Sponsored online Faculty Development Programme on Paradigm Shift in Pharmaceutical Sciences: from Bench to Bedside & Beyond	KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Ghaziabad	KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Ghaziabad	KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Ghaziabad	22.07.2024 to 28.07.2024
8	Dr. Animesh Ghosh	Keynote speaker at International conference on "Functional food and Neutraceutical Delivery"	Bioequivalence Study Center, Jadavpur Kolkata, ABS Clinical Solutions, Kolkata and HOla Nutriment, Kolkata in association with IPA Bengal Branch, IDA Bengal Chapter, APTI Bengal Branch and SFE, India	Bioequivalence Study Center, Jadavpur Kolkata, ABS Clinical Solutions, Kolkata and HOla Nutriment, Kolkata in association with IPA Bengal Branch, IDA Bengal Chapter, APTI Bengal Branch and SFE, India	Prof. Triguna Sen Memorial Auditorium, Jadavpur University,Kolkata, West Bengal	08.03.2025 to 09.03.2025

9	Dr. Animesh Ghosh	Keynote speaker at International conference on "Translating Pharmaceutical Innovations to Reality"	Department of Pharmacy, BITS Pilani in collaboration with Translational Biomedical Research Society & BITS-Technology Enabling Center	Department of Pharmacy, BITS Pilani in collaboration with Translational Biomedical Research Society & BITS-Technology Enabling Center	BITS Pilani Campus, Rajasthan	17.01.2025 to 18.01.2025
10	Animesh Ghosh	Keynote speaker at International conference on Think Health, Think Pharmacy	Calcutta Institute of Pharmaceutical Technology & Allied Health Sciences and Bharat Technology in Association with IPA Bengal Branch	Calcutta Institute of Pharmaceutical Technology & Allied Health Sciences and Bharat Technology in Association with IPA Bengal Branch	Banitabla, Ulberia, Howrah, West Bengal, India	18.11.2024 to 21.11.2024
11	Dr. Animesh Ghosh	FDP on "Pharmacy Education and Research in Biomedical Field: A complementary Approach for Health Care"	Department of Pharmaceutical Technology in association with IQAC, JIS University	Department of Pharmaceutical Technology in association with IQAC, JIS University	JIS University	24.02.2025 to 28.02.2025
12	Dr. Animesh Ghosh	FDP ON Pharmaceutical Education on the Digital edge: Integrating Technology in Teaching and Research	Bharat Technology, Ulberia, Howrah	Bharat Technology, Ulberia, Howrah	Bharat Technology, Ulberia, Howrah	27.08.20240to 31.08.2024
13	Biswatrish Sarkar	4 weeks online FDP entitled "AI Mastery for Educators"	Vishlesani-Hub, IIT Patna and Masai in partnership with Bolt IoT	IIT-Patna	Online	15.05.25 to 07.06.2025
14	Dr. Pran Kishore Deb	5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education"	All India Council for Technical Education (AICTE)	All India Council for Technical Education (AICTE)	Online	24-28 February 2025

15	Dr. Pran Kishore Deb	NATIONAL IP YATRA - Two Days Workshop on IPR	Ministry of Micro, Small & Medium Enterprises	Ministry of Micro, Small & Medium Enterprises	Hotel Chanakya BNR, Ranchi	24-25 March 2025
16	Dr. Pran Kishore Deb	Research Scholar Day 2025	Dept. of Pharm. Sci. & Tech., BIT Mesra, Ranchi	BIT Mesra, Ranchi	BIT Mesra, Ranchi	7th March 2025
17	Dr. Santanu Ghosh	5-day Faculty Development Program on Next-Gen Therapeutics: Emerging Trends in Drug Discovery and Biotechnology	Amity University, Kolkata	Amity University, Kolkata	Online	09/06/25-13/06/25
18	Dr. Santanu Ghosh	Research structuring and publication process	Centre for Research & Training; National Foundation for Entrepreneurship Development	NFED	Online	23/06/25-27/06/25
19	Dr. Anima Pandey	FDP on Innovation in Pharmacy Education and Application of AI: Enhancing Teaching-Learning Practices	In collaboration with Society of Pharmaceutical Education & Research (SPER) One Week From 23rd to 28th June 2025 Organized by ISF College of Pharmacy (An Autonomous College) GT Road, Ghal-Kalan, Moga		ISF College of Pharmacy (An Autonomous College) GT Road, Ghal-Kalan, Moga	23.06.2025-28.06.25
20	Dr. Anima Pandey	FDP on Recent Trends in the Developments of Pharmaceutical Education and Research	Internal Quality Assurance Cell (IQAC) of Nirmala College of Health Science, Chalakudy, Thrissur, Kerala		Nirmala College of Health Science, Chalakudy, Thrissur, Kerala	17.06.25-21.06.25
21	Dr. Anima Pandey	Resource person in Webinar on “Effective strategies for selecting Research Topic	Kashi Institute of Pharmacy, Varanasi, Uttar Pradesh		Kashi Institute of Pharmacy, Varanasi, UP	03-10-24

22	Dr. K K Pradhan	BST-IPGA e-FDP held from 22nd July to 30th July, 2024 organised by Bengal School of Technology (BST) in association with The Indian Pharmacy Graduates' Association (IPGA), New Delhi.	Bengal School of Technology (BST) in association with The Indian Pharmacy Graduates' Association (IPGA), New Delhi	Bengal School of Technology (BST) in association with The Indian Pharmacy Graduates' Association (IPGA), New Delhi	Bengal School of Technology (BST), Kolkata	22nd July to 30th July, 2024
23	Dr. K K Pradhan	Two-day International Conference on "Drug Discovery: Advances, Challenges & Perspectives" during 13th & 14th September 2024	Brainware University, Kolkata	Brainware University, Kolkata	Department of Pharmaceutical Technology, Brainware University, Kolkata	13th & 14th September 2024
24	Dr. K K Pradhan	One day Induction Programme and national Nutrition Week Celebration on 4-09-2024	NSUI, Jamshedpur	NSUI, Jamshedpur	NSUI, Jamshedpur	4th September, 2024
25	Dr. K K Pradhan	One day Lecture on "Instrumentation and Handling of HPLC" at IMT Pharmacy College, Puri, Odisha	IMT, Puri	IMT, Puri	IMT, Puri	12th April, 2025
26	Dr. Nimmy Kumari	Five-Day National Faculty Development Programme On "Research Structuring & Publication Process"	Centre for Research & Training (CRT) and National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	NFED	Online	23.06.2025 to 27.06.2025
27	Dr. Nimmy Kumari	Attended one day seminar on Impact of Pharmacy Education on Society	Birla Institute of Technology, Mesra, Ranchi	BIT, MESRA and NASI Jharkhand Chapter	BIT, Mesra	18.03.2025

28	Sudeshna Kundu	Five Day National Faculty Development Program Research Structuring and Publication Process	Centre for Research and Training National Foundation for Entrepreneurship Development Coimbatore, Tamil Nadu	NFED	Online	23.06.2025-27.06.2025
29	Sudeshna Kundu	Attended one day seminar on Impact of Pharmacy Education on Society	Birla Institute of Technology, Mesra	BIT, MESRA and NASI Jharkhand Chapter	BIT Mesra	18.03.2025

SECTION 4 — RESEARCH PUBLICATIONS

4.4 Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Books	Total Number of Publications: Books, Chapters
1	101	07	Nil	15

SECTION 5 — AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Pran Kishore Deb	Best Vidyanjali Contributor Award	Samagra Shiksha, Cachar District Education Department, Govt. of Assam	State Level	2025
2	Dr. Kishanta Kumar Pradhan	Dr. P.D. Sethi National Award 2023	ANCHROM and CAMAG	National	2025
3	Dr. Pran Kishore Deb	Top 2% Scientist	Stanford University	International	2024
4	Dr. BapiGorain	Top 2% Scientist	Stanford University	International	2024

5	Dr. (Mrs.) Trishna Bal	BITFacultyAppreciation AwardBITFAA'24 (for publication in journal with Highest ImpactFactor)	BIT, Mesra	National	2024
6	Dr. BapiGorain	BITFacultyAppreciation AwardBITFAA'24 (for Highest citations received)	BIT, Mesra	National	2024
7	Dr. Biswatrish Sarkar	Prof. Peter Houghton Innovation Award (Runner-up,Institutional)	University of Pretoria at Capetown, South Africa.	International	2024
8	Dr. Biswatrish Sarkar	International Travel Fellowship	Anusandhan National Research Foundation, Government of India	National	2024
9	Dr. Animesh Ghosh	IPA-ACG-SciTech Award 2024 in the category of Best Innovative Development of a Solid DosageFormulation,	IPA	National	2024
10	Dr. Mahendra Pratap Chopra	Fellowship of the Indian Pharmaceutical Association (IPA)	IPA	National	2024

6.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
	Manoj Goyal, Charan Singh, Jayant Kumar, Sandeep Kumar Yadav, Arjun Patra, Biswatrish Sarkar, Anil Pareek, Nishant Sudhir Jain, Sandeep Kumar Singh	Rodent behavioral assessment apparatus	424485-001	2025	Granted	A novel design of an apparatus to monitor behaviour of small experimental rodents
	Biswatrish Sarkar, Rajdeep Saha, Satish Kumar, Ankit Majie	Floating dialysis plate for drug release	412110-001	2025	Granted	A novel design of a dialysing membrane holding plate which can be used toharnesses the buoyancy of the membrane to achieve controlled and sustained drug release
	Manoj Goyal, Charan Singh, Jayant Kumar, Sandeep Kumar Yadav, Arjun Patra, Biswatrish Sarkar, Anil Pareek, Nishant Sudhir Jain, Sandeep Kumar Singh	Rota rod apparatus for rat	418681-001	2024	Granted	A novel design of a rota rod apparatus for assessing motor coordination and learning among experimental rodents

	Biswatrish Sarkar, Prashanta Kumar Deb, Sanjay K Banerjee, Rajdeep Saha, Amrita Chatterjee, Vikas Tiwari, Yogneder Aggarwal, Rahul Kumar	A method for formulating phytochemical-based cardioprotective composition	202431045123	2024	Applied	The innovation pertains to the development of a chemically standardized novel polyphenolic phytopharmaceutical derived from Clerodendrumspecies for enhanced cardioprotective properties.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Highest Qualification	Date of Joining
	Dr. Papiya Mitra Mazumder	Professor and Head	Pharmacology	PhD	09.07.2003
	Dr. Swastika Ganguly	Professor	Pharmaceutical Chemistry	PhD	28.03.2001
	Dr. K. Jayaram Kumar	Professor	Pharmacognosy	PhD	06.03.2000
	Dr. Venkatesan Jayaprakash	Professor	Pharmaceutical Chemistry	PhD	16.02.2006
	Dr. Ashok Kumar Patnaik	Associate Professor	Pharmacology	PhD	15.7.2003
	Dr. Animesh Ghosh	Professor	Pharmaceutics	PhD	30.11.2009
	Dr. Manik Ghosh	Associate Professor	Pharmaceutical Quality Assurance	PhD	14.8.2006
	Dr. Sandeep Kumar Singh	Associate Professor	Pharmaceutics	PhD	02.02.2009
	Dr. Biswatrish Sarkar	Associate Professor	Pharmaceutical Biotechnology	PhD	09.07.2007
	Dr. Abhimanyu Dev	Assistant Professor	Pharmaceutical Biotechnology	PhD	25.06.2007
	Dr. Trishna Bal	Assistant Professor	Pharmaceutics	PhD	16.05.2008
	Dr. Mahendra Pratap Chopra	Assistant Professor	Pharmacology	PhD	01.07.2002
	Dr. Pran Kishore Deb	Assistant Professor	Pharmaceutical Chemistry	PhD	22.06.2023
	Dr. Santanu Ghosh	Assistant Professor	Pharmaceutical Chemistry	PhD	22.02.2023
	Dr. BapiGorain	Assistant Professor	Pharmacology	PhD	18.10.2021
	Dr. Anima Pandey	Assistant Professor	Pharmacognosy	PhD	01.07.2004
	Dr. Kishanta Kumar Pradhan	Assistant Professor	Pharmaceutical Quality Assurance	PhD	01.02.2012
	Dr. Gopal Pramanik	Assistant Professor	Pharmacology	PhD	26.02.2024
	Dr. Neelima Sharma	Assistant Professor	Pharmacology	PhD	05.02.2009
	Dr. Nimmy Kumari	Assistant Professor	Pharmaceutics	PhD	28.02.2024
	Dr. Sudeshna Kundu	Assistant Professor	Pharmaceutics	PhD	28.02.2025
	Dr. Subhadeep Roy	Assistant Professor	Pharmacology	PhD	05.03.2025

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Dr. R. N. Gupta	Adjunct Professor	Professor (Retd.) BIT, Mesra National President, IPA
2.	Mr. Raweesh Chaudhary	Adjunct Professor	Senior Director, Medical Strategy SERB Pharmaceuticals, USA

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1	Dr. Papiya M. Mazumder	HOD	Chairman (Ex-Officio)
2	Dr. Swastika Ganguly	Professor	Member (Internal)
3	Dr. K. Jayaram Kumar	Professor	Member (Internal)
4	Dr. Venkatesan J.	Professor	Member (Internal)
5	Dr. Animesh Ghosh	Professor	Member (Internal)
6	Dr. Manik Ghosh	Associate Professor	Member (Internal)
7	Dr. Anima Pandey	Assistant Professor	Member (Internal)
8	Dr. Neelima Sharma	Assistant Professor	Member (Internal)
9	Dr. Ashoke Sharon (Dept. of Chemistry)	Professor	Member (Internal)
10	Dr. Gautam Sarkhel (Dept. of Chemical Engg.)	Professor	Member (Internal)
11	Dr. Senthil Raja A. (IIT, BHU, Varanasi)	Professor	Member (External)
12	Dr. Sanmoy Karmakar (Jadavpur University, Kolkata)	Professor	Member (External)
13	Dr. K. Chandrashekhar (Leiutis Pharmaceutical LLP, Hyderabad	CEO	Member (External)
14	Dr. Abhay Kumar Srivastava Mankind Pharma Ltd.	President, Operations	Member (External)

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Talk on IPR: Career in IP!	NA	Dr. BapiGorain	26th May 2025
2	Impact of Pharmacy Education on Society	NA	Prof. Animesh Ghosh	18th March 2025
3	Research Scholars' Day 2025	Prasenjit Maity & Rahul Ghosh	Dr. Pran Kishore Deb (Convenor) Dr. Nimmy Kumari (Organizing Secretary)	7th March 2025
4	PHARMACON	Gautham Gupta & Vidyut Ankur	Prof. K. Jayaram Kumar	7th March 2025
5	Workshop on Health Economics and Outcome Research	Prasenjit Maity	Dr. Pran Kishore Deb	23rd October 2024
6	National Pharmacy Week	NA	Dr. Mahendra Pratap Chopra	18th November 2024

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Annaya Sinha	2nd position (Mood Indigo 2024 (An Enigma of Ethnicity)	IIT Bombay	December 25-26, 2024,	IIT Bombay
2	Group of Students (Devbrat Mishra, Rahul Gupta, Vedang Gautam, Priyanshu Kumar Yadav, Abhay Kumar, Raj Mandal, Nitish Kumar, Shashi Shekha, Souvik Mandal, Piyush Kumar, Sarthak Bhattacharya, Kumar Aditya Choudhary, Anant Pratik, Fanish Vyas, Pratik Kumar Mahto)	Runner Up (Pharma Cup 2025)	BIT Mesra		Sports Complex, BIT Mesra

7.3 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1	Sakshi Shyama	B.Pharm	II	9.60
2	Aayush Anant	B.Pharm	V	9.77
3	Abhijeet Kumar	B.Pharm	IV	9.30
4	Snigdha Chakraborty	B.Pharm	VI	9.63

SECTION 8 OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof. Umesh Banakar	President of Banakar Consulting Services, Westfield, Indiana, USA	Dr. BapiGorain	26thMay 2025	
2	Prof. (Dr.) Vandana B. Patravale	Professor of Pharmaceutics, Institute of Chemical Technology (ICT), Mumbai	Prof. Animesh Ghosh	18th March 2025	

3	Prof. (Dr.) Mitali Chatterjee	Professor of Pharmacology, Institute of Postgraduate Medical Education & Research (IPGMER), Kolkata, India	Prof. Animesh Ghosh	18th March 2025	
4	Dr. K. Chandrasekhar	CEO of Leiutis Pharmaceuticals, India	Dr. Pran Kishore Deb (Convenor) & Dr. Nimmy Kumari (Organizing Secretary)	7th March 2025	
5	Prof. R. N. Gupta	President of Indian Pharmaceutical Association (IPA)	Prof. K. Jayaram Kumar	7th March 2025 and 18thNovember 2024	
6	Mr. Shubham Sharma	Founder and CEO of TRIPOD HEOR (OPC) Private Limited, India	Dr. Pran Kishore Deb & Dr. Biswatirish Sarkar	23rd October 2024	

8.2 Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description	Photograph
1.	Dr. Sanmoy Karmakar (1992 Batch, B. Pharm)	Professor Dept. of Pharmaceutical Technology. Jadavpur University, Kolkata	
2.	Ms. Ritu Sahay Drug Controller Jharkhand State (1984 batch B. Pharm)	She is serving as Director, Drugs Control Administration, Ministry of Health, Govt. of Jharkhand since February 2015	

3.	Mr. Raweesh Chaudhary, Director - Strategy, Medical Excellence. Biogen. USA (1992 batch B. Pharm)	He has 23 years of wide-ranging experience and stellar track record in Medical Affairs, Product management and commercial roles spread across countries like India, Canada and USA	
4.	Dr. Dharmendra Singhal Senior Vice President-CMS R&D Takeda (1992 batch B. Pharm)	He is leading a global organization responsible for CMC (API/Chemistry, drug product and analytics) development to advance NCEs from preclinical stage through clinical development to commercial manufacturing and ensuring marketed support/technical life-cycle management of Roche SM commercial products.	
5.	Mr. Naveen Sharma President, Cliantha Research Ltd., Ahmedabad (1989 batch B. Pharm, 1993 batch M. Pharm.)	Expert in Bioavailability and bioequivalence, he has more than 25 years experience in the industry. With his strong business acumen and strategic planning he heads the Cliantha Research Ltdan leading CRO in the country.	
6	Dr. Lalit Lata Jha Dean and Principal Parul University, Goa (B. Pharm 1995-1999)	Professor of Pharmacy with more than 20 years of experience in academics and research	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	MACS-AgharkarResearch Institute, Pune.	This MoU signifies thestart of a promising partnership, driven by a shared commitment to advancing research and fostering innovation.	2024
2	Department of Biotechnology and FoodScience, Durban University of Technology, SouthAfrica	Memoranda of Understanding (MoUs) were signed by Dr. Pran Kishore Deb to fosteracademic and research collaborations with two esteemed institutions. The first MoU, with Professor (Dr.) Viresh Mohanlall, Department of Biotechnology and Food Science, Durban University of Technology, South Africa, aims to promote joint research initiatives. The second MoU, with Dr. Katharigatta N. Venugopala, Department of Pharmaceutical Sciences, College of Clinical Pharmacy, King Faisal University, Saudi Arabia, focuses on strengthening academic ties and collaborative research efforts.	2024

3	Department of Pharmaceutical Sciences,College of Clinical Pharmacy, King Faisal University, Saudi Arabia	Memoranda of Understanding (MoUs) were signed by Dr. Pran Kishore Deb to foster academic and research collaborations with two esteemed institutions. The first MoU, with Professor (Dr.) Viresh Mohanlall, Department of Biotechnology and Food Science, Durban University of Technology, South Africa, aims to promote joint research initiatives. The second MoU, with Dr. Katharigatta N. Venugopala, Department of Pharmaceutical Sciences, College of Clinical Pharmacy, King Faisal University, Saudi Arabia, focuses on strengthening academic ties and collaborative research efforts.	2024
4	Central Tasar Research andTraining Institute, Central Silk Board,Government of India	An MoU led by Dr. Trishna Bal was signed between Bit Mesra and the Central Tasar Research and Training Institute, Central Silk Board, Government of India for an extramural project titled “Management of Type 2 Diabetes (T2D) using Tasar Sericin.” This collaboration aims to explore innovative solutions for managing Type 2Diabetes through the potential therapeutic properties of tasar sericin	2024

8.4 Industry Connect

- 49 B. Pharm students underwent summer training during May-June 2025 at Mankind Pharma (Paonta Sahib and Sikkim) and Cipla (Sikkim)
- Distinguished visitors from Leiutis Pharma, Nandu Chemicals visited the department for possible collaboration.

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- The department has set up a new animal cell culture facility
- 4 new laboratories catering the PG and PhD students has been added to the existing facility

9.2 IT Upgrades

30 Number of computers available in the department to facilitate Computer Aided Drug Design and conduct UG and PG classes on the same

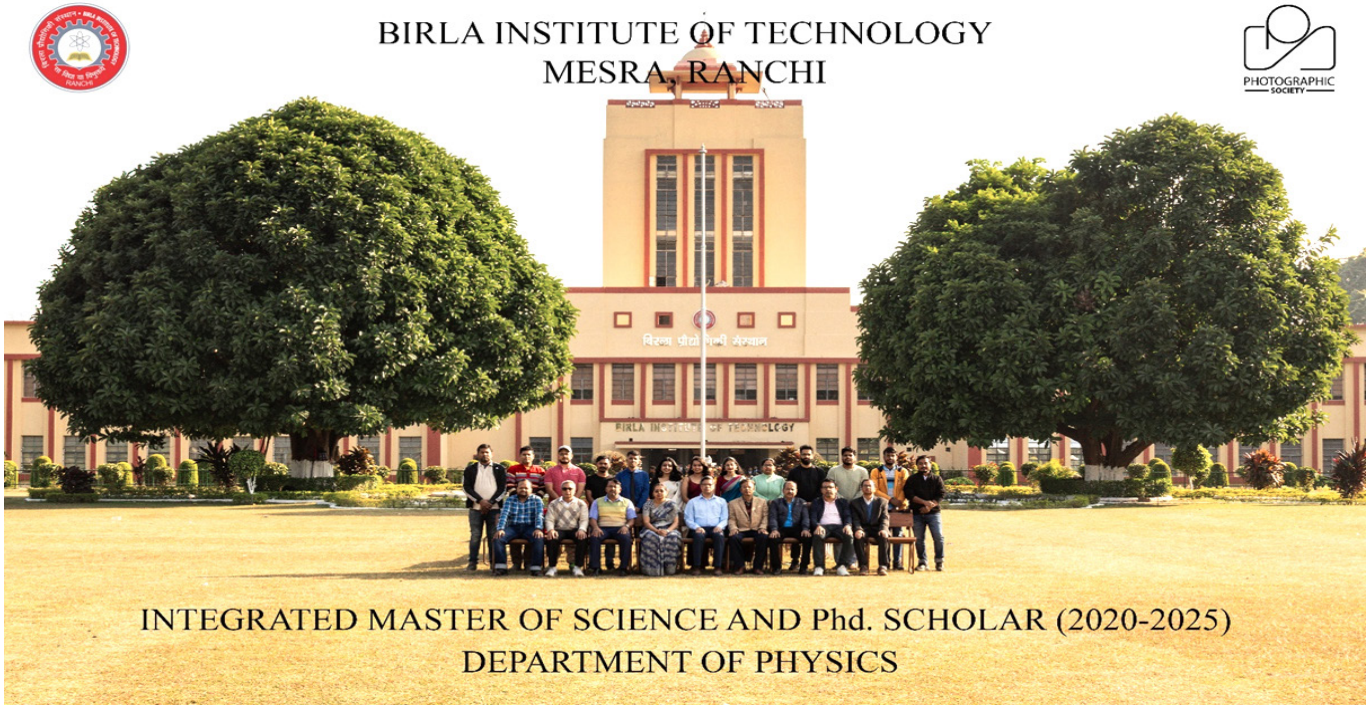
SECTION 10		FUTURE PLANS (2025-26)

The department aspire to become a centre of excellence of pharmaceutical education and research with specific focus on:

- Nurture deeper industry partnerships:for structured internships and collaborative projects.
- Expand translational research: focusing on current global challenges (e.g., targeteddrug delivery systems for diabetes, cancer, wounds andanti-viral therapies).
- Promote faculty and student mobility: enabling exchange and exposure to global research labs and platforms.
- Strengthen placement services, equipping students with curated soft-skill and technical training, and broadening recruiter outreach.
- Take leverage from vast alumni networks in industry and academia for mentorship, placements, and collaboration.

Department of Physics

SECTION 1		DEPARTMENTAL PROFILE



1.1 About the Department / Off-Campus

The Department of Physics was established in 1955. The Department offers Ph.D. in various areas of Physics, M.Sc. in Physics, Integrated M.Sc. in Physics and B.E. Physics course. The Department has a strong pool of highly qualified and motivated faculty members, and excellent laboratory facilities. It is well supported financially through the "Fund for Improvement in Science & Technology Infrastructure" (FIST) Programme of the Department of Science and Technology, New Delhi and "Special Assistance Programme" (SAP) of the UGC. The Department has also received significant funds under TEQIP Phases – I, II & III. At present, the Department has many ongoing research projects sponsored by UGC, DST, BRNS, ARDB, ISRO, DRDO and CSIR. Some faculty members have also participated in several international (Indo-German, Indo-Russian, Indo-Israel) collaborative projects.

Other than BTech Courses, the important thrust of the Department of Physics is the 5-year Integrated M. Sc. Programme which has been offering since 2011. The course aims to train the young students with the following objectives:

- To impart high quality Science education in a vibrant academic ambience.
- To prepare students to take up challenges as a researcher in diverse areas of theoretical and experimental physics.
- Excellent lab, library, and internet facilities.
- Opportunity of pursuing high end research as project work.
- During 9th and 10th semester, students may opt special papers for the following areas:

  Theoretical and Computational Physics, Condensed Matter Physics, Electronics, Photonics, and Plasma Sciences.

1.2 Vision & Mission

Vision:

- The vision of the department is to achieve excellence in undergraduate, postgraduate education and research for scholarly inquiry and development of new knowledge.

Mission:

- To train the students to be lifelong learners who will contribute to the creation of new knowledge, new technology, and innovation through excellence in research in emerging areas.
- To educate students to be the future leaders in science, technology, industry, education and other professions and succeed in a globally competitive environment
- To create national and international collaborations for research engagement in strategic areas of research
- To provide beneficial service to local, state, national and international communities

1.3 Key Achievements

- **Student Achievements:**
  - Soumyajeet Das (IPH/10012/21) All India Rank -11 in Joint Entrance Screening Test (JEST) in PHYSICS held on 22.06.2025
  - During Army Mela held at Ranchi, Miss. Manisha Kumari and Manish Kumar Singh demonstrated flexible nano-generators and photodetectors for military use.
- **Faculty Achievement:**
  - Invited talk by Dr. R. Ray at the FPLO Workshop "FPLO Workshop "Understanding and predicting materials properties by DFT -- limits of reliability"/ Tutorial FPLO" held at Max Plank Institute for Chemical Physics of Solids (MPI-CPfS), Dresden, Germany
  - Dr. Ram Krishna Dewanjee was awarded the Fundamental Physics Breakthrough Prize 2025 for his contributions in CMS experiments at LHC, CERN. Link: https://breakthroughprize.org/Laureates/1/L3994
  - Dr. Dilip K. Singh was invited to participate in the Defence technical expo meet "EAST-TECH 2024", organized by Eastern Command of Indian Army, exclusively attended by senior officials of Indian Defence officers, Global Defence Tech and equipment suppliers and few selected noted academic institutions of country (like IIT Delhi, IIT Kanpur, NIT Durgapur, IIT-ISM Dhanbad, Jadavpur university) held at Kolkata during 05-06th November, 2024. "Piezoelectric Nano-generators" developed at BIT Mesra capable of charging the defence walkie-talkies through pressure generated by defence personnel while walking, was showcased.
  - Our faculty members have excelled not only in research but also in their steadfast and unwavering commitment to elevating the standards of teaching. A moment of pride for the department came on August 15, 2024, when Dr. Sourabh Lahiri (Assistant Professor) was honored with the Distinguished Teacher and Mentor Award (BITFAA'24) in recognition of his exemplary contributions. The award was conferred upon him by the Hon'ble Vice-Chancellor of BIT Mesra.
- **Overall Department Achievement:**
  - This academic year has been an outstanding one for the department, with faculty and students achieving remarkable milestones. The research output reached a new high, with an impressive 113 publications.
  - Adding to these achievements, the department hosted, The 2nd Indo-European Symposium on Surface Engineering (IESSE-2024) on December 11th and 12th, 2024, under the convenorship of Dr. Rishi Sharma (Assistant Professor). The event proved to be highly impactful, meeting its objectives and receiving excellent feedback from participants.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	Integrated M.Sc.	5 years	30	Rigorous 5-year (10 semesters) Physics course NEP-2020 compliant Exposure to C/C++/Python programming, and MATLAB applications. Exposure to advanced courses like nanotechnology. Well-equipped undergraduate and postgraduate laboratories Project work and mini research projects in the later semesters Potential to contribute to publications or conferences under faculty guidance Active collaborations with research labs and universities across India Strong foundation for Ph.D. programs & research fellowships Placement support and internships available through the institute Exposure to seminars, workshops and guest lectures Opportunity to engage with active research groups in experimental and theoretical physics
2	M.Sc.	2 years	15	Rigorous 2-year (4 semesters) Physics course NEP-2020 compliant Exposure to C/C++/Python programming, and MATLAB applications. Exposure to advanced courses like nanotechnology. Well-equipped undergraduate and postgraduate laboratories Project work and mini research projects in the later semesters Potential to contribute to publications or conferences under faculty guidance Active collaborations with research labs and universities across India Strong foundation for Ph.D. programs & research fellowships Placement support and internships available through the institute Exposure to seminars, workshops and guest lectures Opportunity to engage with active research groups in experimental and theoretical physics

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
	Ms. Manu Priyadarshani	Synthesis of graphene-based materials for next generation solar cells	Dr. Rishi Sharma	23.06.2025
	Bibek Kumar Sonu	Development of some rare earth modified barium zirconate cerate as an efficient proton conducting electrolyte.	Dr Ela Rout	29.10.2024

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (in lac Rs.)	Duration
1.	Development of Ni reinforced Surface composite of AA5083 with high wear, tensile and fatigue resistance for modern transportation sector	Dr. Dilip Kumar Singh (Co-PI)	DST Govt. of India	06th May, 2024	52.00	2024-2027

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (in Lac Rs.)	Duration
1.	Creation of a multi-purpose FPGA based setup for Trigger, DAQ and machine learning algorithm development for High Energy Physics applications	R.K. Dewanjee (PI)	BIT SMS	01.07.2024	5.00	2 years
2.	Atmospheric plasma surface treatment and development of graphene-reinforced zinc-rich nanocomposite coatings on aircraft structure materials for superior corrosion and wear resistance	Dr. Sanat Kumar Mukherjee (PI)	ANRB-SERB (CRG)	13.02.2023	34.21	3 years
3.	Development of novel p-type TCOs using HiPIMS and fabrication of transparent p-n heterojunction diodes	Dr. Sanat Kumar Mukherjee (PI)	UGC-DAE CSR	01.05.2023	0.45 p.a.	3 years
4.	Nanofluids based solar heat harvesting through modified hybrid PV-TEG panel for sustained solar output and extended life span	Dr. Sanat Kumar Mukherjee (Co-PI)	SERB	01.03.2024	37.12	3 years
5.	Development of solid lubricant coatings for bearing components using custom made magnetron sputtering system	Dr. Rishi Sharma (PI)	SERB	13.02.2023	46.90	3 years
6.	Modifications in Atmospheric Energetics over Indian domain during Monsoon in response to ENSO Phases	Dr. Nishi Srivastava (PI)	SERB-MATRICS	05.01.2023	6.60	3 years
7.	Biocompatibility and mechanical studies of nanostructured HAP,metal doped nanostructured HAPon alumina by RF Magnetron Sputtering Deposition	Dr. S. K. Sinha (Co-PI)	DST-SERB	28.02.2022	27.71	3.5 years
8.	Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro-Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand	Dr. Madhu Priya (Co-PI)	ANRF-CRG	11.05.2022	38.10	3 years

9.	Development of self-lubricating coating for bearing applications	Dr. Rishi Sharma (PI)	UGC-DAE CSR	24.06.2022	1.35	3 years
10.	Synthesis of Reduced Graphene Oxide-metal nanoparticles for early detection of Hepatocellular Carcinoma through Surface Enhanced Raman Spectroscopy	Dr. Rishi Sharma (Co-PI)	UGC-DAE CSR	24.06.2022	1.35	3 years
11.	Exploring Resistive Random Access Memory Devices based on Two-Dimensional Materials for Non-Volatile Memory Applications	Dr. Anupam Roy (PI)	SERB	27.12.2022	32.11	2 years
12.	Magnetic excitations and crystal field effects in the honeycomb quantum antiferromagnets: Application to RCl_3 (R = rare earths)	Dr. R Ray (PI)	SERB-SRG	22.12.2023	19.91	2 years
13.	Gravitational lensing, shadows, and quasi-normal modes of Ellis-Bronnikov wormholes embedded in five dimensional warped braneworld background	Dr. Suman Ghosh (PI)	BIT Mesra	28.08.2023	4.00	2 years
14.	Hafnium Loaded Proton Conducting Oxide for Direct - Hydrocarbon Intermediate Temperature Solid Oxide Fuel Cell Application	Dr. Ela Rout (PI)	SERB, DST	01.05.2024	45.37	3 years
15.	Optimization of Chemical Vapor Deposition (CVD) growth conditions for defect free large crystallite 2D-Semiconductors and their hetro-structures for Opto-electronic applications.	Dr. Dilip Kumar Singh (PI)	UGC-DAE-CSR Indore	24.06. 2022	5.93	3 years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (in lac Rs.)	Date of Completion
1.	Smart onboard big-data monitoring and processing tools for safer road transportation.	Dr. Dilip Kumar Singh (PI)	NM-ICPS, ISI Kolkata, DST Govt. of India	26.09.2022	5.02	2025
2.	Self-fitting 4-D printed smart scaffolds with efficient bone regenerative potential.	Dr. Dilip Kumar Singh (Co-PI)	CRG, DST Govt. of India	24.12.2021	40.26	2025
3.	Investigation of Stones as Sensible Thermal Heat Storage Materials for Concentrated Solar Power Applications.	Dr. Dilip Kumar Singh (Co-PI)	DST Govt. of India	14.01.2022	24.85	2025

SECTION 3 SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1.	1-Day hands-on Workshop on LaTeX	Dr. Sourabh Lahiri and Dr. Rajyavardhan Ray	Department of Physics	31.08.2024	Offline

2.	2nd Indo-European Symposium on Surface Engineering (IESSE-2024)	Dr. Rishi Sharma	ANRF-SERB, JCST&I, DRDO, BRNS, INSA, BIT Mesra, and other Private Sponsors	11.12.2024 to 12.12.2024	Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1.	Dr. Sourabh Lahiri	Nonequilibrium Statistical Physics of Complex Systems	School of Physics, Korea Institute for Advanced Study	Korea Institute for Advanced Study	Korea Institute for Advanced Study	22.07.2025 to 25.07.2025
2.	Dr. Sourabh Lahiri	Academic Visit	School of Physics, Korea Institute for Advanced Study	Korea Institute for Advanced Study	Korea Institute for Advanced Study	15.07.2025 to 26.07.2025
3.	Dr. Sourabh Lahiri	Five-Day National Faculty Development Programme on Research Structuring & Publication Process	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	Online	23.06.2025 to 27.06.2025
4.	Dr. Anupam Roy	An International Conference on Sustainable Science and Technology for Tomorrow (SciTech24)	School of Sciences, Woxsen University, Hyderabad	NA	Online	16.09.2024 to 20.09.2024
5.	Dr. Anupam Roy	West Bengal State Science & Technology Congress	Malda College, West Bengal	Govt. of West Bengal	Malda College, Malda, West Bengal	07.01.2025 to 08.01.2025
6.	Dr. Anupam Roy	Five-Day National Faculty Development Programme on Research Structuring & Publication Process	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED) Coimbatore, Tamil Nadu	NA	Online	23.06.2025 to 27.06.2025
7.	Dr. R Ray	Five-day National Faculty Development Programme on Research Structuring & Publication Process	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	NA	Online	23.06.2025 – 27.06.2025

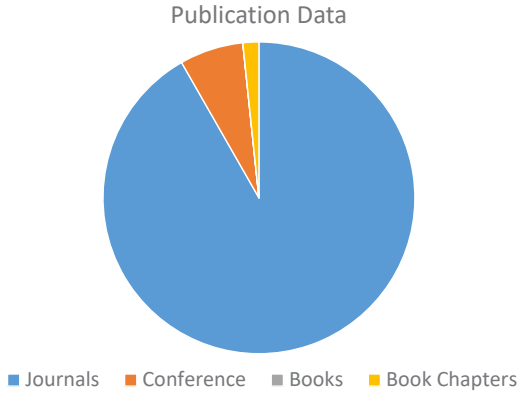
8.	Dr. R Ray	One-day Faculty Development Workshop on "Know Yourself as a Teacher" (KYaaT)	Institute's Innovation Council, BIT Mesra (IIC-BIT Mesra)	NA	BIT Mesra	23.04.2025
9.	Dr. R Ray	FPLO Workshop "Understanding and predicting materials properties by DFT -- limits of reliability"/ Tutorial FPLO	Leibniz Institute for Solid State and Materials Research (IFW) Dresden & Max Plank Institute for Chemical Physics of Solids (MPI CPfS), Dresden, Germany	Organizers of the FPLO Workshop	Dresden, Germany	07.04.2025 – 11.04.2025
10.	Dr. R Ray	National Seminar on Ferroelectrics and Dielectrics	Central University of Jharkhand, Ranchi	BIT Mesra	Central University of Jharkhand, Cheri-Manatu, Ranchi	17.12.2024 – 19.12.2024
11.	Dr. Suman Ghosh	33rd meeting of Indian Association of General Relativity and Gravitation	BITS Pilani	BITS Pilani	BITS Pilani	02.01.2025 -04.01.2024
12.	Dr. R.K.Dewanjee (As Participant)	Conference on Cosmology, Astrophysics and Particle Physics (CCAPP-2025)	SRM University, Katankullathur, Tamil Nadu, India	SERB, SRM University, IMSc Chennai	SRM University, Katankullathur 603203, Tamil Nadu, India	30.01.2025 to 02.02.2025
13.	Dr. R.K.Dewanjee (As Participant)	Know yourself as a Teacher (KYaaT) Workshop	Value Education Cell, BIT Mesra	BIT Mesra	CAT Hall, BIT Mesra	23.04.2025
14.	Dr. R.K.Dewanjee (As Facilitator and Member of the National Advisory Committee of CMSDAS-2025)	CMS Data Analysis School (CMSDAS-2025)	IIT Hyderabad in association with CMS collaboration	CMS Schools committee, DST, DAE	IIT, Hyderabad	23.06.2025 to 27.06.2025
15.	Dr Ela Rout	5 days FDP program	GLA University, Mathura		Online mode	30.05.2025 to 03.06.2025
16.	Dr Ela Rout	Resource person in FDP program	RTC Institute of Technology Ranchi		Online mode	26.06.2025
17.	Dr. Dilip Kumar Singh	Refresher course on "X-ray Crystallography and X-ray photoelectron spectroscopy (XPS) with Density Functional Theory (DFT) Calculations	IIT (ISM) Dhanbad	IIT (ISM) Dhanbad	IIT (ISM) Dhanbad	06.08.2024 to 27.08.2024

18.	Dr. Dilip Kumar Singh	2 Day High-End Workshop on MEMS based Scalable Healthcare Technologies	Electronics & Communication Engineering Department, Birla Institute of Technology, Mesra, Ranchi	DST, Govt. of India.	BIT Mesra	01.08.2024 to 02.08.2024
19.	Dr. Dilip Kumar Singh	International Union Of Materials Research Society International Conference in ASIA 2024 (IUMRS-ICA 2024	Material Research Society of India	BIT Mesra	UGC-DAE-CSR Indore	03.12.2024 to 06.12.2024

SECTION 4 — RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	111	8	0	2



SECTION 5 — AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Prof. Sunita Keshri	PhD Examiner	Guru Nanak Dev University, Amritsar	National	July, 2024
2.	Prof. Sunita Keshri	PhD Examiner	Manipal Academy of Higher Education	National	June, 2025
3.	Prof. Sunita Keshri	Reviewer for the evaluation of papers submitted for the 68th DAE Solid State Physics Symposium (DAE SSPS 2024)	DAE Convention Centre, Anushaktinagar, Mumbai	National	December, 2024

4.	Dr. Rishi Sharma	Representative of Central Executive Council (EC), Indian Association of Physics Teachers (IAPT) Regional Council Jharkhand (RC-20)	Indian Association of Physics Teachers (IAPT)	National	2024
5.	Dr. Rishi Sharma	Member, Project Appraisal Committee	JCST&I	State	2024
6.	Anupam Roy (One of the Corresponding Authors)	Our article [Nat. Commun. 15, 2334 (2024)] is among the Top 25 Physics papers published in Nature Communications in 2024. Link: https://www.nature.com/collections/ddjhhabece	Nature Publishing Group	International	2024
7.	Anupam Roy (One of the Authors)	Our article [J. Vac. Sci. Technol. A 43, 022201 (2025)] has been selected as the Featured Article. Link: https://doi.org/10.1116/6.0003893 This article has been highlighted in Beneath the AVS Surface Newsletter April-2025. Link: https://avs.org/AVS/media/Files/Newsletters/Beneath%20the%20AVS%20Surface/2025/April.pdf	Journal of Vacuum Science & Technology A	International	2025
8.	Dr. R. K. Dewanjee	Fundamental Physics Breakthrough Prize	CMS collaboration	International	2025

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Shilpi Kumari, Jiwajyoti Mahanta, Manish K. Singh, Pranjoli Das, Dilip K. Singh	Graphitic carbon nitride-based high-performance Organic Field Effect Transistor	202431034491	2024	Applied	Method of fabrication of high performance Organic Field Effect transistor based on g-C3N4
2	Shilpi Kumari, Jiwajyoti Mahanta, Manish K. Singh, Pranjoli Das, Dilip K. Singh	Enhanced Biosensing Capabilities of Graphitic Carbon Nitride-Based Organic Field Effect Transistors for Lipase Detection	202431080789	2024	Applied	Flexible sensor for monitoring pancreatic activity.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1.	Dr. Sunita Keshri	Professor	Experimental Condensed Matter Physics	PhD	1.09.1995
2.	Dr. Sanjay Kumar Sinha	Professor	Biomaterials	PhD	1.11.2000
3.	Dr. Ratan Kumar Paul	Associate Professor	Plasma Physics and Cosmology	PhD	1.10.2001
4.	Dr. Kingshuk Bose	Assistant Professor	Nonlinear Optics	PhD	1.1.2008
5.	Dr. Ela Rout	Assistant Professor	Electroceramics	PhD	16.7.2010
6.	Dr. Sanat Kumar Mukherjee	Assistant Professor	Materials Science	PhD	1.09.2009
7.	Dr. Ram Krishna Dewanjee	Assistant Professor	Experimental Particle Physics	PhD	20.12.2021
8.	Dr. Rishi Sharma	Assistant Professor	Materials Science	PhD	1.04.2008
9.	Dr. Rajeev Kumar Sinha	Associate Professor	Photonics and Biophotonics	PhD	16-04-2023
10.	Dr. Rajeev Kumar	Assistant Professor	Plasma Physics	PhD	1.12.2005
11.	Dr. Nishi Srivastava	Assistant Professor	Atmospheric Physics	PhD	30.8.2012
12.	Dr. Madhu Priya	Assistant Professor	Thermodynamics and Statistical Physics	PhD	24.5.2017
13.	Dr. Sourabh Lahiri	Assistant Professor	Thermodynamics and Statistical Physics	PhD	12.6.2017
14.	Dr. Dilip Kumar Singh	Assistant Professor	Nanotechnology and Optoelectronics, Condensed Matter Physics	PhD	13.6.2017
15.	Dr. Pawan Kumar Tiwari	Assistant Professor	Plasma Physics & Biophysics	PhD	1.7.2020
16.	Dr. Anupam Roy	Assistant Professor	Condensed Matter Physics	PhD	19.10.2021
17.	Dr. Rajyavardhan Ray	Assistant Professor	Theoretical Condensed Matter Physics & Materials Science	PhD	13.12.2021
18.	Dr. Suman Ghosh	Assistant Professor	Gravitation and Cosmology	PhD	16.12.2021

6.2 Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1.	Dr. Rajeev Kumar Sinha	Associate Prof. & Head (Ex-Officio)	Chairman
2.	Dr. (Mrs.) S. Keshri	Professor	Internal Member
3.	Dr. S. K. Sinha	Professor	Internal Member
4.	Dr. R. K. Paul	Associate Professor	Internal Member
5.	Dr. T. Ghosh	Professor	Internal Member
6.	Dr. Rajeev Kumar	Assistant Professor	Internal Member
7.	Dr. Sourabh Lahiri	Assistant Professor	Internal Member
8.	Dr. S. S. Solanki	Professor	Internal Member
9.	Dr. Dilip Kr. Ghosh IACS, Kolkata	Senior Professor	External Member

10.	Prof. Dr. Dalip Singh Mehta IIT Delhi	Professor	External Member
11.	Prof. Yashowanta Narayan Mohapatra IIT Kanpur	Professor	External Member
12.	Prof. Alok Shukla IIT Bombay	Professor	External Member
13.	Prof. Sreerup Raichoudhury TIFR Mumbai	Professor	External Member
14.	Dr. Umesh R. Mhatre SM Technologies Pvt. Ltd., Mumbai	Managing Director	External Member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Farewell Party	Shraddha Santosh Nair	Dr. S. K. Mukherjee	06.05.2025
2.	Departmental Athletic Meet, KredaUtsav-24 (One day event)	Shraddha Santosh Nair	Dr. Pawan Kumar Tiwari and Dr. Madhu Priya	26.10.2024
3.	Freshers Party	Shraddha Santosh Nair	Dr. Pawan Kumar Tiwari and Dr. Madhu Priya	01.10.2024

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Soumyajeet Das (IPH/10012/21)	All India Rank -11 in Joint Entrance Screening Test (JEST) in PHYSICS	JEST Institutions	22.06.2025	TCS Gito Bitan, Kolkata
2	Soumyajeet Das (IPH/10012/21)	Qualified for Integrated MS-PhD Program in School of Physical Sciences at IACS, Kolkata	INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE	Exam date: 08.06.2025	TCS Gito Bitan, Kolkata
3.	Mr. Kiranjyoti Swain (Doctoral student of Dr. R. K. Dewanjee)	Member of the team whose analysis on top quark measurements won the first prize in CMS Data Analysis School (CMSDAS-2025)	IIT Hyderabad in association with CMS collaboration	23.06.2025-27.06.2025	IIT Hyderabad
4.	Ms. Shilpi Kumari, Ph.D Scholar working under supervision on Dr. Dilip Kumar Singh	Appreciation Award for R & D Project (Idea to Innovation)	Ministry of Electronics and Information Technology (MeitY)	10th August, 2024	IIT Bombay
5.	Saumya Suvarna	3rd best poster presentation at 2nd Indo-European Symposium on Surface-Engineering (IESSE-2024)	Department of Physics, BIT Mesra, Ranchi	11-12 December, 2024	BIT Mesra

6.	Saumya Suvarna	2nd best oral presentation at Advances in Materials and Chemical Sciences (AMCS-24)	Department of Chemistry, BIT Mesra, Ranchi	18-20 December, 2024	BIT Mesra

7.3 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1.	Shradha Santosh Nair	IMSc	10	9.42
2.	Ivy Banerjee	MSc	4	8.49

SECTION 8		INFRASTRUCTURE DEVELOPMENT

8.1 New Facilities Upgradation

- Optical microscopy facilities – Installed on 29.05.2025. Olympus (now Evident) Advance upright microscope (Model BX 53M series) BX53MRF-S Evident-Olympus Microscope.
- Computational Facility developed through SERB-SRG scheme (Project Code: SRG/2023/001697) in the Numerical Simulations & Quantum Materials Modelling (NuSQuaMM) research group (Lead: Dr. R. Ray), Department of Physics.

8.2 IT Upgrades

Ten desktop computers are allocated exclusively for student use.

All the computers are i7's with 16GB RAM and 1 TB hard-drives having preloaded OS (Win-11), MATLAB, etc.

SECTION 9		FUTURE PLANS (2025-26)

- We are developing an interdisciplinary theory group with focus on geometric aspects of condensed matter physics. This novel area of research is considered to be of huge potential in understanding complex material properties. Final goal is to achieve geometric control of electromagnetic response of materials.

Department of Production and Industrial Engineering

SECTION 1		DEPARTMENTAL PROFILE

1.1 About the Department / Off-Campus

The Department of Production Engineering, established in 1964, has continually worked towards providing quality education to undergraduates and preparing them to meet the evolving needs of the manufacturing industry. The department focuses on developing students' technical skills and practical knowledge, ensuring they are well-equipped for real-world industrial challenges. It has built strong collaborations with industries, R&D centers, consultancy firms, and academic institutions, promoting research, innovation, and industry exposure. These partnerships enhance learning by aligning academic efforts with current manufacturing practices and technologies. Positioning itself as a leader in emerging technologies, the department emphasizes modern manufacturing techniques and aims to develop graduates who are both technically skilled and managerially capable. In the face of globalization and industrial change, the department remains committed to academic excellence and industry relevance.

1.2 Vision & Mission

• Vision:

To become a centre of repute striving continuously towards providing quality education, research and innovation in the Field of production and Industrial Engineering

• Mission:

- To provide quality education at both undergraduate and post graduate levels.
- To provide opportunities and facilities for research and innovation in Production and Industrial Engineering.
- To produce industry-ready graduates to meet the demands of manufacturing industries, knowledge-based software firms, supply chain and logistic firms, and R&D organizations
- To integrate skills on state-of-the-art manufacturing technology with industrial engineering and operations management
- To impart latest knowledge in the domain area to students by continuous up-gradation of curricula and faculty

1.3 Key Achievements

• Student Achievements:

Satyajeet Raman (B.Tech. 2025 pass out) qualified GATE and had been selected for M.Tech. at IIT ISM Dhanbad.

• Faculty Achievement:

Dr. Joyjeet Ghose bagged best paper award in 11th international scientific and Expert conference of the International TEAM Society, September 2024, at Ostrava, Czech Republic, for the paper entitled, “Investigation of Mechanical and Tribological Properties of Aluminium Hybrid Nanocomposite Produced by Novel Stir-Ultrasonic-Squeeze casting Method”.

- **Overall Department Achievement:**

  Received R&D project worth INR 4.35 crores, jointly sponsored by DST-TDP (Innovation, Technology Development and Deployment), BIT Mesra, IIT Kharagpur and Tata Steel; and set up of additive manufacturing facility (Metal 3D printing).

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B.Tech. Production and Industrial Engineering	4 years	60	Operations Research, Supply Chain Management, Manufacturing Processes, Machine Tool Design, Statistical Quality Control, Automation, Unconventional Machining
2	M.Tech. Production and Industrial Engineering	2 years	12	Advanced technologies including Computer Integrated Manufacturing, Additive Manufacturing, Robotics, and Cyber-Physical System, Industry 4.0 standards. Lean Six Sigma, AI & Data Analytics, Sustainable Manufacturing, Modelling & Simulation

1.5 List of PhD Scholars Graduated from the Department

Sl. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Suresh Pratap	Experimental Investigation and Process Optimization of Reverse Micro Electrical Discharge Machining	Dr. Somak Datta	22/10/2024
2.	Prakash Kumar	Development and Studies of Hybrid Aluminum Metal Matrix Composites for Industrial Application	Dr. Binay Kumar	11/11/2024
3.	Ghulam Anwer	Laser Transmission Welding of Thermoplastics: Experimental Investigation & Modelling of the Effect of Process Parameters on Welds	Dr. Bappa Acherjee	04/12/2024
4.	Anshu Anand	Fabrication and Investigation of Mechanical and Tribological Characteristics of Aluminium-Based Hybrid Metal Matrix Composite for Automobile Application	Dr. Sanjiv Kumar Tiwari	13/12/2024
5.	Chivukula Koteswara Pavan	Adaptation of Lean Manufacturing Practices to Technological Developments in Industry	Dr. L. N. Pattanaik	02/06/2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Laser Additive Manufacturing and Refurbishment of High Temperature Resistant Structural Components	PI: Prof. I. Manna Co-PI(s): Dr. G. Paul, Dr. B. Acherjee, Dr. S. Datta, Prof. J.D. Majumder (IIT KGP), Tata Steel	DST-TTI	December 2024	4.35 Crores	3 years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of Hard and Wear-resistant Coating for Hydraulic Cylinders by Laser Surface Cladding as a substitute for Hard Chrome Plating	PI: Prof. I. Manna Co-PI(s): Dr. S. Datta, Dr. B. Acherjee, Prof J.D. Majumder (IIT KGP), Hoganas Pune	ANRF	March 2024	44.67 Lacs	3 years
2	Laser-based manufacturing of multi-layer polymer-metal sandwich composite and performance assessment for lightweight material applications	PI: Dr. B. Acherjee Co-PI: Dr. J. Ghose	ANRF	February 2023	54.39 Lacs	3 years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	Assessment of Tribological Properties of Graphene based Nano-lubricants Developed by Ball Milling for Automotive Applications	PI: Dr. G. Paul	ANRF	October 2022	32.92 Lacs	October 2024
2	Manufacturing and characterization of aluminium alloy hybrid nano-composite produced by stir-ultrasonic-squeeze casting method for automotive application	PI: Dr. J. Ghose Co-PI: Dr. B. Acherjee	ANRF	March 2022	40 Lacs	3 years

SECTION 3 — SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	Two-day Workshop on Composite Materials Manufacturing, Characterization, and Applications	Dr. Joyjeet Ghose	SERB-DST, Govt. of India	21.02.2025 and 22.02.2025	Offline
2	One-Day Research Facility Training Program	Dr. Somak Datta	SERB-DST, Govt. of India	01.03.2025	Offline

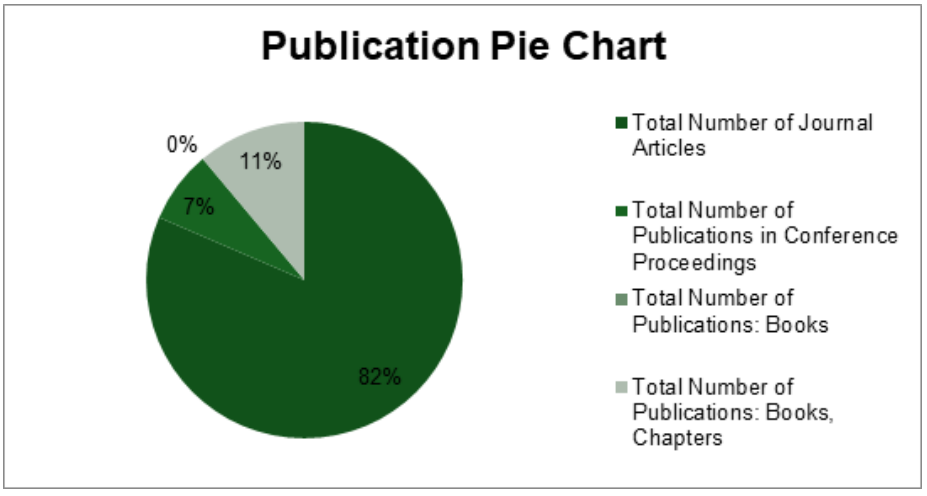
3.2 Events Attended by Faculty

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1.	Dr. Binay Kumar	Summer school on Evolutionary algorithm and machine learning	DBRA NIT Jalandhar	BIT Mesra	Jalandhar (Hybrid)	16.05.2025-20.06.2025

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	22	2	0	3



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Joyjeet Ghose	Best paper award in 11th international scientific and Expert conference of the International TEAM Society	Ostrava, Czech Republic	International	September 2024

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Sanjiv Kumar Tiwari, Ritesh Kumar Singh, Kaushik Kumar	A System for Optimizing Process Parameters of an Electrical Discharge Machining (EDM) Apparatus	202431097998	2024	Applied	The invention relates to systems for optimizing process parameters in Electrical Discharge Machining (EDM) using hybrid computational techniques. More particularly, the invention relates to industrial process optimization systems, especially, for enhancing machining performance through embedded computational methodologies.

2	Sanjiv Kumar Tiwari, Anshu Anand, Ved Prakash	A Hybrid Metal Matrix Composite and Method of Preparation Thereof	202431104659	2025	Applied	The present invention relates to fabrication of lightweight hybrid metal matrix composites. More particularly, the present invention relates to metal matrix composite made using aluminum alloys combined with cost-effective and durable reinforcements, tailored for automotive, aerospace, and other high-strength applications.
3	Manish Oraon Vinay Sharma	Design and fabrication on of customized forming tool for incremental sheet metal forming (ISMF)	202531003527	2025	Applied	The present invention relates to the design and fabrication of a customized forming tool for incremental sheet metal forming (ISMF). The tool comprises a shank made of 40C6 mild steel, machined to a length of 50 mm and a diameter of 7 mm. One end of the shank features a hemispherical groove designed to securely hold a replaceable bearing ball. The bearing ball, made of BOHLER W300 material with a diameter of 6 mm, is fixed into the groove by heating the grooved end of the shank to approximately 900°C and cooling to room temperature, ensuring a tight and stable fit. The modular design allows for the replacement of the bearing ball without replacing the entire tool, minimizing material wastage, labor costs, and downtime. The tool is adaptable to various applications, with interchangeable ball diameters ranging from 4 mm to 10 mm.

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties.

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Indranil Manna	Professor	Materials Engineering	Ph.D.	08.03.2020
2	Vinay Sharma	Professor	Quality Engineering	Ph.D.	26.02.1999
3	S.K. Jha	Professor	Production Engineering	Ph.D.	03.04.1997
4	L.N. Pattanaik	Asso. Prof.	Industrial Engineering	Ph.D.	24.10.2005
5	R.K. Singh	Asso. Prof.	Industrial Engineering	Ph.D.	01.02.2003
6	J. Ghose	Asso. Prof.	Manufacturing Technology	Ph.D.	01.02.2006

7	Binay Kumar	Asst. Prof.	Industrial Engineering	Ph.D.	23.06.2008
8	Somak Datta	Asst. Prof.	Manufacturing Technology	Ph.D.	19.09.2011
9	Bappa Acherjee	Asso. Prof.	Manufacturing Technology	Ph.D.	09.05.2012
10	Sanjiv Tiwari	Asst. Prof.	Industrial Engineering	Ph.D.	22.06.2020
11	Abhishek Singh	Asst. Prof.	Industrial Engineering	Ph.D.	01.05.2021
12	Randhir Kumar	Asst. Prof.	Manufacturing Technology	Ph.D.	22.06.2020
13	Prashant Prakash	Asst. Prof.	Manufacturing Technology	Ph.D.	16.08.2022
14	Thakur Abhinav Amar	Asst. Prof.	Automation	Ph.D.	08.08.2022
15	Gayatri Paul	Asst. Prof.	Materials Engineering, Nano Fluids	Ph.D.	17.08.21
16	Suman Samanta	Asst. Prof.	Industrial Engineering	Ph.D.	14.09.21

6.2 Board of Studies

Sl. No.	Name	Designation	Role
1	Dr. L. N. Pattanaik	Head- Production & Industrial Engineering (Ex-officio)	Chairman
2	Dr. Vinay Sharma	Professor, Department of Production & Industrial Engineering	Internal Member
3	Dr. Sanjay Ku. Jha	Professor, Department of Production & Industrial Engineering	Internal Member
4	Dr. Ritesh Ku. Singh	Associate Professor, Department of Production & Industrial Engineering	Internal Member
5	Dr. Joyjeet Ghose	Associate Professor, Department of Production & Industrial Engineering	Internal Member
6	Dr. Bappa Acherjee	Associate Professor, Department of Production & Industrial Engineering	Internal Member
7	Dr. Somak Datta	Assistant Professor, Production & Industrial Engineering	Internal Member
8	Dr. Shradha Shivani	Professor (Management)	Internal Member
9	Dr. A. K. Roy	Associate Professor, Mechanical Engineering	Internal Member
10	Dr. Jhareswar Maiti	Professor, Industrial & Systems Engineering, IIT, Kharagpur	External Member
11	Dr. Santosh Kumar	Professor, Department of Mechanical Engineering, IIT-BHU, Varanasi	External Member
12	Mr. M. R. Kumar	GM (Iron Making), MECON Limited, Ranchi	External Member
13	Dr. Vikash C. Srivastava	Senior Principal Scientist, National Metallurgical Lab, Jamshedpur	External Member
14	UG Student	(Chairman nominated)	Internal Member
15	PG Student	(Chairman nominated)	Internal Member

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Entrepreneurship / Startups

Sr. No.	Student Name	Funding Source	Title	Description
1.	Rohit Raj	gradCapital, Arnav (CEO of leap finance) and Prateek sethi (Co-founder at Shifu ventures)	Pactle	Manufacturing teams lose countless productive hours every single day on tedious manual tasks - creating quotes, invoices, proforma invoices (PIs), and sales orders. The endless back-and-forth between multiple departments to match data across Excel sheets, emails, and WhatsApp often leads to frustrating errors and costly mismatches by the time it finally reaches the ERP which leads to massive opportunity and revenue leakages. We're fixing exactly this at Pactle. Pactle automates the entire quote-to-cash workflow for manufacturers. Our AI agent captures every RFQs, generates accurate quotes instantly, manages approvals seamlessly, creates invoices, and follows up payments - all fully synced with the ERP.
2.	Aditya Raj	Self-funded currently.	ContractAI - AI-Powered Contract Lifecycle Management for SMBs	ContractAI is a generative AI-based SaaS platform that automates the drafting, review, negotiation, and management of business contracts-specifically designed for small- and mid-sized businesses (SMBs) in emerging market.
3.	Aditya Raj	angel investors	Celevaro - Celebrate Better, Book Smarter	Celevaro is a tech-enabled celebration planning platform that helps people effortlessly book personalized experiences for birthdays, anniversaries, romantic dates, and other special occasions.

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Suresh Pratap (Research Scholar)	Participated in 7th International Conference on Material Strength and Applied Mechanics MSAM 2024 and presented his research work on reverse micro-EDM process.	Szechenyi Istvan University Gyor Hungary	from 29 July 2024 to 01 August 2024	Szechenyi Istvan University Gyor Hungary

7.3 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1.	Pragyan Sharma	B.Tech. (PIE)	5	9.0
2.	Sagar	B.Tech. (PIE)	3	8.78

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Prof. Janat Shah	Founding Director of IIM Udaipur and a current Executive Council Member at BIT Mesra	BIT Mesra	10/02/2025	
2	Professor Firoz Alam and Professor Akshoy R. Paul	RMIT University, Melbourne, MNIT Allahabad	PIE Department	18/02/2025	
3	Dr. Kanwar Singh Arora	Head - Materials Welding & Joining Research Group	PIE Department	29/04/2025	
4	Mr. J. D. Patil,	Director and Senior Executive Vice President for L&T, President INAE	SER Department	01/05/2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Vikas Kumar	Production Engineering (2003 - 2007)	Sr. Software Engineering Manager At Google, Ex- Amazon, NC State University	

2	Sushant Dutta	Production Engineering (2004 - 2008)	Co founder 1 Vendor Platform, Ex-Amazon & Britannia	
3	Shubham Saurabh	Production Engineering (2014 - 2018)	Technical Project Manager @Tesla	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation	Purpose / Area/Short Description	Year / Duration
1	Tata Steel	DST-TDP sponsored R&D Project on Laser Additive Manufacturing and Refurbishment	2024-2027 (3 years)

8.4 Industry Connect

Collaboration with Tata Steel for technology development through a DST-TDP project on Laser Additive Manufacturing.

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

1. MELTIO M450 Metal 3d Printer
2. Modular Manufacturing Automation Trainer

9.2 IT Upgrades

Manufacturing Simulation Lab for UG and PG students having 25+ computers

SECTION 10		FUTURE PLANS (2025-26)

The Department of Production & Industrial Engineering is progressing with the vision to become a center of repute striving continuously towards providing quality education, research and innovation. To fulfill this vision, the Department has earmarked some short-term targets for the year 2025-26. As graduates of this branch are finding a good scope of placements in sectors like consultancy, data analytics, fintech, supply chain, etc. so to improve the computational infrastructure in the Department, all the computers in modelling & simulation lab will be replaced this year. Software in the domains of data analytics, quantitative tools, modelling & simulation will be installed to make a state-of-art computational lab. New equipment for strengthening the automation lab towards Industry 4.0 is in the cards. More emphasis is to be given to the area of additive manufacturing in which the Department has already developed experimental and research capabilities.

