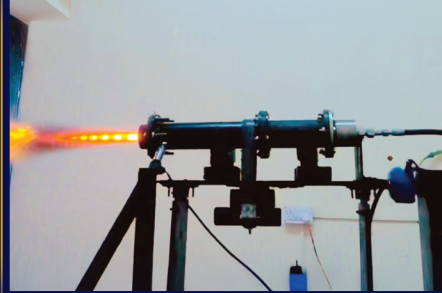
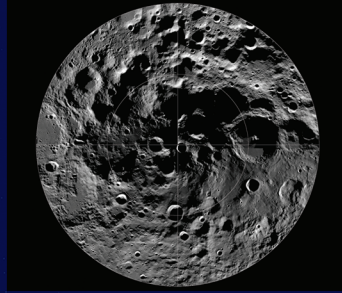


# ANNUAL REPORT वार्षिक प्रतिवेदन 2023 - 24



Recognizing National Achievements in Space Science and Technology



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

# INSTITUTE PRAYER

## —•• प्रार्थना ••—

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

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.

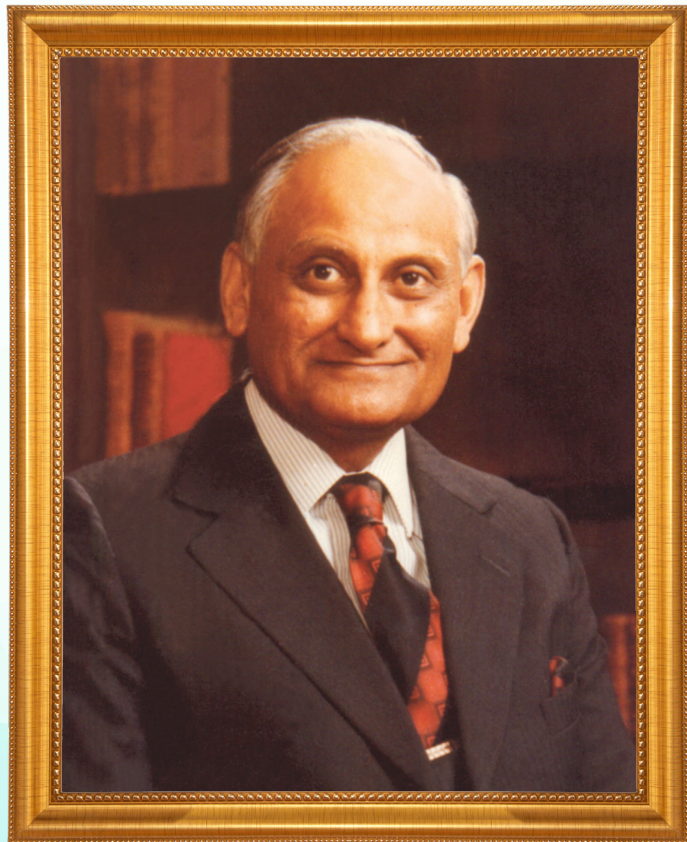
हे जग त्राता, विश्व विधाता, हे सुख शांति निकेतन हे।  
प्रेम के सिन्धु दीन के बन्धु, दुःख दारिद्र विनाशन हे।  
नित्य अखण्ड अनन्त अनादि, पूरण ब्रह्म सनातन हे।  
जगआश्रय जगपति जगवन्दन, अनुपम अलख निरंजन हे।  
प्राण सखा त्रिभुवन प्रतिपालक, जीवन के अवलंबन हे।

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 B.M. Birla**  
Founder of the Institute



**Shri G.P. Birla**  
Former Chairman of the Board of Governors







**Shri C. K. Birla**  
Chairman of the Board of Governors





# ANNUAL REPORT

वार्षिक प्रतिवेदन

2023-24



**BIRLA INSTITUTE OF TECHNOLOGY**

बिरला प्रौद्योगिकी संस्थान

(Deemed to be University)

Mesra, Ranchi - 835215, Jharkhand

**The Theme of the Design  
of the Annual Report**

**“Recognizing National  
Achievements in Space  
Science and Technology.”**



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## Vice-Chancellor's Report



Vice-Chancellor  
Prof. Indranil Manna

BIT Mesra is not only one of the oldest Institutes of Technology in the country but also a pioneer in initiating disciplines like Space Engineering and Rocketry, Remote Sensing, and recently Quantitative Economics and Data Sciences. Apart from this main campus, we also have 5 Centers equally fulfilling the engineering and scientific aspirations of students, from different region and diverse ethnicities, maintaining the quality of teaching and research. The Institute has taken many initiatives to enhance the teaching–learning process, promote innovation and entrepreneurship activities among the students, build state-of-the-art engineering education infrastructure, and pursue high-end R & D activities through various schemes. For the academic year 2023-24 several reforms, regulatory compliances and achievements were obtained that are mentioned below:

### 1. NEW INITIATIVES AND REFORMS

BIT Mesra is a dynamic institution committed to embracing fresh academic programs, embracing innovative teaching methods, exploring novel research opportunities, enhancing its physical and digital infrastructure, implementing forward-thinking administrative practices, and proactively executing decisions made by the Board and regulatory bodies.

BIT has consistently made efforts to create new facilities, recruit bright and promising new faculty members, set up new laboratories, initiate new collaborations, and sign new MOUs. Every department has launched a departmental newsletter or magazine to report their recent activities. Here is a gist of the new initiatives and reforms undertaken by the Institute:

- A total of 171 faculty members have been promoted or regularized across 18 departments including 14 at the level of Professors, 16 as Associate Professors, 42 as Assistant Professors (AL 11 to 12), 72 as Assistant Professors (AL 10 to 11), and 27 more have been regularized at various levels.
- A new Digital Innovation Laboratory (DIL) was set up under Industry-Academia Collaboration with full funding support from Adrosonics Pvt. Ltd., Mumbai at the Centre for Quantitative Economics and Data Science. This new outfit was inaugurated recently on 21st October 2024. The Centre also received financial grants from SERB, ICIMOD, and Adrosonic for Research/ Consultancy Projects and organization of workshops.
- A new Advanced Machine Learning for Geospatial Analytics Laboratory was set up in the Department of Computer Science with funding support under the DST-PURSE scheme for promoting University Research and Scientific Excellence amongst the research community in Jharkhand. This facility can be used by any researcher from Jharkhand.
- A new 5G Use Cases Laboratory was set up in the Department of ECE



under the Government of India initiative to set up 100 such labs across India to build competencies and engagement in 5G technologies for students and startup communities.