Department of Remote Sensing and Geoinformatics

SECTION 1 **DEPARTMENTAL PROFILE**

1.1 About the Department

This Department has been imparting specialised education of geo-spatial technology in various application areas using advanced tools like satellite remote sensing, drone imaging geographical information system and global positioning system etc. at the Postgraduate and Doctoral research levels. This has become more significant in light of the recently implemented Indian Geo-spatial Policy with lot of emphasis on use of this technology in various government departments. As a department, state-of-the-art equipment facilities have been developed with latest hardware and software. As also, the department has well-accomplished faculty members with high academic/research credentials. Timely updating of needed infrastructure and research capacities through UGC-SAP, DST-FIST, DST-PURSE and collaboration with other national and international level apex organisations has kept us motivated to do challenging research and outreach. We have been part of many national mission projects of ISRO and other agencies of Govt. of India and through those programs, the department is striving to serve the nation and contribute to building national capabilities in this advancing field of geoinformatics. Apart from being a leading department in the country in the field of remote sensing, our department also has International recognition which can be seen through our sponsored research activities from the International Centre for Integrated Mountain Development (ICIMOD, Kathmandu, Nepal), Goddard Space flight Centre (GSFC), NASA, USA, International Water Management Institute (IWMI), Sri Lanka, and collaborative research with University of Southampton (UK), University of Lancaster (UK), University of California Santa Barbara (UCSB, USA), Shastri Indo-Canadian Institute/University of Calgary, Canada etc. Strength of our educational quality and outreach can be seen through our students serving in reputed national/international organisations. In addition, they are also opting for higher education by getting selected for Doctoral Research in reputed national and international level institutions viz. IITs/NITs as well as Universities abroad such as Durham University, UK, James Cook University, Australia, University of Manitoba, Canada, Western University, Canada, Delft University of Technology, Netherlands, University of Chinese Academy of Sciences, University of Leicester, UK etc. Hence, our departmental activities are coherently in phase with our Institutional vision and mission.

Vision and Mission are being communicated regularly to the stakeholders by prominently displaying in the Department, as well as through Institute website, admission brochure, through social-media and e-mails to various universities/colleges/institutions.

1.2 Vision & Mission

Vision:

Be a centre of excellence in the field of Geospatial Technology education and research to match the needs of ever-increasing requirement of human resources in these fields and to cater to the larger interest of the Society and Nation.

Mission:

Impart quality education and equip the students with strong foundation that could make them capable of handling challenges of the ever-advancing geospatial technologies. Maintain state-of-the-art in research and outreach facilities in phase with the premier institutions for sustained improvement in the quality of education and research.

1.3 Key Achievements

Student Achievements:

- Mr. Raihan Ahmad Khan, M. Sc. Geoinformatics 4th Semester student secured 1st place and won Esri India Young Scholar Program 2025.
- Mr. Sudip Banerjee, (MT/RS/10004/23) M. TECH Remote Sensing 4th Semester student participated in "IIT Bombay FOSSEE Geospatial Mapathon 2024 Edition IV" and emerged as Champion (a category higher than Winners).
- Sudip Banerjee (MT/RS/10004/23), Sunil Mahato (MT/RS/1000/23) and Ms Nikita Roy Mukherjee (PHD/RS/10005/2020) and Mr Sourabh Anand (WIHG) – as the Team CryoWizards Won 2nd position with a prize money of Rs. 3 Lakhs in the National Level 'Innovation Challenge on Glacial Lake Outburst Flood (GLOF) Mitigation' with Innovation entry entitled 'Glacier Lake Monitoring System (GLMS).

Faculty Achievement:

- Dr. C Jeganathan received the ISRO-ISRS President's Appreciation Medal (2024)
- Dr. C Jeganathan received the Letter of Appreciation from Director-General, Forest Survey of India (2023)
- Dr. V. S. Rathore: contributed as Publication Chair, Community Contributed Session, Reviewer and Lead talk in organising IEEE InGARSS 2024 at NIT Goa.
- Dr. Mili Ghosh Nee Lala: received financial support for attending International conference "9th GEWEX" held at Sapporo, Japan (7-12July,2024)

- **Overall Department Achievement:**

  The Department formed a society named "GeoPix' and started publishing newsletter. Out of total 22 students who graduated in the year 2024, 17 (77%) were placed and 2 (9%) opted to go for higher education. Being a PG Department, the focus of the Department is more on research, and which is well-corroborated by the fact that the Department has ongoing research projects of worth approx. ₹ 7

Crores. In this academic year the Department has produced 5 PhDs and published 29 research articles in refereed journals and 20 conference proceedings. Faculty members of the Department delivered invited guest lectures, attended conferences and made abroad visits. Dr. C. Jeganathan, Professor of the Department, joined as Vice-Chancellor of the Sarala Birla University Ranchi. The Department has established several new collaborations with academic institutions, industry, and research organisations like IIT Bombay, ISRO, DRI, University of Nevada, US, Leads Nextech, New Delhi, Sky Map Global, Singapore. The students of the Department actively participated at the national level competitions and won awards. The Department celebrated National Space Day in collaboration with NRSC, Hyderabad, and organised two workshops and several guest lectures.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	M. Tech Remote Sensing	2 Yrs	24	Specialisation in i) Earth Resources, ii) Environment and Climate
2	M.Sc. Geoinformatics	2Yrs	20	Advanced Geospatial Modelling
3	Doctoral Program	--	As per UGC norms	Geospatial Technology for natural resources monitoring, Earth Sciences, Disaster Management, Forestry, Climate Change, Planetary Studies

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Beependra Singh	"Study of Vegetation Dynamics with respect to Rainfall Variability and Vulnerability Assessment of Forests in Central Indian Landscape using Long-term Time Series Satellite Data"	Dr. C. Jeganathan (Guide) and Dr. V. S. Rathore (Co-Guide)	16.11.24
2	Nayama Valsa Scariah	Aeolian activities over Gale crater and its surroundings driven by Martian climatic parameters	Dr. Mili Ghosh Nee Lala (Guide) and Dr. A.P. Krishna (Co-Guide)	16-11-24
3.	Farzana Saheen	Thermophysical property and crater morphometry of Martian Gale crater and surroundings	Dr. Mili Ghosh Nee Lala (Guide) and Dr. A.P. Krishna (Co-Guide)	16-11-24
4.	Harshit Rajan	"Modelling Grassland Change Dynamics using Time-Series Satellite Data in Himachal Pradesh, India"	Dr. C. Jeganathan	16.11.24
5	Raja Biswas	"Mapping of Calcrete and Gypsum deposits along with associated palaeochannels in arid-and semi-region of Rajasthan using combination of microwave and multi-spectral satellite data"	Dr. V. S. Rathore	18.10.24

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	"RES-NRSC-2023-007: Generation of high resolution cloud to ground lightning vulnerability maps using the ground and space borne data"	PI: Swagata Pyra Co-PI: Mili Ghosh nee Lala	RESPOND (ISRO)	13-11-2024	26.33528 Lakhs	Two years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Mapping and morphological characterization of craters in the south polar region of the lunar surface using Chandrayaan-2 Dual Frequency SAR (DFSAR), High resolution OHRC and TMC-2 data	PI: Dr. V.S. Rathore Co-PI: Dr. A.P. Krishna	ISRO, DoS, GoI	March 10, 2022	Rs. 19.98L	2022-25
2.	Modelling Forest Phenological Parameters from Time Series Remote Sensing Data	PI: Dr. C. Jeganathan Co-PIs: Dr. A.P. Krishna, Dr. Mili Ghosh Nee Lala, Mr. Nitish K. Sinha	Space Application Centre, ISRO, Ahmedabad	February 2021	Rs. 30.23 Lakhs	2021-24 (Extended upto August 2025)
3.	DST FIST Level B Fund for Improvement of S&T Infrastructure in Universities and Higher. Educational Institutions	PI: Dr. S. Payra Co-PIs: Dr. A. P. Krishna, Dr. C. Jeganathan, Dr. V. S. Rathore, Dr. Mili Ghosh Nee Lala	DST, GoI	March 2023	Rs. 2.4 Crores	2023-28
4.	DST-PURSE Promotion of University Research and Scientific Excellence to set up Center for Advanced Research on Machine Learning for Geospatial Analytics and Solutions for Jharkhand State (ARMLEGS)	Team CSE – Dr. Abhijit Mustafi, Dr. Sandip Dutta, Dr. Sudip K Sahana, Dr. Shamama Anwar, Dr. Debjani Mustafi Team RS – Dr. A.P. Krishna, Dr. C. Jeganathan, Dr. Mili Ghosh Nee Lala	DST, GoI	March 2023	Rs. 8.44 Crores	2023-27
5.	Machine Learning and Deep Learning based Automatic Lunar Crater Detecting using Terrain Mapping Camera-2 DEM Images	Co-PI : Mili Ghosh nee Lala	SSPO, ISRO	March, 2022	21.98	2022-25

6.	Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro-Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand u	CoPI: Mili Ghosh nee Lala	DST, SERB	March, 2022	38.102	2022-25

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	Lightning impact on ozone precursor over Indian region and its implications on tropospheric ozone	CO-PI: Dr. Swagata Payra	Ministry of Earth Sciences (MoES), New Delhi, India.	2017	34.60 L	2024

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sl. No.	Title	Coordinator	Funding / Sponsoring Agency	Date (DD. MM.YYYY)	Mode (Online/ Offline/Hybrid)
1.	A Four Day Workshop on SAR Data Processing and its Applications	Dr. V. S. Rathore and Dr. S. Payra	Departmental funds	25-28 March 2025	Offline
2.	2024 IEEE (InGARSS) Session	Session Organiser- Dr. V. S. Rathore	Institute and IEEE	2-5 Dec., 2024	Offline
3.	SAMA-CUSAT online lecture series on “RADAR Meteorology”	Dr. S. Payra & Dr. Mili Ghosh Nee Lala	SAMA	May 24 – Nov. 24	Online
4.	SAMA-SPPU online lecture series on “Atmospheric Dynamics “	Dr. S. Payra & Dr. Mili Ghosh Nee Lala	SAMA	Jan. 25 – July 25	Online

3.2 Events Attended by Faculty.

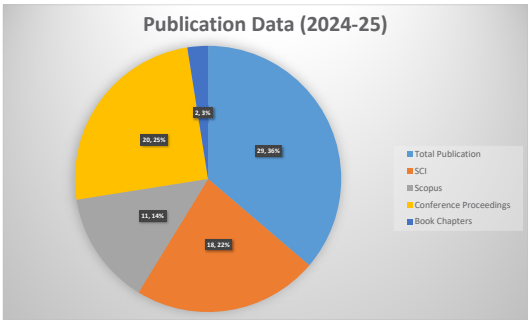
Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date (DD. MM.YYYY)
1.	Dr. Mili Ghosh Nee Lala (Resource person)	Workshop on Application of Remote Sensing and GIS in Research" (ARSGISR-2024)	BIT Sindri	Jharkhand Council on Science, Technology & Innovation (JCSTI) Government of Jharkhand	BIT Sindri	9-13th Dec,2024
2.	Dr. Mili Ghosh Nee Lala (Resource person)	One-day workshop on "Vulnerability, Risk Reduction and Safety Measures in Jharkhand against Thunderstrom, Lightning	DrShyama Prasad Mukherjee University (DSPMU), Ranchi	DrShyama Prasad Mukherjee University(DSPMU), Ranchi	Dr Shyama Prasad Mukherjee University (DSPMU), Ranchi	31st Aug,2024
3.	Dr. Mili Ghosh Nee Lala (Resource person)	Faculty Development Program on Basics of Remote Sensing and GIS	St. Xavier College, Ranchi.26th May 31st May 2025.		Department of Geography, St. Xavier College, Ranchi.	26-31st May,2025

4.	Dr. V. S. Rathore	IEEE InGARSS, 2024	IEEE	Multiple	NIT, Goa	2-5 Dec. 24
5.	Dr. C. Jeganathan	IEEE InGARSS, 2024	IEEE	Multiple	NIT, Goa	2-5 Dec. 24

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

Sl. No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	29 (18 SCIE+ 11 SCOPUS)	20	Nil	2



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. A.P. Krishna	Invited Reviewer	Mediterranean Geosciences Union Annual Meeting (MedGU-24)	International	2024
		Invited Expert Member, Selection committee for recruitment of Assistant Professors	Department of Remote Sensing & GIS Applications, Hemwati Nandan Bahuguna Garhwal University, Srinagar (a Central University)	National	2024

2.	Dr. V.S. Rathore	Publication Chair & Reviewer, 2024 IEEE India Geoscience and Remote Sensing Symposium (InGARSS)	IEE, NIT Goa	International	2024
		Invited Guest Lecture & Member BOG	Techno India Institute of Technology, Kolkata	National	2024
3.	Dr. Nilanchal Patel	**Editorial Board Member of the following journals:** 1. Member, Editorial Board, Arabian Journal of Geosciences (Springer). 2. Member, Editorial Board, Journal of Mountain Science, Springer, SCIE, Scopus. 3. Member, Editorial Board (Associate Editor), Journal of Forestry Research (Springer), SCIE, Scopus. 4. Member, Editorial Board, International Journal of Image and Data Fusion, Taylor & Francis, Scopus. 5. Member, Editorial Board, Eklogia Bratislva (Scopus), Sciendo publication. 6. Journal of Ecology and Sustainable Development, Sweden. 7. Member, Editorial Board, Journal of Earth Sciences and Climate Change, 8. Member, Journal of Environmental Geology, Pulsus Journals. 9. Member, Editorial Board, Journal of Advanced Research in Remote Sensing and Geoscience, Advance Research Publications. 10. Member, Editorial Board, Journal of Ecology (Research & Reviews), STM Journals. 11. Special Issue Guest Editor: MDPI LAND journal: —Innovative Research Approaches & Practices towards Sustainable Land Management, Preservation & Restoration‖ https://www.mdpi.com/journal/land/special_issues/sustainable_land SCIE, SCOPUS Special Issue: Dr. Kleomenis Kalogeropoulos, Prof. Dr. Andreas Tsatsaris, Dr. Nikolaos Stathopoulos, Dr. Demetrios E. Tsesmelis, Prof. Dr. Nilanchal Patel Dr. Xiao Huang 12. Special Issue Guest Editor: MDPI Remote Sensing journal (SCIE, SCOPUS) Special Issue "Advances in Multi-Dimensional Monitoring of the Environment with Optical Satellite Images, https://www.mdpi.com/journal/remotesensing/special_issues/8988BHW0U7		International	Continuing

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

SN	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. A.P. Krishna	Professor	Climate Change, Snow Cover, Glacier Dynamics; Natural Hazards, Disaster Management; Natural Resources and Basin Hydrology	M. Tech; PhD	18.02.2005
2	Dr. Nilanchal Patel	Professor	Image Processing, Geospatial Modelling, Hazards Monitoring and Assessment, Climate Change, Environmental Remote Sens	PhD	04-05-1999
3	Dr. C. Jeganathan	Professor	Spatial Decision Modelling Geostatistics Vegetation Dynamics RSGIS Application Software Development	PhD	1-09-2011
4	Dr. V.S. Rathore	Associate Professor	Water Resources Natural Hazards Climate change Natural resources	PhD	2-12-2000
5	Dr. Kirti Avishek	Associate Professor	Environmental Remote Sensing wetland Assessment Landscape Degradation Climate Change	PhD	16-09-2004
6	Dr S Pyra	Associate Professor	Atmospheric Physics Remote Sensing for Aerosol / Air Pollution Numerical Modelling	PhD	8-01-2008
7	Dr Mili G N Lala	Associate Professor	Environmental Modelling Atmospheric Monitoring Planetary Science	PhD	5-12-2009
8	Dr Richa Sharma	Assistant Professor	Health and Environment GIS	PhD	2-08-1999

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. V.S. Rathore	Head, Associate Professor	Chairman (Ex-Officio)
2.	Dr. A.P. Krishna	Professor	Internal Member (Department of Remote Sensing)
3.	Dr. C. Jeganathan	Professor	Internal Member (Department of Remote Sensing)
4.	Dr. Nilanchal Patel	Professor	Internal Member (Department of Remote Sensing)
5.	Dr. Kirti Avishek	Associate Professor	Internal Member (Department of Remote Sensing)
6.	Dr. Swagat Payra	Associate Professor	Internal Member (Department of Remote Sensing)
7.	Dr. Mili Ghosh	Associate Professor	Internal Member (Department of Remote Sensing)
8.	Dr. Richa Sharma	Associate Professor	Internal Member (Department of Remote Sensing)
9.	Dr. Ramarao N.	Professor, IIST, Trivandrum	External Member(Academics)
10.	Dr. Gulab Singh	Professor, CSRE, IIT, Bombay	External Member (Academics)

11.	Dr. I. C. Das	Scientist/Engr- G Group Director, Geosciences, NRSC, ISRO, Hyderabad	External Member (Research Organisation)
12.	Mr. Mohit Rastogi	GM, CMPDI, Ranchi	External Member (Industry)

SECTION 7		STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration (DD.MM.YYYY)
1	National Space Day Celebration	Shubham Singh (PhD Scholar)	Dr. C. Jeganathan/Dr. V. S. Rathore	08/08/2024
2	Remote Sensing Day Celebration	Ms Ashmita J. Sen and Mala Sinha	Dr. V. S. Rathore	12/08/2024
3	Four-Day Workshop on SAR Data Processing and its Applications	Ms Preeti Sardar (PhD Scholar)	Dr. V S Rathore Dr. Swagata Payra	29/02/2024 – 03/03/2024
4	PG Student Field Visit at Tilaiya Dam, Koderma	Mr. Ayush (M. TECH RS)	Dr V. S. Rathore	24/02/2024 - 27/02/2024

7.2 Student Achievements (Overall)

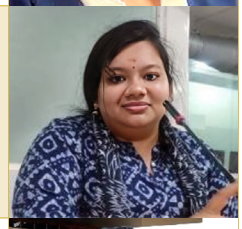
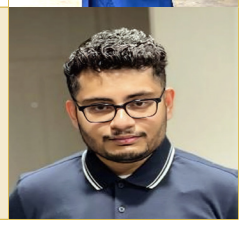
Sr. No.	Name	Achievement	Organizer	Date	Venue
1.	Sudip Banerjee (MT/RS/10004/23)	Found place as a 'Champion team' in the 'IIT Bombay FOSSEE Geospatial Mapathon-2024' based on entry in the theme Cryospheric Hazards and Hydrology	IIT Bombay	20.04.2024	IIT Bombay
2.	Sudip Banerjee (MT/RS/10004/23), Sunil Mahato (MT/RS/1000./23) and Ms Nikita Roy Mukherjee (PHD/RS/10005/2020) and Mr Sourabh Anand (WIHG) – as the Team CryoWizards	Won 2nd position with a prize money of Rs. 3 Lakhs in the National Level 'Innovation Challenge on Glacial Lake Outburst Flood (GLOF) Mitigation' with Innovation entry entitled 'Glacier Lake Monitoring System (GLMS)'	C-DAC Thiruvananthapuram (MeitY)	28.02.2025	C-DAC Thiruvananthapuram

7.3 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1.	Ms. Vaishnavi Choukade	M. Tech Remote Sensing	IV	9.40
2.	Ms. Kaushiki Kundu	M.Sc. Geoinformatics	IV	9.32
3.	Mr. Raihan Ahmad Khan	M.Sc. Geoinformatics	IV	9.32

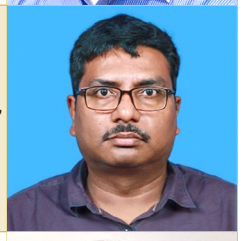
SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date (DD.MM.YYYY)	Photos
1.	Dr. Avik Bhattacharya	CSRE-IIT Bombay	BIT Mesra	25.03.2025 -28.03.2025	
2.	Dr. N.N. Shalguna	Heard & Director, ASSRG, Trichy	BIT Mesra	16.01.2025	
	Mr. Jyotish Jayan	Managing Director, ASSRG, Trichy	BIT Mesra	16.01.2025	
2.	Dr. Sayantan (Monty) Majumdar	Assistant Research Professor, Hydrologic Sciences and Remote Sensing, DRI	BIT Mesra	30.09.2024	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1.	Mr. Amitabh	SAC (ISRO)	Scientist/Engr-G, Head, Planetary and Space Science Data Processing Div.; Operations Director (Chandrayaan-2&3)	
2.	Dr. Gulab Singh	Indian Institute of Technology Bombay	Professor Centre of Studies in Resources Engineering	

3.	Dr. Balakrishna Gokaraju	North Carolina A&T State University	Professor of Computational Data Science and Engineering Department	
4.	Dr. N. RamaRao	IIST, Trivandrum	Professor, Earth and Space Sciences, IIST	
5.	Mr. Sandeep Banerjee	Sky Map Global	Vice President, Global Sales, Dubai	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	IMD	Data Acquisition	Since 2023
2	Aerosol measurements over Jaipur' as `a part of AERONET campaign along with GSFC, NASA, USA	Data Acquisition	Since 2009
3	DFO - Godda, Jharkhand	Internship Support	Since 2023

8.4 Industry Connect

ISRO, Sky Map Global, Leeds Connect Nxt,

SECTION 9 INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- Established network of lightning detectors across the state of Jharkhand and Aerosol lab

9.2 IT Upgrades

The Department is equipped with 84 high-performance desktops distributed across GIS, Photogrammetry, MPRL, and Research Labs. Recently, 14 new systems with Intel i7 13th Gen processors, 32 GB RAM, 512 GB SSD, and graphics cards were inducted, enhancing computational power. These facilities support advanced geospatial analysis, remote sensing, image processing, and modelling tasks, enabling large-scale research on soil erosion, flooding, climate change impacts, and sustainable resource management.

SECTION 10		FUTURE PLANS (2025-26)

A. Department is planning to offer PG Diploma in Disaster Management and later to develop it into a master's level course.

B. Planning to offer exit option in M. Sc. Geoinformatics course after 1 year to earn PG Diploma in Geoinformatics under NEP.

C. The department has already started taking up planetary research and has prepared to align with the Chandrayaan-4 return lunar sample studies.

D. Engage in research in the areas of climate change and atmospheric studies, landslide, compound disaster, lightning modelling, forest phenology and resilience, and water resource modelling.

Department of Space Engineering and Rocketry

SECTION 1 **DEPARTMENTAL PROFILE**

1.1 About the Department / Off-Campus

The Department of Space Engineering and Rocketry was envisioned by the renowned industrialist and philanthropist, Shri Brij Mohan Birla in the year 1962. With the support from Dr. Vikram A. Sarabhai, Chairman, Indian National Committee for Space Research (INCOSPAR), and NASA, a full-fledged Department was established in the year 1964 with an objective to train the scientists and engineers in the field of Aerospace Technologies and Rocketry. Since its inception, the Department had all the necessary facilities to develop rockets of different calibres, stages (single and two – staged), and carry out its static and dynamic testing. The Department initially offered a one year Post Graduate Diploma course and then started offering full time Post Graduate Degree (Master of Engineering) in Space Engineering and Rocketry from 1968. The first rocket symposium was organised by the Department in 1967. Since then, several National Conventions and seminars have been organised by the Department till date. The Department has state of the art facilities to train the post graduate students majorly in the field of Rocket Propulsion and Aerodynamics. The Department has been striving for excellence by pursuing R&D work in the emerging areas of Aerospace and Rocket Technologies. The Department has undertaken sponsored R&D projects from premier agencies such as DST, AR&DB, CSIR, ISRO, AICTE and UGC. The Department also got support from DST FIST (Fund for Improvement of S&T Infrastructure) and UGC SAP (Special Assistance Program). The Department received Rs 5.65 lakh in the year 1976 from the Department of Science and Technology, Govt. of India to develop rockets for weather modifications. Thirty-three rockets name 'SWATI' were fabricated and tested at different sites of Hazaribagh (Jharkhand), Horap (Jharkhand) and Balasore (Orissa) under this project. The Department has currently seven ongoing projects with sanction value of more than Rs 320.00 lakhs.

1.2 Vision & Mission

Vision:

To effectively integrate teaching, research and innovation for significant contribution towards National Aerospace Programmes and related activities

Mission:

- To impart quality education and advanced research training leading to postgraduate and doctoral degree.
- To generate modern infrastructure and conducive research atmosphere for carrying out innovative sponsored research projects
- To nurture spirit of excellence and professional leadership in students and faculty members through exposure to leading academic/research organisations and external experts.
- To create attractive opportunities for sustained interaction and collaboration with academia and industry.

1.3 Key Achievements

- Student Achievements: Mr. Shuvendra Mohan is awarded 3rd Prize in Best Oral Presentation in Research Colloquium- 2024
- Faculty Achievement: Dr. Priyank Kumar received Eminent Engineer Award 2024 from the Aerospace Division Board, Institution of Engineers (India).
- Overall Department Achievement:

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1.	M. Tech in Aerospace Technology	2 Years	24	
2.	Ph.D in Aerospace Engineering	6 Years (extendable)	30	

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1.	Lavala Srinivasa Rao (PHD/SER/10001/17)	Investigation of Supersonic Free Jets with Tabs	Dr. Sudip Das (Guide) Dr. Partha Mondal (Co-Guide)	16.12.2024

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Aerodynamic Characterization of Reusable Launch Vehicles at Low Speeds	Dr. Priyank Kumar (PI) Dr. Sudip Das (CoPI)	RESPOND ISRO	03.12.2019	22.39 Lakhs	4 Years (03.12.2019 to 31.12.2023)
2.	Use of multi-location swirl injection as a performance enhancer for the hybrid rocket system	Dr. Rajiv Kumar (PI) Dr. Shelly Biswas (Co- PI)	Core Research Grant SERB, DST	21.12.2021	41.92 Lakhs	3.5 Years 21.12.2021 to 26.06.2025
3.	Catalyst Development for Hydrogen Peroxide Monopropellant Thrusters	Dr. Shelly Biswas (PI) Dr. Rajiv Kumar (Co-PI)	SERB-POWER	08.06.2022	29.86 Lakhs	3 Years 08.06.2022 to 07.06.2025
4.	Development of Tribrid Propulsion System and Evaluate its Performance Parameters	Dr. Rajiv Kumar (PI) Dr. Shelly Biswas (Co- PI)	CSIR, EMR-II	12.09.2023	28.35 Lakhs	3Years 12.09.2023 to 11.09.2026
5.	Performance Estimation of a hybrid rocket using nitrous oxide as the Oxidizers	Dr. Rajiv Kumar (PI) Dr. Shelly Biswas (Co- PI)	AR&DB, DRDO	05.12.2023	39.83 Lakhs	3 Years 05.12.2023 to 04.12.2026
6.	Augmentation of Low Speed Wind Tunnel	Dr. Priyank Kumar (PI) Dr. Sudip Das (Co-PI)	DST FIST Program -2023	30.10.2023	118.00 Lakhs	5 Years 30.10.2023 to 29.10.2028
7.	Development of High Angle of Attack CFD Aerodynamics Database & Behaviour Model of Missile Configuration at Varying Geometric and Flow Parameters	Dr. Priyank Kumar (PI) Dr. Sudip Das (Co-PI) Dr. L. S. Brar (Co-PI)	AR&DB DRDO	25.06.2024	39.81 Lakhs	2 Years 25.06.2024 to 24.06.2026

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	AICTE-IDEA LAB	Dr. Priyank Kumar Coordinator Dr. Sudip Das Co- Coordinator	AICTE and Industry	17.06.2021	106.79 Lakhs	31.01. 2025
2.	Development of Catalyst System For Stable Combustion of Han Green Propellants	Dr. Shelly Biswas (PI) Assistant Professor Dr. Rajiv Kumar (Co-PI)	A R & D B , DRDO	27.05.2021	30.207 Lakhs	31.03.2025

SECTION 3 SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/ Hybrid)
1.	Annual AeSI CFD Symposium during August 11-13, 2024	Dr. Priyank Kumar	Aeronautical Society of India CFD Division	11.08.2024 to13.08.2024	Offline
2.	Two Days Workshop on Advancement of Hybrid Rocket Propulsion	Dr. Rajiv Kumar	SERB-DST	25.10.2024 to 26.10. 2024	Hybrid
3.	Seminar on “Aerospace Technologies in Defence Sector – An Overview” and S/SE ARDB Panel Meeting	Dr. Priyank Kumar	AR&DB, DRDO	28.11.2024 to 29.11.2024	Offline
4.	37th National Convention of Aerospace Engineers (NCAE)	Dr. Priyank Kumar	Institution of Engineers (India)	18.01.2025 to 19.01.2025	Offline
5.	2-Day Workshop on Rocket Technologies	Dr. Priyank Kumar	BIT Mesra	01.05.2025 to 02.05.2025	Offline
6.	5-Day Workshop on Application of Green Propellants in Rocket Propulsion	Dr. Shelly Biswas	SERB, POWER DST	27.05.2025 to 31.05.2025	Hybrid

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Sudip Das	Annual AeSI CFD 2024	BIT Mesra	AeSI CFD Division	BIT Mesra	11.08.2024 to 13.08.2024
2	Dr. Sudip Das	37th National Convention of Aerospace Engineers	BIT Mesra	BIT Mesra and IEI	BIT Mesra	18.01. 2025 to 19.01.2025
3	Dr. Sudip Das	Seminar on “Aerospace Technologies in Defence Sector – An Overview” and S/SE ARDB Panel Meeting	BIT Mesra	AR&DB, DRDO	BIT Mesra	28.11.2024 to 29.11.2024

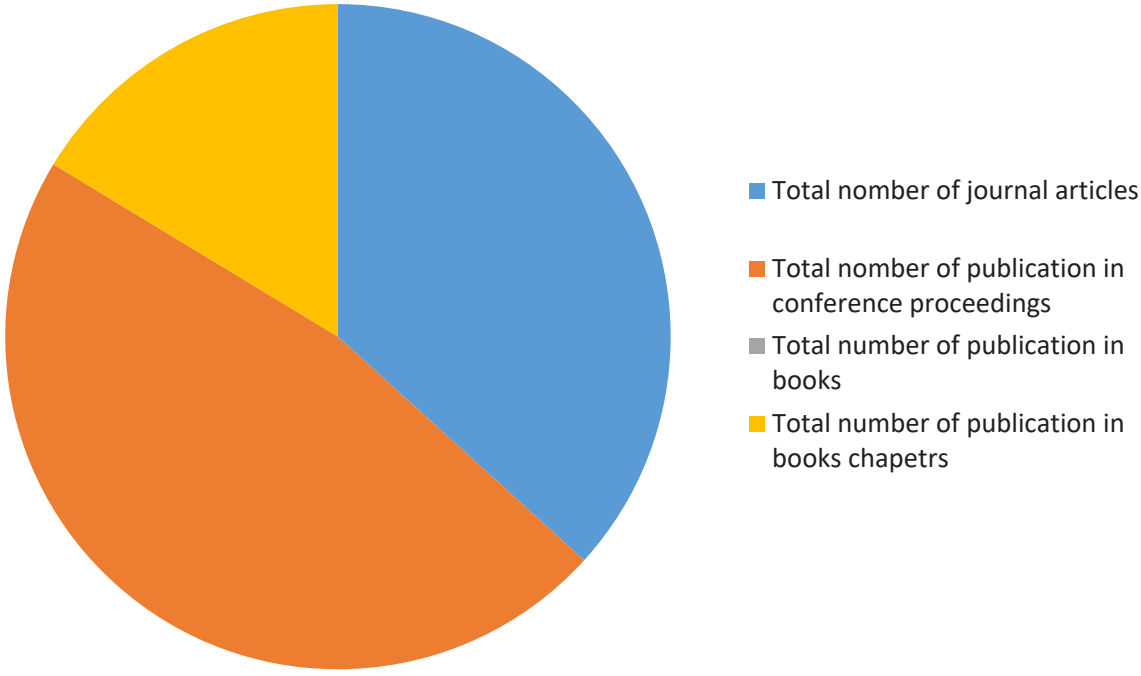
4	Dr. Sudip Das	2-Day Workshop on Rocket Technologies	BIT Mesra	BIT Mesra	BIT Mesra	01.05.2025 to 02.05.2025
5	Dr. Sudip Das	5-Day Workshop on Application of Green Propellants in Rocket Propulsion	BIT Mesra	SERB, POWER DST	BIT Mesra	27.05.2025 to 31.05.2025
6	Dr. Priyank Kumar	Annual AeSI CFD 2024	BIT Mesra	AeSI CFD Division	BIT Mesra	11.08.2024 to 13.08.2024
7	Dr. Priyank Kumar	37th National Convention of Aerospace Engineers	BIT Mesra	BIT Mesra and IEI	BIT Mesra	18.01. 2025 to 19.01.2025
8	Dr. Priyank Kumar	Seminar on "Aerospace Technologies in Defence Sector – An Overview" and S/SE ARDB Panel Meeting	BIT Mesra	AR&DB, DRDO	BIT Mesra	28.11.2024 to 29.11.2024
9	Dr. Priyank Kumar	2-Day Workshop on Rocket Technologies	BIT Mesra	BIT Mesra	BIT Mesra	01.05.2025 to 02.05.2025
10	Dr. Rajiv Kumar	AESI CFD 2024	BIT Mesra	AeSI CFD Division	BIT Mesra	11.08.2024 to 13.08.2024
11	Dr. Rajiv Kumar	Hybrid Rocket Technology for Defence Application	HEMRL, DRDO	HEMRL DRDO	HEMRL DRDO	09-05-2024
12	Dr. Rajiv Kumar	37th National Convention of Aerospace Engineers	BIT Mesra	BIT Mesra and IEI	BIT Mesra	18.01. 2025 to 19.01.2025
13	Dr. Shelly Biswas	Annual AeSI CFD 2024	BIT Mesra	AeSI CFD Division	BIT Mesra	11.08.2024 to 13.08.2024
14.	Dr. Shelly Biswas	37th National Convention of Aerospace Engineers	BIT Mesra	BIT Mesra and IEI	BIT Mesra	18.01. 2025 to 19.01.2025
15	Dr. Shelly Biswas	5-Day Workshop on Application of Green Propellants in Rocket Propulsion	BIT Mesra	SERB, POWER DST	BIT Mesra	27.05.2025 to 31.05.2025
16	Dr. Partha Mondal	INAE CEEE mentoring program	INAE	INAE & Infosys Foundation	IIT Kharagpur	02.06.2025 to 13.6.2025
17	Dr. Partha Mondal	SPICES SAROD 2024 Workshop	VSSC Trivandrum	ISRO	VSSC Trivandrum	12.12.2024 to 14.12. 2024

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1.	18	23	0	8

Publication data



SECTION 5 AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. Priyank Kumar	Eminent Engineer Award	Institution of Engineers (India)	State	2024
2.	Dr. Rajiv Kumar	Invited Speaker in a Workshop on Hybrid rocket Propulsion for defence application	HEMRL, DRDO	National	9th May, 2024
3	Dr. Rajiv Kumar	Reviewers under the INSPIRE Awards-MANAK Scheme	National Innovation Foundation, DST	National	2024-2025
4.	Dr. Rajiv Kumar	Jury Member for the district level Exhibition and Project competition under Inspire Award Manak Scheme	National Innovation Foundation, DST	National	2024-2025
5.	Dr. Rajiv Kumar	Jury Member for the State level Exhibition and Project competition under Inspire Award Manak Scheme	National Innovation Foundation, DST	National	2024-2025

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1.	S. Jain, S. Biswas, R. Kumar	Wheat husk biomass-derived catalyst and its process of preparation	202511052633 dated 30-05-2025	2025	Applied	
2.	Ritesh Dubey, Rajiv Kumar and Shelly Biswas	An igniter formulation for solid rocket motors and method of preparation thereof	202431002973 Date of Publication- 2nd February 2024	2024	Published	
3.	Arpit Dubey, Rajiv Kumar, and Shelly Biswas	A Hybrid Rocket Engine, and method of improving performance thereof	202431103560 Date of Publication- 3rd January 2025	2025	Published	
4.	Gyandeep and Rajiv Kumar	Enhancement of Regression Rate due to change in Port alignment and Configuration Techniques	Application No.: 202431030827	2024	Published	This is about the innovative methods that has been used to improve the performance of the hybrid rocket. It utilizes the helical grain configuration that improves the residence time for burnt fuel.
5.	Arpit Dubey, Rajiv Kumar and Shelly Biswas	Utilization of Additive Derived from Organic Waste such as Shorea Robusta (Sal) Leaf as a Hybrid Rocket Fuel		2025	Applied	This patent is about the use of sal leaf as a hybrid fuel that would be used a waste material to the useful fuel.

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties.

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1.	Dr. Sudip Das	Professor &) Registrar (Actg.)	Aerodynamics	Ph.D.	16.08.2001
2.	Dr. Priyank Kumar	Assoc. Professor & Head	Aerodynamics	Ph.D.	03.12.2007
3.	Dr. Partha Mondal	Assistant Professor	Aerodynamics	Ph.D.	30.03.2015
4.	Dr. Rajiv Kumar	Assistant Professor	Rocket Propulsion	Ph.D.	31.03.2015
5.	Dr. Shelly Biswas	Assistant Professor	Rocket Propulsion	Ph.D.	24.06.2016
6.	Dr. Swarupkumar Y. Jejurkar	Assistant Professor	Rocket Propulsion	Ph.D.	03.07.2017

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice.

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Dr. S. Pandian	Distinguished Scientist and Former Director, SDSC	Previous

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HOD/In-Charge	Chairman (Ex-Officio)	Chairman
2.	Dr. Sudip Das	Professor	Internal Member
3.	Dr. Priyank Kumar	Assoc. Professor	Internal Member
4.	Dr. Rajiv Kumar	Asst. Professor	Internal Member
5.	Dr. Gautam Sarkhel	Professor	Internal Member
6.	Dr. Praveen Mishra	Asst. Professor	Internal Member
7.	Dr. Debopam Das	Professor Dept. of Aerospace Engineering, IIT Kanpur	External Member
8.	Dr. A. M. Pradeep	Professor, Dept. of Aerospace Engg. IIT Bombay	External Member
9.	Dr. Arnab Roy	Professor, Dept. of Aerospace Engg. IIT Kharagpur	External Member
10.	Shri Prateek Kishore	Outstanding Scientist & Director, TBRL, Chandigarh	External Member
11.	Shri Rajeev Kumar Singh	RDCSI, SAIL, Ranchi	External Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr.No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Star Gazing Session for students	---	Dr. Shelly Biswas	30.01.2025
2.	Invited talk and Student activity of star gazing for SER Department	---	Dr. Shelly Biswas	26.01.2025
3.	National Space Day-2024	---	Dr. Priyank Kumar	23.08.2024

7.2 Student Achievements

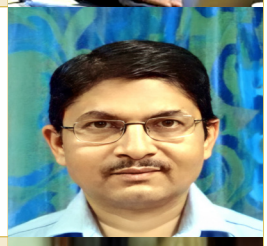
Sr. No.	Name	Achievement	Organizer	Date	Venue
1.	Mr. Arpit Dubey	National Technology Day	BIT Mesra	08.05.2025	BIT Mesra
2.	Mr. Shuvendra Mohan	3rd Prize in Best Oral Presentation in Research Colloquium- 2024	BIT Mesra	15.07.2024 to 17.07.2024	BIT Mesra

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1.	Smt. Droupadi Murmu	Hon'ble President of India	BIT Mesra	15.02.2025	
2.	Sri S. Somnath	Chairman, ISRO	BIT Mesra	11.08.2024	
3.	Sri G A Srinivasa Murthy	Director DRDL, Hyderabad	BIT Mesra	18.01.2025	
4	Brigadier Sajesh Babu PG	President of the Ramgarh Cantonment Board in Jharkhand	BIT Mesra		
5	Prof. Bikramjit Basu	Director, CGCRI	BIT Mesra		
6	Dr. Vinod Kumar	Director (PD), INSPACe	BIT Mesra		
7.	Prof. Ajit Kumar Chaturvedi		BIT Mesra		

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1.	Padma Shri M. C. Dathan	Former Director Satish Dhawan Space Centre Former Director Vikram Sarabhai Space Centre		
2.	Shri A. K. Chakrabarty	Director Defence Research & Development Laboratory		
3.	Dr. D. Narayan	Scientist 'G' Group Director Aeronautical Development Agency (ADA)		
4.	Prof. Ujjwal K. Saha	Professor Indian Institute of Technology Guwahati		
5.	Dr. S. L. N. Desikan	Scientist 'F', EAD, Aero Vikram Sarabhai Space Centre (VSSC)		

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Indian Institute of Technology, Madras, Chennai	Students Internship, jointly organise Seminar/ Conference/STTP, Faculty Exchange	5 Years
2.	Indian Institute of Space Science and Technology, Trivandrum	Students Internship, jointly organise Seminar/ Conference/STTP, Faculty Exchange	5 Years
3.	Skyroot Aerospace Private Limited, Hyderabad	Cooperation in carryout students Project, exchange/ share of ideas in the field of Aerospace.	2 years
4.	Manastu Space Technologies Private Limited, Mumbai	Cooperation in carryout students Project, exchange/ share of ideas in the field of Aerospace.	2 years

University Polytechnic BIT Mesra

SECTION 1 **DEPARTMENTAL PROFILE**

About the Department

University Polytechnic, BIT Mesra, was established on January 27, 2001, through a Memorandum of Understanding (MoU) between Birla Institute of Technology (BIT) Mesra, Ranchi, and the Welfare Department, Government of Jharkhand. Conceived as a flagship initiative by the Government of Jharkhand, the Polytechnic aims to extend quality technical education to students from Particularly Vulnerable Tribal Groups (PVTGs), Scheduled Tribes (ST), Scheduled Castes (SC), Backward Classes (BC-I and BC-II), and other marginalized sections of society in Jharkhand. The primary objective is to empower these communities by equipping them with industry-relevant skills and knowledge.

Situated within the BIT Mesra Campus, the University Polytechnic is spread over 8.04 acres and benefits from the academic ecosystem and infrastructure of the parent institution, BIT Mesra.

The Polytechnic commenced its journey with Diploma programs in Automobile Engineering and Electronics Engineering, each with an intake of 25 students. In 2002, two more branches—Computer Engineering and Manufacturing Engineering—were added with similar intakes. The academic portfolio expanded in 2005 with the introduction of a B.Sc. program in Medical Laboratory Technology, accommodating 50 students. Further expansion took place in 2010 with the launch of Diploma programs in Mechanical Engineering and Electrical Engineering, each admitting 30 students.

Currently, the Polytechnic offers Diploma programs across six engineering disciplines—Automobile, Civil, Computer, Electronics & Communication, Electrical & Electronics, and Mechanical Engineering—with a total enrollment of 270 students

Vision & Mission

Vision:

To be recognized as a premier technical training institution in India, dedicated to serving the nation and the engineering profession by nurturing highly skilled human resources through modern, industry-relevant training in selected engineering disciplines and trades.

Mission:

1. To administer a technical training institution that upholds the highest standards of education and training in alignment with contemporary engineering practices.
2. To offer diploma and certificate courses that are responsive to the evolving needs of the engineering and industrial sectors.
3. To adopt and implement a modern and dynamic curriculum that reflects current trends in technical education.
4. To continuously upgrade training infrastructure by incorporating the latest equipment, technologies, and methodologies.
5. To facilitate supervised job training and internships for students and faculty to ensure hands-on industry exposure.
6. To foster strong linkages with industry partners for collaborative internships, curriculum review, and modernization of teaching methodologies.
7. To design and implement targeted skill development programs for the youth of Jharkhand, aimed at enhancing their entrepreneurial, managerial, and professional competencies.

Key Achievements

- **Student Achievement:**

A total of 265 job offers were secured by students during the Campus Placement Drive. The highest package of ₹3.5 LPA was offered by Hindalco Industries Limited.

- **Faculty Achievement:**

Dr. Rajendra Mahto was awarded a Ph.D. on June 4, 2025 from Kalinga University, Raipur (Chhattisgarh). His research topic was “Design of IoT Gadgets for Unstructured Big Data Using Clustering Technique.”

- **Departmental Achievement:**

(a) Approval of the new Civil Engineering Department.

(b) Successfully introduced Drone Technology Certificate Programs in collaboration with EduRade (RC Hobbytech Solutions Pvt. Ltd.), establishing the Polytechnic as a pioneer in offering cutting-edge skill development courses aligned with the future of engineering and technology.

Courses Offered

Sr. No.	Course Name	Duration	Intake Capacity	Key Features
1	Automobile Engineering	3 Years	60 Students	Hands-on training in automotive systems and maintenance.
2	Civil Engineering	3 Years	30 Students	Focused on construction technology and structural design.
3	Computer Engineering	3 Years	30 Students	Emphasis on software development, programming, and networking.
4	Electronics & Communication Engineering	3 Years	30 Students	Training in circuit design, communication systems, and IoT.
5	Electrical & Electronics Engineering	3 Years	60 Students	Strong foundation in power systems, control systems, and wiring.
6	Mechanical Engineering	3 Years	90 Students	Practical skills in manufacturing, CAD/CAM, and thermodynamics.

(a) Completed Projects

Sr. No.	Project Title	PI/Co- PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1.	Harnessing the Solar Energy in Extracting essential oil for Community based perfumery and aromatherapy	Mr.Manoj Kumar	UBA. Govt of India	July 24-August 25	100000.00	31.03.2025
2.	Modernisation of computer hardware and Networking Lab	PI Mr Niraj Kumar COPI Mr. Rammish Sinha	AICTE	2022-2024	1684500	Completed

(b) CSR Funded Project

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator(s)	Funding / Sponsoring Agency	Date	Mode
1.	Advanced Instrumentation Techniques for Scientific Research in Advanced Microscopy	Dr. Raghvendra Kumar (Co-coordinator)	CIF, BIT Mesra	30.05.2025 – 04.07.2025	Offline
2.	Workshop on Ancient Indian Culture and Civilization By Dr. Anita Shukla	Dr. Sandhya Rani	University Polytechnic, BIT Mesra	11.04.2025	Offline
3.	X-Ray Diffraction Techniques for Material Characterization and Data Interpretation	Dr. Raghvendra Kumar (Member)	CIF, BIT Mesra	03.03.2025 – 07.03.2025	Offline
4.	Workshop – Data Unlocked: Mastering Database Management & Analytics	Dr. Sumana Kumari (Coordinator) Dr. Md. Maqubool Hosain (Joint Coordinator)	University Polytechnic, BIT Mesra	15.02.2025 & 16.02.2025	Offline

5.	Workshop on Ancient Music Systems By Dr. Mrinal Pathak	Dr. Sandhya Rani	University Polytechnic, BIT Mesra	13.02.2025	Offline
6.	Workshop on Ancient Mathematics By Dr. Prabjot Kaur	Dr. Sandhya Rani	University Polytechnic, BIT Mesra	13.02.2025	Offline
7.	Workshop on Introduction to PLC	Dr. Sumana Kumari (Coordinator) Dr. Md. Maqubool Hosain (Joint Coordinator)	University Polytechnic, BIT Mesra	01.02.2025 & 08.02.2025	Offline
8.	Workshop on Vedic Culture By Dr. Mrinal Pathak	Dr. Sandhya Rani	University Polytechnic, BIT Mesra	17.01.2025	Offline
9.	Workshop on Ancient Indian Architecture By Prof. Ushnatta Dutta	Dr. Sandhya Rani	University Polytechnic, BIT Mesra	16.01.2025 – 17.01.2025	Offline
10.	Faculty Development Program on AI- ML for Beginners – A Project-Based Approach	Dr. R. K. Chatterjee (Coordinator) Dr. Sumana Kumari & Mr. Ramnish Sinha (Joint Coordinator)	University Polytechnic, BIT Mesra	16.12.2024 – 20.12.2024	Offline
11.	Workshop on Natural Language Processing for Conversational AI	Mr. Neeraj Kumar	University Polytechnic, BIT Mesra	09.12.2024 – 13.12.2024	Offline

3.2 Events Attended by Faculty

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1.	Dr. Satish Kumar	Workshop on Awareness of Trends in Technology	CDSEI, BIT MESRA	BIT MESRA	BIT MESRA	30.06.2025
2.	Mr Abhay Kumar	FDP on "Concept of Programming Language"	Ambika Ram Devi Degree College, Basti,UP and NIT Patna	Ministry of Electronics and Information technology.	Online	27.06.2025
3.	Ms. Rekha Kumari	FDP on"Research Structuring & Publication Process"	Centre for Research & Training National Foundation for Entrepreneurship Development.Coimbatore, Tamil Nadu.	Centre for Research & Training National Foundation for Entrepreneurship Development. Coimbatore, Tamil Nadu.	Online	23.06.2025 - 27.06.2025
4.	Ms Nirupam	5 Day National FDP on Research Structuring and Publication Process	Center for Research and Training, National Foundation for Entrepreneurship Development (NFED), Coimbtore, Tamilnadu		Online	23.06.2025 - 27.06.2025

5.	Dr. Trilok Kumar Parashar.	FDP on "Five -Day National Faculty Development Programme on Research Structuring & Publication Process"	Created & powered by Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED)	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	23.06.2025 - 26.06. 2025
6.	Dr. Naveen Trivedi	5-Day National FDP on "Research Structuring & Publication Process".	CRT, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.	CRT, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.	Online	23.06.2025 -27.06. 2025
7.	Dr. Md Maqubool Hosain	Participated in the "Five- Days FDP on "Emerging Technologies and Application of AI in Science and Humanities"	Department of Science and Humanities, RTC Institute of Technology, Ranchi, Jharkhand.	RTC Institute of Technology, Ranchi, Jharkhand.	RTC Institute of Technology, Ranchi, Jharkhand.	23.06.2025 - 27.06.2025
8.	Dr. Md Maqubool Hosain	Participated in the "Five days faculty development programme on Research Structuring & Publication Process created & powered by Centre for Research & Training,	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	Coimbatore, Tamil Nadu	23.06.2025 - 27.06.2025
9.	Mr Abhay Kumar	FDP on" Drone and IoT Technology for GIS and smart farming Application".	BIT Mesra Patna,	Ministry of Electronics and Information technology.	Online	05.06.2025
10.	Mr. Abhay Kumar	FDP on "Drone and IOT Technology for GIS and Smart Farming".	BIT Patna	BIT, Mesra	BIT Patna	03.06.2025
11.	Dr. Naveen Trivedi	FDP on "Drone and IoT Technology for GIS and Farming Application"	BIT Patna and NIT Patna	MEITY	Online	02.06.2025 - 06.06.2025
12.	Dr. Sumana Kumari	5-Day EDP Semiconductor Industries and Artificial Intelligence in India: Driving Innovation and Career Growth"	School of Electronics Engineering (SENSE) VIT-AP University	Self	ONLINE	16.05.2025 - 21.05.2025

13.	Dr Sandhya Rani	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
14.	Dr Anubha Singh	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
15.	Dr. Raghvendra Kumar	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
16.	Dr. Trilok Kumar Parashar.	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
17.	Dr. Satish Kumar	Faculty Development Workshop on KYaaT (Know Yourself as a Teacher)	VEC, BIT, MESRA	BIT MESRA	BIT MESRA	23.04.2025
18.	Ms Nirupam	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell(VEC) & Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
		farming Application".		Information technology.		
10.	Mr. Abhay Kumar	FDP on "Drone and IOT Technology for GIS and Smart Farming".	BIT Patna	BIT, Mesra	BIT Patna	03.06.2025
11.	Dr. Naveen Trivedi	FDP on "Drone and IoT Technology for GIS and Farming Application"	BIT Patna and NIT Patna	MEITY	Online	02.06.2025 - 06.06.2025
12.	Dr. Sumana Kumari	5-Day EDP Semiconductor Industries and Artificial Intelligence in India: Driving Innovation and Career Growth"	School of Electronics Engineering (SENSE) VIT-AP University	Self	ONLINE	16.05.2025 - 21.05.2025
13.	Dr Sandhya Rani	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
14.	Dr Anubha Singh	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025

15.	Dr. Raghvendra Kumar	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
16.	Dr. Trilok Kumar Parashar.	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
17.	Dr. Satish Kumar	Faculty Development Workshop on KYaaT (Know Yourself as a Teacher)	VEC, BIT, MESRA	BIT MESRA	BIT MESRA	23.04.2025
18.	Ms Nirupam	FDP on "Know Yourself as a Teacher (KYaaT)". farming Application".	Value Education Cell(VEC)& Institution's Innovation Council (IIC)	BIT, Mesra Information technology.	BIT, Mesra	23.04.2025
10.	Mr. Abhay Kumar	FDP on "Drone and IOT Technology for GIS and Smart Farming".	BIT Patna	BIT, Mesra	BIT Patna	03.06.2025
11.	Dr. Naveen Trivedi	FDP on "Drone and IoT Technology for GIS and Farming Application"	BIT Patna and NIT Patna	MEITY	Online	02.06.2025 - 06.06.2025
12.	Dr. Sumana Kumari	5-Day EDP Semiconductor Industries and Artificial Intelligence in India: Driving Innovation and Career Growth"	School of Electronics Engineering (SENSE) VIT-AP University	Self	ONLINE	16.05.2025 - 21.05.2025
13.	Dr Sandhya Rani	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
14.	Dr Anubha Singh	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
15.	Dr. Raghvendra Kumar	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
16.	Dr. Trilok Kumar Parashar.	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell (VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025

17.	Dr. Satish Kumar	Faculty Development Workshop on KYaaT (Know Yourself as a Teacher)	VEC, BIT, MESRA	BIT MESRA	BIT MESRA	23.04.2025
18.	Ms Nirupam	FDP on "Know Yourself as a Teacher (KYaaT)".	Value Education Cell(VEC)& Institution's Innovation Council (IIC)	BIT, Mesra	BIT, Mesra	23.04.2025
19.	Ms. Rekha Kumari	Workshop on "Composite Materials:Manufacturing Characterizatuion, and Applications."	Dept. of Production & Industrial Engineering, BIT, Mesra.	SERB, DST, Govt. of India	Dept. of Production & Industrial Engineering, BIT, Mesra.	21.02.205-22.02.2025
20.	Mr. Ramnish Sinha	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 to 20.12.2024
21.	Mr. Neeraj Kumar	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 to 20.12.2024
22.	Mr. Abhay Kumar	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 to 20.12.2024
23.	Dr. Rajendra Mahto	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 to 20.12.2024
24.	Dr. Naveen Trivedi	FDP on "AI/ML for beginners-A Project Based	University Polytechnic, BIT Mesra	Institute	B Block University Polytechnic, BIT Mesra	16.12.2024 to 20.12.2024
25.	Dr. Md Maqubool Hosain	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
26.	Dr. Raghvendra Kumar	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
27.	Dr. Chhaya Yadav	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024

28.	Dr. Satish Kumar	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
29.	Ms. Mridula Pathak	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
30.	Dr. Trilok Kumar Parashar.	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
31.	Dr. Sandhya Rani	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
32.	Mr. Prasant Pandey	FDP on "AI/ML for Beginners-A Project Based Approach".	Dept. Of ECE & CSE, University Polytechnic, BIT, Mesra	BIT, Mesra	University Polytechnic, BIT, Mesra	16.12.2024 - 20.12.2024
33.	Mr. Prasant Pandey	Workshop on "Blockchain Technology and its application in secured energy management for microgrid"	Department of EEE, BIT, Mesra	BIT, Mesra	Department of EEE, BIT, Mesra	14.12.2024 - 15.12.2024
34.	Mr Neeraj Kumar	Workshop on "Natural Language Processing for Conversational AI"	Department of Computer Science & Engineering Birla Institute of Technology, Mesra Ranchi	BIT, Mesra	R & D Building BIT Mesra, Ranchi	09.12.2024 to 13.12.2024
35.	Dr. Rajendra Mahto	Workshop on "Natural Language Processing for Conversational AI"	Department of Computer Science & Engineering Birla Institute of Technology, Mesra Ranchi	BIT, Mesra	R & D Building BIT Mesra, Ranchi	09.12.2024 to 13.12.2024
36.	Dr. Naveen Trivedi	Workshop on "Natural Language Processing for Conversational AI"	Department of Computer Science & Engineering Birla Institute of Technology, Mesra Ranchi	Institute	R & D Building BIT Mesra, Ranchi	9.12.2024 to 13.12.2024
37.	Dr. Sandhya Rani	9th International Conference on human Values in higher Education (ICHVC H), 2024	SRM University	UHV foundation, AICTE	Online	22.11.2024 -24.11.2024

38.	Dr. Sumana Kumari	5-Day FDP on "Nurturing the Future Leadership Programme"	IIT-ISM Dhanbad under MMTTP- UGC	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	IIT-ISM Dhanbad	21.10.2024 - 25.10.2024
39.	Dr. Satish Kumar	Nurturing Future Leadership Programme	IIT-ISM, DHANBAD	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	IIT-ISM, DHANBAD	21.10.2024 - 25.10.2024
40.	Mr. Prasant Pandey	National workshop on" Skilling, Upskilling and Multiskilling in the Digital age"	ISTD	CCL Ranchi	Jharkhand Government Tool Room, Ranchi	27.09.2024 - 28.09.2024
41.	Dr. Naveen Trivedi	National workshop on Skilling, up skilling and Multi skilling in the digital age	ISTD	CCL Ranchi	Jharkhand Government Tool room Ranchi, Jharkhand	27.09.2024 - 28.09.2024
42.	Mr. Prasant Pandey	FDP on "Orientation and sensitization programme under MMTTP"	IIT Dhanbad	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	Online	17.09.2024 - 30.09.2024
43.	Dr. Naveen Trivedi	FDP on NEP Orientation & Sensitization Programme	IIT Dhanbad, Jharkhand	IIT Dhanbad, Jharkhand	Online	02.09.2024 - 14.09.2024
44.	Dr. Sumana Kumari	Two-Week FDP on "NEP2020- Orientation and Sensitization Programme"	IIT-ISM Dhanbad under MMTTP- UGC	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	ONLINE	19.08.2024 to 30.08.2024.
45.	Dr. Md Maqubool Hosain	Participated in the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM- TTP) of University Grants Commission (UGC).	Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, India.	Malviya Mission Teacher Training Programme (MM-TTP) Under University Grant Commission (UGC)		19.08.2024 to 30.08.2024
46.	Dr. Satish Kumar	Two-Week FDP on "NEP2020- Orientation and Sensitization Programme"	IIT-ISM, DHANBAD	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	Online	19.08.2024 to 30.08.2024.
47.	Dr. Sandhya Rani	Two-Week FDP on "NEP2020- Orientation and Sensitization Programme"	IIT-ISM, DHANBAD	UGC - Malaviya Mission Teacher Training Program (MM- TTP)	Online	19.08.2024 - 30.08.2024.

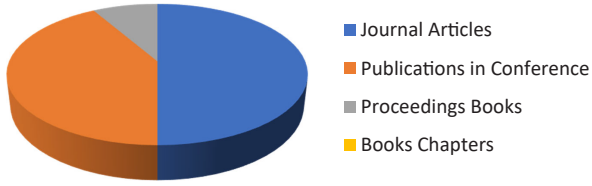
48.	Dr. Md Maqubool Hosain	Webinar on "Latest Research OnSemiconductors, Communication & Sustainable Disaster Management"	Educare Taiwan	Educare Taiwan	Online	16.08.2024
49.	Dr. Trilok Kumar Parashar.	NEP 2020 Orientation & Sensitization Programme	Indian Institute of Technology (Indian School of Mines) , Dhanbad	Malviya Mission Teacher Training Programme (MM-TTP) of Under University Grant Commission (UGC)	Indian Institute of Technology (Indian School of Mines) , Dhanbad	10.08.2024 to 30.08.2024
50.	Dr. Raghvendra Kumar	MEMS based Scalable Healthcare Technologies	Dept. of ECE, BIT, Mesra	SERB, Govt. Of India	BIT, Mesra	01.08.2024 to 02.08.2024
51.	Dr. Md Maqubool Hosain	Webinar on "Latest Research On Optimization Based Machine Learning & Telehealth Systems"	Educare Taiwan	Educare Taiwan	Online	19.07.2024
52.	Dr. Md Maqubool Hosain	Webinar on "Higher StudyOpportunity & Applications of spatial AI Include ROBOT Navigation, Self Driving Cars, Computer Vision &Qualility Control in Production"	Educare Taiwan with Yuan Ze University (YZU), Taiwan.	Educare Taiwan with Yuan Ze University (YZU), Taiwan.	Online	14.07.2024
53.	Dr. Rajendra Mahto	IEEE 2nd International World Conference on Communication & Computing - 2024	IEEE WCONF 2024	IEEE WCONF	Online	12.07.2024 to 14.07.2024
54.	Ms Nirupam	8 Days Face-to- Face UHV-III FDP	All India Council for Technical Education (AICTE)	AICTE	Indian Institute of Technology, Kanpur	06.07.2024 - 13.07.2024
55.	Dr. Chhaya Yadav	Certification Course on "Management of Library and Information Centers."	Swayam	Ministry of Education, Government of India.	Online	01.07.2024 - 30.10.2024 202

SECTION 4		RESEARCH PUBLICATIONS

4.1 Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1.	06	05	01	00

Chart 1: Publication details



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. Sandhya Rani	Best Teacher and Mentor Award	BIT, Mesra	Institute Level	2024

5.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
01.	Dr. Anjini Kumar Tiwary, Manjunath Shrishailappa Patil, Dr. Binay Kumar, Dr. Vidya M,Dr. Priyadarshi Suraj,Dr. Md. Maqubool Hosain, Dr.. Siva Sankar Phani Tammireddy, Pidatala Rajesh, Nagavarapu Sowmya	IoT based smart home surveillance and security system	202441058548	2024	Granted	An IoT-based smart home surveillance system enhances security by integrating interconnected cameras, sensors, and smart locks. It enables real-time monitoring, instant notifications, and remote control through a mobile application. Key features include live video streaming, motion detection and seamless connectivity with other smart devices, ensuring comprehensive protection for the home.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

S. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1.	Prof. Vijaya Laxmi	Professor & Director	Application of Soft Computing in Control System, Power System, Speech Processing, Satellite Image Processing, Machine Learning.	Ph. D.	01/07/2002
2.	Dr. Anubha Singh	Assistant Professor	(a)Characterisation & carrying capacity and mitigation of river water, (b)Bio medical Instrumentation	Ph.D.	10.09.1997
3.	Mr. Prashant Pandey	Lecturer	Power Electronics & Devices	MTech..	09.10.2000
4.	Dr. Rajendra Mahto	Assistant Professor	Computer Science & Engineering	M.C.A., Ph.D.	01.04.2001
5.	Mr. Pradeep Toppo	Assistant Professor	Heat Power	MTech., Ph.D. (Pursuing)	01.11.2001
6.	Mr. N. K. Mukherjee	Associate Lecturer	Electrical Engineering	B.E.	12.06.2002
7.	Dr. Sumana Kumari	Assistant Professor	Microwave and Wireless Antenna	Ph.D.	02.01.2003
8.	Sri Ram Kishore Prasad	Sr. Superintendent	Mechanical- (CAD & CAM)	M. Tech	15.07.2003
9.	Dr. Satish Kumar	Assistant Professor	Water Quality monitoring & Water Purification	PGDCA QM, M. Phil,Ph. D.	03.02.2004
10.	Dr. T. K. Parashar	Assistant Professor	Physics	Ph.D.	04.02.2004
11.	Mr. Rakesh	Assistant Professor	CAD/CAM	B.E,Ph.D. (Pursuing)	12.03.2004
12.	Mr. Abhay Kumar	Assistant Professor	Computer Science & Engineering	M. Tech., (Comp.Sc.), Ph.D.(Pursuing)	01.07.2004
13.	Mr. Ramnish Sinha	Assistant Professor	Computer science	M. Tech. Ph. D. (Pursuing)	07.08.2004
14.	Dr. Rohit Kamal Chatterjee	Assistant Professor	Image processing & Machine Learning	Ph.D.	25.07.2006
15.	Dr.(Mrs.) Meena Singh	Assistant Professor	ECE	M.Tech., Ph.D.	28.02.2007
16.	Dr. Naveen Trivedi	Lecturer	Data Mining and Languages	M. Tech, PhD.	17.03.2007
17.	Sri Surendar Kr. Mahto	Associate Lecturer	Power System	Ph.D. (Pursuing)	01.07.2007
18.	Mr. Niraj Kumar Mishra	Assistant Professor	Computer Engineering	M.Tech, Ph.D.(Pursuing)	01.03.2008

19.	Mrs. Rekha Kumari	Assistant Professor	Production	M.Tech,P h.D.(Pursuing)	02.03.2009
20.	Sri N. K. Singh	Physical Training Instructor	Sports & Games	M.Phil., Ph.D. (Pursuing)	08.05.2009
21.	Mrs. Nirupam	Assistant Professor	Instrumentation , IOT based Antenna	M.E., Ph.D. (Pursuing)	26.07.2009
22.	Dr. Md. Maqubo ol Hosain	Lecturer	Antenna & RF circuit Design	Ph.D.	27.07.2009
23.	Dr. Sandhya Rani	Assistant Professor	Organic Chemistry	M.Sc.,B. Ed., Ph. D.	16.07.2010
24.	Sri Shankar Kumar	Teaching Assistant	Automobile & Electrical Vehicle	M.Tech.	24.09.2013
25.	Mr. Manoj Kumar	Assistant Professor	CFD & Heat Transfer	M. Sc., Ph D.	30.09.2013
26.	Dr. Raghven dra Kumar	Lecturer	Microwave Engg	Ph.D.	28.10.2013
27.	Mr. Prabhat Ranjan Mahto	Lecturer	Bond Graph modeling & Design of Mechanical System	Ph.D. (Pursuing)	13.10.2014

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/

Sr. No.	Name	Designation	Subjects Taught	Affiliation (Regular/ Previous)
1	Mr. Pratyush Sinha	Research Scholar, Department of Management	1. Technical English 2. Total Quality Management	Previous
2	Dr. Divya Mahendru	Visiting Faculty	Mathematics	Previous
3	Mr. Manish Kumar	Research Scholar, Department of Electrical Engineering	Fundamentals of Electrical & Electronic Engineering	Previous

6.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1	Prof. Vijaya Laxmi	Director, University Polytechnic, BIT Mesra (Ex-Officio)	Chairman
2	Dr. Sanjay Kumar	Associate Professor & Head, Department of Electronics & Communication Engineering, BIT Mesra (Ex-Officio)	External Member
3	Dr. Somnath Sengupta	Assistant Professor, Department of Electronics & Communication Engineering, BIT Mesra	External Member
4	Dr. Sumana Kumari	Assistant Professor & Course Coordinator, Department of Electronics & Communication Engineering, University Polytechnic, BIT Mesra (Ex-Officio)	Internal Member

5	Mr. Surendra Kumar Mahto	Associate Lecturer & Course Coordinator, Department of Electrical & Electronics Engineering, University Polytechnic, BIT Mesra (Ex-Officio)	Internal Member
6	Dr. Md Maqbool Hosain	Lecturer, Department of Electronics & Communication Engineering, University Polytechnic, BIT Mesra	Internal Member
7	Mr. Ramnish Sinha	Assistant Professor, Department of Computer Engineering, University Polytechnic, BIT Mesra	Internal Member
8	Mr. Nitish Bhardwaj	Staff Software Engineer, ServiceNow, Hyderabad	External Member
9	Dr. S. Kumar	Assistant Professor, Department of Electronics & Communication Engineering, IIIT Ranchi	External Member
10	Mr. Chinmay Shankar Hariambey	Roll No. D062/22, Final Year Student, Department of ECE, University Polytechnic, BIT Mesra	Student Representative / Internal Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	10th International Yoga day		Mr. N. K. Singh	21.06.2025
2	ANVESHAN (Technical Fest)	Divya Jyoti, Pranjal Ojha	Dr. Satish Kumar	27.03. 2025
3	16th Annual Athletic Meet	Ms. Sulekha Kumari Mr. Shiva Kumar	Mr. N. K. Singh	06.02.2025 -07.02.2025
4	Inter Semester Cricket Tournament (Boys)	Ms. Sulekha Kumari Mr. Shiva Kumar	Mr. N. K. Singh	September 2024
5	Poetry Competition under ANTI-RAGGING AWARENESS CAMPAIGN		Dr. Sumana Kumari	16.08.2024
6	Slogan Writing Competition under ANTI-RAGGING AWARENESS CAMPAIGN		Dr. Sumana Kumari	16.08.2024
7	Panel Discussion: Topic: Emotional and Legal Aspects of RaggingunderANTI- RAGGING AWARENESS CAMPAIGN		Mr. Ramnish Sinha Dr. Sandhya Rani	14.08.2024
8	Essay Writing Competition- Topic: Ragging -A Menace under ANTI-RAGGING AWARENESS CAMPAIGN		Dr. Sumana Kumari	13.08.2024
9	Poster Making Competition under ANTI-RAGGING AWARENESS CAMPAIGN		Dr. Sumana Kumari	13.08.2024

10	Awareness March and Pledge Ceremony under ANTI-RAGGING AWARENESS CAMPAIGN		Dr. Sumana Kumari Mr. P.R. Mahto Mr. Manoj Kumar	12.08.2024
11	Inter semester Football Tournament	Ms. Sulekha Kumari Mr. Shiva Kumar	Mr. N. K. Singh	July 2024

7.2 Entrepreneurship / Startups

Sr. No.	Student Name	Funding Source	Title	Description
1	Manish Sharma Sangam Pandey			During the Platinum Jubilee Celebration held on 15th February 2025, coinciding with the visit of the Hon'ble President, the product "Smart Walking Stick" was showcased under the guidance of Dr. Anubha Singh. Designed specifically to support the elderly, including individuals with Alzheimer's, Parkinson's disease, as well as those who are visually impaired or physically challenged, the innovation earned 3rd position for display in the exhibition "Technological Excellence & Innovation @ BIT."

7.3 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Pranjal Ohja, Ronit	Got First Prize in Model competition on National Technology Day Celebration	IIC, BIT MESRA	07.05.2025	BIT MESRA
2	Pranjal Ojha, Divya Jyoti	Got Third Prize in the Poster Presentation on National Science Day Celebration	IIC, BIT MESRA	28.02.2025	BIT MESRA
3	Manish Sharma Sangam Pandey under the guidance of Dr. Anubha Singh	Won 3rd position for display in the exhibition "Technological Excellence & Innovation @ BIT."	BIT, Mesra	15.02.2025	BIT MESRA

7.4 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1	Manoj Kumar choudhary	Diploma in Computer Engineering		9.34
2	Anshuman Khalkho	Diploma in Automobile Engineering		7.34
3	Anand Mandal	Diploma in Electrical & Electronics Engineering		9.04
4	Vivek raj	Diploma in Electronics and Communication Engineering		8.09
5	Rishabh Ashutosh	Diploma in Mechanical Engineering		8.55

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1.	Mr. Shine Joe P	Sr. Manager- HR, MRF Limited, Chennai	Dr. Satish Kumar, Convener, Training & Placement Cell	11.02.2025	
2.	Mr. Pradeep Kumar Sharma	Sr. Manager-HR & Admin, Subros Limited, Noida	Dr. Satish Kumar, Convener, Training & Placement Cell	21-01-2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1.	Mr.SHYAM KRISHNA AHRI	Posted in LWE ITI hehal Ranchi Jharkhand. Designation:Training Officer	Diploma in Automobile Engg. Session -2002-05	
2.	Mr. Iseedor Kumar Tekra	Posted in ITI Kujra Lohardaga. Designation-Training Officer	Diploma in Automobile Engg. Session:2001-2004	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	University Polytechnic, BIT Mesra with EduRade	University Polytechnic, BIT Mesra has signed a strategic Memorandum of Understanding (MoU) with EduRade (Training Department of RC Hobitech Solutions Private Limited) under which six industry- oriented certificate courses will be launched in the field of drone technology.	2025-2032
2	University Polytechnic,BIT Mesra with Hyundai Motors India Ltd	Approx 15 Lakhs of Equipment	2024 to 2029

8.4 Industry Connect:

During the campus placement drive for the academic session, our students achieved remarkable success by securing a total of 265 job offers from renowned national and international companies. This achievement highlights the industry's growing confidence in the capabilities of our diploma holders.

Key recruiters and selections include:

- MRF, Chennai – 99 selections (highest number of offers)
- Subros Limited, Gurugram – 72 students selected
- Tata Motors EV, Ahmedabad – 49 students recruited
- Dana Ltd, Dhruhea – 13 students placed
- Heldex, Nasik – 12 job offers extended
- Dana Spicer, Satara – 5 selections
- Mahle Filter, Chakan (Pune) – 7 students placed
- First Solar (USA-based, Chennai operations) – 4 students selected
- HINDALCO (Aditya Birla Group), Muri – 4 students placed

It is noteworthy that several students received multiple job offers, reflecting both their competence and the positive perception of industry stakeholders toward our academic and training standards. This highly successful placement season stands as a testament to the academic rigor, industry-focused training, and the dedicated efforts of our faculty and placement coordination team.

In addition to the placement outcomes:

- Over 330 students secured summer internships with prestigious organizations across India. These internships provide hands-on industrial exposure, helping students connect classroom learning with real-world applications.
- An industrial visit was organized to SNL Bearings Limited, Ratu, Ranchi for students from various engineering and diploma branches. The visit offered practical insights into industrial operations, including departments such as production, quality control, maintenance, and supply chain management, thereby enriching their understanding of real-time manufacturing and business processes.

SECTION 9 INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

New Laboratory Developments (2024–25)

During the academic year 2024–25, several advanced laboratories were established in the Electrical and Electronics Engineering (EEE) Department, including:

- Power System Lab
- Measuring Instruments Lab
- Fundamentals of Electrical and Electronics Engineering (FoEEE) Lab
- Electrical Machines Lab

Key equipment procured for the EEE department includes:

- Instrumentation Workbench
  - *Make:* Scientech Technologies Pvt. Ltd.
  - *Model:* SCIENTECH 2700
- Cathode Ray Oscilloscope (CRO)
  - *Make:* Scientech Technologies Pvt. Ltd.
  - *Model:* SCIENTECH 401

Additionally, the **Mechanical Lab–II** was equipped with:

- **Fatigue and Rockwell Tester** at a cost of ₹3,74,886/-

9.2 IT Infrastructure Upgrades

- Three UPS units (10 KVA each) were purchased on 29.06.2024 for uninterrupted power supply in the computer lab.
- Seven projectors were procured on 07.05.2024 to enhance digital teaching-learning processes.

9.3 Computer Availability for Student Use

A total of **166 computers** are currently available for the use of students across various departmental labs. The distribution is as follows:

- Computer Lab I: 62 systems
- Computer Lab II: 32 systems
- Computer Hardware and Networking Lab: 32 systems
- CAD Lab: 40 systems

SECTION 10		FUTURE PLANS (2025-26)

- Expansion of Academic Infrastructure:

  A new academic block is being planned to accommodate additional classrooms and state-of-the-art laboratories, aimed at enhancing the teaching-learning environment.

- Construction of New Hostels:

  Plans are underway for the construction of new hostel facilities to meet the growing residential needs of students.

- Introduction of New Academic Program:

  A proposal is in process to launch a **Diploma in Architecture** program, further broadening the academic offerings of the institution.

- Upgradation of Civil Engineering Department:

  The Department of Civil Engineering is set to receive several new laboratories to support advanced practical training and research initiatives.

BIT Mesra (Lalpur Unit)

SECTION 1 **DEPARTMENTAL PROFILE**

1.1 About the Department / Off-Campus:

With a vision to inspire young minds and professionals, BIT, Mesra, Lalpur, Ranchi, was started initially with part-time courses in 1998. Currently, Master of Business Administration (MBA), Master of Computer Application (MCA), Bachelor of Business Administration (BBA), Bachelor of Computer Application (BCA) programs, and Ph.D. in Computer Science & Engg. & in Management Studies are being offered by the institute.

1.2 About the Department of Computer Science & Engg.:

Vision:

The department of Computer Science, BIT Mesra, Lalpur strives relentlessly to develop and maintain its recognition as an institute of repute well known in the industry & academia for developing and nurturing professionals and innovators who can play a significant role in positively contributing to the society.

Mission:

1. To impart quality education in tune with the present times and also empower the students with a solid foundation to ensure that they develop as complete professionals who can handle challenges of the modern era with full confidence.
2. To maintain state of the art research facilities and facilitate interaction with world's leading Universities, Industries and research organization constant improvement in the quality of education and research.

About the Department of Management Studies:

Vision

To be recognized as a frontrunner in Management education in the country in consonance with the social, economic and ecological environment while striving to contribute to nation building through excellence in research and development activities

Mission

1. To educate students at Postgraduate and Doctoral level to perform challenging managerial jobs in the Industry as a leader and achieve excellence as Entrepreneurs and Researchers.
2. To provide excellent research and development facilities for faculty and students to undertake path breaking theoretical and applied research.
3. To build National capabilities in Management education and Research in emerging areas.
4. To uphold the values of personal integrity and social Responsibility in all our Decisions.

1.3 Key Achievements

Student Achievements:

Course	Highest Package	Name of the Company	Name of the Student
MBA	15,12500	Accenture India	Guruvendra Singh
BBA	410000	Niva Bupa	Kriti Singh Khushi Mishra
MCA	750000	TechMahindra	Misha Agrawal
BCA	300000	Sap Labs	Drishti Bhatt Pallavi Sinha

Overall Centre Achievement:

The Centre has made significant infrastructural and technological advancements to enhance operational efficiency, safety, and user convenience. Key achievements include:

- A new 11 kV transformer and metering unit has been installed with an increased load capacity from 100 kVA to 125 kVA ensuring reliable and uninterrupted power supply.
- A dedicated CTPT room has been established and all UPS connections has centralised for improved power backup management.
- An alternative leased line internet connection of 100 Mbps has been installed to ensure network redundancy and uninterrupted access.

- Installation of A lightning arrester has been installed to safeguard equipment and infrastructure from electrical surges.
- ID card printing machine has been procured for efficient on-site ID card generation.
- Two new LCD projectors has been fixed in classrooms to support interactive and effective teaching methods, which upgraded into well-equipped audio visual infrastructure to all the class rooms.
- Addition of a new rack server has been added to boost computing performance and data management.
- Air-condition installed in all the leftover classrooms to provide a comfortable and conducive learning atmosphere.
- A new water sump of 25000 litres has been built in the campus to overcome the shortage of water

Faculty Achievement:

Books

Sr. No	Author(s)	Title of Book or Book Chapters	Publisher	ISBN
1	Digital Marketing (2024)	Digital Marketing	Taran Publications, New Delhi.	978-81-979267-3-0
2	Quantum Computing (2024)	Introductory Quantum Computing		
3	Modern Deep Learning Theory and Practice	Modern Deep Learning Theory and Practice	Expert Notes Publisher, karnal,(Haryana)	978-93-49922-01-3
4	Digital Marketing (2024)	Digital Marketing	Taran Publications, New Delhi.	978-81-979267-3-0
5	P. Paul	Introduction to AI(Artificial Intelligence),ML(Machine language) and Data Science	Scientific International Publishing House	978-93-6674-323-3

Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr Juman Iqbal	Best Paper in Track Award at the International Conference on Evidence-Based Management (ICEBM) hosted by Department of Management, BITS Pilani, Pilani campus.			
2	Dr. Kuntal Mukherjee	Resource speaker			
3	Dr. Kuntal Mukherjee	Reviewer of IEEE ACCESS Journals			
4	Dr.P.Paul	Dr.Sarvepalli Radha krishnan outstanding Asst. Professor award	International Multidisciplinary Research Foundation (IMRF)	National	
5	Dr.P.Paul	Academic Excellence Award	Scientific International Publishing House	National	

6	Dr.P.Paul	Outstanding Research in Optical Network	VENUS International Foundation	International	

Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Binod Kumar Sharma, Vijay Kumar Yadav	Prediction of Stock Price Using Statistical and Ensemble Learning Models,	Patent application no. 202431040228 A.	2024	Applied	The prediction of stock price is a crucial aspect of financial analysis and decision making. Statistical and ensemble learning models have been widely used for predicting stock prices due to their ability to handle complex and noisy data.
2	Dr.UPENDRA KUMAR, DEEPAK KUMAR MISHRA	A Research To Study Concerns Regarding Security Of Cloud Computing	Patent Application No. 202431040298 A	2024	Applied	The aim of this research is to explore and analyze the potential security risks and vulnerabilities associated with cloud computing, including issues related to data confidentiality, integrity, and availability.
3	Vijaya lakshmi Chintapalli, Siva Surya Narayana Chintapalli	Ai-Based Early Detection Device For Cardiovasculer Health	438232-001	03-02-25	applied	Design Registered to identify cardiovascular health
4	Siva Surya Narayana Chintapalli Etc...	Automated Diagnosis Of Respiratory Disease From Medical Imaging Using Deep Learning	446321-001	15-5-2025	applied	Design Registered to diagnosis of reposetory diseases using deep learning method
5	Dr.P.Paul	IoT based Li-Ion Battery Monitoring Device for EV(Electric Vehicle)	Patent Application No: 427593-001	20-08-2024	Granted	To enhance the efficiency and safety of electric Vehicles(EVs) by providing real-time monitoring of battery parameters using IoT tech. System aims to address the critical issues of battery health, performance and safety by ensuring continuous tracking of key battery indicators. The device allows for early detection of battery degradation,overcharging and overheating improve the battery life.

6	Dr.P.Paul	Sanskrit Language Translating Device	Patent Application No:382324-001	18-01-2024	Granted	Developed App to translate Hindi to Sanskrit

Overall Department Achievement:

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	MBA	2 Years	100	Inclusion of list of Electives According to market needs
2	MCA	2 Year	120	To fill gap between industry & Academic
3	BBA	4 Years	200	Periodic revision of Syllabus
4	BCA	4 Years	200	

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Preeti Aagneya, (PHD/MB/10005/2017)	Exploring the Determinants of Effective Retention Strategies for Knowledge Workers in India"	Dr. Soumitro Chakravarty and Dr. Umesh Prasad	06.03.2025
2	Pooja Yadav (PHD/MB/10012/17)	Impact of Employee Engagement on Job Satisfaction and Turnover Intention	Dr. Abhaya Ranjan Srivastava	25/02/2025
3	Kahkashan Kouser (PhD/CS/10052/2014)	Study of Genetic Algorithm and its Application in Data Mining	Dr. Amrita Priyam	22.10.2024
4	Puja Kumari PhD/MB/10053/16	Title of thesis- "E-recruitment Through Social Media Considering Employer Branding Framework"	Dr. Mili Dutta	01st October 2024
5	Mrs Daisy Rani Prasad PHD/MB/10006/17	Role of Public Sector in Promoting CSR In Jharkhand with special focus on Skill Development Initiatives of Central Coalfields Limited	Dr. Mili Dutta	June, 2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Deep Learning models for Depression Detection among young adults.	PI	BIT Mesra and Seed Money Scheme	01st July, 2024	Rs.4000/-	02 Years (Ongoing)

(b) CSR Funded Project

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)

1	Predicting Sustainable Urban Traffic Threshold Level and Carleen Footprint Analysis Using AI for Greener Future	Asha & Sajjan Agarwal Foundation	02nd July, 2025-	Rs.1471800/-	PI	Ongoing

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	Five Day Workshop on Deep learning models for assessment of mental wellness amongst young adults	Dr. Amrita Sarkar	BIT Mesra under Seed Money Scheme	27th to 31st January 2025	Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	A R Srivastava (As Discussants)	23rd IASSI Annual Conference	Indian Association of Social Science Institutions	Indian Association of Social Science Institutions	BIT Mesra	25/10/2024 to 26/10/2024
2	A R Srivastava (As Session Chairperson)	2-Days International Conference on the theme "Navigating the Global Landscape: Embracing Sustainable Strategies in Business and Economy 2.0"	ARKA Jain University	ARKA Jain University	ARKA Jain University, Jamshedpur, Jharkhand	26/06/2025
3	Dr.Mili Dutta(Rapporteur)	23rd IASSI Annual Conference				
4	Dr.Mili Dutta (HR Session Chairperson)	International Conference on "Navigating the Global Landscape: Embracing Sustainable Strategies in Business and economy 2.0"				To be held on October, 2025
5	Sujata Banerjee (Reviewer for ICGS)	International Corporate Governance Society's Conference 2025	ICGS 2025 Manchester,UK			
6	Sujata Banerjee (Reviewer for Springer)	Served as a peer reviewer for two journal publications by Springer in 2025	Springer Nature			June, 2025
7	Sujata Banerjee	one day faculty development workshop on “Know yourself as a teacher”	BIT Mesra	BIT Mesra	BIT Mesra	23/4/25

8	Dr.Sandeep Nath Sahdeo	five days National FDP on Research structuring and publication process	National Foundation for entrepreneurship development (NFED), Coimbatore, Tamil Nadu.	N F E D . Tamilnadu	NFED. Tamilnadu	23/6/2025 to 27/6/2025.
9	Dr.Sandeep Nath Sahdeo	one day faculty development workshop on "Know yourself as a teacher"	BIT Mesra	BIT Mesra	BIT Mesra	23/4/2025
10	Dr.Sandeep Nath Sahdeo	Five days FDP on "Data Analysis using open access software-JASP & JAMOVI,	Dhamma Dipa International Buddhist University (DDIBU), Tripura	DDIBU,Tripura	DDIBU,Tripura	15/11/2024 t o 19/11/2024
11	Dr.Sandeep Nath Sahdeo	one week FDP on Research Methodology and data analysis using statistical tools	Amity business school	Amity business school	Amity business school	10/6/24 to 14/6/24
12	Dr.Sandee p Nath Sahdeo	One day faculty development workshop on "Know yourself as a teacher"				
13	Dr. Binod Kumar Sharma	Recent Trends in Applied Mathematics for Engineering & Technology	AMITY UNIVERSITY MADHYA PRADESH, GWALIOR	Institutions innovation council, (Ministry of HRD initiative)	Online	August 05-07, 2024
14	Dr. Devesh Kumar Upadhyay	One-day Workshop on "Awareness of Trends in Technology (ATT)				
15	Dr. Devesh Kumar Upadhyay	Five-Day Workshop on "Deep Learning Models for Assessment of Mental Wellness Amongst Young Adults" (DLMW 2025)				
16	Dr Juman iqbal	Contributed as a resource person in FDP "Advanced Pathways in Structural Equation Modelling: Mastering Mediation, Moderation, and Moderated Mediation"conducted by the Faculty of Management, Sir Padampat Singhania University, Udaipur, Rajasthan.				

17	Dr Juman iqbal	Presented a paper in International Conference on Evidence-Based Management (ICEBM) organised by BITS Pilani and was honoured with Best paper in Track				
18	Dr JUMAN IQBAL	Attended a 7 Day FDP on Pedagogical Advancement in New Age HR organised by BIMTECH, Greater Noida				
19	Dr. Devesh Kumar Upadhyay	Center for Research & Training, National foundation for Entrepreneurship Development (NFED) Coimbatore, Tamil Nadu organised Five day Faculty Development Programme (23 -27 June 2025)				
20	Dr. Devesh Kumar Upadhyay	Attended a Five-Day Workshop on "Deep Learning Models for Assessment of Mental Wellness Amongst Young Adults" (DLMW 2025) held from January 27–31, 2025, at BIT Mesra (Lalpur Unit).	BIT Mesra, Lalpur Unit			
21	Dr. Devesh Kumar Upadhyay	five days National FDP on Research structuring and publication process	National Foundation for entrepreneurship development (NFED), Coimbatore, Tamil Nadu.	N F E D . Tamilnadu	NFED. Tamilnadu	23/6/2025 to 27/6/2025.
22	Dr. Devesh Kumar Upadhyay	five days National FDP on Research structuring and publication process	National Foundation for entrepreneurship development (NFED), Coimbatore, Tamil Nadu.	N F E D . Tamilnadu	NFED. Tamilnadu	23/6/2025 to 27/6/2025.
23	Dr. Devesh Kumar Upadhyay	one day faculty development workshop on "Know yourself as a teacher"	BIT Mesra	BIT Mesra	BIT Mesra	23/4/25

24	Dr. Devesh Kumar Upadhyay	Five-Day Workshop on “Deep Learning Models for Assessment of Mental Wellness Amongst Young Adults” (DLMW 2025)		BIT, MESRA, LALPUR	BIT, MESRA, LALPUR	January 27–31, 2025,
25	Dr. Devesh Kumar Upadhyay	2nd International conference on 6G Communications Networking and Signal Processing(SGCNSP)	saranabasva university, kalaburagi,	KARNATAKA	Karnataka	12-13 july 2024
26	Dr. Devesh Kumar Upadhyay	2nd International conference on 6G Communications Networking and Signal Processing(SGCNSP)	saranabasva university, kalaburagi,	KARNATAKA	Karnataka	12-13 July 2024
27	Dr. Devesh Kumar Upadhyay	International conference on wireless communication and Internet of everything (ICWCIE-2024)	sri siddhartha institute of Technology, Tumakuru	Karnataka	Karnataka	21-22 June 2024
28	AnupmaSahai (Rapporteur)	23rd IASSI Annual Conference	Indian Association of Social Science Institutions and BIT Mesra			
29	Dr. Mahua Banerjee	One Day faculty development workshop on “Know yourself as a teacher”				
30	Dr. Mahua Banerjee	Six Day faculty Development Program on "Data Analytics using AI"				
31	Dr Aparna Shukla	Five-Day Workshop on "Deep Learning models for Assessment of Mental Wellness amongst Young Adults" (DLMW 2025)-Participated				
32	Dr. Amrita Sarkar	Organized as Convener Five Day Workshop on ‘Deep learning models for assessment of mental wellness amongst young adults’ (DLMW 2025)	Department of CSE, Birla Institute of Technology, Mesra (Lalpur Unit).	Birla Institute of Technology, Mesra	Birla Institute of Technology, Mesra (Lalpur Unit)	27th to 31st January 2025

33	Dr. Amrita Sarkar	Attended One week Workshop on 'National Workshop on Natural Language Processing for Conversational AI' on 9th to 13th December 2024 at organized by	Dept. of CSE, BIT Mesra	Sponsored by JCSTI Govt. of Jharkhand	Birla Institute of Technology, Mesra	9th to 13th December 2024
34	JAYA PAL	Five-Day Workshop on "Deep Learning models for Assessment of Mental Wellness amongst Young Adults" (DLMW 2025)-Participated	CSE Department, BIT Mesra, (Lalpur Unit)	BIT, Mesra	BI T, Mesra (Lalpur Unit)	27-31January, 2025
35	JAYA PAL	Five days National FDP on Research structuring and publication process-Participated	Centre of Research & Training (CRT) National Foundation for Entrepreneurship Development (NFED) Coimbatore, Tamil Nadu	NFED, Coimbatore, Tamil Nadu	Online	23-27 June,2025
36	Dr. Siba Mitra	Participated in Five Days Workshop on 'Deep learning Models for Assessment of Mental Wellness amongst Young Adults' (DLMW 2025)	CSE Department, BIT Mesra, (Lalpur Unit)	BIT, Mesra	BIT, Mesra (Lalpur Unit)	27th Jan to 31st Jan 2025
37	Dr. Siba Mitra	Participated in Five -Day National Faculty Development Program on Research Structuring & Publication Process	Centre of Research & Training (CRT) National Foundation for Entrepreneurship Development (NFED)	Centre of Research & Training (CRT) National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	Online	23rd June to 27th June 2025
38	Dr. Mansi Gupta	Organized as Joint Organizing Secretary Five Day Workshop on 'Deep learning models for assessment of mental wellness amongst young adults' (DLMW 2025) (Jan 27th –31st , 2025)	Department of CSE, Birla Institute of Technology, Mesra (Lalpur Unit).			

39	Dr. Mansi Gupta	Participated in One week Workshop on 'National Workshop on Natural Language Processing for Conversational AI' on 9th to 13th December 2024	Department of CSE, Birla Institute of Technology, Mesra			
40	Dr. Mansi Gupta	Participated in 5-day National FDP on "Research Structuring & Publication Process" (23rd -27th June' 2025)	Centre of Research & Training (CRT) National Foundation for Entrepreneurship Development (NFED)			
41	Dr. Mansi Gupta	Participated in - One day faculty development workshop on "Know yourself as a teacher" (April 23,2025)	Birla Institute of Technology, Mesra			
42	Onima Tigga	Five-Day Workshop on "Deep Learning models for Assessment of Mental Wellness amongst Young Adults"(DLMW 2025)-Participated	CSE Department, BIT Mesra, (Lalpur Unit)	Birla Institute of Technology, Mesra	Birla Institute of Technology, Mesra (Lalpur Unit)	27th to 31st January 2025
43	Dr. Amar Kumar	Participated in Five-Day Online International Faculty Development Programme (FDP) on "Research Advancements and Applications of Quantum Computing"	Organized by the Department of Computer Science and Engineering (Emerging Technologies)	Online		26th May 2025 – 30th May 2025
44	Dr. Amrita Priyam	Participated in six daysFaculty Development Program on Data Analytics using AI from 09-06-2025 to 16-06-2025 ,organized by E & ICT Academy, IIT Kanpur				
45	Dr.P.Paul	FDP Program on" Research Structuring & Publication Process	Organized by National Foundation for Entrepreneurship Development (NFED), Coimbatore, TN.		Coimbatore, TN	23.6.25 to 27.6.25

46	Dr.P.Paul	FDP cum Short Term Course (IEEE) UP, Section," Current Advancements in Electric and Hybrid Vehicle Technology Opportunities and Challenges	Amity University		Lucknow,UP	26.5.25 to 2.6.25
47	Dr. P.Paul	FDP Program on "Emerging Trends in MEMS and Memory Devices for Next-Gen Electronics	Vellore Institute of Technology		Chennai	28.4.25 to 2.5.25
48	Dr. P.Paul	FDP Program on "Quantum Communication and AI/ ML	Organized by NIT, Patna, under scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II) by Ministry of Electronics & Information Technology (MeitY).		NIT, Patna	7.3.25 to 11.3 25

SECTION 4		RESEARCH PUBLICATIONS

4.5 Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	44	16	5	8

Publication Data

SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr Juman Iqbal	Best Paper in Track Award at the International Conference on Evidence-Based Management (ICEBM) hosted by Department of Management, BITS Pilani, Pilani campus.			
2	Dr. Kuntal Mukherjee	Resource speaker			
3	Dr. Kuntal Mukherjee	Reviewer of IEEE ACCESS Journals			
4	Dr.P.Paul	Dr.Sarvepalli Radha krishnan outstanding Asst. Professor award	International Multidisciplinary Research Foundation (IMRF)	National	
5	Dr.P.Paul	Academic Excellence Award	Scientific International Publishing House	National	
6	Dr.P.Paul	Outstanding Research in Optical Network	VENUS International Foundation	International	

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Binod Kumar Sharma, Vijay Kumar Yadav	Prediction of Stock Price Using Statistical and Ensemble Learning Models,	Patent application no. 202431040228 A.	2024	Applied	The prediction of stock price is a crucial aspect of financial analysis and decision making. Statistical and ensemble learning models have been widely used for predicting stock prices due to their ability to handle complex and noisy data.
2	Dr. UPENDRA KUMAR, DEEPAK KUMAR MISHRA	A Research To Study Concerns Regarding Security Of Cloud Computing	Patent Application No.202431040298 A	2024	Applied	The aim of this research is to explore and analyze the potential security risks and vulnerabilities associated with cloud computing, including issues related to data confidentiality, integrity, and availability.
3	Vijaya lakshmi Chintapalli, Siva Surya Narayana Chintapalli	Ai-Based Early Detection Device For Cardiovasculer Health	438232-001	03-02-25	applied	Design Registered to identify cardiovascular health

4	Siva Surya Narayana Chintapalli Etc...	Automated Diagnosis Of Respiratory Disease From Medical Imaging Using Deep Learning	446321-001	15-5-2025	applied	Design Registered to diagnosis of reposetory diseases using deep learning method
5	Dr.P.Paul	IoT based Li-Ion Battery Monitoring Device for EV(Electric Vehicle)	Patent Application No: 427593-001	20-08-2024	Granted	To enhance the efficiency and safety of electric Vehicles(EVs) by providing real-time monitoring of battery parameters using IoT tech. System aims to address the critical issues of battery health, performance and safety by ensuring continuous tracking of key battery indicators. The device allows for early detection of battery degradation,overcharging and overheating improve the battery life.
6	Dr.P.Paul	Sanskrit Language Translating Device	Patent Application No:382324-001	18-01-2024	Granted	Developed App to translate Hindi to Sanskrit

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr.Pranab Kumar	Professor	Human Resource Management & Industrial Relations	Ph.D.	11/07/2003
2	Dr. Ganesh Prasad Mishra	Professor	Leadership	Ph.D.	05/12/2005
3	Dr. (Mrs.) S. Mukhopadhyaya	Associate Professor		Ph.D.	13/09/2006
4	Dr. (Mrs.) Amrita Priyam	Associate Professor		Ph.D.	01/07/2002
5	Dr.Abhaya Ranjan Srivastava	Associate Professor	Digital Marketing, Social Media Marketing, Retailing, Employee Engagement, Handicrafts	Ph.D.	06/01/2003
6	Mrs. Onima Tigga	Assistant Professor		MCA, M.Tech, Ph.D. Pursuing	07/07/1999

7	Dr. Arun Kumar Singh	Assistant Professor	Optimization, Operations Management, Data Analysis, Research methodology, Finance	Ph.D.	01/07/2004
8	Dr.N.K.Singh	Assistant Professor		Ph.D.	01/08/2001
9	Dr. Amar Kumar	Assistant Professor		Ph.D.	03/04/2001
10	Dr. Sanjay Kumar	Assistant Professor		Ph.D.	12/09/2002
11	Dr.N.P.Tiwary	Assistant Professor		Ph.D.	11/02/2004
12	Dr.Kuntal Mukherjee	Assistant Professor		Ph.D.	01/07/2004
13	Dr.Sandeep Nath Sahdeo	Assistant Professor	Marketing	Ph.D.	01/07/2004
14	Ms.Anupma Sahai	Assistant Professor	Organizational Behaviour & Human Resource Management	MBA	01/07/2004
15	Dr.Parth Sarathi Bishnu	Assistant Professor		Ph.D.	01/07/2004
16	Dr.Somnath Mukherjee	Assistant Professor	Marketing (Marketing communication & Brand Management)	Ph.D.	01/07/2004
17	Dr.Binod Kumar Sharma	Assistant Professor		Ph.D.	01/02/2005
18	Dr.(Ms.) Jaya Pal	Assistant Professor		Ph.D.	08/08/2005
19	Dr.Ashutosh Mishra	Assistant Professor	Economics & General Management	Ph.D.	04/09/2006
20	Dr.Syed Anis Haider	Assistant Professor	Industrial Psychology, Organizational Behavior, HRM	Ph.D.	19/09/2006
21	Dr.(Mrs.) Mili Dutta	Assistant Professor	Employer Branding , Talent Aquisition and neuromarketing	Ph.D.	03/04/2007
22	Mr.Amitabh Chandan	Assistant Professor	Human Resource Management	MBA	03/04/2007
23	Dr.Jaleshwar Bhagat	Assistant Professor	Account , Finance	Ph.D.	05/01/2001
24	Dr.Umesh Prasad	Assistant Professor		Ph.D.	04/12/2001
25	Dr.Soumitro Chakravorty	Assistant Professor	Business Research, Multidisciplinary Studies, General Management, IT	Ph.D.	01/12/2005
26	Dr.Avinash Kumar Sinha	Assistant Professor	Finance and Accounts	Ph.D.	01/09/2006
27	Dr.Satrajeet Choudhury	Assistant Professor	Marketing,Developmental Studies, Welfare Economics, Entrepreneurship and Interdisciplinary Research	Ph.D.	01/09/2006
28	Dr.Pradeep Munda	Assistant Professor	Finance and Accounts	Ph.D.	01/11/2005
29	Dr. (Mrs.) Siba Mitra	Assistant Professor		Ph.D.	17/07/2007
30	Dr. T.K.Banerjee	Assistant Professor	Optimisation, Decision Science, Data Analytics, Coal Mine Management	Ph.D.	10/03/2003

31	Dr. Prashant Kumar Singh	Assistant Professor	Marketing, Banking, Multivariate Data Analysis, Technolgy Acceptance,	Ph.D.	07/07/2009
32	Dr. S.S.N.Chintapalli	Assistant Professor		Ph.D.	09/08/1999
33	Dr. Amrita Sarkar	Assistant Professor		Ph.D.	14/03/2023
34	Dr. (Mrs.) Aparna Shukla	Assistant Professor		Ph.D.	12/08/2009
35	Dr. Parth Paul	V. Asst. Professor		Ph.D.	01/04/2024
36	Dr. Mansi Gupta	Assistant Professor		Ph.D.	04/11/2024
37	Dr. Vandana Kumari	Assistant Professor		Ph.D.	24/10/2024
38	Dr. Juman Iqbal	Assistant Professor		Ph.D.	02/12/2024
39	Dr. Nand Kumar Jyotish	Assistant Professor		Ph.D.	12/12/2024
40	Dr.Shalini Kumari	Assistant Professor		Ph.D.	13/12/2024
41	Dr. Sujata Banerjee	Assistant Professor		Ph.D.	25/11/2024
42	Dr. Arya S.	Assistant Professor		Ph.D.	02/01/2025
43	Dr. Mayank Parashar	Assistant Professor		Ph.D.	13/01/2025
44	Mr.D.K.Mishra	Associate Lecturer		M.Sc., M.Tech.	01/02/2005
45	Mr. Hareshwar Prasad	Assistant Professor		M.Tech, Ph.D. Pursuing	01/01/2009
46	Mr. Khalid Ashraf	Assistant Professor		M.Tech, MCA, Ph.D. Pursuing	21/09/2000
47	Dr. Susmita Palmal	Assistant Professor		Ph.D.	25/02/2025

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Dr. Mahua Banerjee	Visiting Asst. Professor	Ph.D (Consolidated)
2.	Mr. Shubhojeet Paul	Visiting Asst. Professor	MCA (Consolidated)
3.	Mrs.Mamata Pandey	Visiting Asst. Professor	M.Tech (Consolidated)
4.	Dr. D.K. Upadhayay	Visiting Asst. Professor	Ph.D (Consolidated)
5.	Mr. Dhananjay Kumar	Visiting Asst. Professor	M.Tech (Consolidated)
6.	Mr. Abhishek Kumar	Visiting Asst. Professor	MCA (Consolidated)

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (if any)	Faculty Coordinator (if any)	Date / Duration
1	International Yoga Day	-	-	21.06.2025 (2 hours)
2	Environment Day	-	-	05.06.2025 (2 hours)
3	War of Glory	Drishti Bhatt	Dr. P.S Bishnu & Dr. Amrita Sarkar	16.04.2025 (3.5 hours)
4	People's Parliament	Ayushi Singh & Anushka Sinha	Dr. Prashant Kumar Singh & Dr. G.P Mishra	15.04.2025 (3 hours)
5	Fail and Forward	Jyotika Gupta& Krish Sandil	Dr. Prashant Kumar Singh & Dr. G.P Mishra	11.04.2025 (4 hours)

6	CSR Synapse	Shanvi Tripathy & Muskan Shukla	Dr. Pradeep Munda and Dr. Soumitro Chakravarty	28.03.2025 (3.5 hours)
7	The Business Verdict	Mahi Prashar & Ujjwal Kumar	Dr. Pradeep Munda and Dr. Soumitro Chakravarty	28.03.2025 (3.5 hours)
8	Squid Game (Aurora'25)	Aditya Mishra	Dr. P.S Bishnu & Dr. Amrita Sarkar	21.02.2024 (4 hours)
9	Cipher Surfers (Aurora'25)	Vedika Agarwal& Sumeet Pathak	Dr. Prashant Kumar Singh & Dr. G.P Mishra	21.02.2025 (3 hours)
10	Phir Hera Pheri (Aurora'25)	Ajla Iqbal & Shivam Kumar	Dr. Prashant Kumar Singh & Dr. G.P Mishra	21.02.2025 (2.5 hours)
11	Step Se Taal Tak (Aurora'25)	Astha Agarwal, Arya Singhal & Arpita Garai	Dr. Amrita Priyam & Dr. Mahua Banerjee	21.02.2025 (2 hours)
12	BIZ-IQ (Aurora'25)	Mahi Prashar & Siddhant Anand	Dr. Pradeep Munda and Dr. Soumitro Chakravarty	21.02.2025 (5 hours)
13	Make In India (Aurora'25)	Nihal Verma & Kumar Pushkar	Dr. Pradeep Munda and Dr. Prashant Kumar Singh	20.02.2025 - 21.02.2025
14	Chase Clash (Kho-Kho)	Sneha Kumari & Sumit Sinha	Dr. S.N. Sahdeo	20.02.2025 - 21.02.2025
15	Room Zero (Aurora'25)	Aditya Mishra	Dr. P.S Bishnu & Dr.Amrita Sarkar	20.02.2024 (5 hours)
16	Syntax Odyssey (Aurora'25)	Aditya Mishra	Dr. P.S Bishnu & Dr. Amrita Sarkar	20.02.2024 (4 hours)
17	BIT Got Talent (Aurora'25)	Aravind K., Pranjal Raj & Ayush Kumar	Dr. Amrita Priyam & Dr. Mahua Banerjee	20.02.2025 (2 hours)
18	Kalascape (Aurora'25)	Angel Harshit Nagduar, Ananya Sahay & Ishika Mishra	Dr. Amrita Priyam & Dr. Mahua Banerjee	20.02.2025 (1.5 hours)
19	MarkNova (Aurora'25)	Arpita Kriti & Ayushi Kumari	Dr. Pradeep Munda and Dr. Soumitro Chakravarty	20.02.2025 (5 hours)
20	Battle of Raiders (Kabaddi)	Rounak Kumar & Khushboo	Dr. S.N. Sahdeo	18.02.2025 - 19.02.2025
21	Rope Rumble (Tug Of War)	Anish Sharma	Dr. S.N. Sahdeo	17.02.2025 - 18.02.2025
22	NIVA BUPA Placement Drive	Nihal Verma	Dr. Ashutosh Mishra	06.02.2025 (8 hours)
23	Doordarshan Documentary Shoot	Ashish Kumar Jha & Isha Raj	Dr. Ashutosh Mishra	06.02.2025 (1 hour)
24	Poster Designing Competition (Sustainability and Climate Change)	Mahi Prashar	Dr. Ashutosh Mishra	06.02.2025 (2 hours)
25	Saraswati Puja Celebration	Aravind K. & Suruchi Singh	Dr. Amrita Priyam & Dr. Mahua Banerjee	03.02.2025 (8.5 hours)

26	Annual Athletic Meet	-	Dr. S.N. Sahdeo	29.01.2025 - 31.01.2025
27	Speak Fest	Hritika Joshi	Dr. S.N. Sahdeo	28.01.2025 (1.5 hours)
28	Republic Day Celebration	Hritika Joshi	Dr. S.N. Sahdeo	26.01.2025 (2.5 hours)
29	Industrial Visit (MBA Students)	Aishwarya Verma & Abhishek Kumar	Dr. Ashutosh Mishra	24.01.2025 (12.5 hours)
30	Workshop on Communication Skills and Group Discussion : Swapna Sanchita	-	Dr. Ashutosh Mishra	23.01.2025 (1.25 hours)
31	Interpersonal Skill Session	-	Dr. Ashutosh Mishra	21.01.2025 (10 Sessions)
32	Constitution Day Celebration	-	Dr. Ashutosh Mishra	26.11.2024 (2 hours)
33	Kartavya'24	Hritika Joshi	Dr. Syed Anis Haider & Dr. S.N. Sahdeo	18.10.2024 (3 hours)
34	Cipher Surfers	Ajla Iqbal	Dr. Prashant Kumar Singh & Dr. G.P Mishra	16.10.2024 (3 hours)
35	Graphic Gala	Isha Raj & Aravind K.	Dr. Amrita Priyam & Dr. Mahua Banerjee	15.10.2024 (1 hour)
36	Quick Wit	Suruchi Singh & Anusha	Dr. Amrita Priyam & Dr. Mahua Banerjee	15.10.2024 (1 hour)
37	The Last Secret	Aditya Mishra	Dr. P.S Bishnu & Dr. Amrita Sarkar	04.10.2024 (4 hours)
38	Quizzard	Guruvendra Singh	Dr. Abhaya Ranjan Srivastava	03.10.2024 - 04.10.2024 (5 hours)
39	Mock Group Discussion and CV Assesment	Abhishek Kumar	Dr. Ashutosh Mishra	24.09.2024 (1.5 hours)
40	Soft Skills Workshop	Kumari Smriti, Preeti Kumari & Prakriti Lal	Ms. Anupma Sahai	24.09.2024 (2 hours)
41	Hulladek : Recycling Waste Management Seminar	Rohit Kumar Sahu	Dr. Syed Anis Haider	19.09.2024 (1 hour)
42	Learning Essential Professional Skills	Aishwarya Verma	Dr. Ashutosh Mishra & Ms. Anupma Sahay	11.09.2024 (1.5 hours)
43	Mock Group Discussion	Aryan Raj	Dr. Ashutosh Mishra	10.09.2024 (1 hour)
44	EIS Talks	Shristi Anand & Kumar Pushkar	Dr. Prashant Kumar Singh & Dr. G.P Mishra	07.09.2024 (2 hours)
45	Workshop on HR Analytics	Kumari Smriti, Preeti Kumari & Prakriti Lal	Ms. Anupma Sahai	06.09.2024 (2 hours)
46	Unlocking LinkedIn	Mahi Prashar	Dr. Pradeep Munda & Dr. Swati Minz	27.08.2024 (2.5 hours)
47	Evolution'24	Aishwarya Verma & Abhishek Kumar	Ms. Anupma Sahai	25.08.2024 (1.5 hours)
48	Celebration of Independence Day	Hritika Joshi	Dr. S.N. Sahdeo	15.08.2024 (2.5 hours)

7.2 Students Toppers

Session: MO-2024

Sr. No.	Name	Course	Sem	Grade
1	Ayushi Sinha BBA/40018/24	BBA	I	9.83
	Satyam Kumar BBA/40503/23	BBA	III	9.70
	Kumar Pushkar BBA/40511/22	BBA	V	9.93
2	Vaishnavi Rani BCA/40124/24	BCA	I	9.93
	Utkarsh Agarwal BCA/40581/23	BCA	III	9.70
	Nikhil Kumar Choudhary BCA/40508/22	BCA	V	9.39
3	Nisha Minz MBA/40079/24	MBA	I	9.16
	Anupam Ghoshal MBA/40101/23	MBA	III	9.43
4	Satyam Kumar MCA/40019/24	MCA	I	8.71
	Nirvikar MCA/40012/23	MCA	III	9.36

Session: SP-2025

Sr. No.	Name	Course	Sem	Grade
1	Ayushi Sinha BBA/40018/24	BBA	II	9.85
	Shoubhaya Verma BBA/40009/24	BBA	II	9.85
	Satyam Kumar BBA/40503/23	BBA	IV	9.93
	Nihal Verma BBA/40568/22	BBA	VI	10.00
	Chesang Tamang BBA/40106/22	BBA	VI	10.00
	Pranjal Raj BBA/40550/22	BBA	VI	10.00
	Sheetal Raj BBA/40090/22	BBA	VI	10.00
2	Aditya Kishor BCA/40078/24	BCA	II	9.62
	Arindam Pal BCA/40002/24	BCA	II	9.62
	Aditi Gupta BCA/40059/23	BCA	IV	10.00
	Harsha Prasad BCA/40046/22	BCA	VI	9.61
3	Karina Tamang MBA/40024/24	MBA	II	9.60
	Anupam Ghoshal MBA/40101/23	MBA	IV	9.63
4	Sanjeevni Raj MCA/40047/24	MCA	II	8.94
	Himanshu Agrawal MCA/40046/24	MCA	II	8.81
	Nirvikar MCA/40012/23	MCA	IV	10.00
	Ayaan Ansari MCA/40031/23	MCA	IV	10.00

SECTION 8 OUTREACH ACTIVITIES

8.1 MoUs / Collaborations :

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Rajendra Institute of Medical Sciences, Ranchi	Research related to medical informatics. Conducting collaborative research with both medical practitioners and engineers in the medical field and computer science.	2024 (5 Years)

8.2 Industry Connect

Industrial Visit for MBA Students on 24/01/2025 to Plant V, Ramkrishna Forgings Limited, Kolabira, Saraikela Kharsawan

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

Institute Labs

The department has strengthened its computing infrastructure in the **Institute Labs** by purchasing the following machines to support teaching, research, and laboratory exercises:

Item	Quantity	Brand	Model/Processor
Server	01	DELL	HPE DL 320 Gen11 Rack Server
Desktop	02	HP	core i7

These upgrades will help enhance the learning and research capabilities in the labs.

9.2 IT Upgrades

The department has not made any new upgrades during the specified period (1st July 2024 - 30th June 2025).

However, the number of computers available for student use in the department remains at **354** as previously reported.

Additionally, the department has 2 **HP desktops with Core i7 processors**, which are specifically designated for research scholars, supporting their advanced research activities.

SECTION 10		FUTURE PLANS (2025-26)

To further enhance the facilities, safety and overall environment of the Centre, the following infrastructure development projects are planned for implementation in the upcoming period:

- Installation of concertina fencing with MS angles along the boundary wall to strengthen perimeter security.
- Provision and fixation of window grills for open spaces to enhance safety and security.
- Facility Expansion & Visitor Amenities
- Complete waterproofing of the terrace area (approx. 900 sqm) to prevent seepage and extend structural longevity.
- Development of parking areas for students and staff using paver tiles for durability and neat appearance and the Installation of parking bollards with chains for organized and secure vehicle management.
- Installation and Commissioning of a new bore-well with all necessary fittings and fixtures to ensure uninterrupted water supply.
- Construction of a paved pathway/road within the campus for smooth movement.
- Renovation and preservation of the heritage building to maintain its structural integrity and cultural value.

BIT Off-Campus Deoghar

SECTION 1		CAMPUS PROFILE

1.1 BIT Off Campus Deoghar

About the BIT Off Campus Deoghar:

Birla Institute of Technology Mesra – Off Campus Deoghar: A Premier Educational Hub

Established in 2007, the Birla Institute of Technology Mesra – Off Campus Deoghar, located in Jasidih, Deoghar, operates under a Public-Private Partnership (PPP) mode with the Government of Jharkhand. Spanning 25 acres of land, the campus is dedicated to fostering academic excellence and nurturing talent in the state.

Figure 1. BIT Off Campus Deoghar

Figure 2. Batch Photograph

Infrastructure and Facilities

Our state-of-the-art campus is equipped with cutting-edge instruments and software, providing students with a world-class learning experience. Our undergraduate engineering programs in Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), and Mechanical Engineering are supported by modern infrastructure. We also offer Bachelor of Business Administration (BBA) and Bachelor of Computer Applications (BCA) programs, launched in 2020. Furthermore, we're expanding our academic offerings with new courses, including B.Sc. (Hons.) in Artificial Intelligence & Machine Learning and B.Sc. (Hons.) in Mathematics & Computing, starting from the 2025-26 academic session.

The campus facilities include:

- Hostels for boys and girls with a capacity of 1000 students
- Staff Quarters
- Library with over 28,900 volumes
- Language Lab
- Gymnasium
- Health Center/Dispensary
- Sports Playground
- Entrepreneur Development Cell
- Training & Placement Cell
- ATM
- Canteen
- General Store

Academic Excellence

The institute has a strong focus on research activities, conferences, workshops, and seminars, which have established an enriched academic environment. Faculty members are actively engaged in research and publications, contributing to the institute's academic reputation.

Student Life and Development

Students at BIT Deoghar participate in extracurricular activities, including:

- Annual Sports Meet
- Annual Cultural and Technical Fests (UTTHAAN)
- Annual Library Fest (AURORA)

These events provide opportunities for students to develop their overall personality and grow as individuals. The NSS wing of the institute contributes to social causes, such as blood donation camps and literacy drives in nearby villages.

Industry Partnerships and Placements

The institute has established industry partnerships for internships, placements, and collaborative research. BIT Deoghar alumni have secured top positions in private companies, government organizations, and leading universities. B.Tech Batch 2021 has received more than 70% placement offers including Internship + PPO, Internship with FTE & FTE offers respectively.

Admissions

Campus admissions are as follows: AICTE approved 240 B.Tech seats (through JoSAA-CSAB), 40 BBA seats & 40 BCA seats per year.

1.2 Vision & Mission

- **Vision:**

- Empowering future tech leaders: Our mission is to be a world-class technical institution, delivering cutting-edge education and skilled talent that meets global industry demands.

- **Mission:**

- Equip students with industry-relevant skills for success in engineering and management.
- Foster faculty excellence through continuous skill development and research innovation.
- Provide technological support that bridges the academia-industry divide, serving the Santhal Parganas Region and contributing to societal growth.

1.3 Key Achievements:

- **Student Achievements:**

- Anurag Das (BTECH/60052/21) has been placed at Broadridge Financial Solutions Pvt. Ltd. with the highest package of Rs.10,00,000 per annum.
- Supriya Kashyap (BTECH/60052/21) has been placed at Broadridge Financial Solutions Pvt. Ltd. with the highest package of Rs.10,00,000 per annum.
- Md. Ali (BTECH/60008/21) has secured an All India Rank of 900 in GATE CSE and 1700 in GATE Data Science.
- Anne Ruth Mukharjee (BTECH/60103/19) from ECE Department Joined MBA HRM – XISS - Ranchi Jul 2024- June 2026.

- **Faculty Achievement:**

- Dr. Payal Bharadwaj & Dr. R. K. Sarkar received the best paper award for their papers “Vedic Computing: A Captivating Synergy between Vedic Mathematics and Computer Science” in 9th Online International Conference On “Ancient Mathematics & Science For Computing” (AMSCO 2k24)
- Dr. Sonal and Dr. P. K. Ojha have been awarded research grant under the Seed Money Scheme;
- Dr. Sonal has been the session chair during a two-day national seminar organized by NITTTR, Kolkata in 2025.
- Overall Campus Achievement : Two new courses introduced this academic year: B.Sc. (Hons.) in Mathematics & Computing and B.Sc. (Hons.) in Artificial Intelligence & Machine Learning.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1	B. Tech (Computer Science & Engg.)	4 years	90	Practical learning, Industry Exposure, Technical Skill Development, Research and Innovation
2	BCA (Bachelor of Computer Application)	4 years	40	Practical learning, Industry Exposure, Technical Skill Development, Research and Innovation
3	B.Sc.(Hons.) Artificial Intelligence & Machine Learning	4 years	40	Practical learning, Industry Exposure, Technical Skill Development, Research and Innovation
4	B.Sc (Hons.) Mathematics & Computing	4 Years	40	This program is an interdisciplinary course that combines mathematical expertise with computational skills.
5	B. Tech (Electronics and Communication Engineering)	4 years	60	B. Tech (Electronics and Communication Engineering)
6	B.Tech.(Electrical and Electronics Engineering)	4 years	60	Comprehensive Curriculum, Laboratory-Based Learning, Industry-Relevant Skills, Software Tools Exposure, Campus Recruitment Support, Internship and Industrial Training.
7	B.Tech (Mechanical Engineering)	4 years	30	The department equipped with latest equipment including wind tunnel, Kuka Robot, Stewart platform (parallel robot).
8	BBA (Bachelor of Business Administration)	4 Years	40	Industry oriented management skills

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Arijit Das	Investigation and Quality Enhancement of Degraded Tribal Artworks using Varied Image Processing Techniques	Co supervisor	24.04. 2025

SECTION 2 EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of Massive MIMO Digital Beam Forming Techniques with Quantum Computing [Order No. ISRO/ RAC-S/NITP/2024-25 Dated: 11 July 2024.]	Dr. Mainak Mukhopadhyay	CBPO, ISRO	11.07.2024	Rs. 21, 17,560/-	03 years
2	Technical feasibility analysis of dust and soiling impact on generation efficiency of floating photovoltaic system in opencast mining operations	Dr. Sonal (PI)	BIT Mesra (Seed Money Scheme)	20.08.2024	Rs. 4,21,000/-	2 years

3	Direction of Arrival and Localization System for Search and Rescue Applications [Order No. ISRO/ RES/4/711/23-24 Dated: 25 August 2023, for RES-URSC-2022-016]	Dr. Mainak Mukhopadhyay	RESPOND, ISRO.	25.08.2024	Rs.10, 19,280/-	02 years
4	Design and development of multilevel converter based multiport EV charging system	Dr. Piyush Kumar Ojha (PI)	BIT Mesra (Seed Money Scheme)	19.03.2025	Rs. 4,40,000/-	2 years

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1.	9th Online International Conference on Ancient Mathematics & Science for Computing(AMASCO2k24)	Prafulla Kumar Manoharan	NA	20.12.2024 & 21.12.2024	Online

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Soumya Ray	FDP on Research Structuring & Publication Process	CRT, National Foundation of Entrepreneurship Development (NFED)	Self-Sponsored	CRT, NFED (Online)	23.06.2025 – 27.06.2025
2	Dr. Sounak Paul	Short Term Programme on “Bharatiya Nyaya Sanhita”	Jadavpur University	UGC	Jadavpur University (Online)	18.09.2024 – 24.09.2024
3	Dr. Sounak Paul	NEP 2020 Orientation and Sensitization Programme	Jadavpur University	UGC-MMTTC	Jadavpur University (Online)	20.11.2024 – 29.11.2024
4	Dr. Sounak Paul	FDP on Fundamentals of Python Programming	E & ICT Academy, IIT Kanpur	E & ICT Academy, IIT Kanpur	E & ICT Academy, IIT Kanpur (Online)	02.06.2025 – 07.06.2025
5	Dr. Sounak Paul	FDP on Research Structuring & Publication Process	CRT, National Foundation of Entrepreneurship Development (NFED)	Self-Sponsored	CRT, NFED (Online)	23.06.2025 – 27.06.2025
6	Mr. Balaram Mandal	Participate FDP on “Methods for Improving Higher Education Teaching Quality Using Outcome Based Education, Pedagogical Approaches and NEP 2020(OBENEP24)”	Department of Computer Science and Engineering and Internal Quality Assurance Cell (IQAC), HIT Haldia	Self-Sponsored	(Online)	22.07.2024 – 26.07.2024

7	Mr. Balaram Mandal	Participate FDP on "Drone and IOT Technology for GIS and Smart Farmming Application".	Electronics and ICT Academy, NIT Patna and BIT Mesra PATNA Campus	Scheme of financial assistance for setting up of Electronics and ICT Academics (phase-II)" by the Ministry of Electronics and Information Technology (MeitY), Government of India	(Online)	02.06.2025 – 06.06.2025
8	Mr. Balaram Mandal	Participate FDP on "Human Robot Interaction and Assistive Technologies"	Electronics and ICT Academies at IIT Guwahati, IIT Kanpur, IIT Roorkee, MNIT Jaipur, NIT Patna and NIT Warangal, and PDPM IIITDM Jabalpur	Capacity Building and Skill Development Scheme" of the Ministry of Electronics and Information Technology (MeitY), Government of India	Online	09.06.2025 – 16.06.2025
9	Mr. Raja Ram Dutta Co - Coordinator	9th Online International Conference on Ancient Mathematics & Science for Computing(AMSCO2K24)	Jointly Organized by BIT Mesra,Off Campus Deoghar & AMSCO	AMSCO	BIT Mesra Off Campus Deoghar	20.12.2024 – 21.12.2024
10	Mr. Raja Ram Dutta (Attended)	Drone and IOT Technology for GIS and Smart Farming Application	BIT Patna	Self	BIT Patna	02.06.2025 – 06.06.2025
11	Mr. Raja Ram Dutta (Attended)	AI & ML Innovations for a Sustainable Future	Electronics & ICT Academy,IIT Roorkee	Self	KIIT Bhubaneswar	30.06.2025 – 06.07.2025
12	Dr. Pravas Ranjan Bal	Engineering Education & Excellence (CEEE) scheme for mentoring engineering teachers	INAE	INAE	IIT Kharagpur	16.06.2025 – 27.06.2025
13	Dr. Nishi Kant Kumar	Short-Term Training Program on "Generative AI and the Future of Work"	Reva University, Bangaluru, India.		Online	22.07.2024 – 26.07.2024

14	Dr. Nishi Kant Kumar	"Drone and IOT Technology for GIS and Smart Farming Applications"	Electronics and ICT Academy, NIT Patna and BIT Mesra Patna Campus under the "Schemeof financial assistance for setting up of Electronics and ICT Academies (Phase-II)" by the Ministry of Electronics and Information & Technology (MeitY), Government of India	Electronics & ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India & National Institute of Technology Patna	Online	02.06.2025 – 06.06.2025
15	Dr. R. K. Lal	Executive Development Program (EDP) titled "Building a Future Ready Semiconductor Ecosystem"	FDC, Vellore Institute of Technology, Chennai.	-	Vellore Institute of Technology, Chennai	23.06.2025 – 27.06.2025
16	Dr. R. K. Lal	AI & ML Innovations for a Sustainable Future	KIIT, Bhubaneswar in celebration with Electronics & ICT Academy IIT Roorkee (EICT IITR)	Ministry of Electronics and Information Technology,Govt. of India.	KIIT, Bhubaneswar	30.06.2025
17	Mr. Akhilesh Kumar Roy	Two weeks Faculty Development Program on "Semiconductor Devices Circuits & Sensor: Applications & Research Perspective"	Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with the National Institute of Technology Patna, India and the University of Valladolid	Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India	National Institute of Technology Patna, India	09.06.2025 - 20.06.2025
18	Mr. Vikash Sharma	AI & ML Innovations for a Sustainable Future	KIIT, Bhubaneswar in celebration with Electronics & ICT Academy IIT Roorkee (EICT IITR)	Ministry of Electronics and Information Technology,Govt. of India.	KIIT, Bhubaneswar	30.06.2025
19	Dr. Payal Bhardwaj	FDP on "Advanced Developments in AI: From Basics of AI to Generative AI, Explainable AI and Beyond"	EICT, IIT ROORKEE	BIT MESRA	BIT Mesra	23.09.2024 – 29.09.2024
20	Dr. Payal Bhardwaj	5- Days Workshop on " Scientific Writing Using LaTeX and Publication Ethics" (SWLPE-25)	BIT Mesra, Jaipur Campus	BIT MESRA	BIT Mesra, Jaipur Campus	17.03.2025 – 21.03.2025

21	Dr. Payal Bhardwaj	FDP on "Nanotechnology for Global Challenges: Bridging Science and Sustainability" (NanoGloSS)	BIT Mesra, Jaipur Campus	BIT MESRA	BIT Mesra, Jaipur Campus	17.06.2025 – 21.06.2025
22	Dr. Akash Kumar Gupta	Online Faculty Development Programme (FDP) on "Signal Processing Algorithms and Applications: Bridging IoT, AI, and Edge Computing"	Organized by the Electronics & ICT Academy (Hub), NIT Warangal, in association with E&ICT Academy (Spoke), NIT Raipur, and MIT Academy of Engineering, Pune	Electronics & ICT Academy (Hub), NIT Warangal	NIT Warangal	26.05.2025 – 04.06.2025
23	Dr. Sutapa Mondal	FDP on Advanced Developments in AI: From Basics of AI to Generative AI, Explainable AI, and Beyond	Electronics & ICT Academy & IIT Roorkee	Ministry of Electronics & Information Technology Government of India	BIT, Mesra,	23.09.2024 – 29.09.2024
24	Dr. Sutapa Mondal	International online FDP on Nanotechnology for Global Challenges: Bridging Science and sustainability (NANOGLOSS)	BIT Mesra, Jaipur Campus	BIT MESRA	BIT Mesra, Jaipur Campus	17.06.2025 – 21.06.2025
25	Dr. Piyush Kumar Ojha	Two weeks Online FDP On Cyber Physical Systems & Control: Bridging the Gap to Future Technologies (CPSC-2025)	Electronics and ICT Academy, NIT Patna	Electronics & ICT Academics (Phase-II) by MeitY, Government of India	NIT Patna	23.01.2025 – 31.01.2025
26	Dr. Sonal	Atmanirbhar Technologies - Engineering Secure Future	National Institute of Advanced Manufacturing Technology (NIAMT)	ANRF(SERB)	National Institute of Advanced Manufacturing Technology (NIAMT)	21.03.2025 – 22.03.2025
27	Dr. Sonal	Centre for Engineering Education Excellence Program-2025	IIT Kanpur	INAE-INFOSYS Foundation	IIT Kanpur	28.05.2025 – 07.06.2025
28	Dr. Nilesh Kumar Rajalwal	FDPon Machine Learning Theory and Applications	E&ICT Academy NIT Warangal	E & I C T Academy NIT Warangal	Online	02.12.2024 – 13.12.2024
29	Dr. Nilesh Kumar Rajalwal	Emerging Trends in DC Microgrid	E&ICT Academy NIT Warangal	E & I C T Academy NIT Warangal	Online	23.06.2025 – 02.07.2025

30	Dr. Prabhat Kumar Ranjan	Two weeks Online FDP On Cyber Physical Systems & Control: Bridging the Gap to Future Technologies (CPSC-2025)	Electronics and ICT Academy, NIT Patna	Electronics & ICT Academics (Phase-II)' by MeitY, Government of India	Online	23.01.2025 – 31.01.2025
31	Dr. Prabhat Kumar Ranjan	Two weeks Online Faculty Development Programme (FDP) on "Theoretical Insights and Practical Strategies: Optimization, Control, Game Theory, Reinforcement Learning (OCGR-2025)	Jointly Organized by Electronics and ICT Academy, Department of Electrical Engineering,NIT Patna	Electronics and ICT Academy, Department of Electrical Engineering,NIT Patna	Online	02.06.2025 – 12.06.2025
32	Dr. Deep Shekhar Acharya	Two weeks Online FDP On Cyber Physical Systems & Control: Bridging the Gap to Future Technologies (CPSC-2025)	Electronics and ICT Academy, NIT Patna	Electronics & ICT Academics (Phase-II) by MeitY, Government of India	NIT Patna	23.01.2025 – 31.01.2025
33	Dr. Deep Shekhar Acharya	Short Term Program on Learning Battery Thermal Management Systems Using ANSYS Fluent	Department of Mechanical Engg, NIT Rourkela	NIT Rourkela in association with ARK Infosolutions Pvt. Ltd.	Online	12.05.2025 – 16.05.2025
34	Dr. Deep Shekhar Acharya	Refresher Course on Cyber Physical Systems: A New Era of Technology Integration	IIT Patna	Malaviya Mission Teacher Training Programme (MMTTP)	Online	16.06.2025 – 28.06.2025
35	Mr. Prafulla Kumar Manoharan	Online Faculty Development Programme on "Effective Communication and Interpersonal Skills for Technical Faculty"	NITTTR BHOPAL	NA	NITTTR BHOPAL	05.05.2025 – 09.05.2025
36	Mr. Prafulla Kumar Manoharan	Two weeks Online Faculty Development Program on "Application of Industry 4.0 in Circular Supply Chain"	jointly organized by the Electronics and ICT Academy at NIT Patna & Sri Sankara Arts and Science College, Kanchipuram	Scheme of financial assistance for setting up of Electronics and ICT Academy (Phase-II)" of the Ministry of Electronics and Information Technology (MeitY), Government of India	Electronics and ICT Academy at NIT Patna & Sri Sankara Arts and Science College, Kanchipuram	03.03.2025 – 12.03.2025

37	Mr. Prafulla Kumar Manoharan	10-Day Idea to Patent Course	Turnip Innovations, Course Certificate Number: 925717	NA	Turnip Innovations	15.10.2024 – 24.10.2024
38	Mr. Prafulla Kumar Manoharan	Six-Sigma Assessment Course	Online by LearnTube	NA	Online	18.10.2024
39	Dr. Gopisetti Srinivasarao	Workshop on Industrial Robotics and Automation	IIT (ISM) Dhanbad	NA	Offline	14.04.2025 – 16.04.2025
40	Dr. Anil Kumar Sharma	Centre for Engineering Education Excellence (CEEE Program 2025)	Indian National Academy of Engineering-Infosys	Indian National Academy of Engineering-Infosys	IIT-Kharagpur	02.06.2025 – 14.06.2025
41	Dr. Ashis Kumar Chakraborty	6 Days FDP on 'Surface Engineering: Principles, Techniques, and Characterization'	Malaviya Mission Teacher Training Programme (MMTTP), IIT(ISM), Dhanbad	UGC	Online	22.06.2025 – 27.06.2025
42	Dr. Ritesh Kumar Upadhyay	Five days skill development workshop on learning battery thermal management systems using Ansys, Fluent (12-16th may)	NIT Rourkela	NIT Rourkela	Online	12.05.2025 – 16.05.2025
43	Mr. Ashutosh Kumar	UGC approved by MMTTC "National Education Policy and its implementation –2020"	University of Hyderabad – Telangana	UGC	Online	05.08.2024 – 10.08.2024
44	Mr. Ashutosh Kumar	Robotics in Industry 4.0 Transformation"	OP Jindal University, Raipur, Chhattisgarh - India	AICTE, MoE, GoI.	Online	14.04.2025 – 18.04.2025
45	Dr. Sandip Ghosh Hazra	Faculty Development Program / Training Program On "A Systematic Way of Research Paper Writing"	Research Foundation of India & Council Of Academic Research and Educational Organisation (RFI Care) In Association with: Faculty of Commerce- Parul University-Gujarat	Self	Online	24.06.2025 – 28.06.2025
46	Dr. Kankan Das	8th AINET International Conference, ELE at the Crossroads	AINET, India	Self- financed	Online	10.04.2025 – 12.04.2025

47	Dr. Kankan Das	International Conference on Language Education in Multilingual Context	The English and Foreign Languages University (EFLU), Hyderabad	BIT Mesra	The English and Foreign Languages University (EFLU), Hyderabad	26.07.2024 – 27.07.2024
48	Dr. Sunit Prasad	"Inculcating Universal Human Values in Technical Education"	AICTE	BIT Deoghar	Online	09.06.2025 – 13.06.2025
49	Ms. Rashmi Kumari	Faculty Development Programme on "Advanced development in AI: From Basics of AI to Generative AI, Explainable AI, and Beyond"	Electronics & ICT Academy, IIT Roorkee supported by Ministry of Electronics & Information Technology, GOI		Hybrid	23.09.2024 – 29.09.2024
50	Ms. Rashmi Kumari	Faculty Development Programme on "Research Structuring and Publication Process"	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu		Hybrid	23.06.2025 – 27.06.2025
51	Dr. Manoj Kumar Dutta	International Conference	Jamia Millia Islamia	BIT Mesra	Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi.	22.11.2024 – 23.11.2024
52	Dr. Manoj Kumar Dutta	International Conference	ABV IIITM, Gwalior	BIT Mesra	ABV IIITM, Gwalior	06.03.2025 – 08.03.2025
53	Dr. Manoj Kumar Dutta	FDP on Transforming Tomorrow: Unleashing the Power of Machine Learning and Cutting-edge Signal & Image Processing for Healthcare	Kongunadu College of Engineering and Technology,	BIT Mesra	Online	26.05.2025 – 31.05.2025
54	Dr. Manoj Kumar Dutta	FDP on Surface Engineering: principles, Techniques, and Characterization	IIT (ISM), Dhanbad	Self	Online	22.06.2025 – 27.06.2025
55	Dr. Ram Krishna Sarkar	FDP on Inculcating Universal Human Values in Technical Education	AICTE	Self	Online	09.06.2025 – 13.06.2025

56	Dr. Ram Krishna Sarkar	9th online International Conference on Ancient Mathematics & Science for Computing	BIT Mesra, Off-Campus Deoghar	Self	Online	20.12.2024 – 21.12.2024

SECTION 4.5		RESEARCH PUBLICATIONS

Publication Data

S.No	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	29	37	1	4

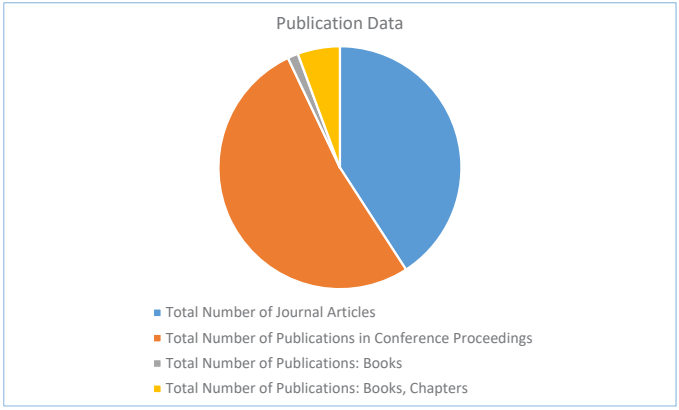


Figure 3. Category wise publication data

SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Payal Bhardwaj	Best Paper	BIT Mesra, Off Campus Deoghar	International	20.12.2024 – 21.12.2024
2	Ram Krishna Sarkar	Best Paper of the Session	BIT Mesra, Off-Campus Deoghar	International	20.12.2024 – 21.12.2024
3	Dr. Sonal	Session Chair during the National Seminar on "Green Energy, Environment and Technology" (NSGEET 2025)	Department of Electrical Engineering, NITTTR Kolkata	National	16.01.2025 – 17.01.2025

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Priti Ashok Jain, Shantanu Siuli, Nayantara Mitra, Shramana Dutta, Kaustav Sarkar, Ajay Kumar, Sidharth Raja Halder, Chandrima Ganguly, Pravas Ranjan Bal	An adaptive language learning system using nlp and machine learning for personalized education	202421072248	2024	Applied, Published	This invention describes an adaptive language learning system that integrates natural language processing (NLP) and machine learning to provide personalized English language education. The system analyzes learners' language skills, preferences, and progress using NLP techniques and applies machine learning algorithms to adapt the learning content dynamically. This ensures that each learner receives a customized educational experience that evolves with their proficiency and learning style.
2	Meena Arora, Tamilselvi P, Sunetra Chatterjee, Regidi Suneetha, Nishi Kant Kumar	Cloud based healthcare monitoring system using IOT	442395-001	2025	Granted	Accurate and timely disease prediction plays a critical role in enabling preventive care and early intervention for at-risk individuals.
3	Sheeba S., P. Madhubala, Nishi Kant Kumar, Asma Anjum, and C. Karthik,	AI Based Breast Cancer Diagnosis Equipment	445691-001	2025	Granted	Cloud-based systems provide a scalable and flexible infrastructure that supports tele-health services and remote diagnostics, enabling real-time access to medical data, seamless communication between healthcare providers and patients, and improved delivery of care across geographic boundaries.