- To promote International Collaboration, an MOU has been signed with the University of Windsor, Canada; Juntendo University, Japan; King Faisal University, Saudi Arabia, and Durban University South Africa. Prof. Bill Van Heyst, from Canada, Dr. Takao Asai from Japan, and Dr. Khelifa Bouac from Algeria visited BIT in 2024, and interacted with the faculty members of various departments to enhance collaborative research and innovation.
- The Mechanical Engineering Department formed a new student chapter under the banner of the American Society of Mechanical Engineers, named as ASME BIT Mesra student chapter, and will conduct student activities in the upcoming session.
- The Department of Pharmaceutical Sciences and Technology (PST) started a new initiative to invite alumni to mentor students in preparation for the GPAT examination and higher studies in foreign universities. Also, they are in discussions with research laboratories, and Indian and foreign institutions to undertake MoUs for research and academic collaboration.
- More than 400 students have undertaken industrial training across 150+ reputed companies across India.
- MBA programs of Mesra and Lalpur campuses have been merged
- The Department of Management launched MBA-Online and Integrated MBA program from MO-2024.
- The Department of Chemistry started a new initiative called “Research Scholar Talk Series (RSTS)” every month to improve scholars’ public communication skills and generate awareness on topics of common interest. Under RSTS PhD scholars are given a chance to talk on topics other than their research.
- The Department of Physics established an informal physics discussion group ChalkTalks, inviting presentations on topical interests and research. A list of talks delivered by researchers of the department under this initiative are:
  - Introduction to Quantum Entanglement by Dr. Sourabh Lahiri.
  - Ferroelectrics: An introduction by Mr. Dhanranjan Kumar.
  - The Hunt for God particle (3-part talks) by Dr. R K Dewanjee.
  - Quantum heat engine using spin bath by Mr. Ashutosh Kumar.
- Department of Physics also added new broadband near the Infra-red spectroscopy facility.
- The Department of Space Engineering and Rocketry has been identified by ISRO to be provided with PARAS and PraVaHa CFD software.
- BIT Mesra dispensary made a special tie with Orchid Hospital for free Specialist Doctor consultations for Cardiologists, MD Medicine, Ortho, Neuro, Obstetrics & Gynae, Ophthalmic – ENT, and Urology, for all BIT Mesra employees.
- NEP-2020 has been implemented for BBA and BCA programs at Lalpur.
- BIT Off Campus Deoghar in collaboration with an NGO – “Vasundhara Foundation”, Deoghar meticulously planted 101 shade and fruit-bearing trees across the campus on 15.08.2023, resonating with a collective pledge to nurture environmental sustainability and instilling a sense of community responsibility.



- The Department of Physics, ECE, EEE, Pharmaceutical Sciences & Technology, Mechanical, Remote Sensing, CQEDS, and many departments have published their departmental Newsletters and magazines in 2023-24. University Polytechnic released the second volume of the e-magazine “SPANDAN”,
- Under Scientific Social Responsibility, numerous workshops and training were conducted under various ongoing DST projects in many departments.
- At BIT Patna, the new Centre of Excellence on Smart Electric Vehicles is being established in 2 Phases:  
**Phase 1** : Comprises of EV Powertrain/Drivetrain, EV Battery, Cell, BMS, EV Charging Infrastructure, and EV Real-time HIL Research and Training Setup  
**Phase 2** : Comprises of EV Digital Twin Training and Research Setup, EV Driveline Emulator Advanced Research Test-bed Setup and EV Design, Innovation & Research Bundle (Software Suite)

## 2. Compliance of statutory regulations – NAAC, NBA, AICTE, UGC

In 1986, the Institute was granted the status of a Deemed-to-be University under Section 3 of the UGC Act 1956. The Institute is firmly dedicated to adhering to all regulatory standards and guidelines, aiming to secure national as well as international recognition for our degree programs.

**NAAC** : The Institute is accredited with NAAC Grade “A” with a CGPA of 3.17 on a four point scale.

**NBA** : 80% of all UG programs and 90% of all B.Tech programs are NBA accredited. Among creditable PG programs, 40% have NBA accreditation.

**AICTE** : BIT Mesra, owing to its high standards of educational quality, has received Extension of Approval from AICTE to conduct its UG & PG programs, as well as approvals from Pharmacy Council of India and Council of Architecture for the relevant undergraduate programs.

**UGC** : Birla Institute of Technology is now listed under Section 12(B) of the UGC Act, 1956. The Institute also has revised its Memorandum of Association to comply with the UGC Deemed to be Universities Regulations, 2023 and the same has been approved by UGC.

**Ranking** : The NIRF 2024 Engineering rank of the Institute is 48 and the Times Higher Education 2025 National Rank of the Institute is 45, making it one of the Top 50 Engineering institutions in the country.

## 3. Social service rendered by BIT (Vaccination, Rural, and BIT dispensary) and technical help to the State and neighboring villages.

In addition to upholding its esteemed status as a nationally renowned hub for engineering education and research, BIT Mesra has also consistently endeavored to maintain strong ties with the local community. This commitment involves extending humanitarian assistance, such as job opportunities, entrepreneurial education, and medical aid, whenever feasible.

The BIT Dispensary plays a vital role in ensuring the well-being of the BIT Mesra community and the surrounding villages. This 20-bed healthcare center, which includes two isolation wards, operates round the clock including weekends and holidays, providing comprehensive medical services to BIT students, employees and their families, and the local community. The health center is well-equipped with four ambulances, each fitted with oxygen cylinders and first-aid kits. In the past year, the dispensary treated a total of 34,542 patients. BIT also has a rural dispensary to ensure that the neighboring village gets the benefit of medical services. With services ranging from outpatient care and inpatient services for minor



ailments to emergency care and specialized clinics, the BIT Dispensary stands as a pillar of healthcare support for the entire BIT Mesra community and beyond.

#### 4. Research Grants

The Institute is very keen to promote the culture of research not just for the creation of new knowledge but also for integrating it into our teaching programs, promoting exciting innovation and entrepreneurial activities, and raising the reputation of the Institute to a much higher pedestal.

Institute received Rs. 16.48 crores of funding through various research grants and consultancy projects. Five Departments received DST FIST funding amounting to Rs. 5.14 crores.

#### 5. MOUs and Collaboration

The Institute constantly endeavours to foster and utilize the practice of collaboration with industries and research organizations for making our teaching and research programs more effective and modern.

- In the year 2023-2024 a total of several MOUs were signed with various Government, Private Institutions, and Industries.

##### National level Collaborations:

- Bureau of Indian Standards, Jamshedpur
- Ranchi Smart City, Ranchi
- Twin Engineers, Vadodara
- IIM Bodh Gaya, Bodh Gaya
- Border Security force training centre & school, Hazaribagh
- Ethos Foundation, Kolkata
- India Meteorological Department, Ranchi
- Palas Tree Catalyst Pvt. Ltd. Bengaluru
- Indobell Insulations Ltd. Kolkata
- Speciality Products & Services, Jamshedpur
- Indian Meteorological Department, New Delhi
- IIT Madras
- Skyroot
- Hyundai Motors Limited

##### International Collaboration

- King Faisal University, Kingdom of Saudi Arabia
- Durban University, South Africa.
- University of Windsor, Windsor, Canada.
- Juntendo University, Japan
- University of Mouloud Mammeri, Tizi Ouzou, Algeria