4	Dr. Kamta Nath Mishra, Dr. R. K. Lal, Dr. Soumya Ray, Dr. Anjana P. Ghorai	Tracing the Parents of Orphanage Children Using Intelligent Techniques	IP2009	2025	Applied	The inventors accept that every person/child should identify the names/addresses of their biological parents. It is a serious concern that most of the orphanage children are not able to find their parents, and technological advancement cannot accomplish their requirements. The inventors have anticipated a new technique where the Aadhar database can be linked with STR (short tandem Repeat), which is also a part of the DNA database. The proposed approach must be integrated with FIR (first information report) submitted in the police control system to identify the parents of the children using Internet of things driven technologies, blockchain, spiral search, and cloud computation technologies. It is found that a part of a DNA sequence may be repeated multiple times in a 'whole helix structure', which is called the STR part of DNA sequencing. The proposed invention's hardware and software integration demonstrates the approach's technical feasibility. The model finds auspicious results and may be served for the benefit of the orphanage child/person to trace their parents.
5	Sutapa Mondal	An electronic control unit for electric vehicles	462256-001	2025	Applied	Designed for the schematic analysis and experimental performance evaluation of a custom- designed PCB tailored for an EV control system.

6	Dr. Sonal	Method for Assessment of Hosting Capacity and Voltage Stability for Renewable Energy Integrated EV Charging Station", Assignees: D. Ghosh, S.K. Sahu, Sonal.	[Appl. No. 202231065637] [Grant No. 553458]	2024	Granted	A novel method to evaluate hosting capacity and ensure voltage stability for EV charging stations integrated with renewable energy sources. The approach optimizes grid performance under varying load and generation conditions.
7	Dr. Sonal	Solar Wireless Electric Vehicle Charging System	Patent No. 202412529	2024	Granted	The Solar Wireless Electric Vehicle Charging System patent proposes a sustainable solution for contactless EV charging using solar-generated power. It enhances energy efficiency, reduces dependency on the grid, and supports green transportation.
8	Dr. Nilesh Kumar Rajalwal	A protection system for securing operation of a distance relay in an electrical power transmission network and method thereof	202531055970	2025	Published	This patent provides a solution for blocking the distance relay maloperation under the fluctuations of large scale wind farm.
9	Dr. Nilesh Kumar Rajalwal	Thermal Management System of Li-ion Battery	460159-001	2025	Applied	This patent provides a novel technique for temperature control and monitoring system for Li-ion batteries.
10	Dr. Deep Shekhar Acharya	Biometric Sensors on Steering Wheel.	439404-001	2024	Granted	This patent provides the design for implementing biometric sensors on steering wheels.

11	Dr. Deep Shekhar Acharya	Thermal Management System of Li-ion Battery	460159-001	2025	Applied	This patent provides a novel technique for temperature control and monitoring system for Li-ion batteries.
12	Mr. Prafulla Kumar Manoharan	AI BASEDSOLAR ENERGY MONITORING DEVICE	Design No.431669-001	2024	Published	The published Design patent is for AI based Solar Energy Monitoring Device
13	Prof. Ashutosh Kumar	ML based Neck Device for Cervical Patients	Design No. 462390-001	2025	Applied	It is a new design for a neck device that would employ machine learning for signal processing and actuate motors for relaxation massage
14	Dr. Manoj Kumar Dutta	A Hybrid and Integrated Renewable Energy System with Advanced Energy Management	Application No: 202421043458	2024	Published	The invention described in this document addresses these needs by presenting an integrated renewable energy system that combines fuel cell technology with solar and wind power generation. This system employs advanced energy management techniques and grid-interactive features to 20 maximize energy reliability, efficiency, and sustainability. By offering a scalable and adaptable solution, this invention is suitable for a wide range of applications, including residential, commercial, industrial, and remote areas, supporting the transition to a low-carbon energy future.

15	Dr. Manoj Kumar Dutta	ML-based Humanoid Device for Object Identification and Alarming	Patent Application No: 439457-001	2024	Granted	The present invention provides a machine learning-based humanoid device capable of identifying objects and generating an alarm in response to certain identified conditions. The device is designed to detect and classify objects using trained neural networks and deep learning models. Upon identifying specific objects or scenarios, such as unauthorized entry, hazardous items, or other predefined items of interest, the device triggers an alarming mechanism.
16	Dr. Manoj Kumar Dutta	Wall-Mounted Compact Electric Vehicle Charging Unit	Patent No: 6431507	2025	Granted	The present invention provides a wall-mounted compact electric vehicle charging unit that is designed for residential, commercial, and industrial applications. The unit comprises a compact housing, an intelligent power distribution module, a safety protection system, and a user interface for seamless operation. The charging unit can be connected to a standard power source and is equipped with smart connectivity features for remote monitoring and control.
17	Dr. Ram Krishna Sarkar	ML-based Humanoid Device for Object Identification and Alarming	Patent Application No: 439457-001	2024	Granted	The present invention provides a machine learning-based humanoid device capable of identifying objects and generating an alarm in response to certain identified conditions. The device is designed to detect and classify objects using trained neural networks and deep learning models. Upon identifying specific objects or scenarios, such as unauthorized entry, hazardous items, or other predefined items of interest, the device triggers an alarming mechanism.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. Soumya Ray	Assistant Professor & In-Charge CSE Dept.	Cloud Computing, Big Data Security	Ph.D. (Engg.)	10.08.2010
2	Prof. Anita Kushwaha	Assistant Professor	NIC, Soft-computing, AI&ML	MCA PhD pursuing	31.07.2000
3	Dr. Kamta nath Mishra	Assistant Professor.	O.S., SE, ALGORITHM	Ph.D. (Engg.)	08.08.2019
4	Dr. Sounak Paul	Assistant Professor	Cyber Security, Cloud Computing,	Ph.D (Engg.)	18.01.2002
5	Mr. Rayees Ahamad	Assistant Professor	OS & Soft Computing	M.Tech (CS), PhD thesis submitted	23.08.1999
6	Mr. Arbind Kumar Choudhary	Assistant Professor	Computer Network, Oosd	M.Tech	14.08.2001
7	Mr. Balaram Mandal	Assistant Professor	Data Communication & Computer Networks	M.Tech (IT)	20.01.2011
8	Mr. Raja Ram Dutta	Assistant Professor	Data Mining, Machine Learning, Bigdata Analytics	MCA, M. Tech, M. Phil, Ph.D (Pursuing)	03.08.2012
9	Dr. Nishi Kant Kumar	Assistant Professor	Software Engineering , Database Management System	Ph.D. in Engineering (CSE)	24.01.2009
10	Dr. Pravas Ranjan Bal	Assistant Professor	Data Science, AI	PhD	01.06.2023
11	Dr. Praveen Kumar Sharma	Assistant Professor	Applied IoT, ML, DL	Ph.D.	12.12.2024
12	Mr. Swapan Kumar Borat	Associate lecturer	Compiler Design, Automata Theory	MCA	01.11.2007
13	Mr. Saswata Mukherjee	Associate Lecturer	Data Structure, Computer Graphics	MCA	10.03.2007
14	Ms. Neena Jha	Associate lecturer	Programming language .I have taught in undergraduate PPS, DS, FOC, OAT, and DAA,	BE in Computer Science	08.09.2008
15	Dr. Rajesh Kumar Lal	Associate Professor & In-Charge ECE Dept.	Optoelectronic Devices, VLSI, QWIP	Ph.D.	16.05.2005
16	Dr. Mainak Mukhopadhyay	Associate Professor	Digital Signal Processing	Ph.D.	25.05.2010
17	Mr. Vikash Sharma	Assistant Professor	Wireless Communication Microstrip Antennas	Ph.D. (Thesis submitted)	24.11.2004
18	Dr. Payal Bhardwaj	Assistant Professor	Microwaves	Ph.D	01.04.2015
19	Dr. Sutapa Mondal	Assistant Professor	Electric Vehicle, Wireless Sensor Area Network	PhD	13.07.2009

20	Dr. Akash Kumar Gupta	Assistant Professor	Signal Processing, Digital Communication	PhD	13.09.2011
21	Mr. Akhilesh Kumar Roy	Assistant Professor	VLSI Design, Microelectronics	M.Tech	23.06.2003
22	Mr. Mahendra Das	Associate Lecturer	Optoelectronic Devices, Instrumentation, VLSI, Semiconductor Devices, Fiber Optics	Ph.D. (continuing)	04.07.2004
23	Dr. Deep Shekhar Acharya	Assistant Professor (AL-11) & In-Charge EEE Dept.	Control Systems	Ph.D. (Engineering)	03.02.2010
24	Dr. Piyush Kumar Ojha	Assistant Professor (AL-10)	Power Systems and Power Electronics	Ph.D. (Engineering)	20.07.2009
25	Dr. Prabhat Kumar Ranjan	Assistant Professor (AL-10)	Power Electronics & Power System	Ph.D (Engineering)	11.01.2011
26	Dr. Nilesh Kumar Rajalwal	Assistant Professor (AL-11)	Power System Protection	Ph.D. (Engineering)	01.06.2015
27	Dr. Sonal	Assistant Professor (AL-10)	Power System	Ph.D. (Engineering)	25.06.2024
28	Dr. Arbind Kumar	Professor & In-Charge Mechanical Engg. Dept.	Materials Technology	Ph.D	16.08.1999
29	Dr. Ashis Kumar Chakraborty	Associate Professor	Image recognition, Frontal polymerization	Ph.D	24.11.2011
30	Dr. Ritesh Kumar Upadhyay	Assistant Professor	Thermal, Heat Transfer, Electrochmical Machining	Ph.D	30.07.2009
31	Dr. G. Srinivasarao	Assistant Professor	System Dynamics and control	Ph.D	24.02.2010
32	Dr. Anil Kumar Sharma	Assistant Professor	Multidisciplinary	Ph.D	05.09.2005
33	Mr. Ashutosh Kumar	Assistant Professor	Manufacturing Optimization	M.Tech,PhD (pursuing)	05.09.2011
34	Mr. Prafulla Kumar Manoharan	Assistant Professor	Multidisciplinary	M.Tech., PhD (pursuing)	02.10.2007
35	Dr. Sandip Ghosh Hazra	Assistant Professor & In-Charge H&M Dept.	Management-Marketing	PhD	05.12.2011
36	Dr. Kankan Das	Assistant Professor	English Language Education	PhD	05.03.2024
37	Dr. S. S. Majhi	Assistant Professor & In-Charge Chemistry Dept.	Frontal polymerisation, Oscillatry Reaction, Water Quality Analysis	PhD	02.12.1999
37	Dr. A. C. Singh	Assistant Professor	Adsorption of Metal ion, Biomass, Water Quality Analysis	PhD	03.02.2004

38	Dr. Asha Sharma	Assistant Professor	Reproductive Molecular Biology, Health Science	Ph.D	01.04.2025
39	Dr. Manoj Kumar Dutta	Assistant professor & In-Charge, Physics Dept.	Applied Optics & Image Processing	Ph.D	21.12.2012
40	Dr. Ram Krishna Sarkar	Assistant professor	Nonlinear Optics	Ph.D	04.04.2008
41	Dr. Soumen Karmakar	Assistant professor	Materials Science	Ph.D	22.04.2009
42	Dr. Anjana Pradhan Ghorai	Associate Professor & In-Charge, Mathematics Dept.	Mathematical Modelling, Elastodynamics	Ph. D	13.07.2000
43	Dr. Ranjan Chattaraj	Assistant professor	Elastodynamics	Ph. D	15.07.2004
44	Dr. Bishnu Kumar	Assistant professor	Mathematical Modelling (Ocenography)	Ph. D	16.08.2012
45	Dr. Amit Kumar	Assistant professor	Fluid Mechanics	Ph. D	29.10.2007

6.2. List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1	Dr. Sunit Prasad	Visiting Assistant Professor	BIT Mesra, Off-Campus Deoghar
2	Ms. Rashmi Kumari	Visiting Assistant Professor	BIT Mesra, Off-Campus Deoghar

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1	Dr. Anjan Pradhan Ghorai	Associate Professor & In-charge, Department of Mathematics, BIT Deoghar	Faculty Representative from Mathematics Department, BIT Deoghar
2	Dr. R. K. Lal	Associate Professor & In charge, Dept. of ECE, BIT Deoghar	Faculty Representative from, ECE Department, BIT Deoghar
3	Dr. Sounak Paul	Assistant Professor, CSE Department, BIT Deoghar	Faculty Representative from CSE Department, BIT Deoghar

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Independence day	--	Dr. Sashish Tiwary Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	15.08.2024
2	Janmasthami	Sagar Kumar (BTech/60310/22)	Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	26.08.2024
3	Viswakarma Puja 2024	Jit Singh	Dr. Rajesh Kumar Lal Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	17.09.2025
4	Dandiya Nights	Shivani kumari(2021) Haritha N (2022) 5. Trisha Dutta(2022)	Dr. Asha Sharma Dr. Rajesh Kumar Lal Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	03.10.2024

5	Aghaaz 2024	Devashish Bhardwaj (BTECH/60036/22)	Dr. Payal Bhardwaj , Dr. Manoj Kumar Dutta	19.10.2024
6	Deepotsav	Muddana Ganesh (BTECH/60050/22)	Dr. Payal Bhardwaj , Dr. Manoj Kumar Dutta	24.10.2024
7	Saraswati Puja	Sagar Kumar (BTech/60310/22)	Dr. Rajesh Kumar Lal Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	03.12.2025
8	Republic Day Celebration 2025	---	Dr. Sashish Tiwary Dr. Payal Bhardwaj Dr. Manoj Kumar Dutta	26.01.2025
9	Utthaan 2025	Devashish Bhardwaj (BTECH/60036/22)	Dr. Payal Bhardwaj , Dr. Manoj Kumar Dutta	28.03.2025 – 30.03.2025
10	Mahabharata Act and a Play during Utthaan	Abhijeet, Anand, Mohit	Dr.Payal Bhardwaj	29.03.2025
11	Patriotic play on Republic Day	Abhijeet, Anand, Monoswini Dey	Dr.Payal Bhardwaj	26.01.2025
12	Musical Skit on Aghaaz	Ankan, Anand, Monoswini Dey	Dr.Payal Bhardwaj	19.10.2024
13	Patriotic play on Independence Day	Abhijeet, Devashish, Anand, Monoswini Dey	Dr. Payal Bhardwaj	15.08.2024
14	Umang , performane by Swar in Republic Day	Keshav Jha (2k22) Vasudev (2k22)	Dr. Sutapa Mondal	26.01.2024
15	Tarang, performane by Swar in Independance day	Keshav Jha (2k22) Vasudev (2k22)	Dr. Sutapa Mondal	26.01.2024
16	Decoration for the UTTHAAN 2024	---	Dr. Soumya Ray & Dr. Asha Sharma	28.03.2025 – 30.03.2025
17	Decoration for the Independence Day Celebration	---	Dr. Soumya Ray & Dr. Asha Sharma	15.08.2024
18	Decoration for the Vishwakarma Puja	---	Dr. Soumya Ray & Dr. Asha Sharma	18.09.2024
19	Decoration for the Dandiya Night	---	Dr. Soumya Ray & Dr. Asha Sharma	03.10.2024
20	Decoration for the Aghaaz	---	Dr. Soumya Ray & Dr. Asha Sharma	19.10.2024
21	15TH AUGUST	---	Dr. Soumen Karmakar	15.08.2024
22	SIP	---	Dr. Soumen Karmakar	21.08.2024
23	SIP	---	Dr. Soumen Karmakar	21.08.2024
24	Craft Your Career	---	Dr. Soumen Karmakar	13.09.2024
25	Gandhi Gyan: Legacy Quiz	---	Dr. Soumen Karmakar	02.10.2024
26	Story Relay	---	Dr. Soumen Karmakar	19.10.2024
27	Literary Treasure Hunt	---	Dr. Soumen Karmakar	19.10.2024
28	Panchayat	---	Dr. Soumen Karmakar	19.10.2024
29	Plot Twister	---	Dr. Soumen Karmakar	19.10.2024
30	Constitution Day	---	Dr. Soumen Karmakar	26.11.2024
31	Secret Santa	---	Dr. Soumen Karmakar	15.12.2024
32	In the footsteps of Vivekananda	---	Dr. Soumen Karmakar	12.01.2025
33	Echoes of Freedom	---	Dr. Soumen Karmakar	23.01.2025
34	Brain Battle	---	Dr. Soumen Karmakar	23.01.2025
35	Ink for Innovation	---	Dr. Soumen Karmakar	26.01.2025
36	Republic Day	---	Dr. Soumen Karmakar	26.01.2025
37	Abba Jabba Dabba	---	Dr. Soumen Karmakar	29.03.2025

38	Andaz Apna Apna	---	Dr. Soumen Karmakar	28.03.2025
39	Murder Mystery	---	Dr. Soumen Karmakar	28.03.2025
40	Poetry in Pictures	---	Dr. Soumen Karmakar	20.06.2025
41	Dance program in Utthaan	Haritha , Trisha	Dr. Asha Sharma	28.03.2025 – 30.03.2025
42	Dance program in Republic Day	Trisha	Dr. Asha Sharma	26.01.2025
43	Dance program in Lohri	Haritha	Dr. Asha Sharma	13.01.2025
44	Dance program in Aagaaz	Haritha , Trisha	Dr. Asha Sharma	19.10.2024
45	Dance program in Dandiya Night	Haritha	Dr. Asha Sharma	03.10.2024
46	Dance program in Independence Day celebration	Trisha	Dr. Asha Sharma	15.08.2024

7.2 Student Achievements (Overall)

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Aman Anand	Conference paper presented in International Conference "Energy, Environment and Green Technology"	NITTTR, Kolkata	04.04.2025	NITTTR, Kolkata
2	Kumar Ayush	Conference paper presented in International Conference "Energy, Environment and Green Technology"	NITTTR, Kolkata	04.04.2025	NITTTR, Kolkata
3	Anakan Sarkar	Conference paper presented in International Conference "Energy, Environment and Green Technology"	NITTTR, Kolkata	04.04.2025	NITTTR, Kolkata
4	Aman Anand	Conference paper presented in International Conference "SSDEE 2025"	IIT ISM Dhanbad	28.02.2025	IIT ISM Dhanbad
5	Kumar Priyanshu, Raj Tanisha, Jain Dhairya, Kumari Khushi	Presented Poster at India Management Research Conference (IMRC 2024), Indian Institute of Management, Ahmedabad under the guidance of Dr. Sunit Prasad	Indian Institute of Management, Ahmedabad	07.12.2024 – 09.12.2024	Indian Institute of Management, Ahmedabad
6	Jha Priyanka Kumari, Jain Ridhi and Shahi Amyra	Presented paper at International Management Perspective Conference (IMPeC 2025), 9th PAN IIM Conference being organized at Indian Institute of Management, Sambalpur under the guidance of Dr. Sunit Prasad	Indian Institute of Management, Sambalpur	30.01.2025 – 01.02.2025	Indian Institute of Management, Sambalpur

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Mr. Praveen Sharma	IBM Client Innovation Centre, Noida	Institute Innovation Cell 7.0	21.03.2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1	Harsh Kamal Singh,	SDE, Broadridge Financial Solutions	Mr. Harsh Kamal Singh a student of the 2019 - 2023 batch from the Department of Computer Science & Engineering, BIT Mesra Off Campus Deoghar, has been awarded by Broadridge Financial Solutions a USA based fintech company. Stating his achievement Mr. Harsh Kamal stated, "Our main responsibility was to handle data extraction, transformation, and loading (ETL) processes, ensuring the data was efficiently loaded into our database for further processing by other teams. With the support of senior team members in the US, I successfully built a cloud-based pipeline to streamline this data loading process. As the first person from India to achieve this, I was honored with the Innovation Award for my contributions." The company has displayed his name on the Wall of Fame.	
2	Sachin	SDE, Broadridge Financial Solutions	Mr. Sachin, a student of the 2019 - 2023 batch from the Department of Computer Science & Engineering, , BIT Mesra Off Campus Deoghar, received the 'Key Contributor Award' at Broadridge Financial Solutions. The company has displayed his name on the Wall of Fame.	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	Bizaugmentor Global Services Pvt. Ltd. Sector-22, Dwarka, New Delhi-110077.	Internship & Placement Purposes	Till Terminated
2	Smart Brains Engineers and Technologies Pvt. Ltd. A–25, A Block, Sector 59, Noida, Uttar Pradesh-201301.	Internship & Placement Purposes	Till Terminated

3	Benignant Power Private Limited. ourav Vihar, PO-EC Burla, Dist.-Sambalpur, Odisha, India.	Internship & Placement Purposes	Till Terminated
4	Edgate Technologies Pvt. Ltd., # 479, 6th Main Road, Opposite the BMTC depot, HMT Layout, RT Nagar, Bengaluru, Karnataka 560032.	Internship & Placement Purposes	Till Terminated
5	JayTech Solar Systems Pvt. Ltd. # 131, Mancheswar Industrial Estate, Bhubaneswar-751010, Odisha.	Internship & Placement Purposes	Till Terminated
6	Morling Global Pvt. Ltd. Noida, Uttar Pradesh 201301.	Internship & Placement Purposes	Till Terminated
7	Internshala (Scholiverse EducarePvt. Ltd.), Haryana-18.	Internship & Placement Purposes	Till Terminated
8	YBI Foundation, Delhi-59.	Internship Purposes	Till Terminated

8.4 Industry Connect

1. Visit of DVC, Chandrapura power plant by our Mechanical Engineering II and III year all branch students on 22.03.2025.

SECTION 9 INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

CSE Department: We have recently set up a state-of-the-art Embedded System Lab and IoT Lab, equipped with Arduino kits, to provide hands-on learning experiences for undergraduate students from MO-25 onwards.

EEE Department: Our departmental laboratories are undergoing upgrades to stay current with the latest technological advancements. Key upgrades include:

- The Power Electronics Laboratory, now equipped with dSPACE and Microlab box, enables the development of advanced hardware systems and lab prototypes.
- The Control System Lab features the latest NI Elvis bundle and boards, providing hands-on training in real-time data acquisition and controller development. The lab also includes a magnetic levitation system, a complex nonlinear system ideal for validating proposed control strategies.
- The Power System Lab is equipped with a relay testing system, experimental setup for parallel operation of machines, and an air circuit breaker.
- Our Simulation Lab is stocked with industry-leading software, including MATLAB, LabVIEW, Power World Simulator, ETAP, and PSCAD, providing students with comprehensive simulation capabilities.

H&M Department: To foster academic excellence and research acumen, we have established a dedicated lab for hands-on training in qualitative and quantitative data analysis using SPSS Version 29. This lab provides students with a comprehensive understanding of research methodologies, covering a broad spectrum of essential topics. By leveraging cutting-edge tools and techniques, students gain practical expertise in data analysis, empowering them to conduct effective research.

9.2 IT Upgrades:

CSE Department:

With a strong focus on digital literacy, our department provides students with access to approximately

200 computers. To support academic excellence, we're upgrading our internet infrastructure to high-speed bandwidth, ensuring seamless connectivity across campus, procuring high configuration based computers. Furthermore, our Wi-Fi-enabled facilities will empower students to harness the full potential of digital learning.

EEE Department:

Our department boasts well-equipped laboratories, including:

- A Simulation Lab with 65 desktop PCs, supporting software-based courses and activities.
- Specialized labs, such as Power System Lab, Power Electronics Lab, Control System Lab, and Measurement and Instrumentation Lab, each equipped with sufficient desktop PCs for conducting software-based experiments.

SECTION 10		FUTURE PLANS (2025-26)

CSE Department:

- We are planning to launch B.Tech (AI & ML) from next academic session onward.
- Procurement of High-configuration computers to increase our Computer & Language Lab's facilities.
- Implementation of High speed Internet network bandwidth along with WiFi connectivity within the academic building.

ECE Department:

Our goals include:

- Filing/awarding at least two patents
- Fostering industry collaborations for projects and consultancy
- Signing at least one MoU with an industry partner
- Upgrading our existing simulation lab

EEE Department:

Our plans for the present and upcoming academic years include:

- Conducting Faculty Development Programs (FDPs) in both online and offline modes
- Developing research infrastructure
- Collaborating with other departments and institutes to create a holistic research environment
- Focusing on AI/ML applications in power systems, power electronics, controller design, and automation

Mechanical Engineering:

- We are planning to Start B.Tech (Robotics & AI) from next academic session onward.
- Physics Department:
- To arrange FDP(s), workshop(s) & Seminar(s) in the domains of image processing, non-linear optics & photonics, and materials science. We also plan to submit project proposals to suitable funding agencies.

Mathematics Department:

- We are set to launch a new (I.M.Sc) Integrated M.Sc. program in Mathematics & Computing, offering students a comprehensive and immersive learning experience.

BIT Off-Campus Patna

SECTION 1 **DEPARTMENTAL PROFILE**

1.1 About the Department / Off-Campus

Birla Institute of Technology, Patna Campus—an Off-Campus of BIT Mesra, Ranchi—was established in 2006 through a visionary initiative of the Government of Bihar, aimed at expanding access to quality technical education in the state. Since its inception, BIT Patna has grown into a leading academic hub, known for its strong academic foundation, modern infrastructure, and vibrant campus life. Over the years, it has achieved several key milestones, including the introduction of new academic programs, establishment of state-of-the-art laboratories and research facilities, and active collaboration with industries and government bodies. Upholding the legacy of BIT Mesra, the Patna Campus continues to foster innovation, research, and holistic development, emerging as one of the most reputed technical institutions in the region.

1.2 Vision & Mission

- Vision: To become a globally recognized academic institution in consonance with the social, economic and ecological environment, striving continuously for excellence in education, research and technological service to the national needs.
- Mission:
  - To educate students at Undergraduate, Post Graduate, Doctoral and Post Doctoral levels to perform challenging engineering and managerial jobs in industry.
  - To provide excellent research and development facilities to take up Ph.D. programmes and research projects.
  - To develop effective teaching and learning skills and state-of-the-art research potential of the faculty.
  - To build national capabilities in technology, education and research in emerging areas.
  - To provide excellent technological services to satisfy the requirements of the industry and overall academic needs of society.

1.3 Key Achievements

- Student Achievements: Miss Samreedhi (BTECH/15073/21, CSE) achieved the highest placement offer of ₹34.4 LPA from PayPal, reflecting exceptional academic excellence and technical proficiency.
- Faculty Achievement: Dr. Paramjit Kour, Assistant Professor, Department of Physics, BIT Patna, received the Best Faculty Award in the category “Mobilizing R&D Funds” for the year 2024, in recognition of her outstanding contribution to research and development initiatives at the institute, on the occasion of the 79th Independence Day.
- Overall Department Achievement: BIT Patna has signed three MoUs with the Bihar Industries Association (BIA), ICAR, and NIELIT to promote student and faculty development through collaborative training, research, and skill enhancement initiatives. These partnerships aim to strengthen industry–academia linkage and foster innovation and institutional growth at the campus.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features of Course
1	B. Tech in Civil Engineering	4 Years	60	Program Core, Program Elective, Open Elective/ MOOC besides common first year courses

2	B.Tech in Computer Science & Engineering	4 Years	60	The curriculum delves into core concepts, tools, and computational techniques relevant to the further specialization, providing in-depth knowledge and expertise.
3	B.Tech in AI & ML	4 Years	60	The course often delve into machine learning algorithms, deep learning architectures, and natural language processing.
4	B.Tech in ECE	4 Years	60	Updated course Structure
5	B.Tech in EEE	4 Years	60	Updated course Structure
6	Bachelor of Computer Applications (BCA)	3 Years	40	The undergraduate degree offers strong foundation in programming, software development, and IT. It's designed to equip students with practical skills and theoretical knowledge.
7	Bachelor of Business Administration (BBA)	3 Years	60	The programme is based on NEP'2020
8	M.Tech in Computer Science	2 Years	18	In-depth knowledge, research opportunities, and specialized skills, making graduates well-equipped for research roles, advanced technical positions, or further academic pursuits.
9	M.Tech in Wireless Communications	2 Years	09	-
10	Masters of Business Administration (MBA)	2 Years	60	The programme is based on NEP'2020 The programme offers dual specialisations in Marketing, IT, Finance, HR, Digital Marketing, and Business Analytics.
11	Doctor of Philosophy in all branches of engineering, Management and Science	--	--	--

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Sanjib Roy	A Pragmatic Approach towards Design of IoT based Health Monitoring and Disease Diagnosis System	Dr. Ayan Kumar Das	17.05.2024
2	Namrata Singh	Efficient Smart Healthcare System for Internet of Medical Things	Dr. Ayan Kumar Das	30.05.2024
3	Amit Abhishek	Design Development and Analysis of Patch Antenna for higher band Applications	Dr. Priyadarshi Suraj	27.01.2025

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of magnetic sensor for Naval application	Dr. Paramjit Kour (PI)	NSTL, DRDO	01.08.2024	48.646963 Lakhs	2 Years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Noise Unaware Semi-Supervised Approach to Image Super-Resolution in Fluorescence Microscopy	Dr. HaziqueAetesam (PI)	BIT Seed Grant	19.03.2025	5 Lakhs	2 Years
2	Development of a Graphical User Interface (GUI) Based Simulation Platform for the Dynamics Study of the Human Heart under Normal and Abnormal Operation	Dr. M A Hasan (PI) Dr. Ayan Das (Co-PI)	ICMR	26.2.2024	24.82 Lakhs	3 Years
3	Development and Implementation of AI-driven Smart Farming Solutions Utilizing IoT and Digital Extension Services for Enhanced Agricultural Productivity	Dr. Monika Singh (Co-PI)	ICSSR, New Delhi	07.09.2024	15 Lakhs	1 Year
4	Effectiveness of Entrepreneurial Education in Fostering Youth Entrepreneurship Skills and Mindset	Dr. Monika Singh (Co-PI)	ICSSR, New Delhi	07.09.2024	11 Lakhs	1 Year
5	Microwave shielding of Quaternary composite for Aerospace industry	Dr. Paramjit Kour (PI)	ARDB, DRDO	26.07.2022	31.22 Lakhs	3 Years
6	Quaternary Composite	Dr. S.K. Pradhan (Co-PI)	ARDB	22.07.2022	31.49 Lakhs	3 Years
7	Magnetic Material	Dr. S.K. Pradhan (Co-PI)	UGC-DAE	01.04.2022	1.35 Lakhs	3 Years
8	Crystal and Magnetic Structure study on co-doped SrFe12O19 and its Magneto-Electric Properties	Dr. Paramjit Kour (Co PI)	UGC-DAE, Mumbai	31.03.2022	1.35 Lakhs	3 Years
9	Role of Microstructure and interface Strain engineering in Magneto-Electric Properties of PFN/CZFMO Composite	Dr. Paramjit Kour (PI)	UGC-DAE, Indoor	31.03.2022	1.35 Lakhs	3 Years

(c) Completed Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Date of Completion
1	SMOG FILTER: An intense field dielectric based anti-smog outdoor design to regulate air quality index	Dr. M A Hasan (PI)	Department of biotechnology GOI	10.04.2023	4.0 Lakhs	1 Year

(d) Consultancy Projects

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
1	Material Testing & Concrete Mix Design (M25 for Touch Pile & M25 for other structures)	Infrastructure Development Authority (IDA), Patna, Bihar.	10.04.2024 to 24.08.2024	1.1334 Lakhs	Dr. Anish Ms. B. Mahto Dr. A. Mandal Dr. K. Sweta	Completed
2	Material Testing & Concrete Mix Design (M25 & M40 for structural concrete works)	Infrastructure Development Authority (IDA), Patna, Bihar.	21.06.2024 to 12.11.2024	1.1505 Lakhs	Dr. Anish Ms. B. Mahto Dr. A. Mandal Dr. K. Sweta	Completed
3	Testing of Cement		02.07.2024 (continuing)	0.15104 Lakhs	Dr. Anish Ms. B. Mahto Dr. A. Mandal Dr. K. Sweta	Ongoing
4	Training of Electricians	Panasonic	01.06.2024 to 12.12.2024	0.65 Lakhs	Dr Kumar Nikhil (PI)	Completed

(e) CSR Funded Project

Sr. No.	Title	Funding Agency	Duration (from - to)	Grant Mobilised (Rs. Lakhs)	PI / Co-PI	Status (Ongoing/ Completed)
NIL						

SECTION 3 SEMINAR / CONFERENCE

3.1 Events Conducted by the Department:

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1	Expert Lecture by Er. K.K. Chatterjee, Retired Head of Department, Central Mine Planning & Design Institute, Coal India Limited	Prof. (Dr.) Sudeshna Chakravarty	BIT Mesra, Patna Campus	01.10.2024	Offline
2	Seminar on Entrepreneurship, Marketing Research and Strategy Formulation	Dr. Sohini Ghosh	BIT Patna	03.10.2024	Offline
3	One-Day National Workshop on "Emerging Technology Trends: Artificial Intelligence & Machine Learning (NWETT–2024)"	Dr. Sheel Shalini	Bihar Council on Science & Technology, Govt. of Bihar	11.11.2024	Hybrid
4	Govt. Women's Polytechnic Visit	Ms. Bandana Mahto	—	13.11.2024	Offline
5	One Day Workshop on "Application of GIS in the Modern Era of Civil Engineering" (AGMECE–2024)	Dr. Angshuman Mandal and Ms. Bandana Mahto	Bihar Council on Science & Technology, Govt. of Bihar	03.12.2024	Offline

6	Two-Day Workshop cum Training on "Building the Internet of Things: From Theory to Application"	Dr. Sheel Shalini	BIT Patna	12.12.2024 – 13.12.2024	Offline
7	3rd National Seminar on "Pragmatic Role of Technological Innovation in Start-up (NPTIS–2025)"	Dr. Upendra Kumar	Bihar Startup	07.02.2025 – 08.02.2025	Offline
8	Expert Lecture on "Artificial Intelligence and the World Economy"	Dr. Monika Singh	BIT Patna	20.02.2025	Offline
9	Workshop on "Financial Literacy & Investment Strategies"	Dr. Sunil Kumar Pandey and Dr. Monika Singh	BIT Patna	21.02.2025	Offline
10	One-Day Workshop on "Wearable Technology and Safety Measures"	Dr. Ritesh Kr. Badhai, Dr. P. Suraj	Bihar Council on Science & Technology, Govt. of Bihar	08.03.2025	Hybrid
11	AICTE Sponsored Faculty Development Program	Dr. M. A. Hasan / Dr. Kumar Nikhil	AICTE–MIC	14.03.2025 – 19.03.2025	Offline
12	Field Visit to IARI, New Delhi – Exploring AI-Driven Smart Farming	Dr. Monika Singh	ICSSR, New Delhi	17.03.2025 – 18.03.2025	Offline
13	One-Day Workshop on "Mathematical Sciences & its Applications in Data Science & Machine Learning (MSADSML–2025)"	Premlata Singh, P. C. Srivastava, and Akmal Raza	Bihar Council on Science & Technology, Govt. of Bihar	20.03.2025	Offline
14	Two-Day Workshop on "Digital Transformation"	Dr. Sohini Ghosh	BIT Patna	20.03.2025 – 21.03.2025	Offline
15	Workshop on "B2B Strategic Sales & Marketing"	Dr. Sunil Kumar Pandey and Dr. Monika Singh	BIT Patna	24.03.2025	Offline
16	Industrial Visit to Vaishal Patliputra Dugdh Utpadak Sahkari Sangh Ltd., Feeder Balancing Dairy Complex, Phulwarisharif, Patna	Dr. Abinav Kumar Sandilya and Dr. Monika Singh	BIT Patna	28.03.2025	Offline

3.2 Events Attended by Faculty

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date (DD. MM.YYYY or range)
1	Dr. P. C. Srivastava	Youth Engagement Strategy Workshop	Ministry of Health & Family Welfare	Ministry of Health & Family Welfare	Chankya Patna	23.07.2024
2	Mrs. Bandana Mahto	2-weeks Online Faculty Development Program on AI & Machine Learning With Python	E & ICT Academy, NIT Patna	Self financed	NIT Patna	29.07.2024

3	Dr. Abhinav K Shandilya	12th International Research Symposium in Service Management (IRSSM 2024)	WGSHA, MAHE, Manipal	BIT	MAHE/ Hybrid	07.08.2024
4	Dr. Abhinav K Shandilya	Financial Literacy and Planning for Happy Retirement	FHMCT & FMC, MS Ramaiah University of Applied Sciences	Self	Online	28.08.2024
5	Dr. P. C. Srivastava	Workshop on Converging with GPC outreach activity by HEIs for PIs (UBA RCI - NIT Patna)	UBA RCI - NIT Patna	NIT Patna	NIT Patna	31.08.2024
6	Mrs. Bandana Mahto	Faculty Development Program on Applied AI: Practical Implementations (Tech Saksham)	Microsoft India & SAP India	Self financed	Online	14.10.2024
7	Dr. Nidhi Mishra	IEEE ECCE Conference, Arizona, USA	IEEE	IEEE	Arizona, USA	20.10.2024
8	Adnan Mahmood; Dr. R.S. Pandey; Madhup Kumar	Emerging Technology Trends: Artificial Intelligence & Machine Learning	BIT Patna	BCST, Bihar	BIT Patna	11.11.2024
9	Prof. (Dr.) Sudeshna Chakravarty	Application of GIS in the Modern Era of Civil Engineering (AGMECE 2024)	Civil Engineering Department, BIT Mesra, Patna Campus	Bihar Council on Science & Technology, Govt. of Bihar	BIT Patna	03.12.2024
10	Dr. Anish	Application of GIS in the Modern Era of Civil Engineering (AGMECE 2024)	Civil Engineering Department, BIT Mesra, Patna Campus	Bihar Council on Science & Technology, Govt. of Bihar	BIT Patna	03.12.2024
11	Dr. Kumari Sweta	Application of GIS in the Modern Era of Civil Engineering (AGMECE 2024)	Civil Engineering Department, BIT Mesra, Patna Campus	Bihar Council on Science & Technology, Govt. of Bihar	BIT Patna	03.12.2024
12	Dr. Ashish M Dubey	POMS India International Conference 2024	Indian Institute of Management, Ranchi	NA	Ranchi	04.12.2024
13	Dr. S.K. Pradhan	Invited talk: Int. conf. AC2MP-2024 (IIT Patna)	IIT Patna	BIT	IIT Patna	08.12.2024
14	Dr. S.K. Pradhan	Invited talk: Robotics in Industry 4.0	BIT Patna Mechanical	BCST	BIT Patna	11.01.2025
15	Dr. Kumari Sweta	Microzonation of a City for Better Preparedness During an Earthquake	Department of Civil and Environmental Engineering, IIT Patna	BIT Mesra, Patna Campus	IIT Patna	19.01.2025

16	Dr. Monika Singh	One Day National Workshop on Disaster Management, Pollution control and AI based farming through Drone Technology and Robotics	BIT Mesra Patna Campus	BIT Mesra Patna Campus	BIT Mesra Patna Campus	28.01.2025
17	Dr. Angshuman Mandal	3rd National Seminar on Pragmatic Role of Technological Innovation in Start-Up (3rd NPTIS – 2025)	BIT Mesra, Patna Campus	Invited to Chair a Technical session	BIT Mesra, Patna Campus	07.02.2025
18	Dr. Monika Singh	Technovate for India Conclave	The Times of India	The Times of India	Taj City Centre, Patna	11.02.2025
19	Dr. S.K. Pradhan	AMLURAIM-2025 NIT RKL Int.conf	NIT RKL	Self	NIT RKL	12.02.2025
20	Dr. Premlata Singh	6th National Conference on Recent Advancement in Physical Sciences (NCRAPS2025)	DIT University, Dehradun and NIT Uttarakhand	MRSI, Delhi Chapter and ISDT DRDO	DIT University, Dehradun	14.02.2025
21	Dr. Hazique Aetesam	12th International Conference on Signal Processing and Integrated Networks (SPIN 2025)	Amity University, Noida	BIT Mesra	Amity University, Noida	20.02.2025
22	Dr. Shipra	One-week FDP on V2X and UAV Communications in 6G	Electronics and ICT Academy, NIT Patna	MeitY	Online	24.02.2025
23	Dr. Sweta Kumari	Empowering Smart Healthcare with Deep Learning: From Data to Diagnosis	NIT Patna (E & ICT)	Ministry of Electronics and Information Technology (MeitY)	NIT Patna	24.02.2025
24	Dr. Atul Kumar Pandey	One week FDP: V2X and UAV communication in 6G: Recent trends and enabling technology	Electronics and ICT Academy, NIT Patna	MeitY Gov. of India	NIT Patna	24.02.2025
25	Dr. P. C. Srivastava	Invited Talk (ICAMS-2025)	Central University Motihari Bihar	CUM	CUM	08.03.2025
26	Mr. Sanjay Kumar	FDP on Innovation & Entrepreneurship	MHRD/AICTE	MHRD/AICTE	BIT Patna/ Online	24.03.2025
27	Dr. Amit Kumar	International Conference (SRMIST India)	SRMIST India	BIT	SRMIST	24.03.2025

28	Dr. Sheel Shalini	FDP on Innovation & Entrepreneurship	Dept of EEE, BIT Patna	AICTE, MoE – Innovation Cell	BIT Patna	24.03.2025
29	Dr. Sweta	FDP on Innovation and Entrepreneurship (AICTE MIC)	AICTE and MIC	AICTE	BIT Patna	24.03.2025
30	Dr. P. C. Srivastava	FDP (IEC-2025)	BIT Patna	AICTE	BIT Patna	24.03.2025
31	Dr. Shiv Kumar Choubey	UHV I (AICTE Online)	AICTE	AICTE	Online	21.04.2025
32	Dr. S.K. Pradhan	IP UTSAV (AICTE IP Utsav)	AICTE	Self	AICTE, MIC	21.04.2025
33	Dr. Smita Pallavi	Techphilia 8.0 - Hackathon (Judge)	Amity University, Patna	Amity University, Noida	S.K. Science Centre, Patna	22.04.2025
34	Dr. Angshuman Mandal	International Conference on Innovations and Sustainability in Civil Engineering (ISCESTI 2025) – Session Chair	National Institute of Technology Patna	Invited to Chair a Technical session	NIT Patna	14.05.2025
35	Dr. Shipra	Recent Innovations and Trends in Electrical & Electronics Engineering and Computing (RITEEC)	Department of Electrical Engineering, NIT Patna	-	NIT Patna	22.05.2025
36	Dr. Sweta Kumari	FPGA based Vending Machine with excess amount return feature (RITEEC 2025)	RITEEC 2025 NIT Patna	MeitY	NIT Patna	22.05.2025
37	Dr. Nilay Pandey	Faculty Development Programme on Pioneering 6G: Innovations, Applications, and The Road Ahead	Motilal Nehru NIT Allahabad / Electronics and ICT Academy	-	PDPM IIIT	26.05.2025
38	Dr. Sheel Shalini; Mr. Madhup Kumar	National Technology Day (Organizer)	BIT Patna	IIC, BIT Patna	BIT Patna	27.05.2025
39	Dr. Adhishree	Invited Speaker: WePOWER SAR100 (Online) - Asian Institute of Technology, Thailand	Asian Institute of Technology	AIT	Online	30.05.2025
40	Dr. S.K. Pradhan	Participated in FDP on Drone on IOT Farming	BITP & NITP	Self	BIT Patna	02.06.2025
41	Dr. K P Tiwary	Drone and IOT Technology for GIS and Smart Farming Applications	Electronics & ICT Academy	MeitY	BIT Patna	02.06.2025

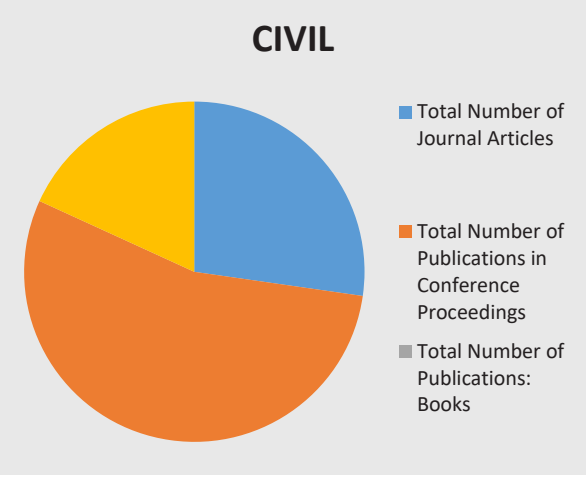
42	Dr. Chandan Kumar	Participated in FDP on Drone on IOT Farming	BITP & NITP	Self	BIT Patna	02.06.2025
43	Dr. S.K. Sinha	Drone and IOT Technology for GIS and Smart Farming Applications	Electronics & ICT Academy	MeitY	BIT Patna	02.06.2025
44	Dr. Monika Singh	5 Days FDP on Drone and IOT Technology for GIS and Smart farming applications	Department of CSE, BIT Mesra Patna Campus in Collaboration with E&ICT Academy Phase-II, NIT Patna, and Bihar	Department/ E&ICT Academy	BIT Mesra Patna Campus	02.06.2025
45	Dr. Mayank Singh	Drone and IOT Technology for GIS and Smart Farming Applications (Dept of CSE, BIT Patna)	Department of CSE, BIT Patna	-	BIT Patna	02.06.2025
46	Dr. Kaushlendra Sharma	Drone and IOT Technology for GIS and Smart Farming Applications	Electronics & ICT Academy	MeitY	BIT Patna	02.06.2025
47	Dr. Atul Kumar Pandey	One week FDP: Drone and IoT technology for GIS and smart farming applications	Electronics and ICT Academy, NIT Patna and BIT Mesra, Patna Campus	MeitY Gov. of India	BIT Patna	02.06.2025
48	Dr. Shiv Kumar Choubey	FDP on Drone and IOT Technology for GIS and Smart Farming Applications	BIT Patna and NIT Patna	E & ICT Academy Phase-II, NIT Patna	BIT Patna	02.06.2025
49	Mr. Rajiv Ranjan	FDP on Drone and IOT Technology for GIS and Smart Farming Applications	BIT Patna and NIT Patna	E & ICT Academy Phase-II, NIT Patna	BIT Patna	02.06.2025
50	Dr. Priyadarshi Suraj	FDP on Drone and IOT Technology for GIS and Smart Farming Applications	BIT Patna and NIT Patna	E & ICT Academy Phase-II, NIT Patna	BIT Patna	02.06.2025
51	Dr. Ritesh Kumar Badhai	FDP on Drone and IOT Technology for GIS and Smart Farming Applications	BIT Patna and NIT Patna	E&ICT Academy Phase-II, NIT Patna	BIT Patna	02.06.2025
52	Mr. Madhup Kumar; Dr. Iqbal Naiyer; Dr. Gyanendra Tiwari	Drone and IoT Technology For GIS and Smart Farming Applications (Faculty)	BIT Patna & NIT Patna	E & ICT Academy NIT Patna	BIT Patna	02.06.2025

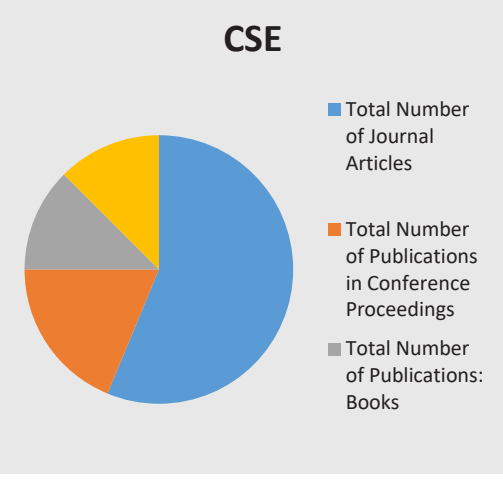
53	Dr. Sweta Kumari	Semiconductor Devices, Circuits & Sensors: Applications and Research Perspective	NIT Patna (E & ICT)	MeitY	NIT Patna	06.06.2025
54	Dr. S.K. Pradhan	Participated in FDP on Nurturing future leadership (IIMB)	IIMB	MOH	IIMB	09.06.2025
55	Dr. Adhishree	Faculty Development Program on Data Analytics using AI	E & ICT Academy, IIT Kanpur	MEITY	Online	09.06.2025
56	Mr. Sanjay Kumar	Course on UHV (Online)	AICTE/MHRD	AICTE/MHRD	Online	10.06.2025
57	Dr. Shipra	Faculty Development Programme on Deep Learning (Online)	Electronics & ICT Academy, MNIT Jaipur	MeitY	Online	25.06.2025

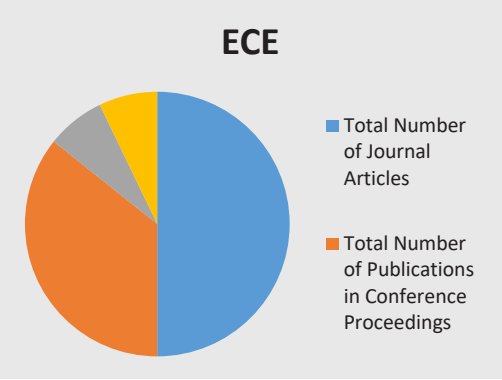
SECTION 4 — RESEARCH PUBLICATIONS

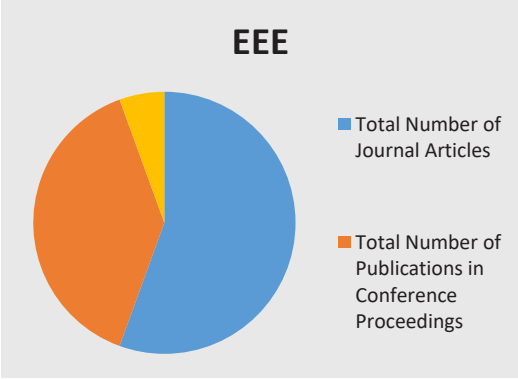
Publication Data

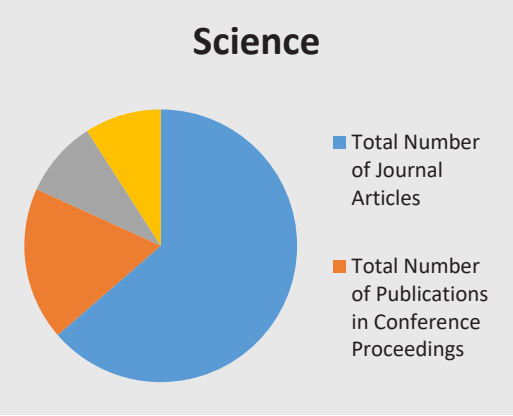
S. No.	Department	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	Civil	3	6	-	2
2	Mech.	11	-	-	-
3	CSE	9	3	2	2
4	ECE	7	5	1	1
5	EEE	10	7	-	1
6	Science	7	2	-	1
7	Management	11	8	0	6











SECTION 5 AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Nidhi Mishra	IEEE Women in Engineering WIE Travel Grant Award at IEEE ECCE, Arizona, Phoenix, USA, Oct, 2024	IEEE	International	2024
2	Dr. M A Hasan	Awarded for receiving highest funded research project in year 2024 at BIT Patna	BIT Patna	State	2024

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Raushan Kumar, Kumar Saurabh, Hazique Aetesam, Rashmi Kumari, Raghwendra Kishore Singh	Smart Solar Cell Quality Detection Device	428944-001	2024	Granted	AI and sensor-based device for rapid and precise solar cell quality testing, improving defect detection, inspection speed, and production efficiency in photovoltaic module manufacturing.

2	Dr. Upendra Kumar	A Research to Study Concerns Regarding Security of Cloud Computing	202431040298A (21)	2024	Granted	Research addressing vulnerabilities in cloud computing with focus on data confidentiality, integrity, and availability to enhance overall cloud security framework.
3	Dr. Kamala Pati Tiwary, Dr. Kaushlendra Sharma, Dr. Shiv Kumar Choubey	C d S Nanoparticles Doped with Mn and Method for Preparation Thereof	202431076419	2024	Granted	Describes Mn-doped CdS nanoparticles with tunable optical and magnetic properties synthesized via controlled chemical routes for applications in sensors and luminescent nano-devices.
4	M. A. Hasan	An Intense Field Dielectric Cuboid Shape Air Filtration System	202431054770 A	2024	Published	Compact electrostatic air filter using dielectric mesh and S-shaped airflow path to efficiently capture airborne particles and improve purification performance.
5	M. A. Hasan	Intense Field Dielectric Cuboid Shape Air Filtration System	202431064908 A	2024	Published	High-efficiency dielectric air filter combining mechanical and electrostatic filtration to remove ultrafine particles while maintaining airflow and energy efficiency.
6	Himanshu Priyadarshi, Adhishree Srivastava, Abhishek Sharma, Dhaneshwar Mishra, Ashish Shrivastava, Kulwant Singh	Preparation of Tire Char Nanoparticles toward Sustainable Electrode Fabrication Technology	202411043143	2024	Published	Method for producing tire-char nanoparticles for eco-friendly electrodes, promoting sustainable recycling of waste materials in energy-storage applications.
7	Dr. K. P. Tiwary, Dr. Kaushlendra Sharma, Dr. Shiv Kumar Choubey	A CdS Nanoparticles Doped with Mn and Method for Preparation Thereof	202431076419	2024	Granted	Describes synthesis of Mn-doped CdS nanoparticles with enhanced luminescence and magnetism for advanced optical sensor applications.
8	Dr. Kunal Mukhopadhyay, Dr. Uzma Afreen, Dr. Paramjit Kour, Dr. Manish Kumar	Method for Synthesizing Silica Nanoparticles from Waste Plant Matter	2024310227046	2024	Published	Innovative nanotechnology to extract silica nanoparticles from rice husk for plant molecular biotechnology and targeted drug-delivery research.

9	Dr. Gyanendra Tiwary, Dr. Amit Prakash, Dr. Akhilesh Kumar, Dr. Qutubuddin S. M., D. Jaswanth Roy, Mr. P. Anil Kumar	AI-Based Organic Waste Composter	450429-001	2025	Granted	AI-IoT composting unit that monitors temperature, pH, and moisture in real time to optimize decomposition and produce high-quality compost efficiently.
10	Dr. Joshua Bapu J., Mr. Ranajeet Kumar, Dr. Shiv Kumar Choubey, Dr. Shipra, Dr. Asma Anjum	Wireless Intrusion Detection and Prevention Device	447148-001	2025	Granted	Wireless network security system that detects unauthorized access, spoofing, and DoS attacks, ensuring proactive intrusion prevention.
11	Adhishree Srivastava, Shahbaz Ahmad Khan, Himanshu Priyadarshi, Sanjoy Kumar Parida, Nidhi Mishra	Solar Energy Tracking System with Water-Based Cleaning System	Application No. 202431104657	2025	Published	Automated solar-tracking and cleaning system enhancing energy capture and minimizing manual maintenance for photovoltaic arrays.
12	Dr. Rahul, Dr. Kumar Nikhil, Dr. Jai Prakash Meena, Dr. Chandan Kumar, Mr. Nitin Kumar, Pankaj Singh	Multi Cable Organizer for Computer Desk	444137-001	2025	Published	Compact, multi-slot cable holder for computer desks, improving workspace organization and user convenience.
13	Dr. Palak Gupta, Dr. Ruchi Agarwal, Dr. Manjeet Kaur Ratan, Dr. Shubh Arora, Dr. Ajay Kumar Patel, Dr. Rajneesh Khare, Mr. Mayank Kumar Pandey, Ms. Rakhi Singh, Ms. Hemlata Rauthan, Dr. Monika Singh, Dr. Sumit Agarwal	IoT-Based Outdoor Advertisement Kiosk	CBR No. 209189	2025	Granted	IoT-enabled outdoor digital kiosk supporting dynamic advertisement display, data analytics, and real-time monitoring for targeted audience engagement.
14	Dr. Palak Gupta, Dr. Monika Singh, Dr. Rajneesh Khare, Mr. Mayank Kumar Pandey, Ms. Rakhi Singh, Dr. Sumit Agarwal	Operation Management Analytics Device	CBR No. 218159	2025	Granted	AI-based device for process optimization and performance analysis in manufacturing and business operations.
15	Dr. K. P. Tiwary, Dr. Kaushlendra Sharma, Dr. Shiv Kumar Choubey	A CdS Nanoparticles Doped with Mn and Method for Preparation Thereof	202431076419	2024	Granted	Describes synthesis of Mn-doped CdS nanoparticles with enhanced luminescence and magnetism for advanced optical sensor applications.