- grant for visit to UK for six months to undertake research work at Scotland Rural College (SRUC), Biorefining and Advanced Materials Research Center, Edinburgh, United Kingdom.
- Dr Muthu Kumar Sampath, Department of Bio-Engineering and Bio-Technology, received SERB International Research Experience (SIRE) grant for visit to UA for 3 months to undertake research work at Separation Science and Technology Ralph E Martin Department of Chemical Engineering, University of Arkansas, Fayetteville, USA.
  - Dr. S. Pal, Department of ECE received the Sci-Tech Excellence Award from NIT Warangal Alumni Association, Kolkata Chapter, and received recognition from diverse groups and institutions for his newly patented small antenna.
  - Dr. Alok Jain, Department of Bioengineering and Biotechnology received the Vishnu Ji Ram Memorial Award from the Indian Society of Chemists and Biologists (ISCB) during the 27th ISCBC International Conference-2022.
  - Dr. Anirban Pradhan, Department of Chemistry received the short gun oral award at the 27th ISCB International Conference (ISCBC-22) organized by the Indian Society of Chemists and Biologists (ISCB).
  - The article written by Dr. Suman Ghosh, Department of Physics, has been mentioned in Nature Index-2022.
  - Prof. Sunita Keshri, Department of Physics, became a Member of the International Advisory Committee of the SISM-2023 Conference organized by Moscow State University.
  - Prof. S. Chakraborty, Department of Mathematics, authored IMTA Best Book on Raga Music Titled –“Hindustani Classical Music: A Historical & Computational Study.”
  - Dr. C. Jeganathan, Dr. V.S. Rathore and Mr. Beependra Singh, Department of Remote Sensing, received a letter of appreciation from Director General of Forest Survey of India, Ministry of Environment, Forest and Climate Change, Government of India, for their work on quantifying the leaf fall using satellite data over Central Indian Forested Landscape.
  - Dr. A.P. Krishna from Department of Remote Sensing was invited as an Academic Expert by Indian Universities and Institutions Network for Disaster Risk Reduction.
  - Dr. C. Jeganathan, Professor, Department of Remote Sensing was invited as a Keynote Speaker in the National Seminar on “Climate Change and Adaptation Strategies for Sustainable Livelihood” organised by the Rajiv Gandhi Central University, Arunachal Pradesh (27-28th March, 2023), and delivered a keynote talk on “Diagnostic tools and techniques in the investigation of Climate Change”.
  - Dr. Praveen Srivastava from Department of HMCT, delivered an expert talk in International Hospitality and Tourism Webinar organized by College of Hospitality and Tourism Management, Divine Word College of Vigan, Philippines.
  - Dr. Prabjot Kaur, Department of Mathematics received the Second Best Paper Award in AOTA 2023 organised by REC, Jharkhand & Sultan Moulay Slimane University, Morocco & City University, Malaysia.
  - Ar. Rizwan Kazmi, from the Department of Architecture, received a Summer Faculty Research Fellowship, from IIT Delhi.
  - Dr. Deepak Verma from BIT Jaipur was recognized among Stanford University’s World’s Top Scientists List (in India 25562) in 2022.





- Dr. Lakhbir Singh Brar, Dr. Om Prakash, Dr. Saurav Chakraborty, Dr. Arkadeb Mukhopadhyay, and Dr. Sushanta Ghuku of Department of Mechanical Engineering conducted the 2nd International Conference on Thermo-Fluids and System Design (ICTFSD 2024) from April 4 to April 5, 2024, and it was partially funded by SERB, ANSYS Inc., and COMSOL.
- Dr. Vibha K. Raina and Ms. Soma Sircar of BIT Noida campus organized a Faculty Development Program (FDP) on Blockchain Technology & Applications, from June 24 to June 28, 2024.
- Dr. Vijay Nath of the Department of Electronics and Communication Engineering organized a Short-Term Training Program on Microelectronics & VLSI Design (STTP-MVD-2024), from April 2 to April 6, 2024.
- Dr. Sanjay Kumar, Chairman, of the Value Education Cell and his team conducted a three-week Students' Induction Program (SIP) for the newly admitted UG and PG students of the MO 2023 Batch from September 1 to September 22, 2023.
- Dr. Vijay Nath of the Department of Electronics and Communication Engineering organized a one-day hands-on workshop on Analog VLSI Design (AVD-2024) on March 4, 2024.
- Dr. Partha Sarathi Bishnu, Dr. Umesh Prasad, and Dr. S. Mukherjee of BIT Lalpur campus organized the International Conference on Machine Intelligence with Applications 2023 (ICMIA 2023) from December 7 to December 8, 2023, as an internal event.
- Dr. Rajeev Kumar Sinha of the Department of Physics organized a five-day workshop on "Advances in Photonics & Spectroscopy," from March 11 to March 15, 2024.
- Dr. Nidhi Mishra of BIT Patna campus conducted the Ansys Tech Day Workshop in collaboration with Ansys on May 3, 2024.
- Dr. Nishikant Kumar, with co-coordinators Dr. Abhinav Kumar Shandilya and Dr. Anand Kumar of the Department of HMCT conducted a Management Development Program (MDP) on Excellence in Tourism and Hospitality Service by the Directorate of Tourism, Government of Jharkhand, from October 9 to October 19, 2023.
- Department of Management conducted MDP for Indane Distributors in February 2024.
- Raj Bhasha Prakosht and the Department of Mathematics organised The International Conference on Recent Trends in Engineering and Sciences (RTES-2024) from March 29 to March 30, 2024.
- Department of Remote Sensing in collaboration with the National Remote Sensing Centre (NRSC, ISRO, Hyderabad) organized "National Space Day" on 8th August 2024 at CAT Hall BIT Mesra Ranchi Mesra to commemorate the successful Chandrayaan-3 Mission with Vikram Lander and Pragyan Rover on the South Pole of Moon. 24 Schools/Colleges, and 300 students and teachers participated and competed in 3 different events like Space Video Reels Creation. Quiz competition and Model competition of Vikram Lander and Pragyan Rover.
- Department of Chemistry, BIT Mesra and STEMMED EDVOCATIONS OPC PVT Ltd, Bhubaneswar organized a One-day "Inter School Chemistry Quiz Contest-2023," on 16th December 2023. This event has opened up a golden opportunity for the students to visit the Higher Education Institute (HEI) and explore options through a new Science Quiz mode that promotes science and outreach activities. In this quiz competition, a total of 14 schools participated and a total of 185 participants were present.
- Besides various workshops, all departments also conducted summer internship programs for the



students.

### 13. Visit of Eminent Professionals and Interaction Sessions with our Student and Faculty members

Several eminent speakers visited BIT and presented, interacted, and shared their ideas and expertise with students and faculty. Some of the prominent visitors/speakers were:

- Dr Debdatta Ratna, Scientist G, NMRL, DRDO, Ambarnath, Maharashtra
- Professor Rahul Mukherjee, the National Science Chair at IIM Calcutta
- Professor Partha Ray of NIBM, Pune
- Professor Mousumi Dutta of Presidency University, Kolkata
- Professor Vimal Kumar of Department of Economic Sciences, IIT Kanpur
- Professor Anup Dewanji of ISI Kolkata
- Professor Animesh Mukherjee of Computer Science Engineering Department of IIT Kharagpur
- Mr Mayank, CEO & Managing Director, Adrosonic
- Dr. Abhishek, Prof. from IMT Ghaziabad
- Prof. Rajesh, (Department of Adult and Continuing Education, University of Delhi)
- Prof Gautam Biswas, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Uttar Pradesh
- Prof. Prasanta Kumar Das, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal
- Prof. Partha Pratim Bandyopadhyay, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal
- Dr. Jeevanjyoti Chakraborty, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal
- Dr. Shital Garg, Scientist E, Solid State Physics Laboratory, Defence Research and Development Organisation, New Delhi
- Prof. Anil Kumar, Professor, Department of Mechanical Engineering, Delhi Technical University, New Delhi
- Dr. Indranil Chatteraj, Ex-Director, NML Jamshedpur.
- Dr. Nitin P Wasekar, ARCI Hyderabad
- Dr. Soupitak Pal, Senior Scientist, CGCRI Kolkata
- Prof. Namrita Lall, University of Pretoria
- Mr. Ankur Ranjan, Global Program Manager-Oncology, Boehringer Ingelheim
- Mr. Raweesh Chaudhary, Senior Strategy Director SERB Pharmaceuticals, USA

### 14. Entrepreneurship Development Opportunities

BIT Mesra has been a land mark organization in handling new startups. BIT STEP is just an example





of legendary vision. In continuation with its vision, BIT Mesra encourages various Entrepreneurship Development Opportunities, some of which are mentioned here:

**Inventor's Forge (August 2023)** : A two-round event testing marketing and innovation skills. The first round, "Marketing Spin-Off," challenged teams to identify brands through logos and taglines. The event concluded with "Innovate-A-Thon," where participants developed product ideas for the agriculture sector.

**Marketing Maestro & The Marketers (October 2023)** : An event focused on enhancing marketing skills through interactive sessions, workshops, and competitions. Led by industry experts, students tackled real-world marketing challenges, fostering creativity, strategic thinking, and practical application.

**E-Summit (January 2024)** : A summit designed to foster innovation and entrepreneurship through workshops, panel discussions, and pitch sessions. Students gained insights into the startup ecosystem, engaged with industry leaders, and explored new business opportunities.

**Investor Hat & Fantasy Start (March 2024)** : Investor Hat" allowed participants to act as investors, analysing potential startups. "Fantasy Start" simulated the startup process, offering hands-on experience from ideation to pitching. Both events enhanced entrepreneurial and investment skills.

## 15. Role of BIT in implementing NEP 2020:

The new education policy NEP 2020 has paved the way to many new ventures and BIT Mesra has quickly adopted it into its curriculum. According to NEP 2020, new courses have been included for enhancing Skill Enhancement, Ability enhancement, Entrepreneurship Development, and Value Education. BIT has been following the Choice Based Credit System which gives flexibility to the students to take the courses of their own interest offered across the university.

## 16. Publications, Patents, Conferences, and Seminars organized.

The faculty members are actively involved in research and publishing quality research articles in various forums. Several initiatives were taken towards improving and accelerating innovation and Intellectual Property (IP).

Published 24 books, 881 articles in reputed journals, and 153 chapters in edited books.

A total of 58 patents were published and 23 patents were granted from 1st July 2023 to 30th June 2024.

35 seminars and conferences were organised, and 187 conferences/workshops/seminars were attended by various departments and faculty.

Project worth 27.24crores are ongoing with the faculty members of the Institute.

Several initiatives were taken toward innovation and Intellectual Property (IP) generation.

In 23-24, a total of 58 patents were published, 23 were granted of which 19 are US patents.

35 seminars and conferences have also been organized by various departments and centers. 137 faculties attended various conferences and seminars.

## 17. Foundation Day Celebration and Distinguished Alumni Award

Birla Institute of Technology, Mesra hosted a grand event "Foundation Day" to celebrate the past, present and future on 14th & 15th July '2023.



This year as well the institute felicitated its most illustrious alumnus by way of conferring the Distinguished Alumni Award under 6 different categories, as decided earlier. Apart from this, to pay tribute to our faculty members who have made us proud in the past, the institute under the Chairmanship of our Vice Chancellor decided to felicitate the Distinguished Teacher's Award.

### Categories of Award:

**Category 1 :** Contributions to Engineering, Technology and Entrepreneurship –

**Mr. Ganesh Natarajan**

B.Sc. (Mechanical Engineering) (1973 – 1979)

**Category 2 :** Leadership in Corporate World, Industry, Academia, and Research Institutions

**Mr. Sanjay Nayak**

B.E (Electronics & Communication Engineering) (1983 – 1987)

**Category 3:** Excellence in Teaching and Research in Engineering and Technology

**Prof. Ramjee Prasad**

Ph.D. (Electronics & Communication Engineering) (1979)

**Category 4:** Service to Society in India and abroad including support to the alma mater

**Mr. Surinder Chadha**

B.Sc. (Civil Engineering) (1959 – 1963)

**Category 5:** Distinguished service in any of the above categories by an illustrious alumna (Distinguished Alumna Award)

(Under category: Service to Society in India and abroad, including support to the alma mater)

**Ms. Anamika Jha**

B.E (Electronics & Communication Engineering) (2006 – 2010)

**Category 6:** Distinguished Alumni Award for Contributions to Engineering, Technology and Entrepreneurship (Distinguished Alumnus Award) –

**Mr. Amit Choudhary**

B.E (Information Technology) (2005 – 2009)

Institute also recognized the services of its teachers who served BIT Mesra and brought laurels to the institute:

The Distinguished Teacher Award for contribution towards academic excellence in teaching and research were given to 5 teachers.

- 1) Prof. Subrato Sengupta : Civil Engineering Department
- 2) Prof. Ashok Misra : Mechanical Engineering Department
- 3) Prof. Surinder Kumar : Production Engineering Department
- 4) Prof. Mandira Mukherjee : Chemical & Polymer Engineering
- 5) Prof. R Sukesh Kumar : Electronics & Communication Engineering



## 18. Birla Institute of Technology Mesra Alumni Association (BITMAA)

Our Alumni Association, Birla Institute of Technology Alumni Association (BITMAA) has been registered under Societies Act XXI, 1860 on 10th of January 2022. The PAN card and bank account is also operational. 12A and 80G certificates have been obtained.

## 19. Alumni Interactions

The university has taken several measures to ensure interaction with the alumni.

Dr. Aatmesh Shrivastava from Northeastern University in Boston delivered a compelling webinar series titled “Unveiling the Blueprint: Engineering the Future with Hardware Design for Machine Learning Systems.” This series comprised four lectures held on the 2nd of September, 16th of September, 30th of September, and the 14th of October in 2023.

## 20. Digital Infrastructure Augmentation Drive

The Birla Institute of Technology, Mesra made rapid strides in terms of augmenting its digital infrastructure. One of the major initiatives was in the deployment of the campus wide FTTH service. This has allowed most residential quarters on the campus to be connected by the Institute’s internet facilities thus providing faculty members and staff the opportunity of utilizing the Institute’s network resources from their places of residence. Complementary to this the Institute is also establishing the latest IP-based telephone exchange system, which allows the infiltration of the latest technology in this domain for use on the campus. As a part of this project, the Institute has already started providing intercom connections on their desks to all faculty members.

One of the major digital initiatives undertaken by the Institute was to adopt a new ERP system, in alignment with the vision of “One Institute One System” that we so rigorously follow. The new ERP is deployed across all our extension centers.

## 21. Placement Summary

One of the key factors which bring BIT into the limelight, as an institution of high repute, is its campus placement. The Campus Recruitment Program of BIT has further strengthened the value-added relationships with recruiters across a wide spectrum of industries. Every year new milestones are achieved which speak for the strength of the BIT student community as well as the diversity in academic programs.

In the Campus Recruitment Programme of 2023-24, around 179 recruiters from different sectors visited for full time recruitment and internship, achieving an overall target of 607 job offers.

The Mesra campus boasts an average package of INR 12.09 lakhs per annum and the highest national salary of INR 52.00 lakhs per annum for BTECH Programme.

## 22. Degree Summary

In the 34<sup>th</sup> Convocation, a total of 2715 degrees are being awarded comprising 103 Ph.D., 636 postgraduate, 1824 undergraduate degrees, and 152 diplomas.



### 23. Institute Innovation Council

The Institution's Innovation Council BIT Mesra has organized a total of 68 events during 2023-24, including (Innovation Workshops - 12, Seminar/Webinars-21, Innovation Competitions- 20 and National Celebration Activities- 15) (Under BIT-NISHAN-23 & Business Plan Annual Competition, 9 student teams were awarded with funding support for product development & start-up registration.