SECTION 6		FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Prof. Anand Kumar Sinha	Professor	Groundwater Modelling, Open Channel Flow, Water Quality, Applied Hydrology, Water Sustainability, Hydraulic Structures, Minewater Management, Climate Change	PhD	01.11.1990
2	Prof. Sudeshna Chakravarty	Professor	Geotechnical Engineering	PhD	05.07.2000
3	Dr. Anish	Asst. Professor	Structural Engineering	PhD	21.08.2009
4	Mrs. Bandana Mahto	Asst. Professor	Water Resources Engineering and Environmental Engineering	M. Tech.	01.09.2012
5	Dr. Angshuman Mandal	Asst. Professor	Structural Engineering	PhD	04.01.2017
6	Kumari Sweta	Visiting Asst. Professor	Transportation Engineering	PhD	14.08.2023
7	Dr. Sheel Shalini	Asst. Professor	Data Mining, ML, Deep Learning	PhD	01.05.2008
8	Mr. S. K. Chatterjee	Asst. Professor	Programming, Data Structure, Data Clustering, Graphics	MCA, Pursuing PhD(BIT, Mesra)	05.09.1997
9	Dr. R.S. Pandey	Asst. Professor	Networks , Machine Learning , Quantum Computing and IoT.	PhD	21.07.2000
10	Dr. S. C. Pandey	Asst. Professor	Bio-Inspired computation. AI & Machine Learning, Soft Computing	PhD	25.06.2008
11	Dr. Ayan Kumar Das	Asst. Professor	Blockchain, IoT, Deep Learning	PhD	08.04.2015
12	Dr. Ajit Kumar Keshri	Asst. Professor	Cyber Security, Blockchain, IoT, IoMT, Cloud Computing	PhD	01.07.2004
13	Dr. Upendra Kumar	Asst. Professor	Machine learning, IoT, Blockchain	PhD	30.07.2012
14	Mr. Shridhar Kumar	Asst. Professor	Networks, Cloud, Optimization, Data Structure	MTech	18.01.2010
15	Dr. Ratnesh Mishra	Asst. Professor	IoT, Machine Learning, Energy optimization, Blockchain, Smart Farming, Cryptography	PhD	01.12.2007
16	Dr. Gyanendra Tiwari	Asst. Professor	Deep Learning, Machine Learning and AI, Natural Language Processing	PhD	17.12.2024
17	Dr. HaziqueAetesam	Asst. Professor	Image Related Inverse Problems	PhD	01.03.2023
18	Dr. Amit Prakash	Asst. Professor	Information Retrieval, Natural Language Processing, Image Processing	PhD	13.12.2012
19	Dr. Naiyar Iqbal	Asst. Professor	Machine Learning, Data Science, Bioinformatics	PhD	19.03.2025
20	Dr. Smita Pallavi	Asst. Professor	Data Mining, ML, Deep Learning	PhD	13.12.2012

21	Mr. Madhup Kumar	Asst. Professor	Information Retrieval, Natural Language Processing, Image Processing	PhD	13.12.2012
22	Mr. Adnan Mahmood	Associate Lecturer	Computer Graphics, Web Technology	MCA	12.09.2009
23	Dr. Ritesh Kumar Badhai	Asst. Professor	Antenna Design, RF Circuit Design, Computational Electromagnetics & EMI/EMC	Ph.D.	13-0-2009
24	Dr. Atul Kumar Pandey	Asst. Professor	Wireless sensor Networks, M2M Communication and IoT	Ph.D.	13-07-2009
25	Dr. Priyadarshi Suraj	Asst. Professor	Wideband Antenna, Wireless Communication, MIMO antenna	Ph.D.	19.09.2011 (Deoghar) 01.11.2012 (Patna)
26	Mr. Rajeev Ranjan	Asst. Professor	Nano Semiconductor Material	M.E.	09-08-2004 (Jaipur) 09-06-2021 (Patna)
27	Dr. Sweta Kumari	Asst. Professor	Control system design, Energy Harvesting model, IOT based models, AL/ML, Analog VLSI design	Ph.D.	16.08.2010
28	Dr. Nilay Pandey	Asst. Professor	Molecular and Nanoscale Communications	Ph.D.	02-09-2021
29	Dr. Shipra Mishra	Asst. Professor	Speech recognition	Ph.D.	15-07-2009
30	Dr. Umer Asharaf	Asst. Professor	Intelligent Reflecting Surfaces, NOMA, UAV's	Ph.D.	12-03-2024
31	Dr. Naren Das	Asst. Professor	Electrical Sensors, Semiconductor Devices	Ph.D.	01-04-2024
32	Dr. Shiv Kumar Choubey	Asst. Professor	Semiconductor Devices and Nano materials	Ph.D.	02-03-2009 (Deoghar) 11-02-2013 (Patna)
33	Dr. Chinmay Chakraborty	Asst. Professor	Wireless,AI based Telemedicine	PhD	01/08/2011
34	Dr. Kumar Nikhil	Asst. Professor	Control and Instrumentation	Ph.D.	06.12.2000
35	Mr. Sanjay Kumar	Asst. Professor	Drives, Renewable Energy, Utilization(Industry related issues)	M.Tech, Pursuing Ph.D	08.07.2008
36	Dr.Mayank Singh	Asst. Professor	Electrical Engineering (Power Systems)	P.hD in Engineering	02/02/2010
37	Dr. Shradha Kishore	Asst. Professor	Control and Instrumentation	Ph.D.	01.09.2012
38	Dr. Md. Asif Hasan	Asst. Professor	Power System	Ph.D	29.06.2015
39	Mr. Raj Kumar Mishra	Asst. Professor	Renewable Energy, Instrumentation & Control	M.Tech, Pursuing Ph.D	13.08.2009
40	Dr Adhishree	Asst. Professor	AI/ML Application in Smart Grid and allied areas	PhD (IIT Patna)	01.07.2016

41	Dr. Nidhi Mishra	Asst. Professor	Power Electronics, Power Quality etc.	Ph.D and Post Doc experience	09.12.2021
42	Prof. S P Lal	Professor	Manufacturing Technology	PhD	01.09.1999
43	Dr. Anand Kumar	Asst. Professor	Metal Matrix Composites, Internal Combustion Engine, Machine Design	PhD	09.09.2004
44	Dr. S.K Pradhan	Asst. Professor	Composite Material,Robotics	PhD	28.06.2006
45	Dr. Soumen Mandal	Asst. Professor	Thermal,Manufacturing	PhD	03.04.2007
46	Dr. Ravi Shankar Anand	Asst. Professor	Computer-aided design, Micro-machining, Automation	PhD	16.07.2010
47	Dr Chandan Kumar	Asst. Professor	Composite,Meshfree,Thermal	PhD	18.08.2008
48	Dr Amit Kumar	Asst. Professor	Design,Mechanics of Solids,Non Destructive Testing,Smart materials, Energy harvesting	PhD	01.09.2011
49	Mr. Vijay Kumar Mandal	Asst. Professor	Design and Manufacturing, Manufacturing Technology., Waste Minimization Techniques.	Mtech	30.07.2007
50	Dr. Premlata Singh	Asst. Professor	Fluid Mechanics	M.Phil., Ph.D.	31/08/2012
51	Dr. P. C. Srivastava	Asst. Professor		Ph.D.	25/08/2005
52	Dr. Akmal Raza	Asst. Professor	Applications of Wavelets	Ph.D.	03/04/2023
53	Dr. S.K. Sinha	Associate Professor	Ferr/dielectric Material	Ph.D	9/4/2002
54	Dr. K P Tiwary	Asst. Professor	Semiconductor Nanoparticles, photovoltaic, Photocatalysis,	PhD	11/09/2007
55	Dr. B. Bhushan	Asst. Professor	Optics	PhD	02.01.2009
56	Dr. P.kour	Asst. Professor	Mat. sc	PhD	07.08.2008
57	Dr. Kaushlendra Sharma	Asst. Professor	Complex Compound, Materials, Biopolymer	Ph.D	01.07.2006
58	Dr. Shambhu Sharan Kumar	Asst. Professor	Applied Chemistry & Environmental Protection: Nanotechnology applied Paint Formulations and Surface Coatings	Ph.D	01.09.2003
59	Dr. Gyan Kumar Agarwal	Asst. Professor	-	Ph.D	07.04.2004
60	Dr. Vijay Agarwal	Associate Professor	Finance	PhD, MFC	03.07.2002
61	Dr. Abhinav Kumar Shandilya	Associate Professor	Service Marketing	PHD	3/01/2005
62	Dr. Sunil Kumar Pandey	Asst. Professor	HRM & Law	MBA, LLB, DPhil	23.07.2005
63	Dr. Iftekhar Ahmad	Asst. Professor	Marketing management and operations management	PhD, MBA	01.07.2002
64	Dr. Adhip Kumar Mahanty	Asst. Professor	Economics, Banking, International Trade	PhD	01.04.2005
65	Dr. Ashish Mohan Dubey	Asst. Professor	HRM	PhD, MBA	27.04.2009
66	Dr. Sushil Kumar	Asst. Professor	Marketing Management	PHD, MBA	01.02.2004
67	Dr. Sweta	Asst. Professor	HRM	PhD, MBA	17.11.2006

68	Dr. Sohini Ghosh	Asst. Professor	HRM, Marketing	PhD, MBA, MSc	02.08.2010
69	Dr. Amit Raghubanshi	Asst. Professor	French Language & Literature	PhD, MA (French)	26.11.2012
70	Mr. Sultan Khan	Asst. Professor	Marketing & HRM	MBA	10.06.2004
71	Dr. Monika Singh	Asst. Professor	Business Analytics, Information systems, E-Governance	PhD	12.12.2024
72	Dr. S.S. Yadav	Asst. Professor	Physical Education & Sports	PhD	

6.2List of Adjunct Faculties/ Visiting Professor/ Professor of Practice/ Others, if any

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1	Mr. R. A. Khan	Visiting Faculty	Regular
2	Mrs. Shalini Agrawal	Visiting Faculty	Regular

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Sheel Shalini	Member	Internal
2.	Dr. Kumar Nikhil	Asst. Professor	Internal Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Drone Technology Workshop	Ananya, Shreyanshi	Dr. S. K. Pradhan	16.04.2025 – 18.04.2025
2	Entrepreneurial Awareness Programme (in association with BIA)	Ashutosh Kumar, Ananya, Shreyanshi	Dr. Chandan Kumar	18.02.2025
3	Edifice	Sourav Kumar Sinha, Parbhakar Kumar, Gour Kumar, Krishn Ranjan, Aradhaya Tiwary, Sashikant, Srishti Raj, Muskan	Dr. Angshuman Mandal	14.02.2025 – 16.02.2025
4	Ideathon Contest (Technovate for India Conclave)	Mitali Kumari (BBA/15064/22)	Dr. Sweta	11.02.2025
5	Robotics in Industry 4.0 Workshop	Ananya, Shreyanshi	Dr. S. K. Pradhan	11.01.2025
6	Group Discussion	Gour Kumar, Madhuri Raj, Suraj Kumar	Prof. (Dr.) Sudeshna Chakravarty, Dr. Anish	18.10.2024
7	Internal Smart India Hackathon	Mihir Kumar	Dr. Ritesh Kumar Badhai	10.09.2024

7.2 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1	Miss Saumya Bharti	BCA	Final	Gold Medalist
2	Mr. Soumya Kanti Panda	B.Tech. (CSE)	Final (BTECH/15159/20)	Gold Medalist

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photos
1	Er. K. K. Chatterjee	Retired Head of Department, Central Mine Planning & Design Institute, Coal India Limited	CED, BIT Mesra, Patna Campus	01.10.2024	
2	Dr. Mani Kumar	Ex-Dy Director cum HoD1, MMC, FMISC, Anisabad, Patna	CED, BIT Mesra, Patna Campus	03.12.2024	
3	Mrs. Ananya Kumari	Assistant Sales Manager, Technical Support Division, Stesalit Systems Ltd	CED, BIT Mesra, Patna Campus	03.12.2024	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
NA				

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	Bihar Industries Association	Internship and Industrial Visit	2025-cont.
2	ICAR	Research	2025-cont.
3	NIELIT	Research, Training and Skill Development Programmes	2025-cont.

8.4 Industry Connect

Consultancy work (Material Testing) was undertaken by the Department of Civil Engineering for the Infrastructure Development Authority (IDA), Gandhi Maidan, Patna, involving comprehensive testing and quality assessment of construction materials to ensure compliance with prescribed standards and project specifications.

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

- Procurement of Refrigerated Centrifuge (₹4.25 L) and Orbital Shaking Incubator (₹3.33 L) for strengthening the Environmental Engineering Laboratory, Department of Civil Engineering.

- Concrete Mixer Machine, Pan Type (₹2.09 L) procured for the Concrete Technology Laboratory, Department of Civil Engineering.
- Two-Hinged Arch Apparatus with Structural Platform (₹5.76 L) added to the Structural Engineering Laboratory, Department of Civil Engineering.
- Digital Marshall Stability Test Apparatus (₹2.00 L) procured for the Transportation Engineering Laboratory.
- Solar PV Simulator procured for the Department of Electrical and Electronics Engineering (EEE).
- High Temperature Furnace installed for advanced material testing and research applications.
- DC Poling Unit procured to support research in material characterization.
- Impact Testing Machine installed for strength and toughness evaluation of materials.
- Robotics Laboratory established to promote innovation and hands-on learning in automation and intelligent systems.

9.2 IT Upgrades

- Computer Lab–II established with 100 PVII systems, LAN, and Internet connectivity.
- IoT Laboratory set up as a Centre of Excellence, equipped with HP Z4 G5 Tower Workstation and Display.
- The CADD lab of the Department is equipped with 14 computers available for student use. Each computer has a range of essential software installed to support academic and project work. The available software includes:
  - QGIS – for geographic information system (GIS) and spatial data analysis.
  - iGIS-interactive Geographic Information Systems for better spatial data visualization, analysis, and decision-making
  - STAAD Pro – for structural analysis and design
  - AutoCAD – for 2D and 3D drafting and design
  - MATLAB- for mathematical computations related to Civil Engineering
  - Workstation GPU : 128-core Maxwell with OS : Linux (Ubuntu 18.04), CPU : Quad-core ARM A57 @ 1.43 GHz
  - Memory(RAM) : 4 GB 64-bit LPDDR4 25.6 GB/s ;Storage : microSD 64 GB (for OS storage); Video Encode : 4K @ 30 | 4 x 1080p @30 |9x 720p @ 30(H.264/H.265)
  - In total in ECE dept. 80 computers are available for students. However in the common computer lab more than 200 computers are available.
- 40 Computers with MAT Lab software (EEE)

SECTION 10 FUTURE PLANS (2025-26)

BIT Mesra, Patna Campus aims to strengthen its academic, research, and infrastructural framework to align with emerging trends in science, engineering, and technology. The campus continues to focus on applied research and innovation in areas such as earthquake-resistant structures, structural optimization, advanced materials, robotics, automation, drone technology, food processing technology, and computational modeling. Efforts will be directed toward enhancing research visibility through an increase in SCI/Scopus-

indexed publications, patents, and international conference proceedings.

Several new facilities and centres are proposed to support this vision. These include the establishment of a Cloud Computing Lab as a Centre of Excellence and a Business Analytics Lab, in addition to the procurement of new equipment for laboratory up gradation across disciplines. The campus plans to implement smart classroom systems and ensure air-conditioned, technology-enabled laboratories equipped with cutting-edge instruments to provide a modern and conducive learning environment.

In terms of academic expansion, new undergraduate programs are proposed under the Mechanical Engineering stream with specializations in Robotics & Automation, Mechatronics, Energy Technology, and Materials Engineering. The extension of intake capacity in B.Tech. (CSE) is also under consideration to meet growing demand.

To foster innovation and entrepreneurship, the institute plans to intensify Innovation and Startup activities under the aegis of its Institution's Innovation Council (IIC). Initiatives will include mentorship for student startups, workshops on entrepreneurship, and partnerships with industries and startup incubators. Furthermore, the campus will actively organize national and international conferences, workshops, guest lectures, and seminars to encourage knowledge exchange and global collaboration.

The campus also seeks to expand its industry linkages through MoUs, introduce skill development programs for technical staff, and strengthen its alumni network for enhanced professional engagement and institutional growth. Through these focused initiatives, BIT Mesra, Patna Campus strives to establish itself as a hub of academic excellence, research innovation, and industry-oriented learning, fostering a dynamic and future-ready educational ecosystem.

BIT Off-Campus Jaipur

SECTION 1 CAMPUS PROFILE

1.1 About the Off-Campus

Birla Institute of Technology, Off Campus Jaipur is an integral part of Birla Institute of Technology, Mesra (Ranchi), established in 1995. The focus of the institute is to provide quality education in Engineering, Applied Sciences, and Management with technology and professional exposure through innovative programmes & practices. With excellent performance, a progressive mindset, and goodwill earned, it is today one of the leading institutes in the field of Engineering, Applied Sciences, Animation, and Management. The Campus is within 5-7 km reach from the airport, railway station, and bus stand.

1.2 Vision & Mission

Vision: To become a globally recognized academic institution in consonance with social, economic and ecological environment, striving continuously for excellence in education, research and technological service to the national needs.

Mission

- To educate students at Undergraduate, Post-Graduate, Doctoral, and Post-Doctoral levels to perform challenging engineering and managerial jobs in industry.
- To provide excellent research and development facilities to up Ph.D. programmes and research projects.
- To develop effective teaching learning skills and state-of- the-art research potential of the faculty.
- To build national capabilities in technology, education, and research in emerging areas.
- To provide excellent technological services to satisfy the requirements of the industry and overall academic needs of society.

1.3 Key Achievements

Student Achievements: Girish Basandani, CISCO, 24.5 LCS

Faculty Achievement: Dr. Piyush Gupta is nominated as Member of Advisory Board in 4th International Conference on Data Science and Big Data Analytics (IDBA-2024) held during 12.07.2024 – 13.07.2024 at Indore, organized by SUAS Indore and technically associated with UNESCO Chair on Secure High-Performance Computing for Higher Education and Research, Namibia University of Science and Technology.

Overall Department Achievement: Ten animated short films, created for NCERT, New Delhi, were successfully completed by students from the Animation & Multimedia Department, under the expert guidance of our faculty members.All animation shorts are available now on NCERT Official Youtube Page: https://www.youtube.com/playlist?list=PLUgLcpnv1Yif-2jdbATw4JPbLs-9yXUrl

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1.	B.Tech. (CSE)	4 Years	120	NEP 2020
2.	B.Tech. (AI)	4 Years	60	NEP 2020
3.	B.Tech. (EEE)	4 Years	30	NEP 2020
4.	B.Tech. (ECE)	4 Years	30	NEP 2020
5.	BCA	4 years	60	NEP 2020
6.	MCA	2 years	60	NEP 2020

7.	M.Sc. (Bioinformatics and Computational Biology)	2 Years	15	
8.	PhD (CSE, ECE, EEE, Management, Physics, Chemistry, Mathematics, Biological Sciences/ Biotechnology)		As per the availability of eligible faculty	Physics: Plasma Physics, Plasma Applications, Plasma Based Surface Modification Processes, RF and Microwave communication, Micro-strip Antennas. Chemistry: Groundwater Analysis and Environmental Pollution, Water Pollution Mathematics: Heat and Mass Transfer in Boundary Layer Flows, Fluid Dynamics BiologicalSciences:MicrobialBiotechnology, Bioinformatics, Computational Biology
9.	BBA	4 years	60	Dual specialisation in BBA
10.	B.Sc. in Animation & Multimedia	4 Years	40	Offers a comprehensive foundation in both the creative and technical aspects of visual media, covering areas such as animation, motion graphics, comics, graphic design, game design, VFX, filmmaking, and multimedia tools.
11.	M.Sc. in Animation Design	2 Years	10	Offers a comprehensive foundation in both creative and technical aspects of visual media, covering areas such as animation, motion graphics, comics, graphic design, game design, VFX, film-making, and multimedia tools.

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Ms. Diksha Sinha	An Analysis of Structural Changes and Foreign Trade Prospects of the Indian Floriculture Industry	Dr. Roopali Sharma	15.05.2025 (Date of Submission)

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) New Project Funded

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
NIL						

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Studies Magnified Upon Variable/Multiple Causative Pathogens Culminating into Diarrheal Diseases in Children Aged Between Years 1- 5	PI: Dr R K Gothwal Co-PI: Dr. P S Solanki	Department of Science & Technology, GoR	18.02.2025	1476000	3 Years
2.	Impact of metformin on cancer cell viability and growth inhibition: a mechanistic investigation	PI: Dr. S Nehra(BISR) Co-PI: Dr R K Gothwal, Dr. P S Solanki	Department of Science & Technology, GoR	18.02.2025	1536000	3 Years
3.	A database of human pathogens related to food and waterborne diseases	PI: Dr P S Solanki Co-PI: Dr R K Gothwal.	Department of Science & Technology, GoR	18.02.2025	1110000	2 Years
4.	Production of laccase enzyme by Pycnoporus sanguineus using low cost agri residues	PI: Dr. A.K. Varshney Co-PI: Dr R K Gothwal, Dr. P S Solanki	Department of Science &Technology, GoR	18.02.2025	1371000	3 Years

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Conducted by the Campus :

Sr. No.	Title	Coordinator	Funding / Sponsoring Agency	Date	Mode (Online/ Offline/Hybrid)
1.	Latest Trends in Cyber Security	Dr. Alok Pandey	BIT Jaipur,	23.10.24	Offline
2.	Faculty Development Program on Generative Artificial Intelligence: Tools and Techniques	Dr. Madhavi Sinha	AICTE	25.11.2024-30.11.2024	Offline
3.	Blockchain Governance Structures and Trust: From Theory to Practice	Dr. Pankaj Gupta	AICTE	23.12.2024-28.12.2024	Online
4.	Annual Sports Fest 2024-25	Vikas Sangwan, Dr. Piyush Gupta	BIT Mesra, Jaipur Campus	7.10.2024 – 8.10.2024	Offline
5.	Summer Training Program 2024 on “Fundamentals of Machine Learning using Python, R, and Perl”	Dr. Seema Gaur	BIT MESRA Jaipur Campus	1.07.2024 –9.08.2024	Offline
6.	Summer Training Program 2024 on “Fundamentals of Machine Learning using Python, R, and Perl”	Subhash Chand Gupta	BIT MESRA Jaipur Campus	1.07.2024 –9.08. 2024	Offline
7.	Latest Trends in Cyber Security	Dr. Madan Mohan Agarwal	BIT Jaipur,	23.10.24	Offline
8.	Blockchain Governance Structures and Trust: From Theory to Practice	Dr. Madan Mohan Agarwal	AICTE	23.12.2024-28.12.2024	Online

9.	Cloud Computing- - Need and Market Requirements	Mr. Binay Kumar Singh	BIT MESRA Jaipur Campus	14.11.2024	Offline
10.	5-day online workshop on Scientific Writing using LaTeX and Publication Ethics	Dr. Jyoti Sharma	BIT Mesra	17.03.25-21.03.25	Online
11.	Remedial classes on digital system design with VHDL & Verilog	Dr. Jyoti Sharma	BIT Mesra	22.01.2025-31.01.2025	Offline
12.	Summer Training Programme on VLSI Design (STPVD-2024)	Dr. Jyoti Sharma	BIT Mesra, Off-Campus Jaipur	1.07.2024-31.07.2024 (30 Days).	Offline
13.	One Day Workshop on Intellectual Property Rights	Dr. Puneet Sharma Dr. Purvi Mathur Dr. Deepak Verma	NA	08.05.2025	Offline
14.	Impact Preneurs Pitching Event	Dr. Puneet Sharma Dr. Purvi Mathur Dr. Deepak Verma	NA	05.05.2025	Offline
15.	International workshop on Cold Plasma Technology and Applications (CPTA-2025)	Dr. Anand Kumar Srivastava Dr. Ravindra Kumar	BIT Mesra, Private Sponsors	06.02.2025 – 08.02.2025	Hybrid
16.	Summer Training on Waste Water Treatment and Protection of water resources	Dr. Ranjana Agarwal & Mrs. Nidhi Singh	BIT Mesra	05.05.2025 – 17.05.2025	Offline
17.	Winter Workshop on "Markov Chain and Hidden Markov Model" (for B.I.T Jaipur Students only)	Dr. Gurminder Singh Malhotra	BIT, Jaipur Campus	02.12.2024 – 06.12.2024	Offline
18.	Hindi Diwas	Dr. Dheeraj Bhardwaj and Dr. Anju Sharma	BIT Jaipur	14.09. 2024	Offline
19.	Bharatiya Bhasha Utsav	Dr. Dheeraj Bhardwaj and Dr. Anju Sharma	BIT Jaipur	11.12. 2024	Offline
20.	Matribhasha Diwas Celebration	Dr. Dheeraj Bhardwaj and Dr. Anju Sharma	BIT Jaipur	21.02. 2025	Offline
21.	6-Weeks Summer Training Program	Dr. R K Gothwal	BISR, Jaipur	19.05.2025	Offline
22.	4-6 Months Dissertation Program	Dr. R K Gothwal	BISR, Jaipur	01.07.2024 – 31.12.2024	Offline
23.	4-6 Months Dissertation Program	Dr. R K Gothwal	BISR, Jaipur	01.01.2025 – 30.06.2025	Offline
24.	6-Months Certificate Course on Computer Assisted Drug Design (CADD)	Dr. P S Solanki, Dr. R K Gothwal	DoHE, MoE, GoI	27.09,2024	Hybrid
25.	National Education Day Celebration	Dr. Anand Kumar Srivastava, Dr. Ranjana Agarwal, Dr. Bhawna Agarwal	BIT Jaipur Campus	11.11.2024	Offline
26.	National Science Day Celebration	Dr. Anand Kumar Srivastava	BIT Jaipur Campus	28.02.2025	Offline

27.	"Creativeverse-25" A Two Weeks Workshop Series on Animation, Visual Effects, Digital Games, Comics	Dr. Vibhuti Pandya & Dr. Rishika Sharma	BIT	24.03.2025-04.04. 2025	Offline
28.	One-week workshop on Typography Development for Comic Books	Dr. Vibhuti Pandya	NCERT, CNCL, New Delhi	23.12.2024-27.12 2024	Hybrid
29.	Summer Training on Web designing & Digital Marketing	Dr. Rishi Pandey	Self-Financed	10.07.2024 – 20.08.2024	Offline
30.	Workshop on Communication Skills for Students	Dr. Ritu Pareek	Self-Financed	04.02.2025	Offline
31.	FISCAL FRENZY QUIZ on the Union Budget 2025-26	Dr. Roopali Sharma and Dr Priyanshu Sharma	Self-financed by students	18.02.2025	Offline
32.	TechVibes-25	Gaurav Jain	BIT, Off Campus Jaipur	22.01.2025 – 23.01.2025	Offline

3.2 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Santosh Kumar Sharma	5-Day National Faculty Development Program on Research Structuring & Publication Process	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	NFED, Coimbatore, Tamil Nadu	Online	23.06.2025 - 27.06.2025
2	Santosh Kumar Sharma	5 Day International FDP on AI-Powered Tools for Enhanced Academic Research Writing	AUR-AASC	Amity University, Rajasthan	Online	23.06.2025 - 27.06.2025
3	Santosh Kumar Sharma	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 –
4	Santosh Kumar Sharma	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
5	Dr. Alok Pandey	FDP on Data Science (ML&AI)	E & ICT Academy, IIT Kanpur	E & ICT, G.O.I.	Online	26.05.2025 -
6						31.05.2025
7	Dr. Alok Pandey	FDP on Data Analytics using AI	E & ICT Academy, IIT Kanpur	E & ICT, G.O.I.	Online	09.06.2025 – 16.06.2025
8	Santosh Kumar Agarwal	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 –
9	Dr. Madhavi Sinha	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024

10	Dr. Madhavi Sinha	Generative AI & Use Cases	Electronics & ICT Academies	MeitY	Online	11.01.2025 –
11	Dr. Anju Sharma	FDP on “Python”	CSSR & SRRM DEGREE & PG COLLEGE	CSSR & SRRM DEGREE & PG COLLEGE	Online	14.10.2024 -19.10.2024
12	Dr. Anju Sharma	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 –
13	Dr. Anju Sharma	FDP on Blockchain Governance Structures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
14	Dr. Anju Sharma	FDP on “Quantum Technologies & Applications”	DST - NQM. AICTE . UGC.	DST - NQM. AICTE . UGC.	Online	28.02.2025 - 22.03.2025
15	Dr. Anju Sharma	FDP on “Quantum Computing with Machine Learning”,, organized by.	EduxLabs in association with IIT Madras	EduxLabs in association with IIT Madras	Online	02.06.2025- 06.06.2025
16	Dr. Seema Gaur	FDP on “Python”	CSSR & SRRM DEGREE & PG COLLEGE	CSSR & SRRM DEGREE & PG COLLEGE	Online	14.10.2024 -19.10.2024
17	Dr. Seema Gaur	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 –
18	Dr. Seema Gaur	FDP on Blockchain Governance Structures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
19	Dr. Seema Gaur	Python Programming for Data Analysis , Electronics & ICT 20-24 November 2024	Academy, C-DAC Hyderabad	Ministry of Electronics & Information Technology, Govt. of India,	Online	20.11.2024 –
20	Dr Seema Gaur	Women Leaders in a Tech-Driven World, Workshop	MNIT Jaipur		Offline	07.02.2025- 08.02.2025
21	Dr. Anju Sharma	Generative AI & Use Cases	Electronics & ICT Academies	MeitY	Online	11.01.2025 – 02.02.2025
22	Dr. Madhavi Sinha	NEP 2020 Orientation and Sensitization Programme	IIT Dhanbad	UGC	Online	17.02.2025 - 28.02.2025
23	Dr. Vivek Gaur	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	E BIT Mesra Jaipur	Offline	25.11.2024 - 30.11.2024
24	Dr. Piyush Gupta	5-Day National Faculty Development Program on Research Structuring & Publication Process	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	NFED, Coimbatore, Tamil Nadu	Online	23.06.2025 - 27.06.2025

25	Dr. Piyush Gupta	5 Day International FDP on AI-Powered Tools for Enhanced Academic Research Writing	AUR-AASC	Amity University, Rajasthan	Online	23.06.2025 - 27.06.2025
26	Dr. Piyush Gupta	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
27	Dr. Piyush Gupta	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training And Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 - 30.11.2024
28	Dr. Jitendra Goyal	Introduction to Generative AI Models	MHRD under the Global Initiative for Academic Networks (GIAN)	Malaviya National Institute of Technology Jaipur	Offline	23.06.25 - 27.06.25
29	Dr Pankaj Gupta	FDP on Blockchain Governance Structures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
30	Rakesh Singh	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
31	Vikas Sangwan	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training and Learning (ATAL) Academy	E BIT Mesra Jaipur	Offline	25.11.24 - 30.11.2024
32	Vikas Sangwan	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 - 28.12.2024
33	Dr. Pankaj Gupta	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 - 30.11.2024
34	Dr Archana Bhatnagar	Python Programming for Data Analysis, Electronics & ICT 20-24 November 2024	Academy, C-DAC Hyderabad	Ministry of Electronics & Information Technology, Govt. of India	Online	20.11.2024-24.11.2024
35	Dr Archana Bhatnagar	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.2024 - 30.11.2024

36	Dr Archana Bhatnagar	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 – 28.12.2024
37	Dr Archana Bhatnagar	Women Leaders in a Tech-Driven World, Workshop	MNIT Jaipur		Offline	07.02.2025 – 08.02.2025
38	Dr Archana Bhatnagar	5-Day National Faculty Development Program on Research Structuring & Publication Process	National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	NFED, Coimbatore, Tamil Nadu	Online	23.06.2025 – 27.06.2025
39	Dr. Vishwambhar Pathak	FDP on Blockchain GovernanceStructures and Trust: From Theory to Practice	BIT Mesra	AICTE	Online	23.12.2024 -28.12.2024
40	Dr. Vishwambhar Pathak	Faculty Development Programme on QT-03 Basics of Quantum Programming	Electronics & ICT Academies,	funded by MeitY	Online	16.05.2025 – 07.06.2025
41	Dr. Madan Mohan Agarwal	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 –
42						30.11.2024
43	Dr. Madan Mohan Agarwal	FDP on Blockchain Governance Structures and Trust: From Theory to Practice	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Online	23.12.2024 - 28.12.2024
44	Subhash Chand Gupta	5 Day International FDP on AI-Powered Tools for Enhanced Academic Research Writing	AUR-AASC	Amity University, Rajasthan	Online	23.06.2025 - 27.06.2025
45	Dr Smitha Jha	Invitation to Intellectual Property and Technology Transfer Workshop	AICTE	SRM Institute of Management and Technology, Modinagar	online	30.11.2024
46	Bimalendu Pathak	6-Day FDP on Generative Artificial Intelligence: Tools and Techniques	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Offline	25.11.24 - 30.11.2024
47	Bimalendu Pathak	FDP on Blockchain Governance Structures and Trust: From Theory to Practice	AICTE Training and Learning (ATAL) Academy	BIT Mesra Jaipur	Online	23.12.2024 - 28.12.2024

48	Dr. Jyoti Sharma	UHV-II Course on Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	25.12.2024-30.12. 2024
49	Dr. Jyoti Sharma	Emerging Cutting Edge Technologies in CMOS: Trends and Challenges	NIT Silchar	NIT Silchar	Online	11.12.2024 - 15.12.2024
50	Gaurav Jain	ATAL FDP Organized by BIT Jaipur Campus on "Blockchain Governance Structures and Trust: From Theory to Practice	BIT Jaipur Campus		Online	23.12.2024 –28.12.2024
51	Gaurav Jain	Attend FDP OF 40 HOURS (3-Credits equivalent) on "BASICS Of Quantum programming" Organized By from.	EICT MNIT, Jaipur	EICT MNIT, Jaipur	MNIT, Jaipur	6.05.2025-07.06.2025
52	Snehanshu Shekhar	Semiconductor devices circuits and sensors: applications and research prospectives	EICT Academy, NIT Patna, IIITDM Jabalpur, MNIT Jaipur, IIT Kanpur and IIT Roorkee	Ministry of Electronics and Information Technology (MeitY), Government of India	Online	09.06.2025-20.06. 2025
53	Ankur Agarwal	Physical Design and Verification Internship – PD16. (Internship Training Program)	Cadence Certified Training Partner, Entuple Technologies	MeitY	Online	13.06.2024 - 18.07.2024
54	Ankur Agarwal	Remote Sensing and Digital Image Analysis	ISRO.IIRS Dehradun	MeitY	Online	27.08.2024-20.09.2024
55	Ankur Agarwal	Advanced Optimization Technique using MATLAB	MeitY. AICTE. UGC	Ministry of Electronics and Information Technology (MeitY), Government of India	Online	17.02.2025 – 28.02.2025
56	Ankur Agarwal	Inculcating Universal Human Values in Technical Education (UHV-I)	AICTE	MeitY	Online	20.01.2025 - 24.01.2025
57	Ankur Agarwal	AI in Medical Imaging and Diagnostics: Current Trends and Challenges (3-Credits equivalent)	MeitY and endorsed by AICTE.UGC	MeitY	Online	01.05.2025 - 12.05. 2025
58	Ankur Agarwal	QT-03 Basics of Quantum Programming. (3-Credits equivalent)	MeitY and endorsed by AICTE.UGC	MeitY	Online	16.05.2025 -07.06.2025

59	Ankur Agarwal	Numerical Methods, Computation and Optimization using C and MATLAB Programming Language. (3-Credits equivalent).	MeitY and endorsed by AICTE.UGC	MeitY	Online	09.06.2025 - 17.06. 2025
60	Dr. Deepak Verma	AICTE and MIC supported 5-Day Faculty Development Programme (FDP) on Innovation and Entrepreneurship	EICT Academy, NIT Patna, IIITDM Jabalpur, MNIT Jaipur, IIT Kanpur and IIT Roorkee	MNIT Jaipur	MNIT Jaipur	21.04.2025 -25.04.2025
61	Dr. Deepak Verma	NEAT 4.0 Awareness Webinar	AICTE (All India Council for Technical Education) – NEAT Cell		Online	08.04.2025
62	Dr. Dheeraj Bhardwaj	FDP on Demystifying Personal Finance: How to Think and Invest Like a Pro.	Department of Management Studies, SKIT, Jaipur	SKIT, Jaipur	Online	19.05.2025 - 23.05.2025
63	Bhawna Agarwal	Five day workshop on "Mathematical Technique and Research Innovation in Interdisciplinary Application"-e-MATRICA 2025	National Institute of Technology, Hamirpur (H.P)		Online	19.05.2025 - 23.05.2025
64	Bhawna Agarwal	FDP on "Block chain Governance structures and trust"	BIT Jaipur Campus and AICTE ATAL Academy		Online	23.12.2024 -28.12.2024
65	Dr. Rajni Agarwal	International Conference on Multi-disciplinary perspective in Science & Humanities Recent Trends & Innovation (ICMPSH - 2025)"	Arya Engineering College, Jaipur, Department of Basic Science & Humanities	Arya Engineering College, Jaipur	Arya College of Engineering &IT, Kukas, Jaipur,	16.05.2025 -17.05.2025
66	Dr. Rajni Agarwal	National Faculty Development Programme (NFDP) on Research Structuring & Publication Process	EICT Academy, NIT Patna, IIITDM Jabalpur, MNIT Jaipur, IIT Kanpur and IIT Roorkee	Centre for Research & Training, National Foundation for Entrepreneurship Development (NFED) Coimbatore, Tamil Nadu	Online	23.06.2025 – 27.06.2025
67	Dr. Ravindra Kumar	Malviya Mission NEP 2020 Orientation & Sensitization Programme	IISER Pune	UGC	Online	27.05.2025 -04.06.2025
68	Dr. Ravindra Kumar	FDP on Innovative Teaching and Learning Pedagogy	Research Foundation of India	Research Foundation of India	Online	18.06.2025 - 24.06.2025
69	Dr. I.K. Dadheech	Five-day workshop on "Mathematical Technique and Research Innovation in Interdisciplinary Application"-e-MATRICA 2025	National Institute of Technology, Hamirpur (H.P)	-	Online	19.05.2025 - 23.05.2025

70		5-day FDP on AI and its Applications in Research.	JSPM Rajshree College of Engg.	ATAL Academy	Online	20.01.2025 – 25.01.2025
71	Dr. Anand Kumar Srivastava	Malviya Mission NEP 2020 Orientation & Sensitization Programme	IISER Pune	UGC	Online	27.05.2025 -04.06.2025
72	Dr. Anand Kumar Srivastava	FDP on Innovative Teaching and Learning Pedagogy	Research Foundation of India	Research Foundation of India	Online	18.06.2025 - 24.06.2025
73	Dr. Anand Kumar Srivastava	Ansys Academic and Research Innovation Conference	CADFEM, India	CADFEM, India and Ansys.	Jaipur	18.07.2025
74	Dr. Purvi Mathur	5th International Conference on "Navigating Complexity: Harnessing Technology and Innovation for Sustainable Growth"(ICNC-2025)	Poornima University, Jaipur	Self	Offline	18.03.2025-19.03.2025
75	Dr. Purvi Mathur	Management Education and Research Colloquium	IIM Kashipur	Birla Institute of Technology, Mesra	Offline	23.05.2025-25.05.2025
76	Dr. Purvi Mathur	Atal FDP on Blockchain Governance	Birla Institute of Technology, Mesra, Jaipur Campus	All India Council for Technical Education (AICTE)	Online	23.12.2024-28.12.2024
77	Dr. Purvi Mathur	Innovation and Entrepreneurship	The Ministry of Education's Innovation Cell (MIC), MNIT, Jaipur	All India Council for Technical Education (AICTE) and the Ministry of Education's Innovation Cell (MIC)	Offline	21.04.2025-25.04.2025
78	Dr. Purvi Mathur	"Research Structuring & Publication Process"	CRT, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu	Self	Online	23.06.2025-27.06.2025
79	Dr. Purvi Mathur	Workshop on Women Leader in Tech Driven World	MNIT, Jaipur	MNIT, Jaipur	Offline	07.02.2025 - 08.02.2025.
80	Dr. Purvi Mathur	The Economic Times Rajasthan Business Summit 2024	Economics Times	Economics Times	Offline	05.09.2024 - 06.09.2024
81	Dr. Roopali Sharma	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme of UGC	Indian Institute of Technology (ISM), Dhanbad	Indian Institute of Technology (ISM), Dhanbad	Online	17.02.2025 -28.02.2025

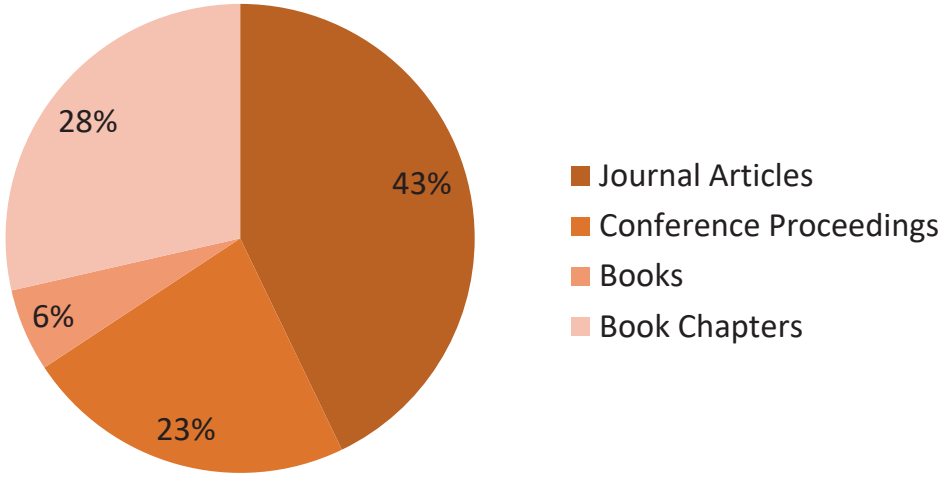
82	Dr. Ritu Pareek	International conference on Psychosocial Challenges Among Women with PCOS 2025	Indian Institute of Technology, Bombay	Indian Institute of Technology, Bombay	Offline	26.02.2025 - 28.02 .2025
83	Dr. Priyanshu Sharma	Atal FDP on Blockchain Governance	Birla Institute of Technology, Mesra, Jaipur Campus	All India Council for Technical Education (AICTE)	Online	23.12.2024-28.12.2024
84	Gautam Kumar Goswami	UHV 1	AICTE	AICTE	Online	22.01.2025 - 24.01.2025
85	Gautam Kumar Goswami	Rajasthan Business Summit 2024	Economic Times	Economic Times	Jaipur Marriott Hotel	05.09.2024 - 06.09.2024
86	Manish Kumar	Rajasthan Business Summit 2024	Economic Times	Economic Times	Jaipur Marriott Hotel	05.09.2024 - 06.09 2024
87	Gaurav Choudhary	Rajasthan Business Summit 2024	Economic Times	Economic Times	Jaipur Marriott Hotel	05.09.2024 - 06.09 2024
88	Dr. Rishika Sharma	International FDP on "AI-Powered tools for enhanced Academic research writing"	Amity university, Rajasthan	Self	Online	23.6.2025 – 27.6.2025

SECTION 4 — RESEARCH PUBLICATIONS

Publication Data

Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
30	16	4	20

Publication Data 1.01.2024-31.12.2024



SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

Sr. No.	Name of the Faculty Member	Title of the Award/ Honour	Organisation	State /National / International Level	Year / Duration
1	Santosh Kumar Sharma	Shiksha Ratna Award 2025	Taxila Business School, Jaipur	National	2024
2	Dr. Piyush Gupta	Shiksha Ratna Award 2025	Taxila Business School, Jaipur	National	2024
3	Dr. Piyush Gupta	Member, Advisory Board	4th IEEE Conference IDBA-2024	International	2024
4	Dr. Jyoti Sharma	Senior Member, IEEE	IEEE	International	2025
5	Dr. Anand Kumar Srivastava	Invited Talk on Plasma Science & Technology at Department of Physics, Rajasthan University, Jaipur, 5.12.2024.	Rajasthan University, Jaipur	State	2024
6	Dr. Purvi Mathur	Best Paper Award	Poornima University, Jaipur	5th International Conference on "Navigating Complexity: Harnessing Technology and Innovation for Sustainable Growth"(ICNC-2025)	2025
7	Dr. Purvi Mathur	Speaker	Birla Institute of Technology, Mesra, Jaipur Campus	The summer training program on "Wastewater Treatment and Protection of Water Resources" from 5th May-17th May 2025	2025
8	Dr. Roopali Sharma	Keynote Speaker	Institute of Information Technology & Management (IITM) Janakpuri, New Delhi	International Virtual Conference on Research and Innovations in Artificial Intelligence, Environment, Management & Sustainability (ICAIEMS - VIRTUAL 2025)	Jul-05
9	Dr. Deepak Verma	Recognised amongst top scientists, Indian Ranking: 19,427. In BIT: 48	AD Scientific Index World Scientist and University Rankings 2025	International Level	2025
10	Dr. Deepak Verma	Accomplishment of crossing 1000 citations	Citation in Google Scholar	International	2025
11	Dr. Rishika Sharma	Recognized for outstanding contributions in Education.	Man ki Khushi Foundation	State	2025

5.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent (Max 50 words)
1	Dr. Piyush Gupta, Dr Archana Bhatnagar & Dr. Seema Gaur	Cloud Computing Adoption, IT Management Strategies and Organisational Implications	India, 202511028329	2025	Published	The embodiments of the present invention generally relate to the field of cloud computing adoption and IT management strategies, specifically focusing on the integration of cloud
2	Dr. Vishwambhar Pathak [Applicant: BIT Mesra]	Method And System For Identifying Neurological Pattern And Prognostic Management	India: 202431051099	2024	Published	The disclosure relates to a system and method for enabling real-time prediction of neurological disorder and protective/ preventive care procedures of a patient.
3	Puneet Sharma, Atul Kumar Sharma, Dr. Ritu Sharma, Dr. Vijay Janyani, Dr. Jyoti Sharma	Method for Fabricating Flexible Strain-Sensor for Respiration Rate Detection and a Flexible Strain-Sensor Device Thereof	202411056347 /563392	2025	Granted	Method for Fabricating Flexible Strain-Sensor for Respiration Rate Detection and a Flexible Strain-Sensor Device
4	Puneet Sharma, Atul Kumar Sharma, Dr. Ritu Sharma, Anoop Kumar Sharma, Shurbhi Singh.	A PDMS-Based Graphene/PANI/ Graphene (G-P-G) Sandwich Transparent Conducting Flexible Sensor Device and Its Fabrication Method Thereof	202411037200	2024	Granted	A PDMS-Based Graphene/ PANI/Graphene (G-P-G) Sandwich Transparent Conducting Flexible Sensor Device and Its Fabrication Method
5	Dr. Purvi Mathur, Dr. Anju Sharma, Dr. Seema Gaur, Ms. Nidhi Singh, Harshal Sharma, Jyotirmya Sharma, Akshat Malik, Madhav Modi, and Shashank Rahoriya	"Efficient Food Donation and Distribution Device"	Design Application No.: 461413-001	2025	Applied	The design patent for the SFDP (Smart Food Distribution Platform) application encompasses a visually distinctive, user-friendly interface layout comprising three dedicated user endpoints - Donor, Receiver, and Logistic Partner—integrated into a single, seamless mobile application. The design features a dashboard-style homepage with intuitive icons, color-coded action tabs, and geolocation-based interactive maps for real-time coordination.

6	Dr. Dheeraj Bhardwaj et.al.	Design of Microstrip Patch Antenna Inspired by Spiritual Exotic Om Shape for Satellite Communications	Application No.- 202411068116	2024	Published	The antenna achieves compact size, improved gain, and wide bandwidth through its innovative geometry. It demonstrates the fusion of engineering design with spiritual symbolism for nextgeneration communication systems.
8	Dr. Madhavi Sinha, Dr. Roopali Sharma, Dr. Anju Sharma, Dr. Purvi Mathur, Dr. Priyanshu Sharma, Dr. Radhika Choudhary Kureel, Dr. Prannath Singh Yadav, and Sehrish Javaid	"AI based sustainable finance management device"	Design Application No.: 457786-001	2025	Applied	The AI-Based Sustainable Finance Management Device is an innovative, user-friendly tool designed to empower individuals and households to manage their finances sustainably. This compact device leverages artificial intelligence to provide real-time insights into spending, saving, and budgeting, while promoting eco-conscious financial decisions.
9	Dr. Deepak Verma	Solar Powered Smart Helmet For Traffic Police	Indian Patent Design No.: 423455-001, Date : 17/07/2024	2024	Granted	Design has been registered entitled solar-powered smart helmet for traffic police
10	Dr. Sanjay Gour, Dr. Rishi Pandey, Dr. Jhankar Moolchandani, Dr. Ritu Pareek, and Dr. Anju Sharma	AI-based Product Identifying and Billing Device	6413778	2025	Granted	Design 6413778 is an AI-based product identifying and billing device, registered in the UK on 26 December 2024.

SECTION 6 FACULTY MEMBERS

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1	Dr. Alok Pandey	Assistant Professor	Computer Networks, Cyber Security, Network Security, IoT, E-Com	PhD	01.01.2005
2	Santosh Kumar Sharma	Assistant Professor	Software Engineering, Machine Learning	M.Tech , MBA, Pursuing (Ph.D)	25.02.2009
3	Santosh Kumar Agarwal	Assistant Professor	Data Structure, Computer Architecture, Artificial Intelligence	MCA Pursuing PhD	08.02.2005

4	Dr Smitha Jha	Assistant Professor	Soft Computing,ML, Gen AI	PhD	5.12.2001
5	Dr. Anju Sharma	Assistant Professor	Networking, Distributed Database System, AI	PhD	22.07.2005
6	Dr. Madhavi Sinha	Associate Professor	Intelligent Systems, Algorithms	PhD	01.08.2007
7	Dr. Jitendra Goyal	Assistant Professor	Blockchain, Cyber Security, Cryptography, IoT	PhD	06.01.2025
8	Prem Kumar Sharma	Assistant Professor	Simulation and Modeling,	M. Tech(CS)	01.07.2002
9	Dr. Piyush Gupta	Assistant Professor	Cloud Computing and RDBMS	PhD	09.09.2003
10	Vikas Sangwan	Assistant Professor	Mechanical Engineering Subjects	PhD pursuing	09.01.2009
11	Dr. Seema Gaur	Assistant Professor	Data Science, Database, Computer Graphics, Computer Architecture	PhD	04.07.2005
12	Dr. Pankaj Gupta	Assistant Professor	Database, Data Mining, Comp. Arch. AI & Data Sci.	PhD	05.07.2002
13	Rakesh Singh	Assistant Professor	Computer Networks	PhD (Pursuing)	06.09.2006
14	Dr Archana Bhatnagar	Assistant Professor	Software Engineering, Algorithms, Data Science	PhD	01.07.2003
15	Dr. Vishwambhar Pathak	Assistant Professor	Deep Learning, Data Science	PhD	16.09.2005
16	Dr. Madan Mohan Agarwal	Assistant Professor	Theory of Computation, Data Structures, Compiler Design	PhD	09.09.2008
17	Dr. Vivek Gaur	Assistant Professor	Distributed Systems, Cloud Computing	PhD	04.03.2002
18	Dr. Shripal Vijayvargiya	Associate Professor	Soft Computing, Machine Learning	PhD	08.03.2003
19	Subhash Chand Gupta	Assistant Professor	Machine learning Soft Computing	B.E., M.Tech. Ph.D. (Pursuing)	20.01.2005
20	Bimalendu Pathak	Assistant Professor	Biometric System Design	MCA, Ph.D. (Pursuing)	18.10.2000
21	Binay Kumar Singh	Assistant Professor	Spatial Analysis Modelling, AI and Machine Learning	BE, M.Tech. Ph.D.(Pursuing)	01.03.2003
22	Aruna Malik	Assistant Professor	Web Algorithm, Principle of Programming Languages, Theoretical Computer Science	MCA, M.TECH(CSE) M.TECH(CSE)	05.08.2005
23	Mr. Deepak Chaturvedi	Assistant Professor	Microwave Engineering	PhD (Pursuing), M.E.	24.09.2009
24	Mr. Gaurav Jain	Assistant Professor	Digital Communication	PhD (Pursuing), M.E.	12.10.2010
25	Mr. Snehanshu Shekhar	Assistant Professor	Intelligent Instrumentation, Microprocessors and Microcontrollers	PhD (Pursuing), M.E, M.S (Research),	21.09.2011

26	Dr. Jyoti Sharma	Assistant Professor	VLSI	PhD	18.03.2010
27	Dr. Puneet Sharma	Assistant Professor	Flexible Sensors	PhD	01.02.2010
28	Mr. Ankur Agarwal	Assistant Professor	Signal Processing	M.Tech PhD (Pursuing),	24.02.2015
29	Dr. Prashant Singh Rathore	Assistant Professor	Renewable Energy	Ph.D.	02.03.2006
30	Dr. Aparajita Pandey	Assistant Professor	Cyber Securities	Ph.D.	28.01.2005
31	Dr. Deepak Verma	Assistant Professor	Power Electronics Applications in RE, BMS	Ph.D.	09.06.2017
32	Dr. Anand Kumar Srivastava	Associate Professor and In-Charge, Sciences	Plasma Physics, Plasma Appl.	PhD	03.11.2009
33	Dr. Gurminder Singh	Associate Professor	Heat and Mass Transfer in Boundary Layer	PhD	01.07.2004
34	Dr. Ranjana Agarwal	Assistant Professor	Water Analysis and Envl. Pollution	PhD	01.05.2009
35 36	Dr. Dheeraj Bhardwaj	Assistant Professor	RF, Microwave, Antenna	Ph.D.	15.9.2015
37	Dr. I K Dadheech	Assistant Professor	Fluid Dynamics	PhD	02.01.2006
38	Dr. Bhawna Agarwal	Assistant Professor	Fluid Dynamics	PhD	21.03.2009
39	Dr. Ravindra Kumar	Assistant Professor	Plasma Based Surface mod.	PhD	01.09.2008
40	Dr. R K Gothwal	Assistant Professor	Microbial Biotech.	PhD	01.08.2009
41	Dr. P S Solanki	Assistant Professor	Bioinfor -matics	PhD	01.08.2009
42	Dr. Rajni Agarwal	Assistant Professor	Water Pollution	PhD	01.04.2003
43	Mrs. Nidhi Singh	Assistant Professor	Water Pollution	MSc (Life Sciences)	08.05.2006
	Dr. Purvi Mathur	Assistant Professor	Marketing	MBA, Ph.D	18.03.2010
44	Dr. Ritu Pareek	Assistant Professor	Business Communication, Technical English	Ph.D, M.Phil,	15.04.2009
	Dr Priyanshu Sharma	Assistant Professor	Finance	MBA, Ph.D	01.11.2009
45	Dr. Jyoti Kumar Chandel	Assistant Professor	Marketing	MBA, Ph. D.	4.7.2002
46	Dr. Roopali Sharma	Professor	International Business & Finance	Ph.D	09.12.2006
47	Dr. Vibhuti Pandya	Assistant Professor	Digital Animation	PhD, Masters of Drawing & Painting	04.01.2006
48	Mr. Gautam Kumar Goswami	Assistant Professor	Digital Sculpting	Master of Fine Arts in Plastic Arts	05.11.2007
49	Mr. Gaurav Choudhary	Assistant Professor	Digital Art	Master in Animation Design	24.06.2026
50	Mr. Manish Kumar	Assistant Professor	Digital 3D Modeling & Texturing	Master in Animation Design	06.01.2009
51	Dr. Rishika Sharma	Assistant Professor	Drawing & Paintings, Multimedia & Graphic designing	Ph.D	04.04.2009
52	Mr. Obed Longvah	Cinematographer	Cinematographer	PG in Mass Communication	01.07.2006

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Sheetal Kumar Sharma	Visiting Faculty (Yoga)	MO-2025

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman. Internal or External Member)
1	Dr. Madhavi Sinha	Member	Internal
2	Dr. Madhavi Sinha	Member (VGU University, Jaipur)	External
3	Dr. Madan Mohan Agarwal	Member (VGU University, Jaipur)	External
4	Dr. Madan Mohan Agarwal	Member (National Sanskrit University, Jaipur)	External
5	Dr. Madan Mohan Agarwal	Member (RTU University, Kota)	Academic Council
6	Dr. Piyush Gupta	Member, Greater Noida Institute of Technology, Noida	External Member, Academic Council
7	Dr. Prashant Singh Rathore	Member BoS, EEE Dept.	Internal
8	Dr. Prashant Singh Rathore	Member BoS, ECE Dept.	Internal
9	Dr. Roopali Sharma	Member	External Member, Department of Management Studies, Arya College of Engineering & Information Technology, Jaipur.
10	Dr. Ritu Pareek	Member	Internal Member of Department of Humanities & Social Sciences, Mesra
11	Dr. Vibhuti Pandya	Member	Internal Member
12	Mr. Gautam Kumar Goswami	Member	Internal Member

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Duration
1.	Summer Internship on Design and Development of Microstrip Antenna using Machine Learning	----	Dr. Dheeraj Bhardwaj	02.06.2025 - 27.06.2025
2	Research Paper Publication -Virtual Reality and the Future of Immersive Game Illustrations	Jyoti Shukla	Dr. Rishika Sharma	13.06.2025
3	Tech, Bio and Business Synergy Exploration at BISR Jaipur	Pallawi Singh, Anisha Motwani	Snehanshu Shekhar, Gaurav Jain, R K Gothwal	31.01.2025
4	Innofusion: Multi-Disciplinary Innovation & Pitch Competition	Pallawi Singh, Anisha Motwani, Yashwardhan	Snehanshu Shekhar	17.01.2025
5	Research Paper Publication -Changes in 3D animation in India from early 2010s to 2024	Urshita Tandon	Dr. Rishika Sharma	10.01.2025
6	IETE Foundation Day	Anisha Motwani	Snehanshu Shekhar	07.11.2024

7	Departmental T&P coordinator	Lavin Rawat (Roll No BTECH/25084/21)	Dr. Aparajita Pandey	02.01, 2024 – 30.04.2025
8	Educational Trip to Udaipur	Ananya Soni & Shivam Parsai	Dr. Rishika Sharma & Mr. Manish Chaudhary	30.09.2024 - 02.10.2024

7.2 Entrepreneurship / Startups

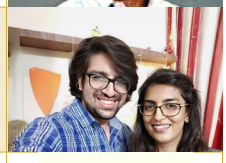
Sr. No.	Student Name	Funding Source	Title	Description
1	Tanishq Singh Rajawat	BOOTSTRAPPED	RDS CORP	Providing SAAS and Custom Software development solutions and services

7.3 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1	Jatin Charan B.Tech (CSE)	GATE AIR 680	GATE	April, 2025	NA
2	Lavin Rawat B.Tech (ECE)	GATE Rank 8472 AIR 2025, 7870 AIR in 2024.	GATE	NA	NA
3	Janhvi Taneja, Ayushi Kasera, Siddhi Gandhi, Khushi Jain, Priyanka Gupta, Angelina Arupa Kerketta, and Akshita Khandelwal (Students of B.Sc. Animation & Multimedia and M.Sc. Animation Design)	The short animation film 'Sanvedana', has received the Special Jury Mention Award atJaipur International Film Festival (JIFF) 2025.	Jaipur International Film Festival-2025	18.01.2025	Rajasthan International Centre, Jaipur
4	Kushagra Bakhtiani, Lavina Devnani, Avantika Sharma & Disha Gupta	Best Paper Award	5th International Conference on "Navigating Complexity: Harnessing Technology and Innovation for Sustainable Growth" (ICNC-2025)	18.03.2025 -19.03.2025	Poornima University, Jaipur
5	Avika Sharma and Yashika Agarwal	Research Paper Publication "Total Quality Management (TQM) in the Indian Retail Industry to enhance Customer Satisfaction in context to Rajasthan region (Marwari Business Hub)",	Journal of Information Systems Engineering and Management, e-ISSN: 2468-4376, Vol 10 (2025), (SCOPUS INDEXED and Q3)	03.03.2025	
6	Kushagra Bakhtiani, Lavina Devnani, Avantika Sharma & Disha Gupta	Research Paper Presentation "Online Food Applications 5.0 Triggered Indian Teenagers: In Home Exotic Restaurant Experience"	5th International Conference on Navigating Complexity: Harnessing Technology and Innovation for Sustainable Growth (ICNC-2025)	19.03.2025	Poornima UniversityJaipur

SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date (DD.MM.YYYY)	Photos
1	Professor Dr. Pam Litvik, Associate Dean of Research Resources at Columbia University, USA	The Department of Animation & Multimedia, BIT Jaipur, will collaborate on two animated short films addressing air pollution for Columbia University, USA.	Animation & Multimedia Dept. BIT Jaipur	04.03.2025	
2	Saket Singh	Senior Vice President Tech Mahindra	BIT Mesra Off-Campus Jaipur	14.11.2024	
3	Prof. Ashutosh Sharma	INSA President,	BIT Mesra Off-Campus Jaipur	24.01.2025	
4	Dr. Amit Mahesh Joshi	Associate Professor, Dept. of ECE, MNIT, Jaipur	BIT Off-Campus Jaipur	21.01.2025-22.01.2025	
5	Prof. K S Ganesh Prasad	Institute of Advanced Research, Gandhinagar, Gujarat	Dr. Anand Kumar Srivastava	06.02.2025	
6	Manish Purohit and Bhavya Purohit	Nimbus Education	BIT Mesra Off-Campus Jaipur	27.07.2024	
7	Prof. Ashok Sheron	Department of Faculty Affairs, BIT Mesra.	BIT Mesra Off-Campus Jaipur	01.10.2024	
8	Sumit Srivastawa	Founder & CEO, Startup Chaupal (an Integrated Platform for Startups)	Entrepreneurship and Start up Cell, BIT Mesra Off-Campus Jaipur	23.10.2024	
9	Aman Goyal	Founder, Jouls Ecotech.	Entrepreneurship and Start up Cell, BIT Mesra Off-Campus Jaipur	13.01.2025	
10	Prof. N Venkatramani	Aditya High Vacuum Pvt. Ltd., Ahmedabad	Dr. Anand Kumar Srivastava	07.02.2025	

11	Dr. Menka Yadav	Assistant Professor Dept. of ECE, MNIT, Jaipur	BIT Off-Campus Jaipur	02.05.2025	
12	Dr. Ritesh Kumar Singh	Controller of Examination, BIT Mesra.	BIT Mesra Off-Campus Jaipur	28.04.2025	
13	Prof. Puneet Sharma	Media Advisor, Smart India Hakathon, AICTE	BIT Mesra Off-Campus Jaipur	08.03.2025	
14	Prof. Tapan Bhatt	Actor and Writer	Department of Animation and Multimedia, BIT Mesra Off-Campus Jaipur	25.03.2025	
15	Dr. LP Singh	Director General, National Council For Cement and Building Materials, India	BIT Mesra Off-Campus Jaipur	06.03.2025	
16	Prof. S.K Singh	Vice Chancellor, Rajasthan Technical, University, Kota, Rajasthan	BIT Mesra Off-Campus Jaipur	27.01.2025	
17	Dr. Sanjeew kumar singh	Sr. Principal Scientist,	CBRI Roorkee	05.03.2025	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1.	Mr. Abhilash Dubey	Global Foundries	Principal Engineer Design Establishment	
2.	Mr. Ashutosh Agarwal	SAP Labs India	Developer	

3.	Dr. Gaurangi Gupta	NASA Jet Propulsion Laboratory	RF Microwave Engineer	

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area /Short Description	Year / Duration
1.	Drishti iHub, IIT Jodhpur,	This initiative marks a significant step towards strengthening academic and industry collaboration in the fields of Animation and Digital Games.	2025
2.	Rajasthan Urban Drinking Water Sewerage & Infrastructure Corporation Limited (RUDSICO)	Women Internship Program with BIT Students	November, 2024

8.5 Industry Connect

Exposure to plant operation: Visited to Mangalam Cement Ltd. Kota, 15.10.2025

- Industrial Visit to MK Polytech, Kota, 16.10.2025
- Industrial Collaborations with Syngient Technologies (P) Ltd, for proposal entitled "Design and Fabrication of Flexible Sensors for Next-Generation EV Battery Protection: Detecting and Preventing Shape Deformations", for providing a grant funding of INR 55,39,293/- in cash and INR 10,00,000/- in kind. Proposal submitted to ANRF MAHA EV mission of Rs 5,53,92,930/- (Current Status: Rejected in final Stage).
- Over the past year, the Department of Animation & Multimedia, BIT Jaipur, has actively worked to strengthen industry collaboration. A major initiative was the workshop organized in association with The Animation Society of India on 30th November 2024 in Jaipur, where students and faculty interacted with renowned professionals including Mr. Sanjiv Waeerkar, Mr. Virendra Patil, Mr. Saumin Patel, and Ms. Shaheen Sheriff.
- The department is also closely associated with RAMA (Rising AVGC-XR & Media Association, Rajasthan). During Rajasthan IT Day on 28th March 2025, faculty members and students had valuable interactions with leading industry figures such as Mr. Ashish Kulkarni (Chairman, FICCI AVGC-XR Forum), Mr. Sameer Jain (CEO, Primus Partners), Mr. Srinivas Sribhakta (CEO, VedAtma Animation Studios), Mr. Rajeev Tamhankar (Head, Pratilipi Comics and Animation), Mr. Harsho Mohan (Graphic Novelist), and Mr. Vara Prasad (Founder & Creative Director, Great Funs Movies). These efforts reflect the department's ongoing commitment to bridging academia and industry in the fields of animation and digital media.

SECTION 9		INFRASTRUCTURE DEVELOPMENT

8.1 New Facilities Upgradation

- Embedded Systems Laboratory setup in the ECE Department as per the new course curriculum (CS-338) in SP-25.
- Flexible sensor lab for research.

8.2 IT Upgrades

(No. of computers available for student use in the department in a brief paragraph)

A total of 424 computers are available for students' use for institutional purposes. This ensures that students and faculty have ample access to the necessary technology and resources to support their academic work and learning activities on campus. Access to these computers can facilitate research, assignments, and other educational needs, enhancing the overall learning experience.

SECTION 10		FUTURE PLANS (2025-26)

In the academic year 2025–26, the Department of Electrical and Electronics Engineering plans to propose and support value-added and interdisciplinary learning opportunities in emerging areas such as flexible electronics, electric mobility, and AI applications in power systems. The department will also focus on strengthening research in EV battery management, sensor integration, and smart grid systems. A proposal for establishing an Industry-Sponsored Lab on Flexible Sensors and BMS is in the pipeline to boost hands-on learning and research translation. The department also aims to sign new MoUs with industries and research organizations to foster collaborative research and provide internship opportunities to students. In the academic year 2025–26, the BIT Off campus Jaipur plans to start B. Sc. (Business Analytics), B.Sc. (AI-ML and DS), M.Sc. (AI-ML and DS) & B.Sc. (Visual Communication).

BIT Off-Campus Noida

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Off-Campus

Birla Institute of Technology, Mesra (Deemed to be University), Noida Campus is one of the leading UGC and AICTE approved Technical University in the National Capital Region in the State of Uttar Pradesh. Established in the year 1997, the Institution has consistently set benchmarks every year evolving into a center of Excellence in Technical Education. Located at the entrance of NOIDA, BIT Noida Campus is renowned for its excellence in Discipline, Quality of Teaching Learning Process, Training & Placement, and Internships. Its strong academic tradition has always attracted the most talented students who have gone on to make significant contributions to society.

Facilities Provided

- Classrooms are equipped with Smart Interactive panels, LCD Projectors and AC to foster effective learning.
- The Institute has a well-stocked library with more than 15000 volumes on various subjects along with the latest editions of prescribed books, several periodicals, journals and high-value books to give the students a winning edge.
- The campus promotes holistic personality development of students by providing ample space for their recreational activities like a Canteen, Auditorium, Table Tennis space, and badminton, a centralised college computer center and fully equipped labs.
- The campus is well equipped with e-journals (Emerald, ProQuest ABI Complete, Pro Quest Dissertations & Thesis, Science Direct), research software like MATLAB and a dedicated internet facility for the research scholars.
- With a seating capacity of 180 and state-of-the-art facilities, the renovated auditorium serves as a modern hub for academic and cultural engagements.

Department: Management Studies

Established in 1998, the Department of Management Studies was founded with the vision to cater to the growing demand for qualified management professionals and to meet the dynamic requirements of the industry. The department is committed to academic excellence across its Undergraduate, Postgraduate, and Doctoral programmes, continuously striving to uphold the highest standards in management education. Located at the strategically positioned BIT Noida Campus, students benefit from the proximity to Delhi and its vibrant corporate ecosystem, ensuring seamless access to industry interactions and opportunities. Embracing a student-centric, outcome-based education model, the department employs innovative pedagogy including case study discussions, role-plays, brainstorming sessions, and management games. These methodologies are aimed at fostering critical thinking, problem-solving, and decision-making capabilities. In alignment with the National Education Policy (NEP), the curriculum offers flexibility, a wide array of elective choices, and multiple entry-exit options, ensuring holistic learning and the attainment of well-defined learning outcomes in the field of management.

Department: Computer Science and Applications

The Department of Computer Science and Applications endeavours to be an important regional, national, and international resource centre for the development of computing, IT systems and applications. The Department is recognized as one of the leading departments with infrastructure and facilities to match the very best in the country. The department remains committed towards its mission, which is twofold. One is to provide students with the fundamental knowledge and problem-solving skills in Computer Science required for a fulfilling career. The other goal is to create and disseminate knowledge to improve Computer Science research, education and practice. The department is committed to academic excellence across its Undergraduate, Postgraduate, and Doctoral programmes, continuously striving to uphold the highest standards in management education. Located at the strategically positioned BIT Noida Campus, students benefit from the proximity to Delhi and its vibrant corporate ecosystem, ensuring seamless access to industry interactions and opportunities.

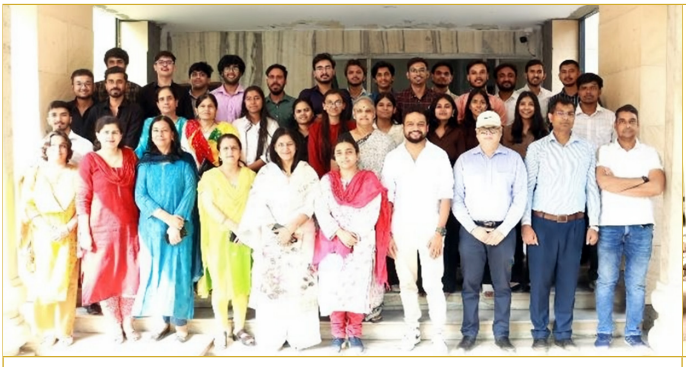
Department: Animation and Multimedia

BIT is the pioneer University to start Animation and Multimedia Under- graduate courses in India. The B.Sc. The Animation and Multimedia programme was started under University Grants Commission of India's Innovative Program Scheme in the year 2004.

After 21 years of existence, the Department of Animation and Multimedia, Noida campus is the proud home of many achievements and firsts. This wide acceptance of the program is a result of the unique curriculum in accordance with National Education Policy Guidelines 2020. Apart from being the first institution to offer a degree programme in Animation and Multimedia in our country, the department has consistently been rated as the best Animation and Multimedia school in the NCR by the Hindustan Times and other survey engines since 2010. On a Pan Indian rating scale our department proudly ranks with the likes of IDC IIT Bombay, NID Ahmedabad and so on. Further, the pedagogy does not remain confined either to the classrooms or the computer workstations but entails the students to actively participate in rigorous field studies and action research.

The department offers state-of-the-art facilities including high-end computer labs with industry-standard software, a 2D drawing lab with light boxes and mannequins, a film studio with professional equipment, and a dedicated production lab for projects and research.

BATCH PHOTOS:



MCA 2023-25

MBA 2023-25

BAM 2022-25

BCA 2022-25

BBA 2022-25

1.2 Vision & Mission

- Vision:

To become a globally recognized academic institution in consonance with the social, economic and ecological

environment, striving continuously for excellence in education, research and technological service to the national needs.

- Mission:
  - To educate students at Undergraduate, Post Graduate, Doctoral and Post Doctoral levels to perform challenging engineering and managerial jobs in industry.
  - To provide excellent research and development facilities to take up Ph.D programmes and research projects.
  - To develop effective teaching and learning skills and state-of-the-art research potential of the faculty.
  - To build national capabilities in technology, education and research in emerging areas.
  - To provide excellent technological services to satisfy the requirements of the industry and overall academic needs of society.

1.3 Key Achievements

- **Student Achievements:**

Master of Business Administration

- MBA/45021/23 Kushal Bhadani placed with DTSS (SIS Group)- package 8 lakh/annum

- **Master of Computer Applications**
  - Nine MCA students were selected by Teachnook with a package of 9 LPA.
  - Startup: MCA student Prajwal Arora has started his company Doozer Studio: Doozer Studio, founded by our MCA student Prajwal Arora along with Priyanshu Bir, is a creative agency that specializes in crafting innovative and strategic digital solutions for businesses. They offer a comprehensive suite of services, including expert website and app design (UI/UX) and development across various technologies like React, NextJS, and Flutter. Their work extends to social media marketing and management, performance marketing with platforms like Google and Meta Ads, and search engine optimization (SEO) to enhance online visibility. Additionally, they provide a full range of graphic design services, from logo creation and branding to print media and illustrations. They also excel in content creation, offering services such as SEO-optimized blog writing, ad copywriting, and content strategy. As a holistic partner, they offer consultation services covering brand strategy, business development, and digital marketing, ensuring our clients receive tailored solutions to help their businesses thrive in the digital landscape.

- **B.Sc. (Animation & Multimedia)**
  - Three students — Anshuman Mathur, Ayush Fulara, and Aditi Bhushan — were selected by Protiviti with the highest package of ₹5.5 LPA.
  - Mansi Gupta, a BAM 2023 student, showcased two of her oil paintings at Silsila, an art exhibition held at Lokayata Art Gallery, Hauz Khas, from 10.012025 – 13.01.2025, featuring emerging 20 under 20 artists.

- **Faculty Achievement:**
  - Dr. Monika Bisht won the Best Paper Award for her research paper titled “AI-driven HR Initiatives for a resilient workforce in the VUCA and BANI scenario: A literature review” during the 6th International Conference on “Shaping Viksit Bharat @ 2047: Resilient Future Through Innovation, Sustainability and Inclusivity” organised by IMS Ghaziabad (University Courses Campus) held on 09.04.205 – 10.04.2025.
  - Dr. Swati Prasad delivered a talk on “Speech Emotion Recognition Using Convolution Neural Network”, during the workshop on 6G and beyond, organized by Sharda University, from 07.04.2025 – 08.04.2025.

- **Overall Department Achievement:**
  - The Department of Computer Science and Applications has proposed a new programme B.Sc. (Honors / Honors with Research) with Discipline Specific Electives in Artificial Intelligence and Machine Learning for the Academic Year 2025-26.
  - Department of Management Studies has proposed a new programme B.Com. (Honors / Honors

with Research) with Discipline Specific Electives in Financial Analytics in Collaboration with NSE (National Stock Exchange) Academy for the Academic Year 2025-26.

1.4 Courses Offered (UG/PG/PhD)

Sr. No.	Course Name	Duration	Intake Capacity	Key Features Course
1.	MBA	2 Years	30	Industry Ready Programme with Specialisation in Marketing, Human Resource, Finance & Business Analytics
2.	BBA Honours / Honours with Research	4 years	60	Graduation Programme with option of Honors / Honors with Research Offering Specialization in Contemporary Areas such as Business Analytics, Digital Marketing along with the traditional specialisations of Financial Management, Marketing Management, Information Technology and Human Resource
3.	MCA	2 Years	30	• Curriculum aligned with NEP 2020 and AICTE Model Curriculum. • Focus on modern programming paradigms, cloud computing, AI/ML, data science, cybersecurity, and mobile app development. • Strong lab components in every semester. Project and Internships with leading firms
4.	BCA Honours / Honours with Research	4 years	60	• Choice-Based Credit System (CBCS) as per NEP 2020. • Industry-aligned curriculum developed based on inputs from industry experts. • Access to specialized elective baskets in Artificial Intelligence and Machine Learning and Data Science domain for building unique career paths.
5.	B.Sc. Animation & Multimedia Honours / Honours with Research	4 years	40	Introduce students to cutting edge technology in the fields of Graphic Design, UI/UX Design, Game Design, 3D Modelling & Animation, Digital Filmmaking &VFX.
6.	PhD (Computer Science)			
7.	PhD (Management)			

1.5 List of PhD Scholars Graduated from the Department

Sr. No.	Student Name	Title	Supervisor(s)	Date of Award
1	Ravi Shankar Rai	Role of Educational Institutions in Promoting Entrepreneurship in the Area of Information and Communication Technologies and Electronics	Prof. Asha Prasad, Prof. B.K. Murthy	17.04.2025
2	Ms. Annu Mishra	A CNN Based Modified Neural Network for Automatic Segmentation of Biomedical Images.	Dr. Pankaj Gupta, Dr. Peeyush Teewari	28.03.2025
3	Mr. Jyoti Sankar Das	A Study of Culture and Communication and Its Impact on Buying Motives for Luxury Brands in India	Dr. Arun Mittal	08.01.2025
4	Ms. Simmi Dhayni	A Study of Social Media as an Effective Marketing Tool for Communicating Corporate Social Responsibility	Prof. Meenakshi Sharma	29.07.2024

SECTION 2		EXTRAMURAL GRANTS

2.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects

Sr. No.	Project Title	PI/Co-PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1.	Augment cognition of adolescent girls and community on menstrual health and hygiene on prototype through the integration of state-of-the-art tools and emerging technologies with behaviour change and participator communication for sustainable development.	Dr. Suparna Dutta	DST	31.03.2023	Rs. 40 lakhs	2 years

SECTION 3		SEMINAR / CONFERENCE

3.1 Events Attended by Faculty.

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Charu Wahi	2nd All India IQAC Workshop	Uttaranchal University	BIT Noida	Online	27.06.2025 - 28.06.2025
2	Dr. Arun Mittal, Dr. Monika Bisht	Research structure & Publishing process	National Foundation for Entrepreneurship Development	--	Online	23.06.2025 - 27.06.2025
3	Ms. Muntaha Ahmad	FDP on Exploring Large Language Models: Innovations, Applications, & future prospects	Sharda University and the Electronics and ICT Academy (Phase II)	Self	Online	26.05.2025 - 02.06.2025
4	Ms. Muntaha Ahmad	FDP on Data Science (ML&AI)	E & ICT Academy, IIT Kanpur	Self	Online	26.05.2025 - 31.05.2025
5	Ms. Preety Bajaj	AI Tools in Research and Education	Inspira Compliance and Training	Self	Online	19.05.2025 - 23.05.2025
6	Ms. Priti Sharma	FDP on Blockchain-Powered Machine Learning: Future of AI Security and Transparency"	OP Jindal University, Raigarh, Chhattisgarh	--	Online	19.05.2025 - 23.05.2025
7	Mr. Partha Acharya	FDP on Fantasy, Technology, Literacy: A journey from Classic Myth to Multimodal Marvels	Sarada Kurup College of Education & Research, Ghansoli	Self	Online	08.05.2025 - 14.05.2025
8	Dr. Monika Bisht	6th International Conference on Shaping Viksit Bharat @2047: Resilient Future Through Innovation, Sustainability and Inclusivity	IMS Ghaziabad	Self	Online	09.04.2025 - 10.04.2025

9	Mr. Partha Acharya	FDP on Role of Visual Storytelling in Education	IIMT University, Meerut	Self	Online	28.04.2025 - 03.05.2025
10	Ms. Preety Bajaj	FDP on Research and Publication Ethics: Issues, Challenges & Solutions	NIILM University	Self	Online	25.03.2025 - 31.03.2025
11	Dr. Charu Wahi	HR Impact Governance Summit	PHDCCI	--	Offline	12.02.2025
12	Dr. Charu Wahi, Mr. Lalit M. Bhatt	Energy Transition Summit	FICCI	--	Offline	29.01.2025 - 30.01.2025
13	Mr. Partha Acharya	Scholastic Writers Academy Training Programme	Scholastics India	Self	Online	27.01.2025 -11.02.2025
14	Ms. Rachana Pratik	Thought Leaders' Conclave	ICT Academy	--	Offline	17.01.2025
15	Dr. Arun Mittal	107th Annual Conference of the Indian Economic Association on the theme Sustainable, Developed and Atmanirbhar Bharat	Indian Economic Association	Self	Offline	27.12.2024 - 29.12.2024
16	Dr. Charu Wahi	FDP on Exploring NLP Applications in AI & ML	Pantech eLearning	Self	Online	23.12.2024 - 28.12.2024
17	Mr. Rakesh Singh, Mr. Anurag Joshi, Ms. Priti Sharma, Ms. Sheetal Sehgal	ATAL FDP on Blockchain Governance Structures and Trust: From Theory to Practice	BIT Jaipur Campus	--	Online	23.12.2024 - 28.12.2024
18	Dr. Charu Wahi	States Policy Conclave	PHDCCI	--	Offline	11.12.2024
19	Dr. Niket Mehta	ATAL FDP on Entrepreneurial Strategies for Success in the Emerging Blue Economy	Rathnam College of Arts and Science	--	Online	09.12.204 - 14.12.2024
20	Dr. Arun Mittal	4th International Conference on Global Innovation in Management and Social Sciences	Lumbini, Banjiya Campus, Nepal	UGC Nepal	Offline	29.11.2024 - 30.11.2024
21	Dr. Arun Mittal	75th All India Commerce Conference on Viksit Bharat@2047	Indian Commerce Association	Self	Offline	18.10.2024 - 21.10.2024
22	Dr. Niket Mehta	FDP on NEP Orientation and Sensitization Programme	National Institute of Educational Planning and Administration	--	Online	01.10.2024 - 11.10.2024
23	Mr. Partha Acharya	Stakeholders Meeting of Centre of Excellence on Creative Technology	West Bengal State Council for Technical & Vocational Education and Skill Development	Self	Online	19.07.2024

SECTION 4		RESEARCH PUBLICATIONS

Publication Data

S. No.	Total Number of Journal Articles	Total Number of Publications in Conference Proceedings	Total Number of Publications: Books	Total Number of Publications: Books, Chapters
1	15	5	5	2

SECTION 5		AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties (State / National / International)

S. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Monika Bisht	Best Paper Award	IMS Ghaziabad	International	2025

5.2 Patents (Applied / Granted)

S. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Applied/ Granted	Short Description about the Patent
1	Dr. Niket Mehta	Integrating Machine Learning with Traveling Salesman Problem (Tsp) For Intelligent Route Optimization in Smart Cities	202541041213 A	2025	Granted	The invention focuses on understanding the functions of Traveling Salesman Problem (TSP) by analyzing the parameters of Intelligent Route Optimization in Smart Cities using algorithms of Machine Learning Approach.

6.1 List of Faculties as on 30.6.2025

Sr. No.	Name	Designation	Expertise Area	Higher Qualification	Date of Joining
1.	Dr. (Ms.) Suparna Dutta	Associate Professor	Communication	Ph.D.	16.08.1999
2.	Dr. (Ms.) Asha Prasad	Professor	Management, Human Resource Management, Organisational Behaviour	Ph.D.	05.10.1999

3.	Mr. Sanjay Kumar	Assistant Professor	Artificial Intelligence, Deep Learning, Machine Learning, Data Analytics	M.Tech.	01.04.2001
4.	Ms. Soma Sircar Dasgupta	Assistant Professor	Operating System, Blockchain Technology, Data Mining, Web Programming Concepts.	M.Tech.	07.11.2001
5.	Mr. Anurag Joshi	Assistant Professor	Programming Languages	M.Tech.	01.07.2002
6.	Dr. (Ms.) Ila Sahay Dayal	Associate Professor	NON-LINEAR SYSTEM	Ph.D.	02.01.2003
7.	Dr. (Ms.) Vibha Kaw Raina	Assistant Professor	Software Engineering, DBMS, Mobile applications	Ph.D.	01.02.2003
8.	Ms. Sheetal Sehgal	Assistant Professor	Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Computer Organization and Architecture, Soft Computing	M.Tech.	01.04.2004
9.	Ms. Rachana Pratik	Assistant Professor	Marketing	MBA	07.07.2004
10.	Ms. Muntaha Ahmad	Assistant Professor	Data Structures, Theory of Computation, Natural Language Processing, Analysis of Computer Algorithm, Artificial Intelligence, Machine Learning	M.Tech.	20.07.2005
11.	Ms. Pramila Joshi	Assistant Professor	Data Science, Big Data, Data Visualization	M.Tech.	05.08.2005
12.	Ms. Preety Bajaj	Assistant Professor	Human Resource Management	M.Phil.	08.08.2005
13.	Dr. Charu Wahi	Assistant Professor	Computer Architecture, Computer Networks, Data Mining, Statistics, Machine Learning	Ph.D.	19.06.2006
14.	Mr. Kiran Ashok Shetti	Sr. Animation Trainer	2D Classical Animation / Advertising and Film Making	B.F. A	01.07.2006
15.	Mr. Lalit Mohan Bhatt	Editor	Film Production, Pre-Production, Post-production. Experimental Animation	M.Sc.	01.07.2006
16.	Dr. Shankar Lal Gupta	Professor	Marketing Management & Financial Management	Ph.D.	27.07.2006
17.	Dr. (Ms.) Meenakshi Sharma	Professor	Marketing	Ph.D.	04.09.2006
18.	Ms. Priti Sharma	Assistant Professor	Data Communication and Computer Networks, IOT	M.Tech.	15.12.2006
19.	Mr. Manoj Kumar	Animator	3D, Compositing & VFX, Video Editing, Motion Graphics, Calligraphy	MJMC	07.02.2007
20.	Mr. Partha Acharya	Assistant Professor	Graphic Designing, Digital Storytelling	M.Sc.	01.08.2007
21.	Dr. Arun Mittal	Assistant Professor	Marketing Management (Consumer Behaviour, Digital Marketing) & Legal Aspects of Management, Business Law	Ph.D.	14.08.2007

22.	Dr. Swati Prasad	Assistant Professor	Speech Identification, Speech Emotion Recognition	Ph.D.	20.08.2007
23.	Dr. Niket Mehta	Assistant Professor	Multimedia, Digital Advertising, Social Media and Multimedia Content Creation	Ph.D.	16.07.2008
24.	Dr. (Ms.) Monika Bisht	Assistant Professor	HR, Organisational Behaviour	Ph.D.	01.08.2008
25.	Dr. Umair Ujala	Assistant Professor	Mathematics	Ph.D.	20.04.2009
26.	Ms. Seema Sharma	Assistant Professor	Software Engineering	M.S.	20.07.2009
27.	Dr. (Ms.) Chanpreet Kaur	Assistant Professor	Accounting and Finance	Ph.D.	17.07.2023

6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practice

Sr. No.	Name	Designation	Affiliation (Regular or Previous)
1.	Mr. Abhishek Singh	Head - National Operations (Inbound)	Britannia Industries Ltd.
2.	Mrs. Prema Sinha	French Faculty	Freelancer
3.	CS Puja Shree Agarwal	Company Secretary & Entrepreneur	NA

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Ms. Seema Sharma	Assistant Professor	Internal Member, Department of CSE, BIT Mesra Ranchi
2.	Mr. Lalit Mohan Bhatt	Editor & Academic Coordinator, A&M Dept. BIT Noida Campus	Internal
3.	Dr. Niket Mehta	Assistant Professor- Animation & Multimedia Dept. BIT Mesra, Noida Campus	Internal

SECTION 7 STUDENTS' DEVELOPMENT

7.1 Departmental Students' Activities

S No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Student's Farewell	Yash, Shubha, Anshika, Manvi, Abhinav, Vansh, Aman, Aaradhya, Sounya, Mansi, Harshit,	Dr. Charu Wahi, Ms. Preety Bajaj, Mr. Manoj Kumar	09.05.2025
2	Annual Prize Distribution Ceremony	Kinshuk, Isha, Shreya	Ms. Sheetal Sehgal, Mr. Manoj, Ms. Preety Bajaj, Dr. Charu Wahi	21.04.2025
3	Annual Cultural Fest	Koyana, Piyush, Amrit, Shubha, Yash, Kinshuk, Medha, Sneha, Shreya, Isha, Manvi, Anshika	Dr. Charu Wahi, Ms. Preety Bajaj, Mr. Manoj Kumar	08.04.2025 - 09.042025
4	Industry Visit of BCA VI and BCA IV students to Mother Diary		Ms. Seema Sharma, Ms. Priti Sharma	28.03.2025

5	Session on Research Methodology		Dr. Vibha K. Raina	27.03.2025
6	High Impact Guest Lecture - Intellectual Property Rights		Dr. Chanpreet Kaur, Dr. Niket Mehta, Ms. Priti Sharma	26.03.2025
7	Guest lecture – Key concepts of the Income tax act		Dr. Chanpreet Kaur	19.03.2025
8	Annual Sports Fest	Anubhav, Riddhi	Ms. Sheetal Sehgal, Dr. Umair Ujala	18.03.2025
9	Industry Visit of MCA II and MBA II students to Varun Beverages Pvt. Ltd.		Dr. Charu Wahi, Ms. Preety Bajaj	08.03.2025
10	MCA students interaction with Magic Bus experts		Department of CSA	25.02.2025
11	Matribhasha Diwas	Medha, Shreya, Isha	Dr. Charu Wahi	21.02.2025
12	Industry Visit of BAM IV students to India Gaming Show		Department of A&M	20.02.2025
13	Orientation session with Kedman Skilling Pvt. Ltd.		Department of Management	19.02.2025
14	Poster Competition		Dr. Niket Mehta	17.02.2025
15	Participation of MCA II students in Comet 25 at IIT Roorkee		Dr. Charu Wahi	08.02.2025 - 09.02.2025
16	Quiz of Republic	Koyana	Dr. Charu Wahi, Ms. Preety Bajaj, Mr. Manoj Kumar	05.02.2025
17	Participation of students at BIT Mesra Sports event		Dr. Umair Ujala, Ms. Sheetal Sehgal	31.01.2025 - 02.02.2025
18	Workshop on Cloud computing for BCA students		Ms. Seema Sharma, Ms. Priti Sharma	30.01.2025
19	Participation of students in 3rd edition of India Energy Transition Summit at FICCI		Dr. Charu Wahi	29.01.2025 - 30.01.2025
20	Cloth Donation drive		Dr. Swati Prasad, Dr. Umair Ujala, Dr. Charu Wahi	27.01.2025 - 15.02.2025
21	Nukkad Natak	Koyana, Piyush, Amrit, Shubha, Sarthak, Anshika, Sweta, Yati, Ayush	Dr. Charu Wahi	26.01.2025

22	CSR & NSS Club students volunteered for Teaching & Learning activity to children from marginalized and slum communities of Noida	Himanshu Garg	Dr. Swati Prasad, Dr. Umair Ujala, Dr. Charu Wahi	25.01.2025
23	A writing and publishing workshop		Dr. Suparna Dutta	22.01.2025
24	Participation of Animation students to Bharat Mobility Glopal Expo		Department of A&M	21.01.2025
25	Industry Visit of Animation students to Digitoonz Animation Studio		Mr. Partha Acharya	18.01.2025
26	Entrepreneurial talk on World Startup Day	Amrit, Piyush, Shreya	Entrepreneurship and Innovation Club	16.01.2025
27	Elocution Competition & Nukkad Natak - Vigilance Week Celebration with Indian Oil	Shreya, Isha	Ms. Rachana Pratik	25.10.2024
28	Don Bosco Global Youth Film festival	Keshav, Ayush, Kinshuk, Sania, Divyanshi, Stuti	Department of A&M	17.10.2024 - 18.10.2024
29	Entrepreneurial Talk		Entrepreneurship and Innovation Club	15.10.2024
30	Tech Quiz – TECHNO TRIVIA	Radhika, Sudhanshu, Rupen, Yash, Shashwat	Ms. Seema Sharma, Ms. Priti Sharma	12.10.2024
31	Blood Donation Camp	Rupen, Harshit, Radhika, Sakshi	Dr. Charu Wahi, Dr. Swati Prasad, Dr. Umair Ujala	04.10.2024
32	Guest Lecture – Risk and return analysis using MS Excel	Aamushaayana, Nimisha, Honey	Dr. Chanpreet Kaur	03.10.2024
33	An International Lec-dem on Changing Landscape of Scientific Publishing and Tools of a Young Researcher		Dr. Suparna Dutta	01.10.2024
34	Visit to Old Age Home		Ms. Rachana Praik, Dr. Charu Wahi	27.09.2024
35	Special lecture - Strategies for Success - An intersection of Engineering, Technology, and Management		Prof. (Dr.) S L Gupta, Dr. Monika Bisht, Mr. Anurag Joshi	17.09.2024

36	High Impact Guest Lecture – Path to Success		Ms. Priti Sharma, Dr. Chanpreet Kaur, Dr. Niket Mehta,	17.09.2024
37	Interactive Session on Emerging Technologies and their impact on Business		Ms. Priti Sharma, Ms. Seema Sharma	13.09.2024
38	Participation of students in the International Conference on Green Hydrogen organised by the Ministry of New and Renewable Energy, Govt. Of India		Dr. Charu Wahi	12.09.2024
39	Guest Lecture – How to buy and sell shares in the Stock market		Dr. Chanpreet Kaur	11.09.2024
40	3D Workshop		Mr. Partha Acharya, Mr. Manoj Kumar	10.09.2024
41	Teacher's day celebration		Ms. Pramila Joshi, Dr. Niket Mehta, Dr. Charu Wahi	05.09.2024
42	Industry Visit to Mother Diary		Dr. Abhishek Singh, Dr. Niket Mehta, Ms. Pramila Joshi, Ms. Priti Sharma	29.08.2024
43	Interactions with Industry professionals from Gillette		Dr. Abhishek Singh	28.08.2024
44	Interactions with Industry professionals from Career Launcher		Ms. Rachana Pratik	27.08.2024
45	Orientation Programme		Department of A&M, CSA and Management	20.08.2024 - 23.08.2024
46	Participation of BAM students in 5th Global AVGC and Immersive Media Summit		Mr. Lalit M. Bhatt, Dr. Niket Mehta	21.08.2024 - 22.08.2024

7.2 Student Achievements

Sr. No.	Name	Achievement	Organizer	Date	Venue
1.	Mansi Gupta BAM/45009/23	Paintings Display in Art Exhibition	Ipshita Panda (curator)	10-13th January 2025	Lokayata Art Gallery, Hauz Khaz

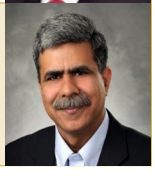
7.3 Students Toppers

Sr. No.	Name	Course	Sem	Grade
1	Prajwal Arora	MCA	I-IV	9.57
2	Shekhar Ranjan	MCA	I-II	9.53
3	Oshin Suresh Upadhyaya	MBA	I-IV	9.68
4	Ishita Gupta	MBA	I-II	9.16

5	Radhika Diwan	BCA	I-VI	9.93
6	Yunika Chadha	BCA	I-IV	9.41
7	Aryan Mishra	BCA	I-II	8.94
8	Meghal Sharma	BBA	I-VI	9.09
9	Shreya Sinha	BBA	I-IV	9.88
10	Mani Bhardwaj	BBA	I-II	9.57
11	Aditi Prasad	BAM	I-VI	9.48
12	Kapil Nishad	BAM	I-IV	9.23
13	Saina Mehrotra	BAM	I-II	9.27

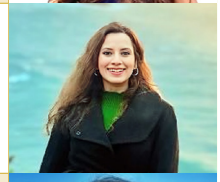
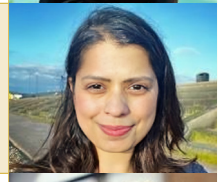
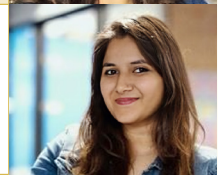
SECTION 8		OUTREACH ACTIVITIES

8.1 Distinguished Visitors

Sr. No.	Name	Affiliation	Organizer	Date	Photo
1.	Mr. Sanjay Sengupta	Ex. Sr. Principal Scientist & Editor JSIR		27.03.2025	
2.	Ms. Daisy Sharma	Partner, SKS Law Associates		26.03.2025	
3.	Md. Irsad Alam	Chartered Accountant		19.03.2025	
4.	Mr. Shantanu Dubey	Co-Founder, Lyfe Index		16.01.2025	
5.	Mr. Amit Manral	Co-Founder, Opulence Wealth		15.10.2024	
6.	Mr. Sanjay Chadha	BIT Alumni (1981-85 batch)		17.09.2024	

7.	Mr Anshul Agarwal	Founder, XR Central		13.09.2024	
8.	Mr. Shardul Sangal	Global Delivery and Operations Leader		13.09.2024	
9.	Mr. Ram Kumar Gupta	CFP, BSE		11.09.2024	
10.	Mr Mayank Singh	Global Outreach Manager, XR Central	HIGL Team	24.01.2024	

8.2 Distinguished Alumni

Sr. No.	Name	Affiliation	Description	Photos
1.	Ms. Lubna Irfan (MBA 2011-2013)	Portfolio Manager, McGraw Hill (India)		
2.	Ms. Prerna Khaitan (MBA 2009-2011)	Account Strategist, Google Cloud-North America (xWF)		
3.	Ms. Vaani Lamba (MCA 2014-2017)	Senior Business Architecture Specialist, Accenture		
4.	Ms. Shubhangi Raheja (BAM 2008-2011)	Co-founder Untamed Pixel Studio Clients -Lenovo, Spotify, BBC Media Action. Coca-Cola. Swiggy		
5.	Akshita Deharwal	Art Director Bobble AI Expertise- Art Direction, Creative Design & Animation		

8.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose/Area/Short Description	Year / Duration
1.	National Stock Exchange (NSE) Academy	Collaboration for B. Com. Programme	Academic Year 2025-26 to 2027-28

8.4 Industry Connect

- Industrial Visits: 5
- Interaction with experts from Industry: 15
- Pre-placement talks: 17
- Mock Interviews by Industry expert: 5
- Alumni Interaction: 10

SECTION 9		INFRASTRUCTURE DEVELOPMENT

9.1 New Facilities Upgradation

The ongoing construction project is set to enhance our infrastructure to improve our academic environment and accommodate the growing needs of students and staff. The key developments include:

- Development of an Annex Building, which will include the following facilities:
  - Cafeteria
  - A Seminar / Conference Hall
  - A 2-floor Library
  - Parking Area
- Development of an additional 4th floor upon the Main Building, providing the following spaces:
  - 1 Group Discussion Room
  - 5 Class Rooms
  - 4 Faculty Rooms
  - 1 Research & Development Room
  - 1 Design & Innovation Room
  - 1 Meeting Room

9.2 IT Upgrades

- 30 new Computers installed in AI and ML Lab with the following configuration: HP2G1a Pro Desktop (Tower): AMD R7-8700G APU, 512GB M.2 2280 PCIe NVMe SSD, 16 GB (1x16GB) DDR5 5200 RAM, with 21.45" FHD Monitor (HP S3 Pro322pe), Windows 11 Pro Preinstalled.
- Smart Classrooms equipped with LCD panels have been installed in two additional classrooms, enhancing the existing infrastructure to support smart teaching and interactive learning.

SECTION 10		FUTURE PLANS (2025-26)

10.1 Upcoming Courses

- B.Sc (Computer Science) by Department of Computer Science Applications
- B.Com by Department of Management

NATIONAL CADET CORPS

1. About NCC at BIT Mesra:

The 3 Jhar CTC, NCC BIT Mesra provides the enrolled cadets with training equivalent to army training for theoretical, physical, emotional & social development of the cadets. The cadets are taught and trained to inculcate qualities of leadership along with feelings of patriotism.

2. No. of units in NCC (If Applicable):

- 3 JHARKHAND COMPOSITE TECHNICAL COMPANY, NCC BIT MESRA

3. No. of students enrolled:

	• Girls:	Boys:
K22 – 72	K22 – 10	K22 – 62
K23 – 65	K23 – 13	K23 – 52
K24 – 84	K24 – 28	K24 – 56

Total Students – 221

4. Achievements of NCC:

- 31 number of students cleared B certificate Exam 2025.
- 47 number of students cleared C certificate Exam 2025.

5. EVENTS CONDUCTED

- KARGIL VIJAY DIWAS (26th JULY 2024)

Kargil Vijay Diwas was solemnly observed by NCC cadets to honor the bravery and sacrifice of Indian soldiers during the 1999 Kargil War. As part of the tribute, a marathon was organized to symbolize the relentless spirit and determination of our armed forces. Cadets also paid homage through speeches and patriotic songs, remembering heroes like Captain Vikram Batra and Lt. Manoj Kumar Pandey. The event reinforced core NCC values of discipline, courage, and national service.

No. of Participants: 40 Batches: 2022 and 2023

- **Independence Day 15th August 2024**

Number of Participants: 90 Batches: 2022 and 2023

Parade Commander: SUO Aakashdeep Singh Soodan (2022 batch)

On Independence Day, NCC cadets actively participated in the celebrations with great enthusiasm. The event featured a flag-hoisting ceremony and a parade that showcased the cadets' discipline and patriotism. Faculty members and students attended in large numbers, making the event a resounding success. The stellar performers were felicitated by the Vice Chancellor.

- **ADG VISITS (16th AUG 2024)**

No. of participants: 40 Batch- 2022 and 2023

In-Charge: SUO Aakashdeep Singh Soodan (2022 batch) & UO Shubham Kumar (2023 batch)

On 16th August, 3 JHAR CTC NCC, BIT Mesra, had the honor of hosting **Maj Gen A.S. Bajaj**, ADG NCC (Bihar & Jharkhand Directorate). The visit commenced with a Guard of Honour, followed by a technical symposium where cadets showcased innovative projects, including drones and an ATV by the Firebolt Racing Club. A patriotic musical performance further added to the occasion. The ADG lauded the cadets for their discipline and technical excellence, making the event a memorable celebration of innovation and national pride.

- **Puneet Sagar Abhiyaan (31st Aug 2024)**

On 31st August 2024, cadets of 3 JHAR CTC NCC, BIT Mesra, actively participated in the **Puneet Sagar Abhiyan**, a river-cleaning initiative reflecting their commitment to environmental sustainability and community service. Through their dedicated efforts, the cadets showcased the true NCC spirit—

discipline, resilience, and a deep sense of responsibility toward nature. This campaign stands as a powerful example of youth-led environmental action and civic leadership.

No. of Participants: 68 Batches: 2023 and 2024

- **Annual Training Camp XIX 11th to 20th December 2023**

  Every year 3 JHAR CTC NCC organizes the Annual Training Camp within the premises of NCC Ground. Cadets are trained in Military Studies, Weapon Training, Obstacle Course, Cycling Marathon and various activities are organized. This year ARO visit was also organized during the camp. Cadets were informed about the various schemes through which they can make a career in the armed forces.

No. of Participants: 100 Batches: 2022 and 2023

Camp In-Charge: SUO Aakashdeep Singh Soodan (2022 batch)

- ### Republic Day 26th January 2025

Republic Day 2024 was celebrated with great patriotism at BIT Mesra. 120 cadets of 3 JHAR CTC NCC, led by SUO Aakashdeep Singh Soodan, participated in a grand parade showcasing discipline and unity. The event was graced by Vice-Chancellor **Dr. Indranil Manna**, who unfurled the tricolor and addressed the gathering. Cultural performances, including dances, a Saraswati Vandana, and a tribute to Indian soldiers, highlighted India's rich heritage. The day concluded with felicitation of cadets for their outstanding contributions.

Number of Participants: 120 Batches:2022, 2023 and 2024

Parade Commander: SUO Aakashdeep Singh Soodan (2022 batch)

- **BLS and Cancer Seminar (11th March 2025)**

  On 11th March 2025, cadets of 3 JHAR CTC NCC, BIT Mesra, participated in a **Basic Life Support (BLS) and Cancer Awareness Seminar**. With 50–60 attendees, the event included hands-on CPR training using human models, a medical Q&A session, and certification for participants. The seminar emphasized the importance of being

  prepared to save lives and raise awareness, highlighting the cadets' commitment to

  service beyond the parade ground.

  No. of Participants: 60 Batches: 2023 and 2024

NSS National Service Scheme

1. Prabhat Pheri (15-08-2024)

On the occasion of Independence day, NSS, BIT MESRA organized Prabhat Pheri to enliven the spirit of patriotism and national pride. The students walked around the campus and cheered slogans.

2. Tree Plantation Drive (07-09-2024)

On September 7, 2024, the National Service Scheme (NSS) at BIT Mesra organized a tree plantation drive to promote environmental awareness and sustainability on campus. The event started from the Sports Complex, flagged off by Dean of Student Affairs Dr. Bhaskar Karn, alongside other faculty members and NSS coordinators. Volunteers and executives participated by planting saplings across different campus locations while engaging students on the importance of tree planting. Their efforts emphasized environmental stewardship and aimed to make a lasting impact on both the campus and the surrounding Mesra West area.

3. Organ Donation Drive (21-09-2024)

NSS BIT Mesra has organized an Organ Donation Drive on 21st September 2024 to raise awareness among people in nearby villages. The drive aims to educate villagers on the life-saving importance of organ

donation and dispel any misconceptions. Volunteers will conduct informative sessions, encouraging individuals to consider becoming organ donors. By reaching out to rural communities, this initiative seeks to inspire greater participation in organ donation, helping to save lives and make a meaningful impact on those awaiting transplants.

4. Blood Donation Camp (02-10-2024)

NSS BIT, MESRA had organized a Blood Donation Camp at Bit Dispensary on 2nd October, 2024. The Camp was successfully conducted by the chief guest VC Indranil Manna. Four hospitals Maa Rampyari, RIIMS, Medanta, Sevasadan in collaboration with the Blood Bank of India visited for the collection of blood. A total of 400 plus units of blood was donated. All the NSS volunteers and executives joined the Camp and made it a successful one.

5. Plastic Free Awareness Drive (06-10-2024)

The National Service Scheme (NSS) at BIT Mesra held a plastic awareness drive as part of their special camp. The drive aimed to educate nearby residents about the harmful effects of plastic pollution and how they can help protect the environment. Starting from the sports complex with NSS volunteers, executives, and Professor Dr. Sushanta Ghuku, the students visited nearby villages to spread awareness. The drive was deemed successful, thanks to the active participation of all involved.

6. Awareness Drive On "Malaria And Dengue" (13-10-2024)

The National Service Scheme (NSS) at BIT Mesra conducted an awareness drive on malaria and dengue as part of their special camp. The drive focused on educating nearby residents about the prevention and control of these diseases, emphasizing cleanliness and reducing mosquito breeding grounds. Starting from the Sports Complex, volunteers along with faculty members Dr. Pranjal Kumar and Dr. Sumit Srivastava, engaged with locals at various locations, sharing preventive measures and stressing timely medical intervention.

NSS BIT MESRA organized an awareness on "Nasha Mukti Abhiyan", at nearby adopted villages. The campaign was focused on raising awareness about the dangers of substance abuse. Volunteers spread the message of the harmful effects of drugs and the importance of leading a drug-free life. The significance of the event lay in its ability to educate and empower the youth to make informed decisions and stay away from substance abuse. Through their efforts, the volunteers encouraged a sense of responsibility and highlighted the role of each individual in fostering a drug-free society. The event successfully concluded at the BIT MESRA campus, leaving a meaningful impact on all participants and villagers.

7. Awareness Drive on “Say No To Junk Food” (27-10-2024)

The National Service Scheme (NSS) at BIT Mesra conducted an awareness drive to educate students and villagers about the dangers of consuming junk food and the benefits of healthy eating. The event began from the Sports Complex, led by Dr. Paritosh Mehta and Dr. Sanjeev Tiwari, along with NSS executives. Participants, including NSS volunteers, visited the nearby village.

8. Awareness Drive on "Cyber Fraud" (03-11-2024)

The National Service Scheme (NSS) at BIT Mesra conducted an awareness drive on "Cyber-Fraud" in the nearby village of Rudiya. With the rise of digital scams, the NSS team aimed to educate villagers on recognizing and preventing cyber fraud. The session focused on safe online practices, the importance of strong passwords, and identifying phishing attempts. By offering practical advice and resources, the NSS team sought to empower the residents to protect themselves from online threats and build a more informed and secure community. The active participation of NSS executives made the drive successful.

9. Seminar on the occasion of Youth Day (12-01-25)

On the occasion of Youth Day, NSS BIT Mesra had organised a seminar on Youth Day which was attended by volunteers. Dignitaries spoke about the importance and reason to celebrate Youth Day and motivate the student to take part in the Youth Festival

10. Awareness drive on the importance of education (23.1.25)

Education is a very important aspect of life. The student volunteers of NSS BIT Mesra had done an awareness drive to the nearest village Nayatoli to educate the people about the importance of education and the benefits of education in their life.

11. Prabhat Pheri (26-01-25)

On the occasion of Independence day, NSS, BIT MESRA organized Prabhat Pheri to enliven the spirit of patriotism and national pride. The students walked around the campus and cheered slogans.

12. Awareness on Swachh Bharat Abhiyan (17-02-25)

The NSS unit of BIT Mesra organised a Swachh Bharat awareness drive in Rudini village on 17th February 2025 aligning with the Prime Minister's vision for clean India.Through interactive and progressive sessions, the volunteers engaged villagers in basic discussions about adverse effects of littering,open defecations and improper waste disposal

13. Awareness on save water save life

NSS BIT Mesra conducts Awareness Drives on "Save Water, Save Life" in nearby villages to highlight the importance of water conservation. Volunteers educate communities about the necessity of water for survival, agriculture,and daily needs.

14. Mental Health Workshop (03-04-25)

The NSS BIT Mesra had organised a mental health workshop for the students. This workshop was conducted by Mr. Vivek Singh at cat hall. The workshop was held to help the students tackle the stress and depression they are facing in their life. The seminar was conducted in the presence of Dr O.P. Pandey, Dr. Sanjeev Tiwary and Dr. Sushant with all the NSS executive body for the smooth conduction of the seminar.

15. Awareness session on Blood Donation(10-04-25)

The NSS BIT Mesra had organised an awareness on blood donation for the students.The awareness session was conducted by Dr. Luna Sinha, a renowned medical professional from the hospital Ram Pyari. The session was conducted at room 211 in the presence of

Dr. Sanjeet Kumar and all NSS executive body for the smooth commencement of the session.

16. Blood Donation Camp(12-08-25)

NSS BIT, MESRA had organized a Blood Donation Camp at Bit Dispensary on 12th April, 2025. The Blood Donation Camp was inaugurated by Dr. Bhaskar Karn, Chairperson of NSS, BIT Mesra. There were a total of three hospitals RIIMS, Medanta and Sevasadan in collaboration with the Blood Bank of India visited for the

collection of blood. A total of 100 plus units of blood was donated. All the NSS volunteers and executives joined the Camp and made it a successful one.

17. Achievements:

- NSS Volunteers attended the National Integration Camp in Patna from 12th December, 2024 to 18th December, 2024. It was truly an uplifting, informative and fulfilling experience.

- NSS Volunteers attended the National Youth Festival held in Delhi from 10th January, 2025 to 12th January,2025. They spoke at National Youth Festival, Presenting ideas on Improving Indian Agriculture in front of the Hon' ble Prime Minister Narendra Modi.

ENVIRONMENT PROTECTION AND AWARENESS CLUB

FACULTY ADVISOR: **Dr Neeta Kumari,**
Assistant Professor,
Civil and Environmental Engineering.

PRESIDENT : **Shivam**

The Environment Protection and Awareness Club of BIT Mesra, known as EPAC is the student club whose sole motive is to instigate the students of our campus to proactively contemplate the detrimental effects on our environment in the current scenario.

We, as a student body, aim at, improvising the existing systems which lay in the favour of nature. We have started a plethora of initiatives in our lush green Institute campus to aid the upliftment of the environment and make the students aware of the repercussions of an unhealthy environment.

We work in consonance with the latest advancements in technology to bring about small differences which might lead towards a huge change.

FOR THE YEAR 2024-2025, THESE EVENTS OCCUR

- JSEF (22nd August 2024)
- JUNGLE JOUST 2.0 (6th October 2024)
- VRIKSHIT 2025 (8th February 2025)

JSEF 2024

EVENT INTRODUCTION

The Jharkhand Science and Environment Festival (JSEF)—a beacon of knowledge and environmental stewardship, proudly orchestrated by the Environment Protection and Awareness Club (EPAC) at Birla Institute of Technology, Mesra. This annual gala is a confluence of young minds, educators, and environmental aficionados, all converging to celebrate and elevate scientific inquiry and ecological mindfulness.

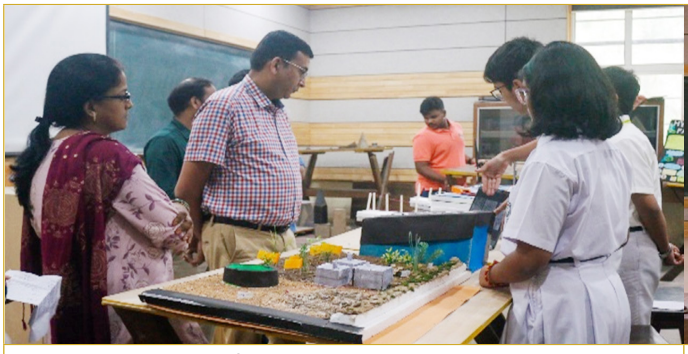
JSEF is more than a festival; it's a movement—a clarion call to the youth to harness their potential for the greater good. It serves as a reminder that through collective effort and unwavering dedication, we can script a narrative where science and environment coexist harmoniously.

From the thrilling quiz competitions that test knowledge to innovative science exhibitions where ideas take shape, JSEF nurtures scientific temperament among students. Events like 'Ad-Sense' challenge participants to blend creativity with ecological awareness, while workshops and seminars provide valuable insights into emerging scientific and environmental trends. Moreover, debates, poster presentations, and model-making contests push students to think critically, innovate, and advocate for a sustainable future.

NAME OF EVENT: SCIENCE EXHIBITION

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	BIT Mesra

Duration (1 Day)	22th August 2024
No. of Student Volunteers	6
No. of Participants/Beneficiary/etc.	43



Judges viewing different science projects made by the participants

Participating student explaining their presentations to audiences.

Description

In the thrilling arena of competition, competitors engage in an electrifying display of knowledge of science, scientific approach to protect the planet and ecology. The competition allowed the competitors to work on several conservable energy sources, waste management, and other critical topics related to earth's health. The exhibition allowed the participants to display their interactive models on ecology and environment and waste recycling processes.

Topics like biodiversity conservation was also considered to protect the endangered species. The Global warming and rising climate change was too discussed and overall, the competition raised awareness for the participants and all the people and volunteers associated with the program.

Name of Event : Debate

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	BIT Mesra
Duration 1 Day	22nd August 2024
No. of Student Volunteers	9
No. of Participants/Beneficiary/etc.	43
No. of Certificates/Award Distributions (If Any)	2- first two place

Whole Epac team gathered for group picture, celebrating their success

Different school representatives and students gathered in LH-1

Description

The debate took place with a very evidence-based arguments where the participants of both sides focussed on the government as well as local citizens role in preserving the environment and raising their voices against the pollution, rising global warming and climate change. The correct waste disposal methods were also debated with some data on the states which require an immediate reform in their waste management. The competition not only just provided us with the solution to the various loopholes in the environment protection but also created an awareness about different aspects of ecology.

Name of Event: Environmental Quiz

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	BIT Mesra
Duration 1 Day	23rd August 2024
No. of Student Volunteers	6
No. of participants/Beneficiary/etc	43
No. of Certificates/Award Distributions (If Any)	2- first two winners
News about the winner and conduction of JSEF in the newspaper	Participants gathered before the starting of the program.

Description

An **Environment Quiz** is an interactive activity designed to test knowledge and raise awareness about environmental issues, sustainability, conservation, and ecological topics. The quiz typically featured questions related to topics like climate change, pollution, renewable energy, wildlife conservation, and the importance of protecting natural resources. The quiz covered various environmental topics, such as the impact of human activities on the planet, renewable energy sources, biodiversity, deforestation, water conservation, and global warming.

Name of Event: Ad-Sense

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	BIT Mesra
Duration 1 Day	23rd August 2024
No. of Student Volunteers	9
No. of Participants/Beneficiary/etc.	43
No. of Certificates/Award Distributions (If Any)	2- first two winners

Whole Epac team gathered for group picture, celebrating their success

Different school representatives and students gathered in LH-1

Description

Designing eco-friendly products and creating online blogs, videos, info graphics, and social media content are the primary focuses of our AdSense event organized by the Environment Club. The event aims to educate students about the importance of sustainability and how to promote eco-friendly initiatives through creative digital content.

List of winners of the events

- Science exhibition
  - Army Public School
  - Delhi Public School, Ranchi
- DEBATE COMPETITION
  - Delhi Public School, Ranchi
  - Sarla Birla Public School
- ENVIRONMENTAL QUIZ
  - Guru Gobind Singh Public School
  - Delhi Public School, Bokaro
- AD-SENSE
  - Delhi Public School, Bokaro
  - Guru Gobind Singh Public School, Ranchi

Jungle Joust 2.0

Event Introduction

EPAC successfully organized **Jungle Joust:** BGMI Showdown, uniting gaming enthusiasts in a high-energy eSports competition that tested strategic thinking, teamwork, and battle instincts**.**

The one-day event provided a dynamic platform for participants to showcase their skills in **Battlegrounds Mobile India (BGMI)** through two intense rounds—**Erangel** and **Miramar**. With strict adherence to fair play rules and pre-set guidelines, the tournament ensured a seamless and competitive gaming experience.

The excitement of the event was further enhanced by **live streaming on YouTube**, allowing a wider audience to witness the thrilling gameplay.

The event concluded with a celebration of participation and sportsmanship, guided by our esteemed Faculty Advisor, Dr. Neeta Kumar, whose presence added to the significance of the occasion. Through Jungle Joust: BGMI Showdown, EPAC not only provided a stage for competitive gaming but also fostered camaraderie and strategic thinking among students, making it a truly memorable experience.

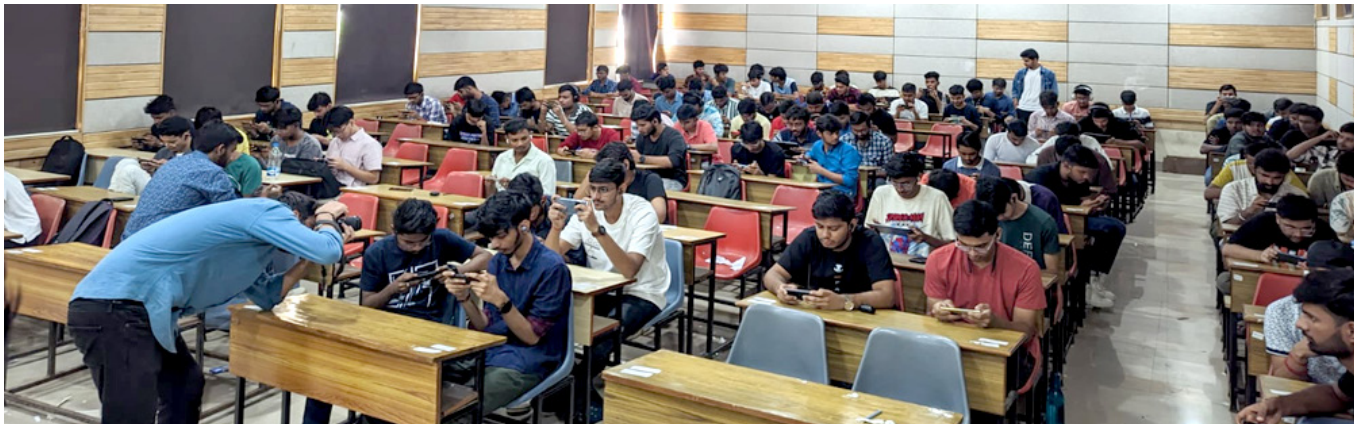
NAME OF EVENT: Round 1: Erangel

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Classrooms 233A & 236
Duration (1 Day)	6th October (11:30 AM to 2:30 PM)
No. of Student Volunteers	10

Description

In the thrilling arena of Round 1: Erangel, participants engaged in an electrifying display of survival instincts, strategic gameplay, and tactical decision-making. The classic battleground of Erangel, known for its diverse terrain and high-stakes combat zones, challenged players to adapt quickly, secure the best loot, and navigate unpredictable encounters.

The round tested competitors on map awareness, positioning, and teamwork, as squads fought through contested drop locations, dense forests, and open fields. Strategic rotations, well-executed ambushes, and intense last-circle battles determined the strongest teams, setting the stage for an exhilarating start to the Jungle Joust: BGMI Showdown. The match not only pushed players to their limits but also delivered adrenaline-pumping action for viewers, making it a memorable and fierce opening round.



Name of Event: Round 2: Miramar

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Classrooms 233A & 236
Duration (1 Day)	6th October (11:30 AM to 2:30 PM)
No. of Student Volunteers	
No. of Participants/Beneficiary/etc.	
No. of Certificates/Award Distributions (If Any)	3 – First three winners.

Description

The second round of Jungle Joust: BGMI Showdown took place in Miramar, a challenging desert battleground that tested players' tactical expertise and adaptability. Known for its vast open landscapes, minimal cover, and high vantage points, Miramar demanded strategic rotations, precise marksmanship, and effective team coordination.

Participants navigated through harsh terrains and urban hotspots such as Pecado and Los Leones, engaging in intense long-range battles and calculated engagements.

With high-stakes firefights, vehicle maneuvers, and strategic last-circle plays, the round showcased the competitive spirit of the participants. The event successfully highlighted the growing eSports culture, reinforcing the importance of skill development, teamwork, and digital engagement in gaming.

Vrikshit 2025

Event Introduction

EPAC successfully organized a Plantation Drive at Kislaya Vidya Mandir, inspiring and empowering young minds to understand ecological challenges and take action for a greener, healthier planet.

The one-day program focused on the creative development of students through engaging activities like Origami and Poster Designing. The enthusiasm of the children was further amplified by prize and sweet distributions, making the event a memorable experience for all.

The event concluded with the Planting of Saplings, guided by our esteemed Faculty Advisor, Dr. Neeta Kumar, and Dr. Shruti Garg (Department of Computer Science and Engineering), alongside Suman Thakur, the Principal of the school. This initiative instilled a sense of responsibility and environmental awareness in the young participants, encouraging them to be active contributors to a sustainable future.

Name of Event: Origami Competition

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Kislaya Vidya Mandir
Duration (1 Day)	8th February 2025
No. of Student Volunteers	17
No. of Participants/Beneficiary/etc.	50
No. of Certificates/Award Distributions (If Any)	3 – First three winners.

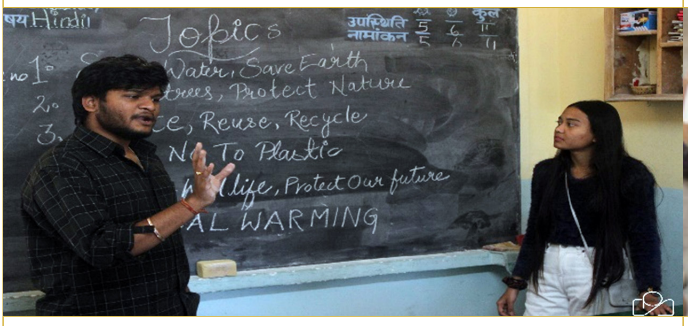
Students showcasing their final product of origami flowers by raising it the air.	Volunteers teaching making of origami flowers to school students.

Description

As part of *Vrikshit 2025*, EPAC organized an engaging origami event at a nearby school, where students from classes 2 to 5 learned the art of crafting origami flowers. The session aimed to foster creativity and hands-on learning among young minds. After the workshop, a friendly competition was held, and the top three students with the best origami flowers were awarded prizes, recognizing their skill and enthusiasm.

NAME OF EVENT: Poster making

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Kislaya Vidya Mandir
Duration (1 Day)	8th February 2025
No. of Student Volunteers	17
No. of Participants/Beneficiary/etc.	50
No. of Certificates/Award Distributions (If Any)	3 – First three winners.

	
Volunteering college students explaining all the topics in detail to the participating school students.	Students actively making posters and peacefully sharing resource materials provided.

Description

As part of *Vrikshit 2025*, EPAC organized a vibrant **poster-making competition** at a nearby school for students of classes 2 to 5. The event aimed to nurture creativity, artistic expression, and awareness among young minds. The children enthusiastically participated, showcasing their imagination and ideas through colourful and thoughtful posters. To recognize their efforts and talent, prizes were awarded to the **top three participants**, encouraging them to continue exploring their artistic potential.

NAME OF EVENT: Plantation drive

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Kislaya Vidya Mandir
Duration (1 Day)	8th February 2025
No. of Student Volunteers	17
Dr. Neeta Kumari and Suman Thakur(Principal) planting saplings at Kislaya Vidya Mandir, Mesra	Dr. Shruti Garg planting saplings in the assigned area at Kislaya Vidya Mandir, Mesra

Description

The plantation drive at Kislaya Vidya Mandir which empowered and encouraged the youth of India to understand the problems with our ecological system. Later, the Planting of Saplings under the guidance and presence of our Faculty Advisor Dr. Neeta Kumar and Dr. Shruti Garg (Department of Computer Science and Engineering) along with Suman Thakur the Principal of the school embedded a sense of responsibility and awakening in the young minds.