(Under the IIC-BIT, National Science Day was celebrated on 28th Feb 2024. A total of 130 students & faculty from 13 colleges in Ranchi participated. Chief Guest Prof. Sunil Sinha, Professor and Director of Civil and Environmental Engineering, Virginia Tech. USA. and National Technology Day was celebrated on 8th May 2024. Theme was "From School to Start-ups :- Igniting Young Minds to Innovate". 175 school students participated in the Innovative Product Model Competition. Winners were awarded. Chief Guest - Dr. Monojit Dutta, Chief Product Development Research Group, R&D Tata Steel, Jamshedpur.)

### 24. Achievements of NSS, NCC and Rajbhasha Cell

NSS of BIT Mesra adopted 10 nearby villages and conducted various awareness and educational programs in the villages. The NSS celebrated various events like Yoga Day, Prabhat Pheri, Van Mahotsav, Plantation Drive, Blood Donation Camp, World Environment Day, Health Checkup Camp, Voter Awareness, Har Ghar Tiranga, Swacchta Abhiyaan and many more. The Program Coordinator of NSS is Dr. O.P. Pandey – President Awardee.

Some of the Notable Contributions and achievements made by NSS and its members include:

Second Highest Contribution in Voluntary Blood Donation Camp by Engineering College in Jharkhand with 450 blood units in a single day camp.

Mr. Rahul Raj, Mr. Prashant Kumar, and Mr. Ravi Kumar received the NSS award from the President of India in recognition of their exceptional dedication to educating underprivileged villagers.

The NSS volunteers from BIT Off Campus Deoghar undertook a commendable initiative to raise awareness about personal hygiene and sanitation at nearby Ratanpur Village, adopted by BIT Deoghar, and distributed sanitary napkins to young girls and women. The entire BIT Deoghar fraternity contributed donations for this noble cause, demonstrating their collective commitment to improving the community's well-being.

The NSS unit of BIT Deoghar organised a one-hour Shramdaan as part of the Swachhata program. Students from the 2022 and 2023 batches enthusiastically participated in this cleanliness drive, diligently cleaning the campus and its surroundings towards a solid commitment to maintaining cleanliness and hygiene in the community.

The NSS unit of BIT Deoghar organised a Nukkad Natak at the Book Fair, B.Ed. College, Deoghar on 18.01.2024. The event was orchestrated by NSS coordinator Dr. Payal Bhardwaj and Semester Coordinator Dr. Amit Kumar. Student coordinators Hrishav Choudhary, Neeraj Verma, and Anish from the 2021 Batch played pivotal roles in ensuring the program's success.

The NSS unit of BIT Deoghar organised a series of engaging activities for the children on 03.03.2024 at Ratanpur Village, Jasidih, and Madhyamik School in Kunjisar Village, Jasidih. The event included exciting competitions such as the Spoon Race, Paper Art, Quiz, and Drawing Competitions, allowing young minds to showcase their talents and creativity.



NCC of BIT Mesra organized events like the Annual Training Camp, Women’s Day special Free health check-up camp, Swachh Bharat Abhiyan, Puneet Sagar Abhiyaan, Blood Donation Camp, and Republic Day Parade to name a few.

The Official Language Cell of Birla Institute of Technology, Mesra, successfully organized the “Hindi Pakhwada” during the academic year 2024 from September 13, 2024, to September 15, 2024. As part of promoting Hindi, the Official Language Cell also successfully organized essay and speech writing competitions at the nearby Jawahar Navodaya Vidyalaya. Around 300 participants took part in these competitions, with 100 participants in speech writing and 200 in poetry and essay writing.





## 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.

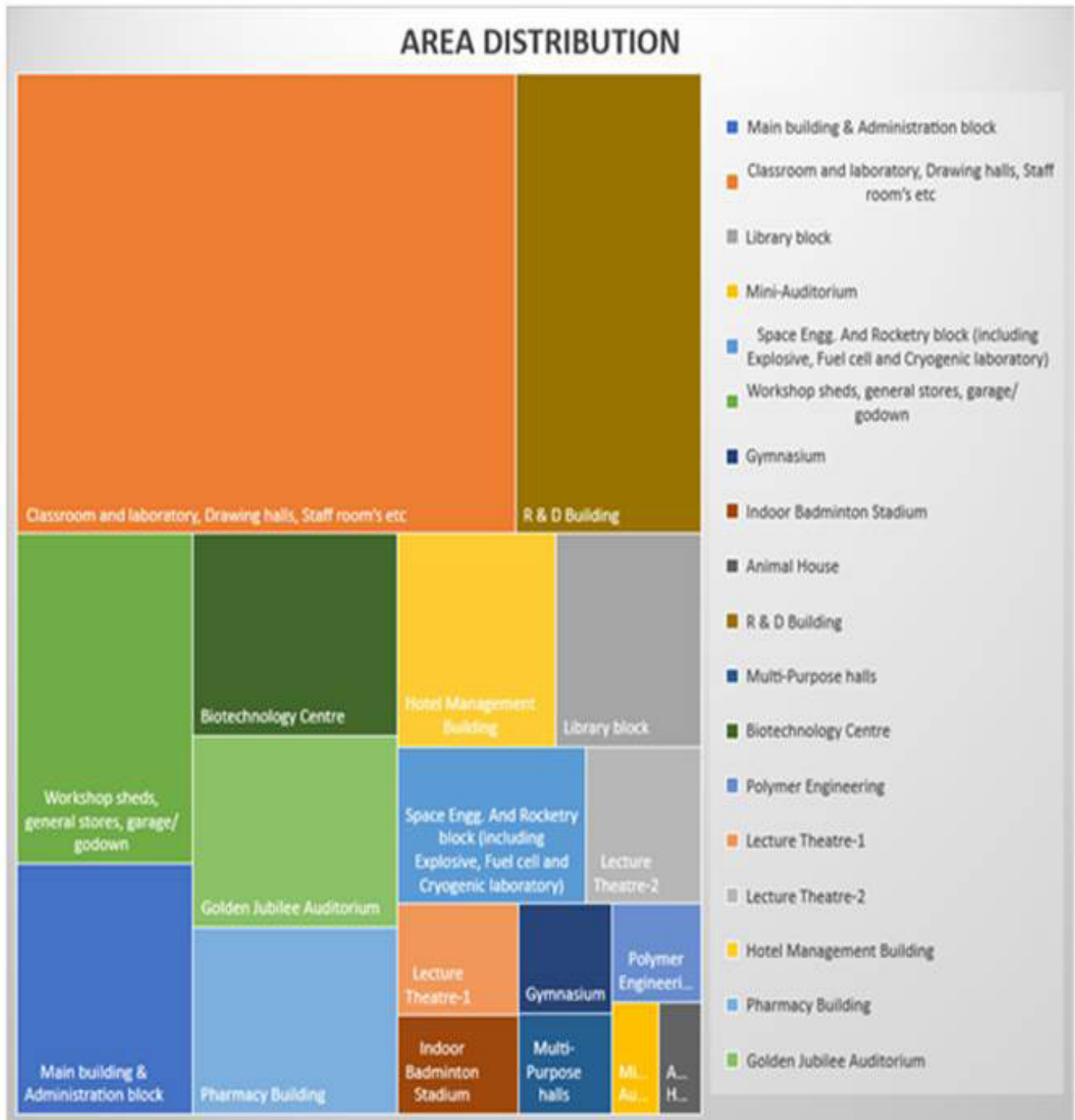
<b>Institute Building</b>	<b>(Sq Mtrs.)</b>
❖ Main building & Administration block	3700
❖ Classroom and laboratory, Drawing halls, Staff room's etc	19300
❖ Library block	2600
❖ Mini-Auditorium	450
❖ Space Engg. And Rocketry block (including Explosive, Fuel cell and ○ Cryogenic laboratory)	2490
❖ Workshop sheds, general stores, garage/godown	4880
❖ Gymnasium	850
❖ Indoor Badminton Stadium	1000
❖ Animal House	400
❖ R & D Building	7200
❖ Multi-Purpose halls	785
❖ Biotechnology Centre	3477
❖ Polymer Engineering	744
❖ Lecture Theatre-1	1143
❖ Lecture Theatre-2	1535
❖ Hotel Management Building	2835
❖ Pharmacy Building	3220
❖ Golden Jubilee Auditorium	3280