Entrepreneurship Development Cell

The Entrepreneurship Development Cell (EDC) at BIT Mesra continues to be a nucleus of innovation, leadership and entrepreneurial action.Through thoughtfully curated events, mentorship driven sessions and industry led collaborations, EDC strives to nurture entrepreneurial potential and equip students with the skills to navigate and thrive in startup ecosystem

Upskilling Session (June 2024)

A practical training session aimed at equipping students with in-demand skills like digital marketing, data-analytics, and startup finance. The,session featured expert-led workshops and tool based learning to enhance entrepreneurial readiness

Innovate -A-Thon (2024)

A high-energy ideation and innovation sprint that challenged participants to identify real-world problems and develop viable solutions within 24 hours. The event encouraged interdisciplinary collaboration and culminated in idea pitching to a panel of mentors and industry experts

Marketing Maestro (October 2024)

This competition tested students on various facets of marketing such as market analysis, branding, and creative storytelling. The event included a workshop by marketing professionals, followed by interactive case studies and live campaign simulations

Big Cohort Winter (January 2025):

A unique winter incubation initiative designed to immerse students in the entrepreneurial journey. The program combined mentorship, weekly assignments, pitch refinement, and feedback loops, enabling participants to shape scalable startup ideas. Selected teams received continued mentorship beyond the program

E-Summit (February 2025)

The entrepreneurial summit brought together students, founders, and ecosystem enablers for a day of dialogue and discovery. With panel discussions, startup showcases, and interactive networking spaces, the summit gave participants exposure to new-age business models, startup financing, and growth strategies

Distinguished Speaker Sessions (February 2025)

As part of its annual speaker series, EDC hosted two impactful sessions featuring industry leaders. Amit Chaudhary, Co-founder of Lenskart, shared his journey of scaling a consumer brand in India, highlighting strategic innovation and operational excellence. The second session, conducted under the AIKG Youth Code initiative by Groww, focused on the rise of fintech and the importance of financial literacy among youth, emphasising technology-driven accessibility and investment awareness

Pitch Summit – Pw School Of Startups (March 2025)

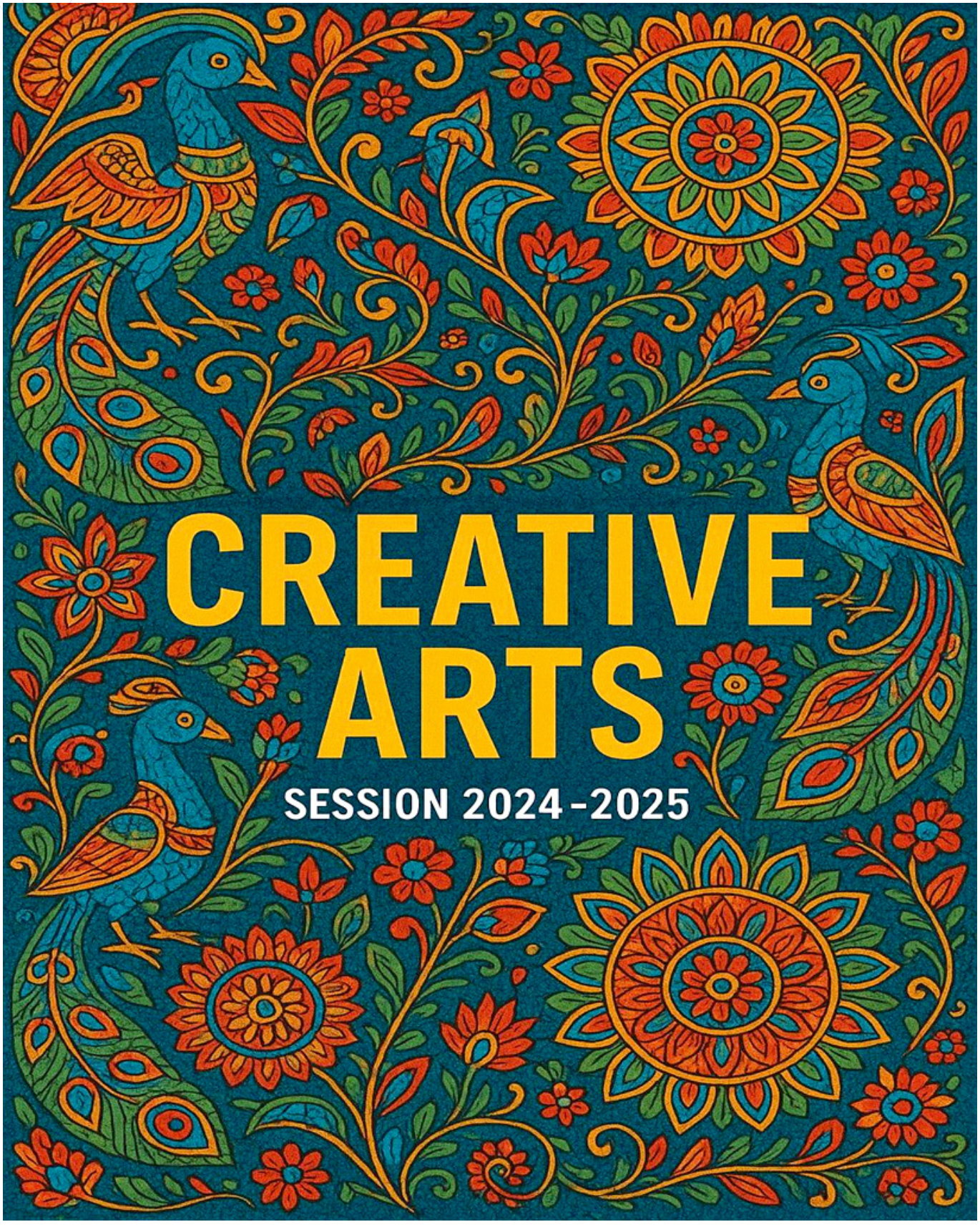
In collaboration with PW's School of Startups, this event was designed as a platform for emerging entrepreneurs to present their business models to industry mentors and receive constructive feedback. Participants underwent mock pitching rounds, received one-on-one coaching, and refined their communication strategies, investor narratives, and startup roadmaps

Upskilling Session (June 2025)

After acquiring these in-demand skills in the intern cycle, EDC members successfully secured internships that too in their first year at reputed startups across diverse domains aligned with their interests.Various sessions were organised on web development, Tech, Design, Linked in, cold mailing, loom video, digital marketing, stock investment , Digital marketing and Pitching session These opportunities not only provided real-world exposure but also helped them build strong professional networks, boost their confidence, and gain clarity on their career paths. This early industry experience has set a solid foundation for their future endeavours.

Intern Cycle(June-July 2025)

An intensive upskilling session was organised, covering Web Development, Digital Marketing, LinkedIn Optimisation, Cold Emailing, Loom Video Presentations, and several other professional skills equipping participants with the expertise to excel in today's competitive landscape.As a result, 35 internship offer have been secured across diverse sectors 16.1%in IT and Software ,16.1%Engg & Mnf, 22.6% in Media, Health &Biotech 9.7% , Fin tech 12.9%, 16.1 % in E Comm and other domains


CREATIVE
ARTS
SESSION 2024-2025

CREATIVE ARTS

Introduction

The Creative Arts course at BIT Mesra offers students a platform to explore and refine their artistic sensibilities through a broad and inclusive approach. Under the mentorship of Mr. Mrinal Kumar Pathak and Mrs. Alka Shrivastava, the course fosters creativity, self-expression, and aesthetic appreciation. As a mandatory part of the academic curriculum, it reflects the institute's vision of nurturing well-rounded individuals by integrating artistic learning with intellectual growth. Students are encouraged to immerse themselves in diverse perspectives, cultivating a thoughtful and imaginative outlook through the universal language of art.

Objectives

1. **Encourage Creative Expression**

   Develop students' ability to explore and express their creativity through various art forms—music, visual arts, and sculpture.

2. **Foster Artistic Skills**

   Build foundational skills in illustration, color, composition, and performance through practice and guided instruction.

3. **Promote Cultural Awareness**

   Expose students to diverse cultural traditions and heritage, reinforcing cultural sensitivity and appreciation.

4. **Cultivate Collaborative Projects**

   Enhance teamwork and communication by organizing joint activities, group performances, and collective art installations.

Activities

Independence Day – 15th August 2024

As part of the Independence Day program, the Creative Arts team performed a curated selection of national songs that resonated with the audience. The musical segment was a heartfelt homage to India's freedom struggle and underscored the importance of cultural expression in national events.

Republic Day – 26th January 2025

The students of Creative Arts contributed to the Republic Day celebration by presenting a moving and patriotic musical performance during the flag hoisting ceremony. Their rendition of national songs added emotional depth and a strong sense of pride to the occasion, reflecting the values of unity and dedication.

Institute Prayer

The Institute Prayer Team, comprising students from the Creative Arts subject, actively participated in all major institutional events throughout the academic year. Their disciplined and harmonious rendition of the prayer marked the opening of each occasion, creating a calm, respectful, and unified atmosphere. Whether during national celebrations or formal functions, the team's presence consistently added a thoughtful and meaningful beginning to every gathering.

Sculpture Workshop

The Sculpture Workshop offered students hands-on experience in clay modeling and form-building, guided by expert artists. Through collaborative work and creative exploration, students developed a deeper appreciation for three-dimensional art and showcased their creations in an engaging display.

Sanskritik Bharat Mahotsav

The Sanskritik Bharat Mahotsav, held on 12th–13th April 2025, was a vibrant celebration of India's cultural diversity, brought to life by the passionate efforts of Creative Arts students. The event was thoughtfully divided into four zones—North, South, East, and West—each showcasing distinctive regional traditions, art styles, and heritage.

Highlights included student-led art exhibitions, intricately crafted sculptures, and an interactive sculpture workshop. The cultural showcase featured soulful classical music, Prabhat Sangeet, expressive dance performances, a compelling stage play, and a traditional fashion show that reflected the spirit of Indian attire.

Institute Club Activities (2024-2025)-

ACM BIT MESRA

1. About Us :-

ACM BIT Mesra is the student chapter of the Association for Computing Machinery, a premier technical club focused on enhancing students' problem-solving and coding skills. The club organizes workshops on Data Structures & Algorithms and Competitive Programming, hosts coding marathons like CQM-07, and flagship competitions such as

Codezilla. It also collaborates with the Institution's Innovation Council and the CSE department for major events like the internal round of the Smart India Hackathon.

2. Achievements :-

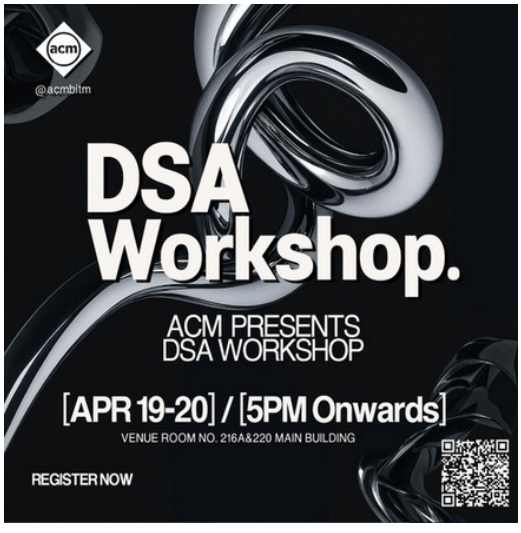
The club's primary achievements are the successful organization of its numerous high-engagement workshops and coding competitions throughout the academic year.

Successfully co-organized the prestigious internal round for the Smart India Hackathon (SIH) 2024 in collaboration with the IIC and CSE Department.

Hosted their flagship coding competition, Codezilla, which challenged teams with its unique role-switching format.

3. List of events in session in 2024-25 :-

- Internal Hackathon for Smart India Hackathon 2024 (September 7-8, 2024)
- Into the TechVerse (Multi-domain workshop) (October 18, 2024) Codezilla
- (during Pantheon, October 2024)
- CQM-07 (Coding Marathon) (January 29, 2025)
- Competitive Programming Workshop (February 9-10, 2025)
- Fool's Quest (during BITOTSAV) (March 21, 2025)



TEAM AVEON RACING

1. About Us :-

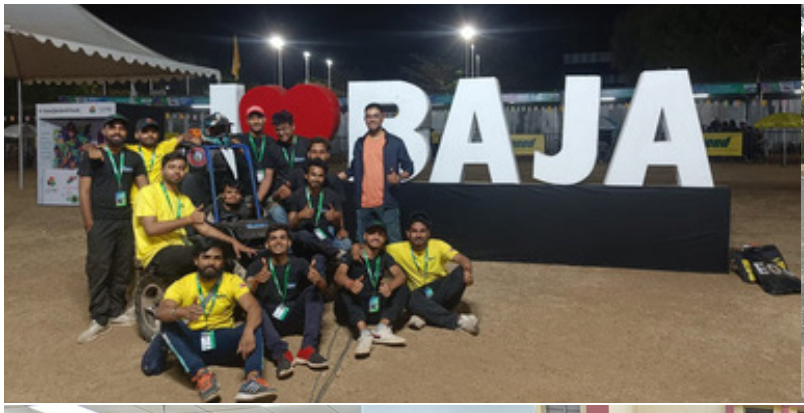
Team Aveon Racing is the official e-ATV (electric all-terrain vehicle) team of BIT Mesra, dedicated to innovation, sustainability, and engineering excellence. We design, build, and race high-performance electric ATVs, proudly competing in events like eBaja SAE India. Our multidisciplinary team of mechanical, electrical, and management enthusiasts collaborates to transform ideas into reality developing future-ready engineers and driving the vision of sustainable motorsports forward.

2. Achievements :-

- 1st in innovation in e-baja India 2025
- Third in cost report in e-baja India 2025

3. List of events in session in 2024-25 :-

- BAJA by SAE India and
- ChargeX
- Workshops : -
- Automobile designing using solidworks and catia
- Analysis using Ansys and Lotus
- PCB designing
- Cutting , Notching and Safety



ROTARACT CLUB

1. About Us :-

The Rotaract Club of BIT Mesra, the official student chapter of Rotary, is a vibrant hub where young minds come together to spark change. Through dynamic socio-cultural events and real-world leadership experiences, the club empowers students to uplift communities and grow into tomorrow's changemakers. Its mission is to make a positive impact through service and collaboration.

2. Achievements :-

The club successfully organized several large-scale events with high footfall. Their 'Gokulashtami' Dahi-Handi event attracted a footfall of over 1200 people. Their freshers' event, 'Aagman', was attended by over 1400 people.

During BITOTSAV, they organized popular events like 'Mr. & Ms. BITOTSAV' and 'BIT Roadies', which attracted over 180 and 200 participants respectively.

3. List of events in session in 2024-25 :-

- Gokulashtami (2024)
- Aagman (2025)
- Among Us (during Pantheon '24)
- Mr. & Ms. BITOTSAV (during BITOTSAV '25)
- BIT Roadies (during BITOTSAV '25)

AEROSPACE SOCIETY

1. About Us :-

The Aerospace Society is a team of driven, interdisciplinary engineering students from BIT Mesra, passionate about tackling aerospace challenges. They participate in prestigious competitions like SAE Aero, and their platform highlights the talents of budding engineers. The society fosters the development of innovative solutions for advanced aerospace systems, encouraging hands-on learning and practical application of engineering principles.

2. Achievements :-

Had the significant opportunity to showcase their innovative Unmanned Aerial Vehicle (UAV) designs to industry leaders and military personnel.

Presented their innovative UAV designs to the Honorable President of India, Smt. Droupadi Murmu.

Also showcased their projects to esteemed dignitaries including Chairman Mr. C.K. Birla and the Governor of Jharkhand, Mr. Santosh Gangwar.

3. List of events in session in 2024-25 :-

- Workshops: 3D Printing, Python, CANSAT, Aero Modeling, and Flight Sessions.
- Events: Altitude Adventure, Skyfall Scramble, Flight Simulation, Aero Quiz, Satellite Tracking, and Astrography.

BIOTS CLUB

1. About Us :-

BIOTS Club at BIT Mesra is an active group focusing on biotechnology and life sciences. The club aims to foster technical knowledge and creative skills among students by organizing a variety of programs. These include webinars on technical topics like biotechnology and IPR featuring industry experts, as well as events that challenge students' creativity and analytical skills, such as 'Mind Craft' and 'Forensic Minds'.

2. Achievements :-

- The club's primary achievements for the year were the successful organization of its various events.
- The flagship 3-day event 'LUMINAIRE' was a major success, featuring multiple sub-events like 'Mind Craft' and 'Forensic Minds'.
- High participation was recorded in major events, including 'Hera Pheri: Phir Se' with 98 teams and 'Wiki-Wars' with 88 teams.
  The club also organized insightful webinars with industry experts such as Rahul Thakur
- (UPenn Researcher) and Mr. Nitesh Prasad (YouTuber).

3. List of events in session in 2024-25 :-

- Webinar on Unlock the Future in Biotechnology (September 7, 2024)
- Wiki-Wars (PANTHEON) (October 6, 2024) Inauguration & Speaker
- Session (LUMINAIRE) (January 25, 2025)
- Webinar on Intellectual Property Rights (IPR) (January 25, 2025)
- Mind Craft (January 26, 2025)
- Forensic Minds (January 26, 2025)

DANCE CLUB

1. About Us :-

The Dance Club is a prominent cultural club at BIT Mesra dedicated to various forms of dance. Its main objective is to provide a platform for students to showcase their dancing talent and develop their skills. The club organizes its signature cultural fest, 'Dhanak', along with workshops and performances for major campus fests like Pantheon and BITOTSAV. The club aims to foster a vibrant dance community and represent the institute in inter-college events.

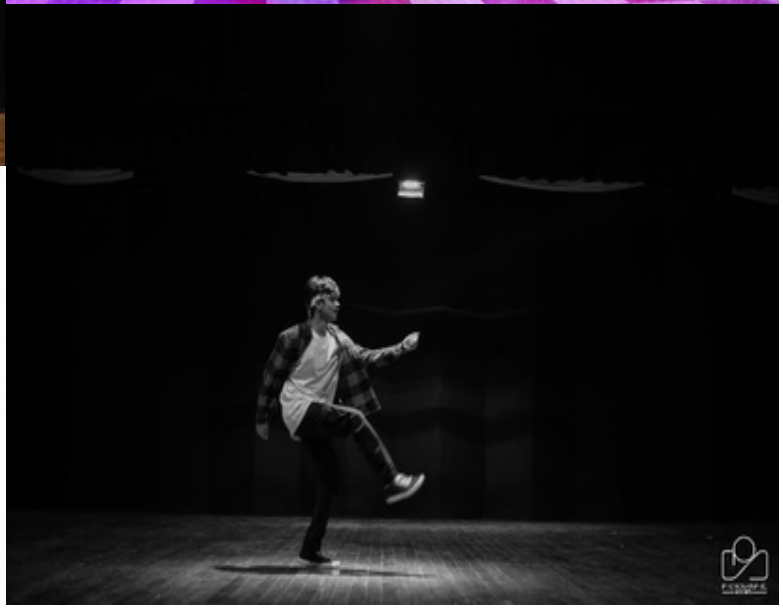
2. Achievements :-

- Successfully organized its flagship cultural extravaganza, 'Dhanak', which celebrated creativity and talent through a blend of music, dance, and fashion.
- Represented the institute at a national level by participating in the 'Mood Indigo' festival at IIT Bombay.
- Played a key role in major campus festivals like Pantheon and BITOTSAV by organizing multiple events, including 'Razzmatazz', 'Dance Saga', and 'Footloose'.
- Conducted numerous dance workshops throughout the year to teach various dance forms like Waacking, House, and Hip-Hop.

3. List of events in session in 2024-25 :-

- Belleza (Weekender) (August 24, 2024)
- Dhanak (September 7, 2024)
- Workshop 1 (September 27-28, 2024)
- PANTHEON (Theme Release) (September 28, 2024)
- PANTHEON (Inauguration) (October 4, 2024)
- Razzmatazz (PANTHEON Event) (October 5, 2024)
- Workshop (October 15, 2024)
- Mood Indigo (IIT Bombay) (December 25, 2024)
- Aagman (in collaboration with Rotaract Club) (January 12, 2025)
- Choreo Combat Phase 1 (January 15, 2025)
- Weekender (January 26, 2025)
- Crew Auditions (January 31, 2025)
- Choreo Combat Phase 2 (March 18, 2025)
- BITOTSAV (Inauguration) (March 19, 2025)
- Dance Saga (BITOTSAV) (March 21, 2025)
- Footloose (BITOTSAV) (March 23, 2025)

BELIEZA



DHWANI - MUSIC CLUB

1. About Us :-

Dhwani Music Club, BIT Mesra, is a vibrant community of music enthusiasts dedicated to nurturing talent and fostering a passion for music. The club provides a platform for students to showcase their musical creativity by hosting a wide range of events, workshops, and performances. It aims to create an engaging and supportive environment where musicians can collaborate, learn, and grow together.

2. Achievements :-

- Secured First place in "Singing the Indigos" at Mood Indigo '25.
- Secured Second place in "MI Tunes" at Mood Indigo '25.
- Secured Third place in "Virtuoso" at Mood Indigo '25.

3. List of events in session in 2024-25 :-

- Live Jam (100+ Footfall) Naad
- '25 (500+ Footfall) Music in a
- Minute (80+ Footfall)
- Music Workshops (200+ Footfall) Musicpedia (10+ Weeks)
- Cover the Summer (10+ Weeks)

EHSAAS DRAMATICS SOCIETY

1. About Us :-

Ehsaas Dramatics Society is one of the most prominent clubs at BIT Mesra, with a rich legacy of over a decade that has seen many talented actors, writers, and directors. The society is a team of drama and theatre enthusiasts who engage in a diverse variety of art forms. These include stage plays, street plays, musical skits, stand-up comedy, and short filmmaking, providing a creative outlet for all its members.

2. Achievements :-

- Secured 2nd Rank in both the Street Play and Short Film competitions at Mood Indigo, IIT Bombay.
- Achieved 1st Rank in the Mime competition at Kashiyatra, the cultural fest of IIT BHU.
- Won both 1st and 2nd Ranks in the Stage Play event 'Abhinay'.
- Won 1st and 3rd Ranks in the Monoact event 'Natsamrat'.
- Their short film was nominated for the prestigious Jaipur International Film Festival.

3. List of events in session in 2024-25 :-

- 15th August Street Play
- Dramanite
- Pukaar
- Natsamrat
- The Final Cut
- Apoorv Dramzest

ENVIRONMENT PROTECTION AND AWARENESS CLUB (EPAC)

1. About Us :-

EPAC is a student club at BIT Mesra with the sole motive to instigate students to proactively contemplate the detrimental effects on our environment. The club aims to improvise existing systems in favor of nature and has started a plethora of initiatives to aid the upliftment of the environment. They work in consonance with the latest advancements in technology to bring about small differences that might lead towards a huge change.

2. Achievements :-

- Successfully orchestrated the 'Jharkhand Science and Environment Festival (JSEF)', an annual event promoting scientific inquiry and ecological mindfulness through competitions like science exhibitions and debates.
- Organized 'Vrikshit 2025', a plantation drive at Kislaya Vidya Mandir, which also engaged school children through creative events like Origami and Poster Making competitions.
- Hosted 'Jungle Joust 2.0', a popular one-day BGMI eSports competition that was live-streamed on YouTube, engaging the campus gaming community.

3. List of events in session in 2024-25 :-

- JSEF (Jharkhand Science and Environment Festival) (August 22, 2024)
- Jungle Joust 2.0 (October 6, 2024)
- Vrikshit 2025 (February 8, 2025)

FINANCE CLUB

1. About Us :-

The Finance Club, IIC, and EDC collaborate to foster a culture of entrepreneurship and innovation at BIT Mesra. Their objective is to identify potential startup ideas through events like the 'Business Plan Competition' and 'BIT-NISHAN'. They ensure that no promising

idea goes untested due to a lack of resources by providing seed funding and other support. Their goal is to provide a strong foundation for students to turn their entrepreneurial dreams into reality.

2. Achievements :-

- Secured funding of ₹10,000 for each of the 26 shortlisted teams from the 'Business Plan Competition-2024' to aid their prototype development.
- Successfully provided seed funding of up to ₹1 Lakh to each of the 10 winning teams of the flagship innovation contest, 'BIT NISHAN-24', for infrastructure backing and startup registration.
- Organized the annual flagship event 'FINSTREET-25', which included 'ENIGMA'-25', a national-level technical case study competition that saw participation from top institutes like IITs and IIMs.

3. List of events in session in 2024-25 :-

- Business Plan Competition-2024 (October 5, 2024)
- BIT NISHAN-24 (December 11, 2024)
- FINSTREET-25 (January 17-19, 2025)

FINE ARTS SOCIETY (FAS)

1. About Us :-

The Fine Arts Society (FAS) is the creative club of BIT Mesra, dedicated to visual arts and artistic expression. The society takes on the primary responsibility of decorating the campus for major fests like Pantheon and BITOTSAV. They organize their annual flagship event, 'Spectra', which includes a variety of art competitions such as painting, sketching, and tattoo making. FAS also collaborates with other clubs and external organizations like Google Developer Groups on design-related projects.

2. Achievements :-

- Spearheaded the decoration for the two major college fests, Pantheon '24 and BITOTSAV'25, creating major attractions like large posters and staircase art.
- Collaborated as the official Design Partner for 'DevFest 2024', a national event organized by Google Developer Groups Ranchi, handling stage decorations and selfie props.
- Successfully conducted two editions of its annual flagship event, 'Spectra' ('24 and '25), which saw high participation in various art competitions like sketching, painting, and tattoo making.

3. List of events in session in 2024-25 :-

- Welcome K24 Staircase (August 21, 2024) Spectra 24 (August 21-24,
- 2024) Pantheon 24 (October 4-6, 2024)
- DevFest 24 (October 19, 2024)
- Spectra 25 (March 7-9, 2025)
- BITOTSAV'25 (March 20-23, 2025)

IEEE STUDENT'S BRANCH

1. About Us :-

The IEEE Student's Branch is a distinguished student-led organization dedicated to fostering an inclusive and forward-thinking environment for technology enthusiasts. It brings together passionate individuals from diverse backgrounds to explore emerging technologies and programming paradigms. IEEE serves as a vibrant platform for exchanging ideas, collaborating on innovative projects, and growing through immersive experiences such as workshops, seminars, and hackathons.

2. Achievements :-

- Organized 'Cicada CTF', a 36-hour online ethical hacking event held during Pantheon 2024.
- Conducted 'L.E.A.D 5.0', a 3-week flagship mentorship initiative designed to foster innovation and hands-on learning.
- Hosted the 'Mega Project Challenge', inviting students to build innovative projects in domains like Web Development and Machine Learning with prizes worth ₹15,000.
- Introduced 'ASK GPT', an innovative event where participants solved programming problems by guiding ChatGPT with prompts instead of writing code.

3. List of events in session in 2024-25 :-

- Cicada CTF (during Pantheon 2024)
- C++ Workshop (October 27-29, 2024)
- Mega Project Challenge (December 20, 2024 - January 18, 2025)
- Where in BIT (during BITOTSAV'25)
- ASK GPT (during BITOTSAV 2025)

INSTITUTION OF ENGINEERS (INDIA) STUDENT'S CHAPTER (IEI)

1. About Us :-

The Institution of Engineers (India) [IEI] is a statutory body established in 1920 to promote and advance engineering and technology. The student's chapter at BIT Mesra aims to provide opportunities for technical growth, soft skills development, and industrial exposure to the institute's upcoming engineers, serving as a platform for holistic professional development.

2. Achievements :-

- The club's primary achievement is the successful execution of its diverse range of events throughout the year.
- Their 3-day long flagship event, 'Aarohan', concluded successfully in March with over 500+ footfalls across four of its events.
- They conducted numerous other workshops and seminars with high participation rates, such as the AutoCAD Workshop and Alumni Talk, each with over 100 participants.

3. List of events in session in 2024-25 :-

- Interactive seminars on Govt. exams, Construction Management, and Career Guidance.
- "Save The Egg" and "DodgeBall" events.
- "En Chessant" and "The Tallest" during BITOTSAV'25.
- "AutoCad Workshop" and "Alumni Talk" with notable alumni.
- Flagship 3-day event 'Aarohan' (March 2025).

THE INSTITUTION OF ENGINEERING AND TECHNOLOGY (IET) STUDENT'S CHAPTER

1. About Us :-

The IET Student's Chapter is a student body of The Institution of Engineering and Technology. The chapter at BIT Mesra aims to provide opportunities for technical growth, soft skills development, and industrial exposure to the institute's upcoming engineers. The chapter's goal is to offer a holistic platform for the professional development of students through workshops, events, and seminars.

2. Achievements :-

- In collaboration with IEEE, organized a massive C++ workshop for over 350 first-year students to introduce them to programming.
- Conducted 'Hatch from Scratch', a 24-hour hackathon during Pantheon ’24 where teams transformed their ideas into tangible prototypes.
- Organized 'Code Joust' (a pair programming showdown) and 'Speed Forces' (a speed coding challenge) during BITOTSAV '25, promoting collaborative problem-solving and algorithmic skills.

3. List of events in session in 2024-25 :-

- Hatch from Scratch (Pantheon '24) (October 5, 2024)
- Workshop on C++ (October 27-29, 2024)
- Code Joust & Speed Forces (BITOTSAV '25) (March 22-23, 2025)

IETE STUDENTS' CHAPTER BIT MESRA

1. About Us :-

The IETE (Institution of Electronics and Telecommunication Engineers) Students' Chapter is a technical club focused on enhancing student skills in electronics, telecommunication, and web development. The club emphasizes practical knowledge by organizing various

hands-on events. These include hackathons like 'Devquest' and 'ByteBuildathon',

hardware challenges such as 'Connect-o-thon', and creative-technical games like 'Hand in Brain', all designed to foster innovation and teamwork among students.

2. Achievements :-

- Organized its flagship event 'DevQuest', which included a web development competition and a treasure hunt, attracting over 400 participants.
- Hosted 'Connect-o-thon', a unique event where teams competed in a fun quiz on electronics and then faced the challenge of building a PC from scratch.
- Conducted 'ByteBuildathon', a hackathon where participants worked on real-world problems in Web Development, Cybersecurity, and Machine Learning.

3. List of events in session in 2024-25 :-

- Devquest (August 30 - September 1, 2024)
- Connect-o-thon (during Pantheon '24)
- ByteBuildathon (March 17-18, 2025)
- Hand in Brain (during BITOTSAV '25)

INDIAN INSTITUTE OF CHEMICAL ENGINEERS (IICHE) STUDENT CHAPTER

1. About Us :-

The IIChE Student Chapter at BIT Mesra operates under the Department of Chemical Engineering. It aims to provide a platform for the technical and professional development of chemical engineering students. The chapter organizes its annual technical fest,

'Coalescence', which includes industrial speaker sessions from experts in the energy and corporate sectors. Through events like 'Chemipedia' and 'Scenario Synthesis', it promotes problem-solving skills and engineering knowledge among students.

2. Achievements :-

- Successfully organized its flagship fest 'Coalescence'25'. The fest featured speaker sessions by
- distinguished industry experts, including Dr.
- Prakash D. Chavan, Chief Scientist at CSIR-CIMFR, and Mr. Sushil Lohia, Director at KPMG India.
- The fest included several engaging technical events such as 'Chemipedia' (a Wikipedia-based race), 'Scenario Synthesis' (a case study competition), and 'Crack N Roll' (a quiz), which attracted significant student participation.

3. List of events in session in 2024-25 :-

- Industrial Speaker Session I (Dr. Prakash D. Chavan) (March 8, 2025)
- Chemipedia (March 8, 2025)
- Scanerio Synthesis (March 8, 2025)
- Industrial Speaker Session II (Mr. Sushil Lohia) (March 8, 2025)
- Crack N Roll (March 9, 2025)
- Industrial Speaker Session III (Mr. Umakant Sahoo) (March 9, 2025)

THE LITERARY SOCIETY (LITSOC)

1. About Us :-

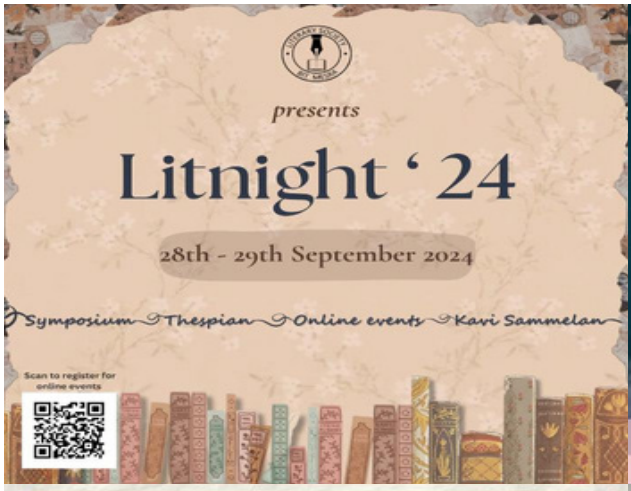
The Literary Society is a prominent organization that celebrates poetry, literature, drama, and lyrics, hosting one of the largest literary fests in Eastern India, ROSTRA. It provides a stage for literary enthusiasts to showcase their rhythm, eloquence, and command of language. The society aims to rekindle creativity, passion, and brilliance among students through its diverse set of events.

2. Achievements :-

- Abhay Tripathi secured 1st Position in the event “Madhurima” at the annual cultural fest of IIT BHU.
- Arundhuti Mukherjee secured 1st Position in the event “Legend of Sir Speak-a-lot” at the IIT BHU fest.
- Adityya Roy secured 3rd Position in the same “Legend of Sir Speak-a-lot” event, highlighting the society's competitive public speaking and literary prowess.

3. List of events in session in 2024-25 :-

- LitNight'24 (September 28-29, 2024)
- Rostra’25 (February 8-9, 2025)
- Literary Workshops (February 6 - March 5, 2025)



NATIONAL CADET CORPS (NCC), BIT MESRA

1. About Us :-

The 3 Jharkhand Composite Technical Company, NCC BIT Mesra provides enrolled cadets with training equivalent to the army, focusing on their theoretical, physical, emotional, and social development. The cadets are trained to inculcate qualities of leadership along with feelings of patriotism. The unit aims to develop character, discipline, and a sense of selfless service among the youth.

2. Achievements :-

- A total of 31 students successfully cleared the B Certificate Exam in 2025. A
- total of 47 students successfully cleared the C Certificate Exam in 2025.

3. List of events in session in 2024-25 :-

- Kargil Vijay Diwas (July 26, 2024)
- Independence Day Parade (August 15, 2024)
- ADG Visit (August 16, 2024)
- Puneet Sagar Abhiyaan (River Cleaning Initiative) (August 31, 2024)
- Republic Day Parade (January 26, 2025)
- BLS and Cancer Seminar (March 11, 2025)

NEWS AND PUBLICATION SOCIETY (NAPS)

1. About Us :-

The News and Publication Society (NAPS) is the foremost student-run campus media body at BIT Mesra, playing a crucial role in bridging the gap between the institution and its students. It delivers timely and accurate coverage of all major campus events. The team is responsible for crafting detailed reports, conducting interviews, and archiving event highlights. The society aims to cultivate an informed and expressive student community.

2. Achievements :-

- Served as the official "Media Partner" at DevFest'24, an event organized by Google Developer Group Ranchi, where they conducted interviews with tech experts.
- Successfully revived the official quarterly newsletter of BIT Mesra, 'Bit by Bit'.
- Launched a flagship interview series, 'We the BITians', featuring accomplished seniors who secured prestigious placements at companies like Microsoft and Morgan Stanley.
- Authored and published a total of 60 editorials across its Summer and Winter editions on various relevant topics.

3. List of events in session in 2024-25 :-

- JournoCon'24 (September 28-29, 2024)
- The Journalist's Hour (October 5, 2024)
- Beyond The Screen (BITOTSAV) (March 22, 2025)
- K.B.C (Kaun Banega Collector) (BITOTSAV) (March 23, 2025)

NATIONAL SERVICE SCHEME (NSS)

1. About Us :-

The National Service Scheme (NSS) at BIT Mesra is a community service organization aimed at developing a sense of social responsibility and service among students. The NSS unit organizes numerous drives and campaigns to promote environmental conservation, health awareness, and social welfare. Volunteers engage in activities like tree plantation, blood donation, and awareness drives in nearby villages on issues like sanitation, disease prevention, and the importance of education.

2. Achievements :-

- Volunteers attended the National Integration Camp in Patna from December 12-18, 2024, gaining an uplifting and informative experience.
- Volunteers attended the National Youth Festival in Delhi (January 10-12, 2025) and had the opportunity to present ideas on improving Indian Agriculture in front of the Hon'ble Prime Minister Narendra Modi.
- Successfully organized two Blood Donation Camps, collecting a total of over 500 units of blood (400+ in the first camp, and 100+ in the second).

3. List of events in session in 2024-25 :-

- Prabhat Pheri (August 15, 2024)
- Tree Plantation Drive (September 7, 2024)
- Organ Donation Drive (September 21, 2024)
- Blood Donation Camp (October 2, 2024)
- Plastic Free Awareness Drive (October 6, 2024)
- Awareness Drive on "Malaria And Dengue" (October 13, 2024) Awareness Drive on "Nasha Mukti Abhiyan" (October 20, 2024) Awareness Drive on "Say No To Junk Food" (October 27, 2024) Awareness Drive on "Cyber Fraud" (November 3, 2024) Seminar on Youth Day (January 12, 2025)
- Awareness drive on the importance of education (January 23, 2025)
- Prabhat Pheri (January 26, 2025)
- Awareness on Swachh Bharat Abhiyan (February 17, 2025) Mental Health Workshop (April 3, 2025)
- Awareness session on Blood Donation (April 10, 2025)
- Blood Donation Camp (April 12, 2025)

BIRLA INSTITUTE OF TECHNOLOGY
प्रभात फेरी

बिरला प्रौद्योगिकी संस्थान
मेसरा, झारखंड - 835215
राष्ट्रीय सेवा योजना

PHOTOGRAPHIC SOCIETY (PSOC)

1. About Us :-

The Photographic Society of BIT (PSoc) is a dedicated community of photographers capturing moments that reflect campus life. They cover major events like BITOTSAV and PANTHEON, along with official photoshoots for administrative programs and department functions. The club regularly conducts exhibitions, workshops, and creative projects to encourage learning and growth, contributing to a vibrant culture of photography and storytelling within the institute.

2. Achievements :-

- The society's primary achievement is their extensive and official coverage of all major campus events, creating a vital visual archive for the institute.
- Successfully organized 3 workshops and 6 photowalks during the 2024-25 session.
- Their creative projects and competitions like 'YULE' and 'Yaadein' saw significant engagement, receiving 43 and 73 entries respectively.

3. List of events in session in 2024-25 :-

- Organized 3 Workshops.
- Conducted 6 Photowalks.
- Hosted creative projects and competitions including YULE, Yaadein, BPW, and LRW.

SOCIETY FOR DATA SCIENCE (SDS)

1. About Us :-

The Society for Data Science (SDS) is a technical society focused on data science, AI, and machine learning. They organize bootcamps, workshops, and a flagship 'Data Science Summit' to equip students with practical knowledge and hands-on experience in areas like Generative AI and RAG pipelines. Their events, including hackathons and coding cups, challenge participants to solve real-life problems and foster a culture of data literacy and innovation.

2. Achievements :-

- Successfully conducted a 'Generative AI and RAG Bootcamp' in collaboration with 'Pathway', which saw participation from 248 students.
- Their 'Data Science Summit 2024' was a major success, featuring a 24-hour hackathon, treasure hunt, and coding competitions for 150 participants.
- Their 'ML Workshop 2025' trained 200 participants in essential tools and concepts like Power BI, neural networks, and image processing.

3. List of events in session in 2024-25 :-

- Generative AI and RAG Bootcamp (Started June 10, 2024)
- Data Science Summit 2024 (September 6-8, 2024)
- Talking Prompt (Pantheon) (October 6, 2024)
- ML Workshop 2025 (February 8-9, 2025)
- Spotify Wrapped (BITOTSAV) (March 21, 2025)

SOCIETY FOR INDUSTRIAL MANAGEMENT AND ENGINEERING (SIME)

1. About Us :-

The Society for Industrial Management and Engineering (SIME) at BIT Mesra empowers students through industry-focused initiatives. It organizes events, workshops on software like ANSYS, and its flagship fest 'VERVE' to enhance technical and management skills.

SIME aims to bridge the gap between theory and practice through webinars with industry leaders, video series on supply chain concepts, and research projects, shaping future-ready professionals.

2. Achievements :-

- Members successfully completed and published 11 research reports on diverse topics such as data analytics, CAR T-Cell Therapy, EV futures, and Supply Chain Management.
- Successfully organized the flagship fest 'VERVE'24', which featured a treasure hunt with 91 participating teams and a business competition named 'Pizza Cube'.
- Launched the 'Flow Fables' video series to simplify supply chain concepts and the 'Curiosity Comet 3.0' Instagram series on emerging tech.

3. List of events in session in 2024-25 :-

- Verve'24 Opening Ceremony (August 30, 2024)
- Workshop: Hands-On ANSYS and OpenFOAM (August 31, 2024)
- Anvil (October 5, 2024)
- Workshop: Supply Chain Management (February 8, 2025)
- Sherlocked (BITOTSAV'25) (March 13, 2025)

SPICMACAY, BIT MESRA CHAPTER

1. About Us :-

The SPICMACAY (Society for the Promotion of Indian Classical Music and Culture Amongst Youth) chapter at BIT Mesra is dedicated to celebrating and promoting India's rich cultural heritage. The club organizes and collaborates on various cultural events, featuring performances of Bharatanatyam, Kathak, and Indian classical music. They host quizzes and competitions related to mythology and culture to foster cultural appreciation and awareness among students.

2. Achievements :-

- Successfully collaborated with various other clubs to infuse cultural performances into their events.
- Delivered a vibrant Bharatanatyam and semi-classical dance performance at the 'Verve' opening ceremony.
- Presented a mesmerizing fusion dance at the 'Aagman' freshers' event.
- Showcased Kathak and a unique rap-classical music fusion at the 'BITMUN' cultural evening.
- Hosted its own successful events during the VIRASAT fest, including 'Swarangini', a classical music competition.

3. List of events in session in 2024-25 :-

- Verve (August 30, 2024)
- Movie Pictionary (Pantheon) (October 6, 2024)
- Aagman (January 10, 2025)
- Swami Vivekanand Study Circle (January 12, 2025) BITMUN (January 19, 2025)
- Chaturang Chakravyuh (March 8, 2025)
- Swarangini (March 8, 2025)
- Taal Tarang (March 9, 2025)
- Mayajaal (March 9, 2025)

SPORTS AND ADVENTURE CLUB (SAC)

1. About Us :-

The Sports and Adventure Club (SAC) is dedicated to promoting sports and adventure activities. The club organizes both e-sports tournaments like 'Valo-Vortex' and 'College Rivals', as well as physical sports events such as the 'Futsal Tournament' and 'Chess Tournament'. The club also hosts fun, team-based physical challenges like 'Race Rumble' during college fests, encouraging a competitive spirit and teamwork among students.

2. Achievements :-

- Successfully organized 'College Rivals', described as "India's biggest e-Sports talent hunt," which featured games like BGMI, Valorant, and FIFA and had a footfall of over 600 people.
- In collaboration with the Finance Club, hosted a massive chess tournament during Finstreet '25 with 138 participants and prizes up to ₹10000/-.
- Their 'Futsal 7.0' tournament also saw huge engagement, attracting a footfall of over 800 people.

3. List of events in session in 2024-25 :-

- Valo-Vortex (October 4-5, 2024)
- College Rivals 2 (October 13, 2024)
- Chess Tournament (January 18-19, 2025)
- Futsal 7.0 (March 7-9, 2025)
- Race Rumble (BITOTSAV) (March 21, 2025)

TEAM SRIJAN

1. About Us :-

Team Srijan is the official Formula Student team of BIT Mesra, active since 2007. It comprises 35 undergraduate students from various engineering streams who collaborate to conceive, design, manufacture, and test an Electric Formula-Style race car. The team participates in various national and international Formula Student events held across the globe, aiming to push the boundaries of automotive engineering and innovation.

2. Achievements :-

- In PI-EV 2024, the team secured 1st place in FMEA documentation and an overall rank of 7th out of numerous national and international competitors.
- The team secured the 21st rank in the Formula Bharat Rule Quiz, competing against top institutes like IITs and NITs.
- The team has successfully registered for SUPRA SAE 2025 and is focused on preparations for the competition.
- They have retained the title as the best formula student team in eastern India among institutions like IIT Kharagpur and IIT Guwahati.

3. List of events in session in 2024-25 :-

- Formula Bharat Rule Quiz (May 11, 2024)
- PI-EV 2024 (June 12 - July 21, 2024)
- Team Srijan - Induction Program (September 10, 2024)
- Asta Di Autos (Pantheon) (October 6, 2024)
- Team Srijan - Mega Evaluation (January 19, 2024)
- Pitstop Pursuit (BITOTSAV) (March 23, 2025)

UNNAT BHARAT ABHIYAN (UBA) CLUB

1. About Us :-

The UBA Club at BIT Mesra works towards the upliftment of villages through technology intervention and development planning. The club organizes sensitization programs for students and participates in Gram Sabha meetings to plan village development. Students visit industrial areas and facilities like Bio-Gas plants to understand and develop technology, such as cow-dung log making machines, aimed at improving the economic and agricultural well-being of adopted villages.

2. Achievements :-

- Organized a sensitization program for 30 students to educate them about UBA activities.
- Participated in a special Gram Sabha meeting in Hesal Panchayat to discuss the Village Development Plan.
- Organized a student visit to the Koker Industrial area to observe the manufacturing of a cow-dung log making machine, a technology aimed at helping villagers.
- Arranged a visit for students to a Bio-Gas Plant to understand its processes for potential rural application.
- Green Cooking initiative has been started in Hostel no.11 by left over foods and peels of vegetables through 250 kg per day Biogas plant under the theme Organic Waste to Wealth Creation to reduce LPG consumption which reduce their mess bills.

3. List of events in session in 2024-25 :-

- Sensitization program of UBA Club students (September 14, 2024) Special Gram Sabha meeting (October 2, 2024) Visit to Koker Industrial area (January 14, 2025)
- Visit to Bio-Gas Plant (April 5, 2025)

YUVA TOURISM CLUB

1. About Us :-

The Yuva Tourism Club is focused on promoting environmental conservation and community engagement. The club's primary objective is to increase awareness among students about the importance of environmental preservation and sustainable practices. They organize events such as tree plantation drives to achieve this goal, which not only enhances the campus's green cover but also instills a sense of responsibility among students.

2. Achievements :-

- Successfully organized a tree plantation drive on August 16, 2024.
- During this drive, 25 student volunteers actively participated in the initiative.
- A total of 25 tree saplings were planted within the university campus, contributing to an enhanced green cover.
- The initiative successfully increased awareness about environmental conservation and strengthened teamwork among club members.

3. List of events in session in 2024-25 :-

- Plantation Drive (August 16, 2024)

180 DEGREES CONSULTING (180DC) BIT MESRA

1. About Us :-

180 Degrees Consulting (180DC) BIT Mesra is a student-led organization that provides consulting services to non-profits and socially driven enterprises. As part of the world's largest university-based consultancy, it equips students with real-world consulting experience while creating a meaningful social impact. The organization aims to develop the professional skills of students as they contribute to the betterment of society.

2. Achievements :-

- International Recognition: Secured top positions in multiple international case competitions, collaborating with 180DC branches from top institutions like Georgia Tech, NIT Trichy, and NIT Warangal.
- Cross-Chapter Collaborations: Led and contributed to joint consulting engagements with national and international 180DC chapters, fostering strategic alignment and knowledge sharing.
- 7+ Live Consulting Projects: Delivered high-impact projects across diverse sectors

3. List of events in session in 2024-25 :-

- Consulting Cohort 2024 (October 26-28, 2024)
- Placement Talks 2024 (December 18-25, 2024)
- Consilium 2025 (Spring Semester, 2025)

ROBOLUTION CLUB

1. About Us :-

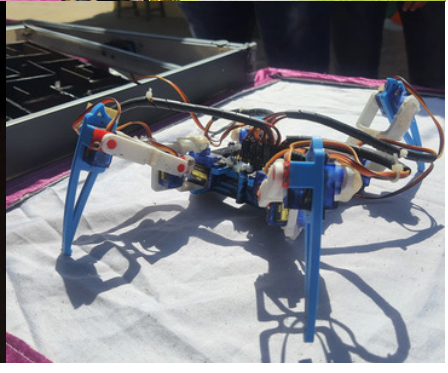
Robolution (Team Pratyunmis) is the official robotics club of BIT Mesra that participates annually in Asia's premier robotics contest, ABU ROBOCON. The team comprises engineers from various departments and batches who possess strong technical knowledge, practical skills, and management abilities. The club's mission is to foster a spirit of creativity and collaboration, building a community that thrives on curiosity, determination, and exploring the vast possibilities within the world of robotics.

2. Achievements :-

- **Roboaviate Competition**: The club secured 2nd place in both the "Roborace" and "Maze Solver" segments of the competition.
- **ISRO Mars Rover Challenge**: The team's design for a six-wheeled rocker-bogie rover was shortlisted among the top concepts in the ideation round of this national-level contest.
- **ISRO Fly Me on Mars** – Drone Project: Their innovative design for a foldable, dust-storm-resistant drone for Martian exploration was shortlisted among the top entries by ISRO.
- **IIT Bombay Techfest - Robowar**: Successfully designed, built, and competed with a unique 15kg combat bot featuring a powerful vertical spinner and an omni-directional drive system.

3. List of events in session in 2024-25 :-

- Gateway to Robotics (Workshop) (January 2-3, 2025)
- Recruitment Drive (January 15-22, 2025)
- RoboSaga'25 (Flagship Fest) (March 7-9, 2025)
- Droid Trooper (Pantheon event) (October 2024)



FIREBOLT RACING

1. About Us :-

FIREBOLT RACING is BIT Mesra's official off-road team, driven by a 15-year legacy. The team consists of undergraduate auto enthusiasts from various engineering streams who fuel their passion for speed by creating All-Terrain Vehicles (ATVs). They compete in BAJA SAE, the world's largest amateur off-road racing championship, showcasing their engineering skills on a global platform.

2. Achievements :-

- **BAJA SAE 2024**: The team placed 4th in Overall Static events and secured the 12th position in the challenging Endurance Race. They also achieved 5th place in the Sales Business Presentation and were recognized for their Cost Presentation.
- **BAJA SAEINDIA 2024**: The team won the prestigious OC Choice Award, highlighting the exceptional quality of their vehicle as recognized by the organizers.
- **BAJA Diaries Challenge**: Secured the 1st place, demonstrating excellence in documenting and presenting their engineering journey.

3. List of events in session in 2024-25 :-

- **BAJA SAE India 2025**: The team showcased its ATV, delivering exceptional design and dynamic performance that earned widespread acclaim for innovation and reliability.
- **Military Expo, Ranchi**: Exhibited their All-Terrain Vehicle before the State Defence Minister and senior military officers, who praised the team's indigenous engineering capabilities.
- **Presidential Visit**: Had the honor of a visit from the President of India, Smt. Droupadi Murmu, recognizing the team's dedication to innovation.
- **Automobile Workshop**: Conducted a workshop on the "Basics of Automobile Engineering" for students, covering vehicle fundamentals and design.
- **CAD Workshop**: Offered hands-on training in computer-aided design, empowering aspiring engineers with 3D modeling skills.
- **Drivecraft**: Hosted a thrilling event that began with an automotive quiz, followed by virtual ATV design and racing challenges.

Department of Physical Education & Sports

1. AVIRABHAAV 24 SPORTS & CULTURAL IN NLU RANCHI (LAW) COLLEGE 13/4/2024 TO 16/4/2024

2. BIT Mesra Institute Team Participated in Sports Fest UDGOSH at IIT Kanpur from 04th October to 06th October 2024. Team participated in four disciplines.

Sl No.	Institute Team Name	Member
1.	Football	16
2.	Badminton	04
3.	Powerlifting	06
4.	Athletics	04
5.	Coach	01
	Total Member's	31

3. Cross country race was organized on 05.10.2024 at sports complex.

Boy's

Sl No	Name	Roll No.	Place
1.	Santosh Hembrom	B.Tech/10675/2024	First
2.	Aditya Mahesh	B.Tech/10978/2024	Second
3.	Prakash Kumar Rai	B.Tech/10346/2024	Third

Girls

Sl No	Name	Roll No.	Place
1.	Priyanka Kumari	BMLT/10036/2024	First
2.	Dipti Kumari	BMLT/10020/2024	Second
3.	Bandaru Tejaswin	B.Tech/10591/2023	Third

4. BIT Mesra Institute Team Participated in Sports Fest UDGOSH - 24 at IIT Kanpur from 04th October to 06th October 2024. Team participated in four disciplines.

1. FOOTBALL	THIRD ROUND	LOST
2. BADMINTON	SECOND ROUND	LOST
3. ATHLETICS	ARVIND BHAGAT B.Tech/10135/2023	SILVER
4. HIGH JUMP	SHREYA ROLL NO . ICH/10001/2022	GOLD MEDAL
5.LONG JUMP	ARVIND BHAGAT B.Tech/10135/2023	BRONZE

POWER LIFTING

1. HARSH KUMAR	BTECH/10156/22 CSE (59KG)	GOLD MEDAL
2. ASHISH SAMANTHA	BTECH/10194/22 ECE (66KG)	SILVER
3. MAYANK MISHRA	BHMCT/10008/21 BHMCT (99+KG)	BRONZE

5. BIT Mesra Institute Team Participated in Sports Fest Spardha- 24 at IIT BHU VARANASI from 18th October to 20th October 2024. Team participated in four disciplines.

- BASKET BALL----------PREE QUERTER FINAL

6. Mr. BIT Body Building Championship held on 22/10/2024 organized by Dr. Mahendra Kumar having chief guest Mr. Onkar Mishra who was none other than Mr. India 2019, was also the chief judge of the event and distributed the prizes at the prizing ceremony to the winners. Spotlight was hold by Ashish Samantha of ECE Department from Mesra Branch.

Group – A

Sl No.	Name	Roll No.	Branch	Center	Place
1.	Ashish Samantha	B.Tech/10194/22	ECE	BIT Mesra	1st
2.	Harsh Kumar	B.Tech/10156/22	Comp. Sc.	BIT Mesra	2nd
3.	Abhishek Soni	BBA/15018/23	BBA	BIT Patna	3rd

Group – B

Sl No.	Name	Roll No.	Branch	Center	Place
1.	Nikhil Kumar	B.Tech/10192/23	AIML	BIT Mesra	1st
2.	Ayush Kumar Singh	BCA/15042/23	BCA	BIT Patna	2nd
3.	Anish Das	B.Tech/10670/21	PIE	BIT Mesra	3rd

Attend the event – Dr. Bhaskar Karn, Dr. V.S Rathore, Dr. K.S. Patnaik, Dr. S.P. Singh , Mr. longia, Dr. Dharmendra Chand, Mr. Narendra Kumar Yadav.

7. The Final match of Inter Hostel Football Tournament played between Hostel No. 12&13 and 10 on 28.10.2024. Hostel No. 10 won the championship. Chief guest Mr. K. Lal distributed the prizes.

8. 10,000 Meter mini marathon race organized on 19.01.2025. Chief guest Mr. Indrajeet Singh and Dr. Indranil Manna flag

Boys Best Twenty-One

Sl No.	Name	Place
1.	Sanjay Mahto	1st
2.	Harish Kumar Mahto	2nd
3.	Ranjit Kumar Mahto	3rd

Girls Best Ten

Sl No.	Name	Place
1.	Ritu Kumari	1st
2.	Anjali Kumari	2nd
3.	Shweta Kumari	3rd

37th Annual Athletic Meet 2024-25 from 31.01.2025 to 02.02.2025.

Opening Chief Guest	Saroj Lakra	Jamshedpur (Athletic)
Second Shift Guest	Sujata Bhakat	Power lifter Ranchi Jharkhand
Closing chief guest	Sarojani lakra	JAP II Tatisilwai Ranchi

Result of Event

(Men's)

Event	Name	Hostel No.	Position
100 M	Arvind Bhagat	06	1st
	Aditya Raj	11	2nd
	Jyoti Raditya	04	3rd
200 M	Arvind Bhagat	06	1st
	Aditya Raj	11	2nd
	Ayush Kumar	01	3rd
400M	Kunal Kumar	6	1st
	Santosh Oraon	11	2nd
	Rahul Kumar Hembrom	10	3rd
800M	Kunal Kumar	6	1st
	Rahul Kumar Hembrom	10	2nd
	Rohan Munda	11	3rd
1500M	Kunal Kumar	6	1st
	Ajay Kumar Hembrom	7	2nd
	Lakshya Tudu	4	3rd

5000 M	Kunal Kumar	6	1st
	Ajay Kumar Hembrom	7	2nd
	Lakshya Tudu	4	3rd
110 mt Hurdles	Arvind Bhagat	06	1st
	Chinmay Prashar	6	2nd
	Michrai Purty	4	3rd
400mt hurdles	Kunal Kumar	6	1st
	Rajiv Ranjan Mahato	6	2nd
	Darsh Gupta	7	3rd
Long jump	Arvind Bhagat	6	1st
	Aditya Raj	11	2nd
	Piku Deori	4	3rd
High jump	Raj Mandal	7	1st
	Sarthak	2	2nd
	Ayush Kumar	4	3rd
Triple jump	Arvind Bhagat	6	1st
	Rahul Kumar Hembrom	10	3rd
	Jyoti Raditya	04	3rd
Shot put	Sagar Raj	Patna	1st
	Vishal Soy	Polytechnic	2nd
	Karan Khati	6	3rd
Discus Throw	Ujjwal Kumar	Lalpur	1st
	Aditya Kumar	Patna	2nd
	Aditya Tiwary	H-7	3rd
Hammer Throw	Sagar Raj	Patna	1st
	Satyam Hansda	3	2nd
	Himanshu Shahi	2	3rd
4 x100 Relay	Arvind Bhagat, Rajiv Ranjan Mahto, Naved Khurshid, Sudanshu Kumar	H 6	1st
	Vinay Marandi, Santosh Oraon, Avay Kr. Choudhary, Aditya Raj	11	2nd
	Aashish Samanta, Kaushik Boipai, Pranil Khalkho, Ameen	10	3rd
4 x 400 Relay	Aman Purti, Azlan Khan, Chinmay, Kunal Kumar	H 6	1st
	Ayush Singh, Jyoti Raditiya, Ariman Singh, Dev Joti Sinha	Patna	2nd
	Rahul Kumar Hemberom, Prain Khalkho, Prateek Verma, Roshan Oraon	10	3rd
Javelin Throw	Rohit Kumar	Patna	1st
	Anurag Singh Chouhan	Patna	2nd
	Nitish Kumar	Patna	3rd

100 MTR Staff Ward	Kartik Mahto	EE E	1st
	Rajendra Mahto	ECE	2nd
	Chanchal Mishra	BIO	3rd

Result of Event

(WOMEN'S)

Event	Name	Hostel No.	Position
100 M	Sulekha Kumari	Polytechnic	1st
	Sonam Kumari	Polytechnic	2nd
	Neelam Priti	Polytechnic	3rd
200 M	Sonam Kumari	Polytechnic	1st
	Priyanka Kumari	Polytechnic	2nd
	Aprana Khoya	Polytechnic	3rd
400M	Sulekha Kumari	Polytechnic	1st
	Sonam Kumari	Polytechnic	2nd
	Dipika Khalkho	LALPUR	3rd
800M	Dipika Khalkho	LALPUR	1st
	Priya Kumari	Polytechnic	2nd
	Anu Kumari	Polytechnic	3rd
1500M	Dipika Khalkho	LALPUR	1st
	Sulekha Kumari	Polytechnic	2nd
	Anu Kumari	Polytechnic	3rd
Long jump	Shreya	K 22	1st
	Sonam	Polytechnic	2nd
	Dipika Khalkho	LALPUR	3rd
High jump	Shreya	K 22	1st
	Puja Kumari	K 23	2nd
	Dipti Rani	Patna	3rd
Triple jump	NO	NO	1st
	NO	NO	2rd
	NO	NO	3rd
Shot put	Tanu Tirkey	K 22	1st
	Smiriti Minz	Polytechnic	2nd
	Tanishkya Rai	Patna	3rd
Discuss Throw	Tanu Tirkey	K 22	1st
	Smiriti Minz	Polytechnic	2nd
	Tanisha Rai	Patna	3rd

Tag Of War	K 22		1st
	K 23		2nd
	K24		3rd
4 x100 Relay	Anshula Narkhede, Shreya, Anupama Murmu, Komal Kumari	K 22	1st
	Priyank Kumari, Sulekha, Anu Kumari, Arpana Kumari	Polytechnic	2nd
	Kaushiki, Khushi Kumari, Rutika Desmukh, Dipi Rani	Patna	3rd
4 x 400 Relay	Anshula Narkhede, Shreya, Anupama Murmu, Komal Kumari	K 22	1st
	Kaushiki, Khushi Kumari, Rutika Desmukh, Dipi Rani	Patna	2nd
	Priyank Kumari, Sulekha, Anu Kumari, Arpana Kumari	Polytechnic	3rd
Javelin Throw	Huma Shadmeen	Patna	1st
	Sonika Bishnoi	K 23	2nd
	Tanu Tirkey	K 22	3rd

INDIVIDUAL CHAMPION SHIP	MEN	ARVIND BHAGAT	HOSTEL 6
INDIVIDUAL CHAMPION SHIP	WOMENS 1	DIPIKA KHALKHO---	LALPUR
INDIVIDUAL CHAMPION SHIP	WOMEN 2	SONAM KUMARI ----	POLY
BEST PLAYER IN YEAR		ADITYA RAJ	HOSTEL 11
OVERALL CHAMPION GIRLS			K 22
OVERALL CHAMPION MENS			H 6

10. The Final match of Inter Hostel Cricket Tournament played between Hostel No. 6 & 7 on 03.02.2025. Hostel No. 7 won the championship. Chief guest Dr. Bhaskar Karn DoSA & Dr Praveen Srivastava Assistant Dean distributed the prizes.

11. Institute Chess Team participate in Sarala Birla University for A. I. U. East Zone University tournament 02.02.2025 to 08.02.2025 (EZIU Tournament) Result 7 Position

12. Inter Hostel Volleyball (Men) Tournament 2024-25 was held on 18.02.2025 Hostel No. 10 & Hostel No. 4 at sports complex. Hostel No. 10 won this tournament.

13. **Inter Hostel Volleyball (Women) Tournament 2024-25 was held on 19.02.2025 Hostel No. 8 & Hostel No. 9 at sports complex. Hostel No. 8 won this tournament.**

14. **Dr. Mahendra Kumar nominated as Technical Expert by IRCLASS to audit at TATA Steel Sports Division, TFA, TAA, THA & other Sports facilities from 03.3.2025 to 04.3.2025.**

15. **32nd Chetan Devraj Memorial East Zone Inter Technical Intuitions Cricket Tournament 2024- 25 organised from 26/03/2025 to 30/03/2025. Eight teams took part in the tournament. NIAMT Ranchi, BIT Lalpur, BIT Mesra, Usha Martin University, BIT Patna, RTCIT Ranchi, NLU (Law College) Ranchi & Sarala Birla University.**

Winner-up – Sarala Birla University

Runner-up – NIAMT Ranchi

Man of the Match – Bishnu Kumar

Man of the Series– Anshu Kumar

Chief Guest – Debasish Chakraborty General Secretary JSCA Ranchi

Guest of Honour – Mr. Satish Singh Cricket Player Ranchi, Jharkhand & Mrs. Seema Singh Cricket Player Ranchi, Jharkhand

Dr. Bhaskar Karn (DoSA) distributed the prizes

Dr. Mahendra Kumar was organizing secretary.

16. **(a) The Final Match of Inter Hostel (Boys) Basketball Tournament played between Hostel No. 03 and Hostel No. 07 on 09.04.2025. Hostel No. 07 winner, and Hostel No. 03 Runner's – up. Chief guest Dr. Bhaskar Karn distributed the prizes.**

(b) The Final Match of Inter Hostel (Girls) Basketball Tournament played between Hostel No. 08 and Hostel No. 09 on 09.04.2025. Hostel No. 09 winner, and Hostel No. 08 Runner's – up. Chief guest Prof. Mrs. Bindu Lal distributed the prizes.

17. (a) The Final Match of Inter Hostel (Girls) Badminton Tournament played between Hostel No. 08 and Hostel No. 09 on 16.04.2025. Hostel No. 08 winner, and Hostel No. 09 Runner's – up. Chief guest Prof. Dr. R.C Jha distributed the prizes.

(b) The Final Match of Inter Hostel (Boys) Badminton Tournament played between Hostel No. 04 and Hostel No. 03 on 16.04.2025. Hostel No. 04 winner, and Hostel No. 03 Runner's – up. Chief guest Dr. R.C. Jha distributed the prizes.

(c) The Final Match of open (Girls) Badminton Tournament played between T. Snechita Reddy and Anshu Rajput winner, T. Sanchita Reddy & Anshu Rajput Runner's – up. Chief guest Prof. Dr. R.C Jha distributed the prizes.

(d) The Final Match of open (Boys) Badminton Tournament played between Sagnik and Anant Chahal winner, Sagnik & Anant Chahal Runner's – up. Chief guest Prof. Dr. R.C Jha distributed the prizes.

Value Education Cell (VEC)

1. The Value Education Cell organized a One-Day Faculty Development Workshop on the theme of Know Yourself as a Teacher (KYaaT) on 23 Apr 2025 on the occasion of the Platinum Jubilee Celebrations of our esteemed institute. This workshop aimed to offer an opportunity to faculty members for soul searching and realizing their own roles and responsibilities to be able to make worthwhile contributions. Around 150 faculty members from BIT Mesra main campus, BIT Lalpur extenstion centre and University polytechnic participated inn the workshop.

2. The Value Education Cell conducted a three weeks Students' Induction Program (SIP) for above 1200 newly admitted UG & PG students of MO 2024 Batch during 20 Aug to 06 Sep 2024.

3. The Value Education Cell in collaboration with the Capacity Development and Skill Enhancement Initiative (CDSEI) of the institute conductted a one-day workshop on Awareness on Trends in Technology on 30 Jun 2025.

4. The Value Education Cell (VEC) conducted a three-days practice session on Yoga for the The students, faculty members, staff members and family members of the institute for the celebration of International Day of Yoga (IDY) 2025 during 19-21 Jun 2025.

5. The Value Education Cell (VEC) celebrated the National Youth Day (NYD) on 12 Jan 2025 to commemorate the birth anniversary of Swami Vivekanand with a purpose to propagate the ideals of Swami Vivekanand to help imbibe strength of mind, knowledge, character and spiritual values in daily living.

Expert talk on Ethics and Morality

The Chairperson of Value Education Cell delivered an expert talk on the topic of "Teaching Methodology, Ethics, and Morality" at Adarsh College, Rajdhanwar on 5th Dec 2024.

Expert Talks on National Education Policy-2020

The Chairperson of Value Education Cell delivered the following expert talks to highlight the Quality and Value education perspectives of the National Education Policy-2020.

1. On the theme of Implementation of NEP-2020 in Higher Education System, organized by NEP SAARTHI, BIT Mesra through an initiative of UGC in implementing the National Education Policy (NEP) 2020, 28 March 2025.
2. On the theme of "Measures to Implement NEP-2020 in Higher Education System", during the Faculty Development Program on the theme of NEP2020: Potential and Opportunities in Engineering Education, organized by Haldia Institute of Technology, Haldia, West Bengal, 26 March 2025.
3. On the theme of "Aligning NEP 2020 Recommendations Towards Curricular Development of UG Engineering Programmes : Current Initiative of BIT Mesra towards Implementation of NEP-2020", Dept. of ECE, BIT Mesra, Ranchi, 14th Aug 2024.
4. An expert talk-cum-interactive session on the topics of "NEP Deliberation and Academic Ordinance Framing for Diploma in Engineering Programmes" University Polytechnic, BIT Mesra, Ranchi on 12th Aug 2024.
5. On the theme of "Higher Education & Society" during the NEP 2020 Orientation and Sensitization Program" organized by UGC, Malviya Mission Teachers Training Centre (MMTTC), Ranchi University, Ranchi on 08th Aug 2024.
6. On the theme of "Measures to Implement NEP-2020 in Higher Education System" during the 4th Anniversary Celebration of National Education Policy 2020, BIT Mesra, Ranchi on 29th July 2024.

राजभाषा प्रकोष्ठ

विभाग: राजभाषा प्रकोष्ठ बी. आई. टी. मेसरा

राजभाषा प्रकोष्ठ बी. आई. टी. मेसरा

बिरला प्रौद्योगिकी संस्थान के राजभाषा प्रकोष्ठ ने 12-14 सितंबर को "हिंदी दिवस" का उत्सव मनाने के लिए तीन दिवसीय कार्यक्रम "हिन्दी पखवाड़ा" का उद्घाटन समारोह आयोजित किया। इस कार्यक्रम के मुख्य अतिथि श्री ज्ञान प्रकाश आकुल रहे।

इस कार्यक्रम में अतिथि के रूप में छात्र मामलों के डीन डॉ. भास्कर कर्ण, उप हिन्दी अधिकारी डॉ. अमित तिवारी, दी लिटरेरी सोसाइटी के संकाय सलाहकार डॉ. नीरज कुमार सिंह और यांत्रिक अभियांत्रिकी की सहायक प्रोफेसर डॉ. ऋचा पांडे की गरिमामयी उपस्थिति रही। कार्यक्रम की शुरुआत सम्मानित अतिथियों द्वारा पारंपरिक दीप प्रज्वलन से की गई।

इसके बाद, संस्थान वंदना और गणमान्य व्यक्तियों के बीच स्मृति चिह्नों का आदान-प्रदान हुआ । यांत्रिक अभियांत्रिकी की सहायक प्रोफेसर, डॉ. ऋचा पांडेय ने प्रारंभिक संबोधन के साथ अतिथियों का स्वागत किया ।

डॉ. अमित तिवारी ने हिंदी दिवस के महत्त्व और हिन्दी भाषा के प्रयोग को बढ़ावा देने पर ज़ोर दिया। इसके बाद छात्र मामलों के डीन डॉ. भास्कर कर्ण ने अपने भाषण में संस्कृति से जुड़े रहने पर प्रकाश डाला और छात्रों को अपनी भाषा पर गर्व करने के लिए प्रेरित किया।

कार्यक्रम का मुख्य आकर्षण श्री ज्ञान प्रकाश आकुल की कविता रही, जिसमें उन्होंने अपनी बेहतरीन रचनाएँ सुनाकर सारे दर्शकों को मंत्रमुग्ध कर दिया। इसके बाद श्री ज्ञान प्रकाश आकुल ने सर्वेश तिवारी की नई पुस्तक पूर्णाहुति का अनावरण किया। कार्यक्रम शाम 8:00 बजे समाप्त हुआ।

बिरला प्रौद्योगिकी संस्थान के राजभाषा प्रकोष्ठ ने 14 सितंबर को जे एन वी एम में हिंदी पखवाड़ा के अंतर्गत निबंध एवं कविता लेखन प्रतियोगिता सफलतापूर्वक आयोजन किया । कुल प्रतिभागियों की संख्या लगभग 300 रही । जिसमे से 100 ने कविता लेखन और 200 ने निबंध लेखन में भाग लिया ।

जे एन वी एम के निबंध का परिणाम :-

1. रौनक मांझी (8बी) प्रथम

2. अर्पिता गुरिया (8बी) द्वितीय

3. मजेश महतो (6ए) तृतीय

जे एन वी एम का कविता लेखन का परिणाम:-

प्रथम: कल्याणी कुमारी सिंह (9वीं ए)

द्वितीय: भारती कुमारी (12वीं बी)

तृतीय: रमन कुमार सिंह (12वीं ए)

हिंदी पखवाड़ा के क्रम को आगे बढ़ाते हुए बिरला प्रौद्योगिकी संस्थान ने अपने संसथान के शिक्षकों, अधिकरियों एवं अन्य कर्मचारियों के बच्चों के बीच में प्रश्नोत्तरी कार्यक्रम का आयोजन किया

प्रश्नोत्तरी का परिणाम:

जूनियर श्रेणी:

प्रथम: सौमी सेनगुप्ता

वरिष्ठ श्रेणी:

प्रथम: आयुष मिश्रा

द्वितीय: अभय त्रिपाठी

तृतीय: सुमित कुमार

संस्थान के अन्य परिसरों में भी राजभाषा हिंदी के विस्तार हेतु विभिन्न कार्यक्रम किए गए ।

ईमेल : inc.hindicell@bitmesra.ac.in

अभिधा वेबलिंक : https://abhidha-bitm.web.app/mobile.html

डॉ. अमित कुमार तिवारी
उप हिंदी अधिकारी

पीयूष तिवारी
हिंदी अधिकारी

Training and Placement

Campus Recruitment at BIT Mesra: A Legacy of Excellence and Growth

The Campus Recruitment Programme at Birla Institute of Technology, Mesra has grown from strength to strength over the years, forging strong, value-driven relationships with recruiters across a wide spectrum of industries. What sets BIT apart is not only its academic rigor but also the consistent quality of talent nurtured here—talent that continues to contribute meaningfully to organizations and society at large.

Each year, we celebrate new milestones that reflect the caliber of our student community and the breadth of academic programmes offered at our Institute. Campus recruitment remains one of the cornerstones of BIT's reputation, highlighting our commitment to preparing students who are industry-ready, adaptable, and innovative.

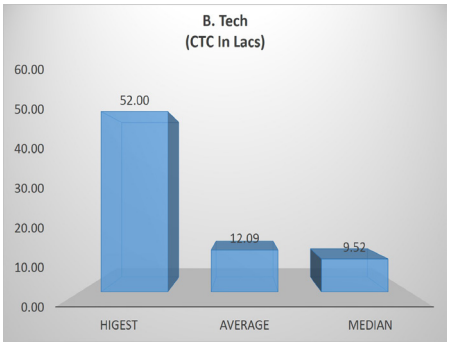
In the 2024–25 recruitment season, BIT witnessed another successful year, with participation from over 250 recruiters. The season culminated in 1113 offers (for both full-time and internship roles), a testament to the confidence our recruiters place in BIT graduates.

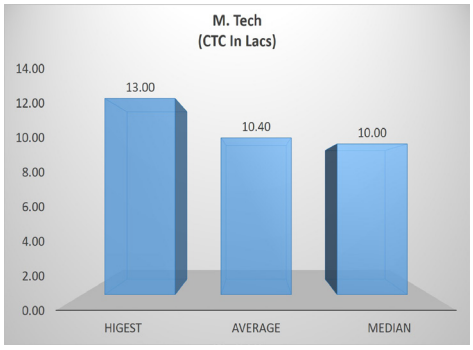
The Mesra campus continues to lead from the front, recording an average CTC of INR 11.90 LPA and an impressive highest package of INR 1.45 Cr per annum.

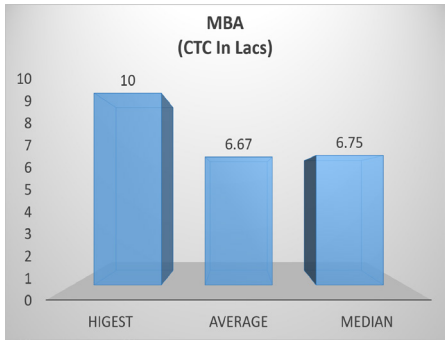
As we move forward, BIT remains driven by a passion for excellence. We look ahead with enthusiasm and confidence, determined to raise the bar further and continue this inspiring journey of success, hand in hand with our valued recruiting partners.

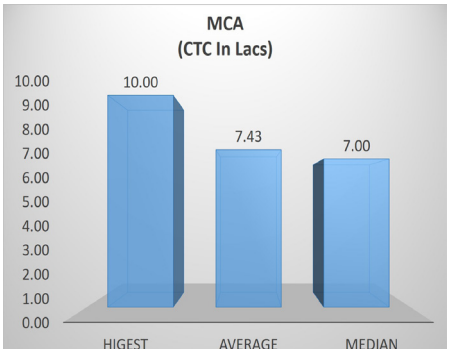
List of Company and Number of Offers (Full Time)

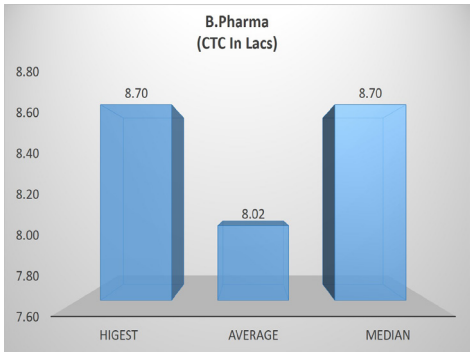
Table below shows the student placed in various companies.

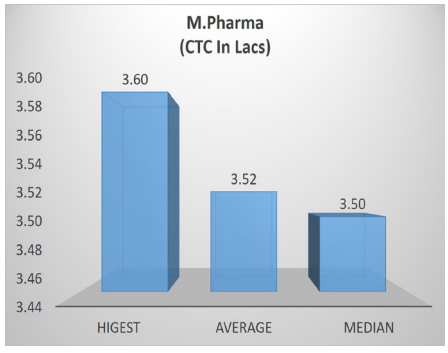


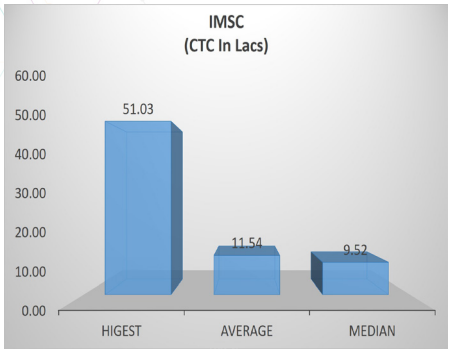


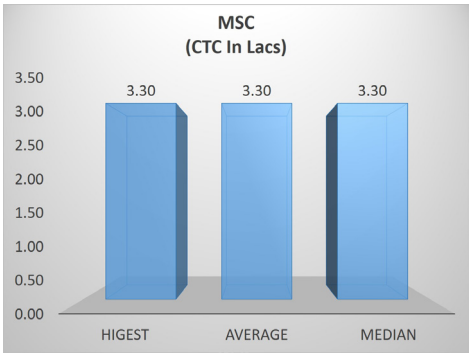


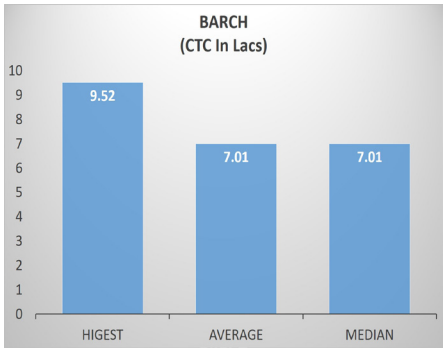












Company Name	B Arch	B Pharm	B Tech	IMSc	MBA	MCA	M Pharm	MSc	M Tech
2Coms Group					1				
Accenture India			5						
Aditya Birla Group			9						
ADROSONIC	2		10	9	1	1			
Alight Solutions					2				
ALTUDO			1						
Amdocs India Pvt Ltd			17			7			
Apollo Tyres					1				
Arcesium			1						
Asian Paints Ltd					3				
Atlassian			6						
Axis Bank			9						
Bain Capability Network			3						
Bajaj Electricals					3				
BANDHAN BANK LTD					12				
Berger Paints					1				
Berger Paints India Ltd			1						
Bharat Financial Inclusion Limited					1				
Black N Green			1						
Britannia Industries Limited			1						
British Telecom			9						
Capillary Technologies			1						
Chaitanya India Fin Credit Pvt Ltd					3				
Chryso India Pvt. Ltd. (SAINT-GOBAIN CONSTRUCTION)			1						
Cisco			2						

CRED			3						
Credex Technology			1						
Cubastion Consulting Private Limited			1						
Dalmia Cement (Bharat) Limited			1						
Deloitte			5			1			
Dixon Technologies India Ltd.			1						
Dr. Reddy's			1						
DSP Asset Managers Pvt. Ltd.					1				
Edu-versity			2						
Engineers India Limited			1						
ESSAR			3						
EXL Service			4	1		2			
EY India					2				
Fastenal			12	4					
Flipkart (Instakart Services Pvt.Ltd)			4						
Forma.AI			1	1					
GEP			6						
GlobalLogic A Hitachi Group Company			18						
Godrej & Boyce			2						
Google			1						
Granules			1						
HashedInâ€¯Technologies			1						
Hyundai Motor India Limited									1
ICICI Bank					19				
ICICI Securities Limited					7				
IDBI Bank					5				
Incture Technologies (P) Ltd				4					
India Shelter Finance Corporation Ltd				3					
Infineon Technologies			1						
Intellipat					2				
ITC			2						

ITC LIMITED					1				
ITC Ltd.			2						
Jaro Education		3							
Jubilant FoodWorks			3						
Kotak Mahindra Life Insurance					1				
L&T Construction			20						
Logic Fruit Technology Pvt Ltd			2						
Mahindra & Mahindra									1
Maruti Suzuki			4						
Medicines Research			2						
MICROLAND LIMITED			2						
Microsoft				1					
Miebach Consulting India Pvt. Ltd.			2						
MRS Bearings			2						
National Payments Corporation of India (NPCI)			11						
NBC Bearings			3						
Nestle			1						
NHSRC					2				
NIVA BUPA HEALTH INSURANCE					2				
NPCI			4						
Nuvoco Vistas Corporation Limited			3						
Oracle GBU			5						
Orient Electric Limited			2						
PlanetSpark					1				
Publicis Sapient			2						
PWC India			26						
Realization Technologies			3						
Reliance General Insurance					2				
Reliance Industries Ltd.			17						
Salesforce			3						
Samsung Research, Noida			4						
Shree Cement			2						

Shyam Metalics & Energy Ltd.			3		3				
Siemens EDA India Private Limited			4						
SLNKO ENERGY PRIVATE LIMITED			3						
SNL Bearings Limited, Ratu, Ranchi			2						
SociÃ©tÃ© GÃ©nÃ©rale			5	3					
Somochem India Pvt. Ltd.			2						
Specialty Products and Services				1					
Sprinklr			5						
SUHORA Technologies PVT LTD			1						
Sun King				2					
TATA AutoComp Systems Ltd.			1						
Tata BlueScope Steel Pvt. Ltd.			3		2				
Tata Consultancy Services Ltd			24	1		7		1	
Tata Consulting Engineers Limited	2								
Tata Metaliks Ltd.			2						
Tata Motors Ltd									4
Tata Play Limited					1				
TATA Steel			7						
TATA STEEL DOWNSTREAM PRODUCTS LIMITED			2						
Tata Steel Limited			5						
Tata Steel Utilities & Infrastructure Services Limited			2						
Tejas Networks			3						
Texas Instruments			7						
The Jharkhand State Co-operative Milk Produces Federation					2				
Torrent							3		
Tredence			3						

Troikaa Pharma							1		
Truminds Software Systems			3						
TVS Motor Company			1						
UKG(Ultimate Kronos Group)			3						
Urban Company			1						
Utkarsh Small Finance Bank					1				
Vedanta Limited			4						
VISA STEEL LIMITED			3						
Vishvaraj Environment P Ltd (Vishvaraj group)			3						
Walmart Global Tech			9						
Wells Fargo			5						
Wisetech Global India Private Limited			22						
ZELL EDUCATION		1							
ZS Associates India Pvt. Ltd.			19						
Zscaler			2						

List of Company and Number of Offers (Internship)

Recruiter Name	2 months	6 months	11 month
Salesforce	1		
Fastenal	1		
SAINT-GOBAIN CONSTRUCTION	1	1	
Tata Steel Utilities & Infrastructure Services Limited	1		
Arcesium Pvt. Ltd.	2		
Truminds Software Systems	2		
ITC	2		
Texas Instruments	3		
Axis Bank	3		
MOZO HUNT	3		
TATA Steel	4		
AIM INDIA	4		
ABFRL	4		
Atlassian	5		
Anonymous Squirrels	5		
1 Vendor Platform	5		
ITC MBA	5		
TATA Steel	6		
TENHARD	6		

Visa	7		
Walmart Global Tech	8	5	
Microsoft	9		
NPCI	9		
PHOOLDAAN	9		
Jindal Steel & Power Limited	9		
Reliance Industries	16		
Agile capital Services	16		
Sprinklr		5	
Texas Instruments		6	
Media.net		1	
Flipkart (Instakart Services Pvt.Ltd)		8	
Logic Fruit Technology Pvt Ltd		2	
Miebach Consulting India Pvt. Ltd.		6	
Atlassian		6	
Siemens EDA India Private Limited		6	
Oracle GBU		5	
Infineon Technologies		1	
Futures First Info Services Pvt. Ltd.		17	
Fastenal		13	
Realization Technologies		3	
Tejas Networks		3	
Bain Capability Network		16	
British Telecom		9	
PWC India		26	
Fastenal		1	
ITC		1	
ADROSONIC		2	
ADROSONIC (R&I)		20	
Samsung Research, Noida		4	
ZS Associates India Pvt. Ltd.		19	
Porter		2	
Jubilant FoodWorks		3	
BeingZero		5	
Slnko Energy		3	
India Shelter FinCorp		3	
Orient Electric		2	
Cisco		5	
Nvidia		3	
Zscaler		2	
DRL		1	
Planful Software India Ltd		4	

TE Connectivity		1	
Forma.Ai		2	
Sunking		1	
Groww		4	
Capillary Technologies		1	
Grid Dynamics		8	
KHATABOOK		1	
Black and Green		1	
Nuvoco			
Unacademy		4	
Tata Motors			1
SignalX		5	
Credex		1	
Nestle		1	
Dhwani Rural		2	
HashedIn Technologies		1	
Suhora		1	
ENTE		1	
Keywords Studios		1	
Outleap Technologies		1	
Tata AutoComp		2	
Speciality Product Ltd.		2	
Edu-versity		2	
Urban Company		1	
M.N.Dastur & Company		1	
Vetty		3	
Nokia			**2**

Central Instrumentation Facility

Central Instrumentation Facility, at BIT Mesra, has been created with an objective of providing a central facility of latest and advanced analytical techniques for research in various areas of science and technology. It houses several highly sophisticated and modern analytical equipments offering its users, a wide range of analytical methods/techniques for chemical/material analysis/testing/characterization enabling them to keep pace with developments taking place globally, publish their research findings in peer reviewed high impact factor journals and through their concerted efforts contribute to the upliftment of the society at large. This facility is extensively used by undergraduate and post graduate students, doctoral research scholars and faculty members. The facility is also extended to external organizations (Industry, academic Institutions and R & D Labs) on chargeable basis. Presently Research Scholars from Departments of Chemistry, Physics, Civil and Environmental Engineering , Pharmaceutical Science and Technology, Bioengineering, Chemical Engineering and Technology, Mechanical Engineering, Production Engineering, Space Engineering and Rocketry, Hotel Managment and Catering Technology, Electrical and Electronics Engineering, Electronics and Communication Engineering and Remote Sensing are extensively using this facility. This facility is also used for organizing short term courses/ workshops on the use and application of various instruments and analytical techniques.

Services provided by the CIF

A. Analytical Services:

i) Sample Preparation: CIF provides facilities and assistance in sample preparation to the users.

ii) Sample Analysis: CIF carries out analysis of samples received from researchers and provides spectra/ results of analysis on routine basis.

iii) Testing facility: CIF caries out testing of quality of raw materials and end products for industries.

iv) Water Quality Testing: CIF carries out water quality testing as per the BIS norms.

B. Short Term Courses/ Training Programmes :

The CIF organizes the following types of short term courses/Training Programmes / Workshops on application and use of various instruments and analytical techniques for UG /PG students, research scholars, faculty members, teachers and personnel from other academic institutions, R&D Labs and industries. Repair/maintenance and operation of sophisticated instruments for technicians.

C. Consultancy on analytical problems:

The CIF offers consultancy on solution to analytical problems including development of analytical methods for specific needs, sampling problems, spectrum analysis and interpretation of results etc. as well as on R&D problems/issues.

D. Repair and maintenance of high end instruments:

The CIF personnel make a concerted effort to develop expertise to repair and maintain the high end instruments available in CIF.

Instruments available at CIF:

A. Spectroscopy:

1. Inductively coupled plasma optical emission spectroscope, (OPTIMA 2100DV ICP-OES), Perkin Elmer, USA.
2. Inductively coupled plasma mass spectroscopy, (iCAP RQ(C2),Thermo Scientific, USA
3. Ultraviolet-Visible Spectroscope, (Lambda25), Perkin Elmer, USA.
4. FTIR Spectrophotometer, Mid IR Range (IR-PRESTIGE 21), Shimadzu, Japan.
5. FTIR Spectrometer, Far & Mid IR Range(L1280044), Perkin Elmer, USA
6. FTIR Spectrometer, Far & Mid IR Range(L1280026, Frontier NIR), Perkin Elmer, USA
7. Color Measurement System, (Colorflex), Hunter Lab, USA.
8. Spectro Fluoro photometer, (RF-5301 PC), Shimadzu, Japan.
9. Nuclear magnetic Resonance Spectroscopy(JNM ECZ400S/LI), Jeol, Japan
10. Dynamic Light Scattering, (NANO ZS), Malvern Instruments, UK.

B. X Ray Diffraction:

11. X-Ray Diffractometer (Smart Lab 9KW), Rigaku, Japan
12. Single Crystal X Ray Diffraction, Rigaku, Japan

C. Microscopy:

13. Scanning Electron Microscope (SEM), (JSM-6390 LV), JEOL, Japan.
14. Field Emission Scanning Electron Microscope,(Sigma300) CarlZeiss, Germany
15. Atomic Force Microscope , (Solver Pro-47), NT-MDT, Russia.

D. Thermal Analysis:

16. Thermo Gravimetric Analyzer, (DTG-60), Shimadzu, Japan.
17. Simultaneous TGA-DTA-DSC, (Discovery SDT 650)Waters, USA
18. Differential Scanning Calorimeter, (Q-10), TA Instruments, USA.
19. Modulated Differential Scanning Calorimeter(Discovery DSC 25), Watrs, USA
20. Thermal Conductivity Analyzer(LFA 467), Netzsch, Germany

E. Chromatography :

21. Gel Permeation Chromatograph, Waters, USA.
22. Ion Chromatography (ICS 5000), Thermo Fisher, USA
23. Analytical HPLC (Vanquish), Thermo Fisher, USA
24. Flash Chromatography(Cheetah, MP 200), Bonna Agela, USA
25. Analytical Cum Semi Preparative HPLC (Ultimate 3000), Thermo Fisher, USA
26. High Precision Thin Layer Chromatography, Camag, Switzerland

27. Liquid Chromatography Mass Spectrometry(Ultimate3000,LTQXL),Thermo Fisher, USA

F. Water and Soil Analysis:

28. Ion Analyzer(VERSA STAR), Thermo Orion , USA
29. Anodic Stripping Voltammeter, Metrohm, Switzerland
30. Microwave Digestion System, (Multiwave 3000), Anton Paar, Austria.
31. Flame Photometer(CL 378), Elico, India
32. pH Meter (2 Star), Thermo Orion , USA
33. Turbidity Meter(AQ 3010), Thermo Orion , USA
34. Conductivity Meter (4 Star), Thermo Orion , USA
35. Colorimeter (), HACH, Usa
36. COD Reactor (DRB 200) , HACH, USA
37. Magnetic Stirrer(MCO2), Tarson, India
38. Shaking Incubator, Lab Tech
39. Hot Air Oven
40. Muffle Furnace
41. Centrifuge Machine
42. Ultra Pure Water Purification Systyem, (Elga Purlab Chorus 2), Elga, UK

G. Other Facilities :

43. Electrochemical analyzer, (680B), CH Instruments,USA.
44. CHNSO Analyzer (Vario EL III), Elementar, Germany.
45. Pulse Analyzer, (OR 38/ ORS), Oros SA, France.
46. Mercury Porosity meter, (PASCAL 440), Thermoelectron, Italy
47. Universal Testing Machine , (8801), Instron, UK.
48. Impedance Analyser, (Alfa ATB), Novocontrol Tech, Germany.
49. Optical Contact Angle (OCA), (OCAH 230), Dataphysics, Germany.
50. Dynamic Contact Angle , (DCAT-21), Dataphysics, Germany.
51. 50. Ellipsometer (Se MG-VIS) Nano View Inc. , Korea
52. 51. Machine Fault Simulator(MFS2010), Spectraquest Inc., USA
53. 52. BET Surface Area Analyser, Quantachrome Instruments, USA
54. 53. Rheometer(MCR320), Anton Paar, Austria
55. 54. Tribometer(TR 705), Ducom Instruments, Banglore
56. 55. Microwave Digester (Multiwave 5000), Austria
57. 56. CHNSO Analyzer (vELcu), Elementar, Germany

New Facilities added or major equipment procured:

i) GCMSMS (Model: TSQ9610), Thermo Scientific, USA.

ii) Gas Analyzer(Trace GC 1110), Thermo Scientific, USA

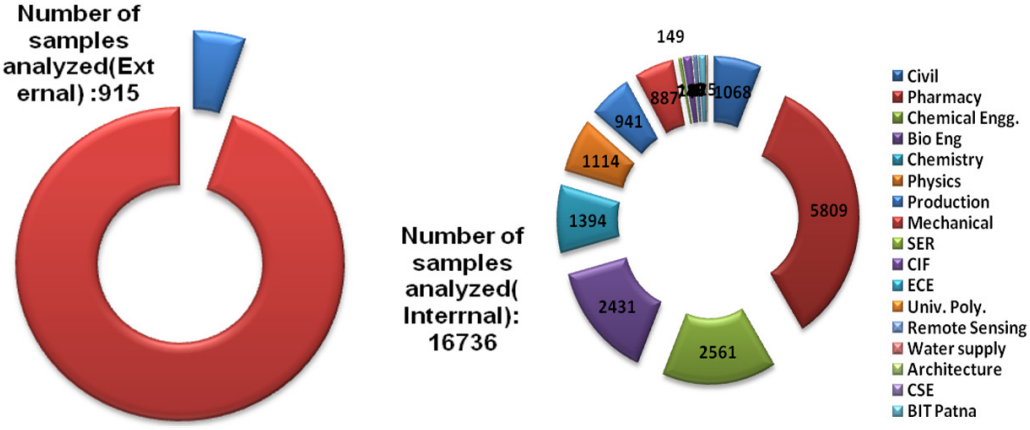
iii) X-Ray Diffractometer (Smart Lab 3KW), Rigaku, Japan

Inauguration of XRD, GCMSMS and Gas Analyzer by Honorable Vice Chancellor Professor Indranil Manna.

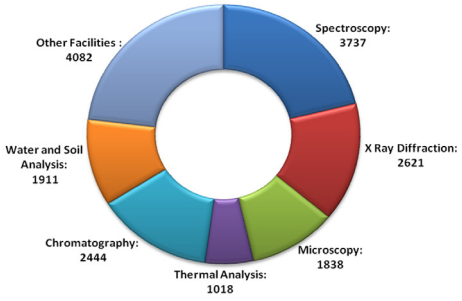
New facility or major equipment under process:

i) TGA-DTA-DSC System

Total Number of samples Analyzed (1st July 2024 to 30th June 2025):



Number of samples analyzed in different Analysis Sections:



Outside Academic/Research/Industry used the CIF Facility (1st July 2024 to 30th June 2025):

Ranchi University, Jamia Millis Islamia, New Delhi- 110025, Central University of Jharkhand, Brambe Ranchi, Parul Institute of Technology, Parul University, PO Limda Taluka Waghodia, Pin- 391760, NIAMT, Ranchi, University Institute of Pharma Science, Chandigarh University, Gharuan Mohali- 140413, Seemanta Institute of pharmaceutical Sciences, Odisha- 757086, Mahatma Gandhi Central University, Zila School Campus, Motihari- 845401, St. Xavier's College, Ranchi, Amity Institute of Technology, Ranchi, NIT Rourkela, The Waxpol Industries Ltd., H. B. Road, Butty, Ranchi, CTR & TI, Piska Nagri, Ranchi- 835303, Department of Chemistry, Ranchi Women's College Ranchi, Cooperative College, Jamshedpur, BCPSR, Durgapur, WB- 713212, JTU, Ranchi, FM University, Balasore, Odisha- 756089, IIT(ISM) Dhanbd, Chaibasa Engg. College, Manipal University Jaipur, Jadavpur University, Kolkata- 700032, Santhiram College of Pharmacy, NH 40, Nandyal- 518501, (AP), CV Raman Global University, Bidyanagar, Mahura, Janla, Bhubaneswar- 752054, NIT Rourkela, Radha Raman Engg. College, Bhopal, Central University of South Bihar, Gaya- 824236, Hazaribag College of Dental Sciences and Hospital, Brainware University, Barasat, Kolkata- 700125, Director, ICAR-Indian Institute of Agricultural Biotechnology, Namkum, Ranchi- 834010, Agricultural Structures and Process Engg. Division, ICAR- National Institute of Secondary Agriculture, Ranchi- 834010, ADAMAS University Barasat, Kolkata- 700126, College of Basic Science and Humanities, OUAT, Bhubaneswar, RTCIT, Ranchi, RKMVERI Narendrapur, Jharkhand Rai University, CIT Tatisilwai, ICAR-Indian Agricultural Research Institute, New Delhi-12, Veer Surendra Sai University of Technology, Burla, Sambalpur- 768018, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur.

Hands on Training Programs and Sessions conducted:

1. One-Week Hands-on Training Programme on Method Validation and Application of GC & GC-MS/MS Techniques (27th – 31st January 2025)

One Week Hands on Training Programme on Method Validation and Application of GC & GC-MS/MS Techniques was organized from 27th to 31st January 2025 at Central Instrumentation Facility, Birla Institute of Technology Mesra, Ranchi-835215 in association with Thermo Fisher Scientific India Pvt. Ltd., Thane-421302 for internal students (UG/PG/PhD). The main purpose of the Hands on Training Programme was to share knowledge about the critical understanding of Gas Chromatography, method validation, solvent optimization, hands-on experience and troubleshooting skills for GC and GCMSMS technique. The organizing team constituted for the programme was given below.

1	Dr. Sanjaya Kumar Swain	Convener
2	Dr. Seikh Jiyaur Rahaman	Co-Convener
3	Dr. Ashwini Kumar Singh	Member
4	Dr. Sudhir Kumar Saw	Member
5	Dr. Narendra Yadav	Member
6	Dr. Raghvendra Kumar	Member
7	Mr. Samir Kumar Pradhan	Member
8	Mr. Pravin Kumar	Member
9	Mr. Rammani Prasad	Member
10	Mr. Sharad Kumar	Member
11	Mr. Basit Ismail Gilani	Student Coordinator

Total 35 students including 23 females and 12 males participated in the programme. The Progarmme was inaugurated by Dr. Raju Poddar Dean Research & Innovation, BIT, Mesra, Ranchi on 27th January 2025 Expert lectures were given by Prof. Manish Kumar, BIT Mesra, Dr. Neeraj Kumar Varshney, FSL Patna, Mr. Chandrashekar, Thermo Fisher, Dr. Totan Adak, ICAR-NRRI, Dr. Soham Chattopadhyay, BIT Mesra, Mr. Abhishek Rana, Thermo Fisher.

Glimpses of Hands-on Training Programme on Method Validation and Application of GC & GC-MS/MS Techniques (27th – 31st January 2025)

2. One Week Hands-on Training programme on "X-ray Diffraction (XRD) Techniques for Material characterization and Data Interpretation" (3rd March – 7th March 2025)

The Central Instrumentation Facility (CIF), Birla Institute of Technology, Mesra, Ranchi, in collaboration with I R Technology Services Pvt. Ltd., Kolkata, organized a five-day intensive training workshop on X-ray Diffraction (XRD) Techniques, held from 3rd to 7th March 2025. This program was aimed at providing comprehensive theoretical insights along with hands-on training in single-crystal and powder XRD techniques, emphasizing their real-world applications in material and structural characterization. A total of 33 participants were enrolled in the workshop. The organizing team constituted for the programme was given below.

1	Dr. Gautam Sarkhel	Chairman
2	Dr. S. K. Dhua	Co-Chairman
3	Dr. Sanjaya Kumar Swain	Convener
4	Dr. Narendra Yadav	Co-Convener
5	Dr. Ashwini Kumar Singh	Member
6	Dr. Sudhir Kumar Saw	Member
7	Dr. Seikh Jiyaur Rahaman	Member
8	Dr. Raghvendra Kumar	Member
9	Mr. Samir Kumar Pradhan	Member
10	Mr. Pravin Kumar	Member
11	Mr. Rammani Prasad	Member

12	Mr. Sharad Kumar	Member
13	Mr. Basit Ismail Gilani	Student Coordinator
14	Mr. Uttam Kumar Mishra	Student Coordinator

The Progarmme was inaugurated by Dr. Ashoke Sharon, Dean of Faculty Affairs, BIT, Mesra, Ranchi on 3rd March, 2025. During the Program Theory Lectures were also organized for interns. Expert lectures were given by Prof. Ashoke Sharon, Dean of Faculty Affairs, BIT Mesra, Dr. Nishant Kumar Varshney, Manager, IR Technology Services Pvt. Ltd., Dr. Joydeep Dhar, Assistant Professor, Department of Chemistry, BIT Mesra, Dr. Rajeev Kumar, Assistant Professor, Department of Physics, BIT Mesra, Dr. Tapabrata Maity, Assistant Professor, NIMAT, Ranchi, Dr. Pravin Tirmali, Regional Manager, IR Technology Services Pvt. Ltd. The workshop concluded with a Valedictory Session on 7th March 2025, marking the end of five days of intensive learning and hands-on training. Dr. Gautam Sarkhel, Professor In-Charge, CIF, appreciated the participants' active engagement and the support of faculty, staff, and collaborators. Dr. Sandeep Singh Solanki, Dean, Postgraduate Studies, highlighted the role of skill-based training in empowering researchers and strengthening the institute's research capacity. Dr. S. K. Dhua, Senior Research Advisor, reflected on the workshop's outcomes and urged participants to apply their learning in future research. A feedback session followed, where participants shared experiences and suggestions, after which certificates were distributed.

Glimpses of Hands-on Training programme on "X-ray Diffraction (XRD) Techniques for Material characterization and Data Interpretation" (3rd – 7th March 2025)

3. Summer Internship Program on Advanced Analytical Instrumentation Tools and Techniques (30th May 2025 to 04th July 2025)

Summer Internship Program on Advanced Analytical Instrumentation Tools and Techniques has been conducted in Central Instrumentation Facility (CIF) from 30th May to 4th July 2025. The Program has been divided into six sections and section coordinators were assigned to each section. The list is given below.

Sl. No.	Instrumental Sections	Major Instruments	Section coordinator
1	Spectroscopy & Thermal Analysis	FTIR, Spectrofluorometer, DLS, Master sizer, TGA/DTA/ DSC, Thermal conductivity analyzer	Dr. Sudhir Kumar Saw
2	Advanced Microscopy	FESEM-EDS, SEM, AFM, Metallurgical microscope	Dr. Ashwini Kumar Singh
3	Chromatography	Flash Chromatography, HPTLC, Analytical HPLC, Prep HPLC, LC-MS, HPTLC MS interface, GC-MS MS	Dr. Seikh Jiyaur Rahman
4	Mechanical and Rheological Analysis	UTM, Tribometer, Pulse Analyzer, Rheometer, BET Surface Area Analyzer	Mr. Samir Kumar Pradhan
5	Water and Wastewater Analysis	ICP-MS, ICP-OES, ASV, Microwave digestion, Calorimeter, Ion Chromatography	Dr. Sanjaya Kumar Swain
6	X-Ray Diffraction Techniques	XRD, Smart-Lab 3Kw & 9Kw, Single Crystal X-ray diffractometer	Dr. Narendra Yadav

Dr. Narendra Yadav, Scientific Officer was the Coordinator and Dr. Sudhir Kumar Saw Senior Technical Superintendent was the Co-Coordinator of this Summer Internship Programme 2025. The program was inaugurated by the chief guest, Dr. Raju Poddar, Dean of Research Innovation and Entrepreneurship, along with the Guest of Honor, Dr. Ashoke Sharon, Dean of Faculty Affairs at BIT Mesra. A total of 14 expert lectures were presented by a diverse group of renowned professors, each specializing in various subjects related to instrumentation. These lectures spanned all instrumental sections, providing a comprehensive exploration of the basics, foundational principles, and theoretical frameworks essential for a deep understanding of rational instrumental systems. Each session was designed to illuminate the intricacies of the subject matter, fostering a rich learning environment that engaged the participants in meaningful discussions and applications of the concepts presented. The valedictory session was held on 4thJuly 2025, at Seminar Hall – 1, R&D. The highlight of the event was an inspiring lecture delivered by the esteemed Vice Chancellor of BIT Mesra, Professor Indranil Manna. He discussed the various methods of characterization and the appropriateness of analytical tools and techniques for understanding the nature and properties of materials, including metals and alloys. He strongly highlighted the crucial significance of this training initiative, claiming that it can greatly enhance careers in various meaningful ways. Three participants in each training category have been awarded the best performance award based on their hands-on training, subject quizzes, and overall commitment throughout the session. All participants have received certificates for completing the instrumental courses in each section.

Glimpses of Summer Internship Program on Advanced Analytical Instrumentation Tools and Techniques (30th May 2025 to 04th July 2025)

1. Introduce the use of analytical tools in science and technology to the students of Chiranjeev Concept School, Ranchi on 09th August 2024.
2. Introduce the use of analytical tools in science and technology to the students of PM Shri Kendriya Vidyalaya CRPF Ranchi on 11th December 2024.
3. Introduce the use of analytical tools in science and technology to the students of Kendiya Vidyalaya, Simdega on 13 th December 2024.
4. Introduce the application of analytical tools and techniques in science and technology to the students of ICAR-IIAB Ranchi Chiranjeev Concept School, Ranchi on 25th January 2025.

Central Library

Introduction

The Central Library strives to evolve into a model and leading technical university library. The library contributes and supports BIT in building an internationally top-ranked academic & research-driven institution by establishing a knowledge hub. The library has been fully automated with RFID technology using Koha software. The collection comprises print and electronic documents in the fields of Science, Engineering, Pharmacy, Management, Architecture & Planning and Hotel Management. Online journals like IEEE, Science Direct, Springer, ABIC, Statista and others subscribed through the Institute fund & e-Shodh Sindhu Consortium. The E-Library section consists of a number of networked terminals to access e-journals, e-books and other e-reference resources to the library users under the Intranet and Internet environment.

Print Books

Total Volumes	:	1,52,801
Total Titles	:	49,675
Online Books	:	10,21,405

Online Journals, Conference

Proceedings, Standards	:	48,683+
Print Journals/Magazine	:	108
CD/ DVD	:	4,461
Bound Volumes	:	18,902
Library Web page	:	http://bitmesra.ac.in/library/
Total Books Added	:	Title - 113 & Volumes – 172

Total Journals Procured	:	Print - 108 & Online – 48,683+
Total Number of Membership Enrolled	:	1,918
Total Number of Books Issued	:	7,638
Total Number of Books Returned	:	7,563
Total Library Membership	:	7,792

Library Services :

Bibliographic Services

E Document Delivery Services

Inter Library Loan

Language Laboratory

Research Support Services

Literature Search

New Arrivals

News Clippings

Off-Campus Service

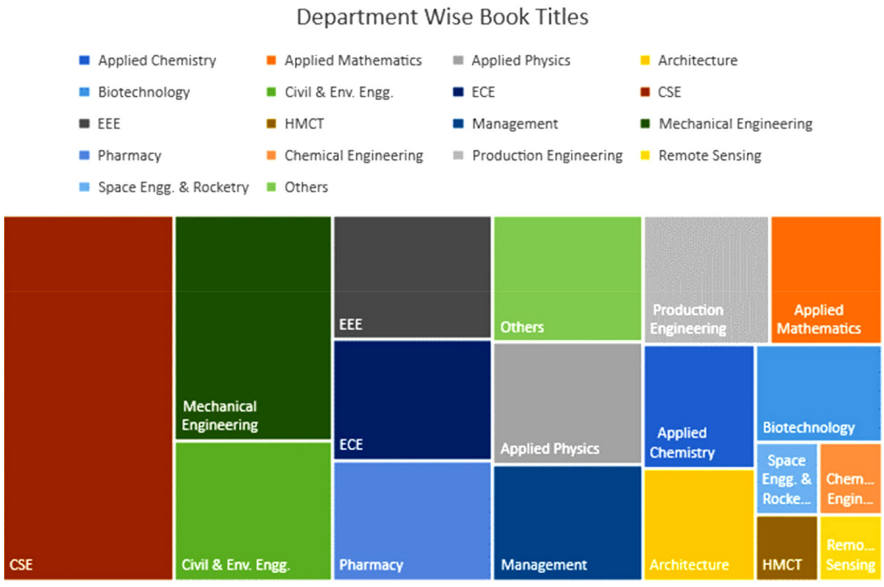
ON/Offline Database Search

Reference Service

Referral

Reprographic

The library serves more than 7,650+ members, including students, research scholars, faculty, project engineers, and staff.



Description	No. of Books	Period of Loan
Teaching Faculty	08	180 Days
Non-Teaching Staff	04	30 Days
All Undergraduate and Post Graduate students	05	15 Days
All Undergraduate and Post Graduate SC/ST students	10	One Semester
Research Scholars	05	30 Days
Books from Textbook Section for All Categories	1	1 Day

MoUs and Membership:

Shodhganga

- MoU with Inflibnet to upload the PhD thesis to the repository for worldwide access.
- 238+ PhD theses have been uploaded as of Jan 2025.

Shodhsindhu

NDLI Club

- BIT, Mesra NDLI Club, was formed in 2021 to conduct and participate in various events.
- BIT Mesra was also awarded one of the best-performing clubs in Jharkhand.
- More than 650+ members are registered as of Jan 2025.

Vidwan Database

- For Faculty members.
- Total 390+ Faculty registered on the Vidwan database.

IRINS (Indian Research Information Network System)

- https://bitmesra.irins.org/

Details of Online Journals/books/thesis & dissertations

S.No.	Publishers	Web Link
1	ABI/Inform (Management Collection)	http://search.proquest.com
2	Annual Reviews	http://www.annualreviews.org
3	EBSCO (e-book Academic Subscription)	http://web.ebscohost.com
4	Elsevier's Science Direct	http://www.sciencedirect.com
5	• Chemical Engineering	http://www.sciencedirect.com
6	• Chemistry	http://www.sciencedirect.com
7	• Engineering	http://www.sciencedirect.com
8	• Materials Science	http://www.sciencedirect.com

9	• Pharmacology, Toxicology and Pharmaceutics	http://www.sciencedirect.com
10	IEEE/IEL Online	http://ieeexplore.ieee.org/Xplore
11	Project Muse	http://muse.jhu.edu/browse
12	Springer Link	http://www.springerlink.com
13	Statista.	https://www.statista.com/
14	iThenticate (Anti Plagiarism Tool)	https://librarybitmesra.turnitin.com
15	Shodh Shuddhi Resource DrillBit (Anti-Plagiarism Tool)	https://pds.inflibnet.ac.in
16	Web of Science (Bibliographic Database)	http://apps.webofknowledge.com
17	Knimbus m-Library	https://bitmesra.knimbus.com/
18	Grammarly (Online Grammar & Spell checker)	http://www.grammarly.com/edu

Annexure I: List Deans Asso Dean and HODs

LIST OF DEANS			
1	Dr. Sandeep Singh Solanki	Electronics & Communication Engg.	DPGS
2	Dr. Sanjay Kumar Jha	Production & Industrial Engineering	DUGS
3	Dr. Ashoke Sharon	Chemistry	DOFA
4	Dr. Raju Poddar	Bioengineering & Biotechnology	DRIE
5	Prof. Somnath Ghosh	Civil & Environmental Engineering	DOIP
6	Dr. Manish Kumar	Bioengineering & Biotechnology	DAAC
7	Dr. Bhaskar Karn	Management	DOSA
8	Dr. Shradha Shivani	Management	DAIR
LIST OF ASSOCIATE DEANS			
1	Dr. Sukalyan Chakraborty	Civil & Environmental Engineering	Associate Dean (UG)
2	Dr. Sanat Kumar Mukherjee	Physics	Associate Dean (FA)
3	Dr. Dileep Kumar Upadhyay	Electronics & Communication Engineering	Associate Dean (SA)
4	Dr. Praveen Srivastava	Management	Associate Dean (SA)
5	Mr. Vishal H. Shah	Electronics & Communication Engineering	Associate Director AR
6	Dr. Anand Prasad Sinha	Management	ADRIE
7	Dr. Abhishek Jana	Management	ADAAC
8	Dr. Kirti Avishek	Civil & Environmental Engineering	Associate Dean (IP)
LIST OF HEADS			
1	Dr. Satyaki Sarkar	Architecture and Planning	Head
2	Dr. Kunal Mukhopadhyay	Bioengineering & Biotechnology	Head
3	Dr. (Mrs.) Sumit Mishra	Chemistry	Head
4	Dr. G. T. Mohanraj	Chemical Engineering	Head
5	Dr. Akhil Kumar Sen	Centre for Food Engineering & Tech.	Head
6	Dr. R. Naresh Kumar	Civil & Environmental Engineering	Head
7	Dr. Abhijit Mustafi	Computer Science & Engineering	Head
8	Dr. (Mrs.) Vandana Bhattacharjee	CQEDS	Head
9	Dr. Sanjay Kumar	Electronics & Communication Engineering	Head
10	Dr. Sudhansu Kumar Mishra	Electrical & Electronics Engineering	Head
11	Dr. Bhaskar Karn	Humanities & Social Science	Head
12	Dr. Supriyo Roy	Management	Head
13	Dr. Abhinav Tandon	Mathematics	Professor In-charge
14	Dr. Apurba Kumar Roy	Mechanical Engineering	Head
15	Dr. (Mrs.) Papiya Mitra Mazumder	Pharmaceutical Sciences & Technology	Head
16	Dr. Rajeev Kumar Sinha	Physics	Head
17	Dr. Laxmi Narayan Pattanaik	Production and Industrial Engineering	Head
18	Dr. Virendra Singh Rathore	Remote Sensing	Head
19	Dr. Priyank Kumar	Space Engineering & Rocketry	Head

Annexure II: List of Members of the Executive Council

Sl. No	Name	Designation / Role
1	Shri C K Birla	Chancellor (Nominee of HCT)
2	Prof. Indranil Manna	Vice Chancellor, Chairperson (Ex-officio)
3	Prof. Janat Shah	Professor, Dept. of Management, IIM Udaipur (Nominee of HCT)
4	Mr. Rajiv Kaul	CEO, Vice Chairman, CMS Info Systems, Navi Mumbai (Nominee of the GC)
5	Shri Rohit Saboo	M/s. NEI Limited, Jaipur (Nominee of the GC)
6	Prof. Akshay Divedi	Dept. of Mechanical & Industrial Engg., IIT Roorkee (Nominee of Commission)
7	Prof. Sandip Singh Solanki (DPGS)	Member (Institute Faculty)
8	Prof. Ashoke Sharon (DOFA)	Member (Institute Faculty)
9	Prof. Kunal Mukhopadhyay	HOD (BEBT), Member (Institute Faculty)
10	Dr. Sitanshu Sekhar Sahu (ECE)	Member (Institute Faculty)
11	Dr. Gayatri Paul (PIE)	Member (Institute Faculty)
12	Prof. Sudip Das	Registrar (Ex-officio)
13	Shri Y. Goenka	Hon. Treasurer (Special Invitee)

Annexure III: Academic Council

Sl.No	Name	Designation	Role/Capacity
1	Dr. Indranil Manna	Vice Chancellor, BIT	Chairman
2	Dr. S.S. Solanki	Dean, Postgraduate Studies	Member
3	Dr. Sanjay Kr. Jha	Dean, Undergraduate Studies	Member
4	Dr. Manish Kumar	Dean, Admissions, Accreditation & Coordination	Member
5	Dr. Shradha Shivani	Dean, Alumni & International Relations	Member
6	Dr. Ashoke Sharon	Dean, Faculty Affairs	Member
7	Dr. Raju Poddar	Dean, Research, Innovation & Entrepreneurship	Member
8	Dr. Bhaskar Karn	Dean, Student Affairs	Member
9	Dr. Pulak Kumar Munshi	Dean, Infrastructure & Planning	Member
10	Dr. Ritesh Kumar Singh	Controller of Examination	Member
11	Dr. Satyaki Sarkar	Prof & HoD, Architecture & Planning	Member
12	Dr. Kunal Mukhopadhyay	Prof & HoD, Bio-Engineering & Bio-Technology	Member
13	Dr. G.T. Mohanraj	Asso. Prof & HoD, Chemical Engineering	Member
14	Dr. Sumit Mishra	Prof & HoD, Chemistry	Member
15	Dr. (Mrs.) Bindhu Lal	Prof & HoD, Civil & Environmental Engg.	Member
16	Dr. Abhijit Mustafi	Prof & HoD, Computer Science & Engg.	Member
17	Dr. Anindya Sen	Head, CQEDS	Member
18	Dr. Sanjay Kumar	Prof & HoD, ECE	Member
19	Dr. S.K. Mishra	Asso. Prof & HoD, EEE	Member
20	Dr. Supriyo Roy	Prof & HoD, Management/HMCT	Member
21	Dr. Abhinav Tandon	Asst. Prof & PIC, Mathematics	Member
22	Dr. Apurba Kumar Roy	Asso. Prof & HoD, Mechanical Engg.	Member
23	Dr. (Mrs.) Papiya Mitra Mazumder	Prof & HoD, Pharm. Sciences & Tech.	Member
24	Dr. Rajeev Kumar Sinha	Asso. Prof & HoD, Physics	Member
25	Dr. L.N. Pattanaik	Asso. Prof & HoD, Production & Industrial Engg.	Member
26	Dr. V.S. Rathore	Asso. Prof & HoD, Remote Sensing	Member
27	Dr. Priyank Kumar	Asso. Prof & HoD, SE&R	Member
28	Dr. G.T. Mohanraj	Head, Centre for Food Engg. & Tech.	Member
29	Dr. Rohit Kumar Pandey	Asst. Prof & PIC, Humanities & Social Sc.	Member
30	Dr. S.K. Ghorai	Director, Off-Campus Deoghar	Member
31	Dr. Peeyush Tewari	Director (Acting), Off-Campus Jaipur	Member
32	Dr. Pranab Kumar	Asso. Professor, SBACA-Lalpur Unit	Member
33	Dr. Rambabu Kodali	Prof & Director, Off-Campus Noida	Member
34	Dr. Anand Kumar Sinha	Director, Off-Campus Patna	Member

Sl.No	Name	Designation	Role/Capacity
35	Dr. Vijaya Laxmi	Director, University Polytechnic	Member
36	Dr. (Mrs.) Manjari Chakraborty	Professor, Architecture & Planning	Member
37	Mrs. (Dr.) P. Padmanabhan	Professor, Bio-Engineering & Bio-Technology	Member
38	Dr. Ramesh Chandra	Professor, Bio-Engineering & Bio-Technology	Member
39	Dr. Vinod Kumar Nigam	Professor, Bio-Engineering & Bio-Technology	Member
40	Dr. Rakesh Kumar Sinha	Professor, Bio-Engineering & Bio-Technology	Member
41	Dr. Dev Mani Pandey	Professor, Bio-Engineering & Bio-Technology	Member
42	Dr. Manish Kumar	Professor, Bio-Engineering & Bio-Technology	Member
43	Dr. Raju Poddar	Professor, Bio-Engineering & Bio-Technology	Member
44	Dr. (Mrs.) Sudipta Goswami	Professor, Chemical Engineering	Member
45	Dr. Gautam Sarkhel	Professor, Chemical Engineering	Member
46	Dr. Subhendu Naskar	Professor, Chemistry	Member
47	Dr. Rajeev R. Sahay	Professor, Civil & Env. Engg.	Member
48	Mrs. (Dr.) Vandana Bhattacharjee	Professor, Comp. Sc. & Engg.	Member
49	Dr. Abhijit Mustafi	Professor, Comp. Sc. & Engg.	Member
50	Dr. Sandip Dutta	Professor, Comp. Sc. & Engg.	Member
51	Dr. Srikanta Pal	Professor, ECE	Member
52	Dr. (Mrs.) Nisha Gupta	Professor, ECE	Member
53	Dr. (Mrs.) Vibha Rani Gupta	Professor, ECE	Member
54	Dr. Animul Islam	Professor, ECE	Member
55	Dr. T. Ghose	Professor, EEE	Member
56	Dr. (Ms.) Vijaya Laxmi	Professor, EEE	Member
57	Dr. R.C. Jha	Professor, EEE	Member
58	Dr. S.K. Jain	Professor, Mathematics	Member
59	Dr. Seshadev Padhi	Professor, Mathematics	Member
60	Dr. (Mrs.) Manju Bhagat	Professor, Management	Member
61	Dr. R.N. Bhagat	Professor, Management	Member
62	Dr. A.N. Jha	Professor, Management	Member
63	Dr. Suprio Roy	Professor, Management	Member
64	Dr. R.P. Sharma	Professor, Mechanical Engg.	Member
65	Dr. Dipti P. Mishra	Professor, Mechanical Engg.	Member
66	Dr. Arbind Kumar	Professor, Mechanical Engg.	Member
67	Dr. Kaushik Kumar	Professor, Mechanical Engg.	Member
68	Dr. Vinay Sharma	Professor, Production & Industrial Engg.	Member
69	Dr. Sanjay Kumar Jha	Professor, Production & Industrial Engg.	Member
70	Dr. K. Jayaram Kumar	Professor, Pharm. Sciences & Technology	Member
71	Dr. Swastika Ganguly	Professor, Pharm. Sciences & Technology	Member

Sl.No	Name	Designation	Role/Capacity
72	Dr. Venkateshwan Jayaprakash	Professor, Pharm. Sciences & Technology	Member
73	Dr. Animesh Ghosh	Professor, Pharm. Sciences & Technology	Member
74	Dr. (Mrs.) Sunita Keshri	Professor, Physics	Member
75	Dr. S.K. Sinha	Professor, Physics	Member
76	Dr. Nilanchal Patel	Professor, Remote Sensing	Member
77	Dr. A.P. Krishna	Professor, Remote Sensing	Member
78	Dr. Sudip Das	Professor, Space Engg. & Rocketry	Member
79	Dr. Arbind Kumar	Professor, Off-Campus Deoghar, Mech. Engg.	Member
80	Dr. Roopali Sharma	Professor, Off-Campus Jaipur, Management	Member
81	Dr. Shree Prakash Lal	Professor, Off-Campus Patna, Production Engg.	Member
82	Dr. Sudeshna Chakravarty	Professor, Off-Campus Patna, Civil & Env. Engg.	Member
83	Dr. Ganesh Prasad Mishra	Professor, SBACA - Lalpur Unit	Member
84	Dr. S.L. Gupta	Professor, Off-Campus Noida, Management	Member
85	Dr. Asha Prasad	Professor, Off-Campus Noida, Management	Member
86	Dr. Meenakshi Sharma	Professor, Off-Campus Noida, Management	Member
87	Dr. G.T. Mohanraj	Asso. Prof., Chemical Engineering	Member
88	Dr. Pradip Kar	Asso. Prof., Chemistry	Member
89	Dr. Kirti Avishek	Asso. Prof., Civil & Env. Engg.	Member
90	Dr. Sudip Kumar Sahana	Asso. Prof., Comp. Sc. & Engg.	Member
91	Dr. Tanushree Bhattacharya	Asso. Prof., Civil & Env. Engg.	Member
92	Dr. Rohit Kumar Pandey	Asst. Prof., Management / HSS	Member
93	Dr. Anupam Roy	Asst. Prof., Chemical Engineering	Member
94	Dr. Barnali Dasgupta Ghosh	Asst. Prof., Chemistry	Member
95	Dr. Amritanjali	Asst. Prof., Comp. Sc. & Engg.	Member
96	Dr. Priyank Saxena	Asst. Prof., ECE	Member
97	Dr. Ajit Kumar Sinha	Vice Chancellor, Ranchi University, Ranchi	Member
98	Prof. (Dr.) D.K. Singh	Vice Chancellor, Jharkhand University of Technology, Ranchi	Member
99	Prof. P.P. Chattopadhyay	Director, NIAMT, Ranchi	Member
100	Prof. Rajeev Srivastava	Director, IIIT, Ranchi	Member
101	Dr. Deepak Kumar Srivastava	Director, IIM, Ranchi	Member
102	Dr. Raj Kumar	Director, RIMS, Ranchi	Member
103	Dr. Sudip Das (Ex-Officio)	Registrar (Actg.), BIT	Secretary
104	Dr. Laxmi Narayan Pattnaik (Ex-Officio)	Associate Dean, Postgraduate Studies	Special Invitee
105	Dr. Sukalyan Chakraborty (Ex-Officio)	Associate Dean, Undergraduate Studies	Special Invitee
106	Mr. Amrik Kundu (Ex-Officio)	Assistant Registrar, Academic Programme	Special Invitee

Annexure IV: Finance Committee

Sl.No	Name	Designation / Role
1	Shri C K Birla	Chancellor (Nominee of HCT)
2	Prof. Indranil Manna	Vice Chancellor, Chairperson (Ex-officio)
3	Shri Rohit Saboo	M/s. National Engineering Industries Ltd., Jaipur (Nominee of EC)
4	Prof. Raju Poddar (DRIE)	Member (Nominee of EC)
5	Prof. (Mrs.) Shradha Shivani	Member (Nominee of EC)
6	Shri Vijay Kumar Sharma	CA, Vijay Kumar Sharma & Associates, Shimla (Nominee of Commission)
7	Mr. Rajiv Kaul	CEO, CMS Info Systems, Navi Mumbai (Nominee of Chancellor)
8	Prof. Janat Shah	Professor, IIM Udaipur (Nominee of Chancellor)
9	Shri Yogesh Goenka	Hon. Treasurer (Nominee of Chancellor)
10	Prof. Sudip Das	Registrar (Ex-officio), Special Invitee
11	Mrs. Archana Mukherjee	Dy. Finance Officer, Secretary

Annexure V: Addresses- Campuses of BIT Mesra

Main Campus

Birla Institute of Technology, Mesra, Ranchi, Jharkhand – 835215
Mesra, Ranchi, Jharkhand, Pin-835215
Phone: 18003457057 / 18003457058 |
Fax: (0651) 2275401
Email: registraroffice@bitmesra.ac.in

Ranchi

BIT Mesra Lalpur (Ranchi City) Campus
Jharkhand 834001
Phone: 0651-2531817 / 2531676
Fax: 0651-2531686
Email: bitlalpur@bitmesra.ac.in

Deoghar

BIT Mesra, Deoghar Campus
P O Ratanpur, Jasidih, Dist. Deoghar 814142, Jharkhand
Phone: 9334654856/9308139037
Telefax: 06432-292565
Email: bitdeoghar@bitmesra.ac.in

Jaipur

BIT Mesra, Jaipur Campus
27, Malviya Industrial Area, Jaipur 302017
Phone: 0141? 4019798 / 4019819
Fax: 2751601
Email: bitjaipur@bitmesra.ac.in

Noida

BIT Mesra, Noida Campus
A-7 Sector 1
Noida 201301
Phone: +91-0120-2553661
Fax: +91-0120-2554146 / 5323095
Email: bitnoida@bitmesra.ac.in

Patna

BIT Mesra, Patna Campus
Near Patna Airport, P.O. Bihar
Veterinary College, Patna 800014
Phone: 0612-2223538, 2223545
Fax: 0612-2227050
Email: bitpatna@bitmesra.ac.in

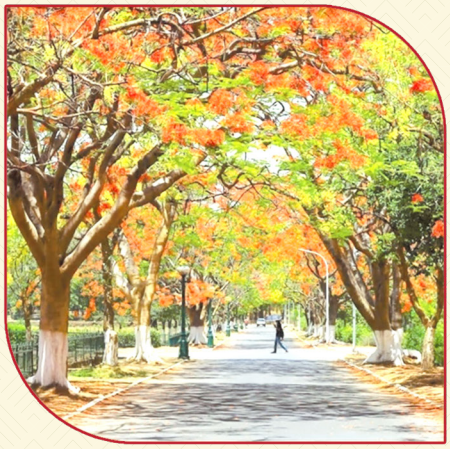
Annexure VI : Internal Complaint Committee (ICC) 2024–25

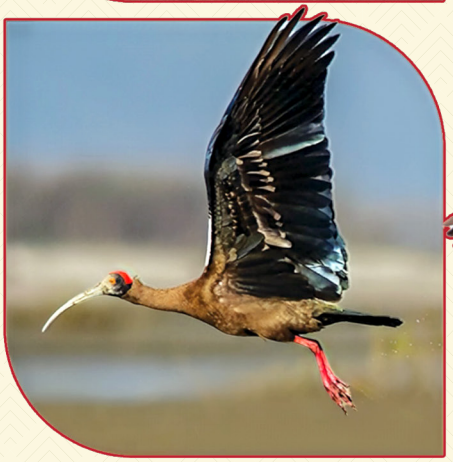
Sl. No	Name	Designation	Department/Organization	Role
1	Dr. (Mrs.) Sunita Keshri	Professor	Department of Physics	Chairperson
2	Dr. (Mrs.) Manju Bhagat	Professor	Department of Management	Member
3	Dr. Ramesh Chandra	Professor	Department of Bioengineering & Biotechnology	Member
4	Mr. Awadhesh Kumar Singh	Dy. Comptroller	—	Member
5	Mrs. Ritu Agrawal	Assistant Professor	Department of Architecture and Planning	Member
6	Ms. Apurva Vivek	Founder	Hasiya Socio-Legal Centre for Women	External Member
7	Dr. Tanusree Dutta	Associate Professor	Dept. of Organizational Behaviour & HR, IIM Ranchi	External Member
8	Three Student Nominees	One each from Ph.D., PG, and UG	—	Member (to be co-opted if the matter involves students)
9	Mrs. Nidhi Jaiswal	Assistant Registrar (Legal)	—	Member Secretary

Annexure VII: Annual Report Committee

Sl. No.	Name / Designation	Department / Affiliation	Role
1	Dr. Animesh Ghosh	Director (IQAC)	Chairperson
2	Dr. Kirti Avishek	ADOFA	Co-Chairperson
3	Dr. Aminul Islam	Dept. of ECE	Member
4	Dr. Somak Datta	Dept. of PIE	Member
5	Dr. Pratima Ekka	Dept. of HMCT	Member
6	Dr. Prabjot Kaur	Dept. of Mathematics	Member
7	Dr. Amit Kumar Tiwari	Dept. of CE	Member
8	Mr. Rizwan Kazmi	Dept. of AP	Member
9	Mr. Arvind Sahu	Assistant Librarian	Member Secretary
10	Mr. Swapendu Mishra	(BTECH/10491/22) (PSoC)	Member
11	Mr. Harshit Sagar	(BTECH/10439/22) (NAPS)	Member

Biodiversity @BIT





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