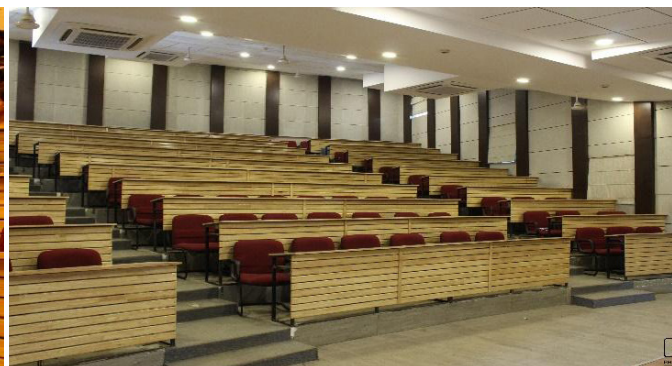
### Residential Complex

Staff quarter in different categories	422
Residential complex for supporting services Guards, Dairy Shopkeepers, Washer man etc.	116

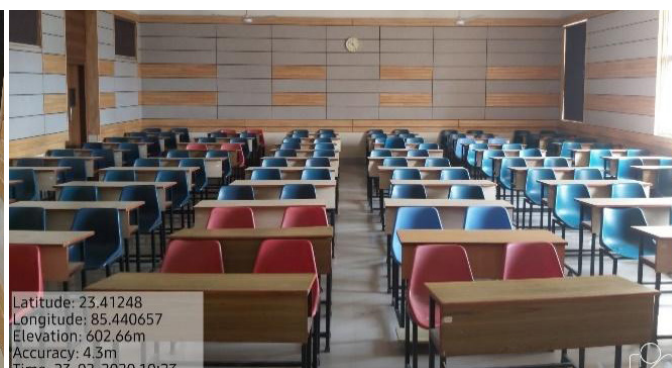
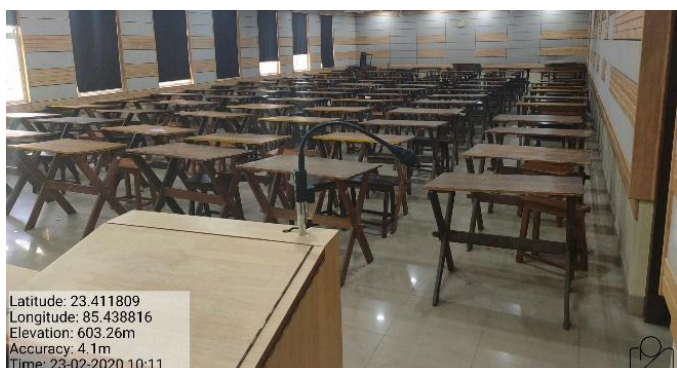
The campus area distribution is shown in the following treemap visualization.







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 38 furnished rooms and one VIP Guest-House with 3 deluxe bedrooms to accommodate the Institute's Guests.



## 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 Beds 12 (Male-9, Female-4)

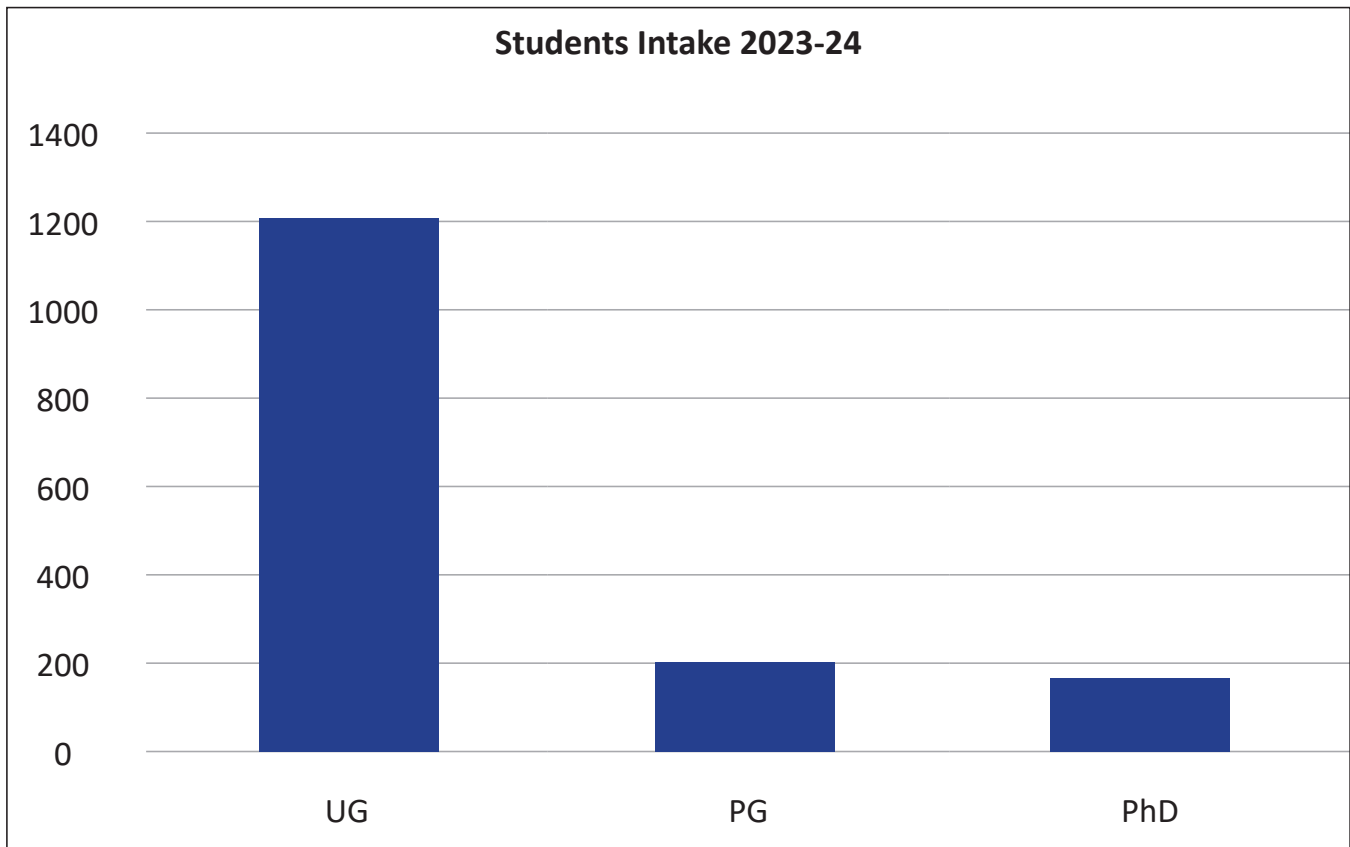
### Shopping Centre

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





## Admission in UG Programmes 2023-24 (Mesra Campus)

Sl. No.	Course	Numbers of Admissions
1	Bachelor of Technology	1004
2	Bachelor of Architecture	26
3	Bachelor of Pharmacy	47
4	Bachelor of Hotel Management & Catering Technology	10
5	Integrated M.Sc	109
6	B.Sc Chemistry	6
<b>Total:</b>		<b>1202</b>

### Details of UG Admission at Mesra Campus:

Sl. No.	Branch	Intake Seats	Numbers of Admissions
1	B.Tech Biotechnology	60	53
2	B.Tech Food Engineering and Technology	30	12
3	B.Tech Chemical Engineering	120	117
4	B.Tech Civil Engineering	60	59
5	B.Tech Computer Science & Engineering	180	243
6	B.Tech Electrical & Electronics Engineering	60	62
7	B.Tech Electronics & Communication Engineering	180	200
8	B.Tech Artificial Intelligence and Machine Learning	60	74
9	B.Tech Mechanical Engineering	120	132
10	B.Tech Production and Industrial Engineering	60	52
11	Bachelor of Architecture (B. Arch)	40	26
12	Bachelor of Pharmacy (B. Pharma)	60	47
13	Bachelor of Hotel Management & Catering Technology (BHMCT)	30	10
14	B.Sc. in Chemistry	30	6
15	Integrated M.Sc. in Mathematics & Computing	60	63
16	Integrated M.Sc. in Physics	30	16
17	Integrated M.Sc. QE and DS	30	30
<b>Total:</b>		<b>1210</b>	<b>1202</b>

## Admission in PG Programmes 2023-24 (Mesra Campus)

Sl. No.	Branch	Numbers of Admissions	
1	MBA	132	
2	MCA	66	
3	M.Tech Production and Industrial Engineering	1	
4	M.Tech Bioengineering and Biotechnology	3	
5	M.Tech Civil and Environmental Engineering	Soil Mechanics & Foundation Engineering	0
		Structural Engineering	8
		Environmental Science & Engineering	1





Sl. No.	Branch	Numbers of Admissions	
6	M.Tech Computer Science and Engineering	22	
7	M.Tech Electrical and Electronics Engineering	5	
8	M.Tech Electronics & Communication Engineering	7	
9	M.Tech Mechanical Engineering	8	
10	M.Tech Aerospace Engineering	4	
11	M. Tech Remote Sensing	10	
12	M.Tech Electric Vehicle Technology (Tata Motor only)	24	
13	Pharmaceutical Sciences and Technology	M.Pharm in Pharmaceutics	15
		M.Pharm in Pharmaceutical Chemistry	5
		M.Pharm in Pharmacology	11
		M.Pharm in Pharmacognosy	1
		M.Pharm in Pharmaceutical Quality Assurance	7
14	Master of Urban Planning (MUP)	9	
15	M.Sc. in Biotechnology	34	
16	M.Sc. in Chemistry	2	
17	M.Sc. in Geoinformatics	19	
18	M.Sc. in Physics	3	
<b>Total:</b>		<b>397</b>	

### Admission in Ph.D Programme – 2023-24 (Session MO-2023)

Sl. No.	Departments	Numbers of Admissions
1	Architecture & Planning	1
2	Bio Engineering & Technology	12
3	Computer Science.& Engineering	2
4	Chemistry	5
5	Chemical Engineering	7
6	Civil & Environmental Engineering	2
7	Electrical and Electronics Engineering	1
8	Electronics and Communication Engineering	4
9	Mechanical Engineering	2
10	Management	14
11	Production and Industrial Engineering	1
12	Physics	4
13	Pharmaceutical Science & Technology	12
14	Remote Sensing	2
15	Space Engineering and Rocketry	1
16	QUANTITATIVE ECONOMICS & DATA SCIENCE	3
<b>Total:</b>		<b>73</b>



## Admission in Ph.D Programme – 2023-24 (Session SP-2024).

Sl. No.	Departments	Numbers of Admissions
1	Architecture & Planning	2
2	Bio Engineering & Technology	6
3	Computer Science & Engineering	11
4	Chemistry	2
5	Chemical Engineering	2
6	Civil & Env. Engineering	5
7	Electrical and Electronics Engineering	4
8	Electronics and Communication Engineering	3
9	Mechanical Engineering	2
10	Management	7
11	Production and Industrial Engineering	1
12	Pharmaceutical Sc. & Tech.	8
13	Remote Sensing	2
14	QUANTITATIVE ECONOMICS & DATA SCIENCE	1
<b>Total:</b>		<b>56</b>

### Summary of No. of Degree Recipients' Course wise/Center wise

#### 33<sup>rd</sup> Convocation (Pass out from 1<sup>st</sup> October 2022 to 16<sup>th</sup> August 2023)

S. No.	Center	Course				Total
		Ph.D	PG	UG	Diploma	
1	Mesra	46	498	821	0	1365
2	Patna	3	19	361	0	383
3	Deoghar	2	0	140	0	142
4	Lalpur	1	105	323	0	429
5	Noida	4	53	70	0	127
6	Jaipur	0	24	205	0	229
7	University Polytechnic	0	0	28	115	143
	<b>Total</b>	<b>56</b>	<b>699</b>	<b>1948</b>	<b>115</b>	<b>2818</b>

### BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI

#### 33<sup>rd</sup> CONVOCATION (MESRA)

1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				23
	Doctor of Philosophy (Management)				4
	Doctor of Philosophy (Pharmacy)				6
	Doctor of Philosophy (Science)				10
	Doctor of Philosophy (Technology)				3
				<b>Total</b>	<b>46</b>



2	Post-Graduate Degrees	ID	I	II	Total
	Integrated Master of Science (Chemistry)	0	7	0	7
	Integrated Master of Science (Food Technology)	0	14	0	14
	Integrated Master of Science (Mathematics and Computing)	0	72	0	72
	Integrated Master of Science (Physics)	0	16	2	18
	Master of Business Administration	0	92	0	92
	Master of Computer Applications	0	48	0	48
	Master of Engineering (Electronics and Communication)	0	0	1	1
	Master of Pharmacy	53	0	0	53
	Master of Science (Biotechnology)	0	19	0	19
	Master of Science (Chemistry)	0	4	0	4
	Master of Science (Geo-Informatics)	0	9	0	9
	Master of Science (Mathematics)	0	5	0	5
	Master of Science (Physics)	0	5	0	5
	Master of Technology (Biotechnology)	0	13	0	13
	Master of Technology (Computer Aided Analysis and Design)	0	4	0	4
	Master of Technology (Civil Engineering)	0	15	0	15
	Master of Technology (Computer Science and Engineering)	0	10	0	10
	Master of Technology (Computer Science and Engineering - Machine Learning)	0	10	0	10
	Master of Technology (Electronics and Communication Engineering)	0	19	0	19
	Master of Technology (Electrical Engineering)	0	13	0	13
	Master of Technology (Energy Technology)	0	2	0	2
	Master of Technology (Environmental Science and Engineering)	0	10	0	10
	Master of Technology (Information Security)	0	3	0	3
	Master of Technology (Information Technology)	0	6	0	6
	Master of Technology (Mechanical Engineering)	0	6	0	6
	Master of Technology (Remote Sensing)	0	6	0	6
	Master of Technology (Space Engineering and Rocketry)	0	19	0	19
	Master of Urban Planning	0	14	1	15
			<b>Total</b>		<b>498</b>
3	Under-Graduate Degrees	ID	I	II	Total
	Bachelor of Architecture	14	16	0	30
	Bachelor of Technology (Biotechnology)	17	3	0	20
	Bachelor of Engineering (Biotechnology)	1	0	0	1
	Bachelor of Technology (Chemical Engineering)	33	10	0	43
	Bachelor of Engineering (Chemical and Polymer)	0	1	0	1
	Bachelor of Technology (Chemical-Plastics and Polymer)	18	15	0	33
	Bachelor of Technology (Civil Engineering)	36	20	0	56
	Bachelor of Engineering (Civil)	0	2	2	4
	Bachelor of Technology (Computer Science)	118	15	0	133
	Bachelor of Technology (Electronics and Communication Engineering)	113	16	0	129
	Bachelor of Engineering (Electronics and Communication)	0	1	1	2
	Bachelor of Technology (Electrical and Electronics Engineering)	45	12	0	57



Bachelor of Technology (Information Technology)	58	12	0	70
Bachelor of Technology (Mechanical Engineering)	97	21	0	118
Bachelor of Technology (Production Engineering)	25	14	0	39
Bachelor of Hotel Management	0	1	0	1
Bachelor of Hotel Management and Catering Technology	8	14	0	22
Bachelor of Pharmacy	46	3	0	49
Bachelor of Science (Major in Chemistry)	1	0	0	1
Bachelor of Science (Major in Mathematics and Computing)	3	0	0	3
Bachelor of Science (Major in Physics)	5	4	0	9
	<b>Total</b>			<b>821</b>
	<b>Grand Total</b>			<b>1365</b>

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
33 <sup>rd</sup> CONVOCATION (PATNA)					
<b>1</b>	<b>Doctor of Philosophy</b>			<b>Total</b>	
	Doctor of Philosophy (Engineering)			2	
	Doctor of Philosophy (Management)			1	
	<b>Total</b>			<b>3</b>	
<b>2</b>	<b>Post-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Master of Business Administration	0	18	0	18
	Master of Technology (Computer Science)	0	0	1	1
	<b>Total</b>				<b>19</b>
<b>3</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Architecture	0	1	1	2
	Bachelor of Business Administration	60	12	0	72
	Bachelor of Computer Applications	32	8	0	40
	Bachelor of Technology (Civil Engineering)	12	14	0	26
	Bachelor of Engineering (Civil)	0	0	1	1
	Bachelor of Technology (Computer Science and Engineering)	49	13	0	62
	Bachelor of Technology (Electronics and Communication Engineering)	34	14	0	48
	Bachelor of Technology (Electrical and Electronics Engineering)	20	30	0	50
	Bachelor of Engineering (Electrical and Electronics)	0	1	1	2
	Bachelor of Technology (Information Technology)	14	11	0	25
	Bachelor of Technology (Mechanical Engineering)	12	18	0	30
	Bachelor of Engineering (Mechanical)	0	1	0	1
	Bachelor of Engineering (Production)	0	2	0	2
		<b>Total</b>			<b>361</b>
		<b>Grand Total</b>			<b>383</b>



BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
33 <sup>rd</sup> CONVOCATION (DEOGHAR)					
<b>1</b>	<b>Doctor of Philosophy</b>			<b>Total</b>	
	Doctor of Philosophy (Engineering)			2	
	<b>Total</b>			<b>2</b>	
<b>2</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Business Administration	10	3	0	13
	Bachelor of Computer Applications	3	0	0	3
	Bachelor of Technology (Computer Science and Engineering)	39	12	0	51
	Bachelor of Engineering (Computer Science)	0	2	1	3
	Bachelor of Technology (Electronics and Communication Engineering)	27	10	0	37
	Bachelor of Technology (Electrical and Electronics Engineering)	14	4	0	18
	Bachelor of Technology (Mechanical Engineering)	5	8	0	13
	Bachelor of Engineering (Mechanical)	0	1	0	1
	Bachelor of Technology (Production Engineering)	1	0	0	1
	<b>Total</b>				<b>140</b>
	<b>Grand Total</b>				<b>142</b>

BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI					
33 <sup>rd</sup> CONVOCATION (LALPUR)					
<b>1</b>	<b>Doctor of Philosophy</b>				<b>Total</b>
	Doctor of Philosophy (Management)				1
	<b>Total</b>				<b>1</b>
<b>2</b>	<b>Post-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Master of Business Administration	0	51	0	51
	Master of Computer Applications	0	54	0	54
	<b>Total</b>				<b>105</b>
<b>3</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Business Administration	165	23	1	189
	Bachelor of Computer Applications	111	22	1	134
	<b>Total</b>				<b>323</b>
	<b>Grand Total</b>				<b>429</b>





**BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI**  
**33<sup>rd</sup> CONVOCATION (NOIDA)**

<b>BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI</b>					
<b>33<sup>rd</sup> CONVOCATION (NOIDA)</b>					
<b>1</b>	<b>Doctor of Philosophy</b>				<b>Total</b>
	Doctor of Philosophy (Management)				4
				<b>Total</b>	<b>4</b>
<b>2</b>	<b>Post Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Master of Business Administration	0	21	0	21
	Master of Computer Applications	0	32	0	32
				<b>Total</b>	<b>53</b>
<b>3</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Business Administration	19	10	1	30
	Bachelor of Computer Applications	13	14	1	28
	Bachelor of Science (Animation and Multimedia)	9	3	0	12
				<b>Total</b>	<b>70</b>
				<b>Grand Total</b>	<b>127</b>

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI**  
**33<sup>rd</sup> CONVOCATION (JAIPUR)**

<b>BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI</b>					
<b>33<sup>rd</sup> CONVOCATION (JAIPUR)</b>					
<b>1</b>	<b>Post Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Master of Science (Animation Design)	0	3	0	3
	Master of Business Administration	0	2	0	2
	Master of Computer Applications	0	19	0	19
				<b>Total</b>	<b>24</b>
<b>2</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Business Administration	15	6	0	21
	Bachelor of Computer Applications	12	9	0	21
	Bachelor of Technology (Computer Science)	47	5	0	52
	Bachelor of Technology (Electronics and Communication Engineering)	37	7	0	44
	Bachelor of Engineering (Electronics and Communication)	0	0	1	1
	Bachelor of Technology (Electrical and Electronics Engineering)	31	11	0	42
	Bachelor of Science (Animation and Multimedia)	24	0	0	24
				<b>Total</b>	<b>205</b>
				<b>Grand Total</b>	<b>229</b>



**BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI**

**33<sup>rd</sup> CONVOCATION (UNIVERSITY POLYTECHNIC)**

<b>BIRLA INSTITUTE OF TECHNOLOGY, MESRA-835215, RANCHI</b>					
<b>33<sup>rd</sup> CONVOCATION (UNIVERSITY POLYTECHNIC)</b>					
<b>1</b>	<b>Under-Graduate Degrees</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Bachelor of Science (Medical Lab Technology)	27	1	0	28
	<b>Total</b>				<b>28</b>
<b>2</b>	<b>Diploma</b>	<b>ID</b>	<b>I</b>	<b>II</b>	<b>Total</b>
	Diploma in Automobile Engineering	4	3	0	7
	Diploma in Computer Engineering	22	1	0	23
	Diploma in Electrical and Electronics Engineering	36	2	0	38
	Diploma in Electronics Engineering	1	0	0	1
	Diploma in Electronics and Communications Engineering	2	0	0	2
	Diploma in Manufacturing Engineering	0	1	0	1
	Diploma in Mechanical Engineering Production	3	0	0	3
	Diploma in Mechanical Engineering	23	17	0	40
	<b>Total</b>				<b>115</b>
	<b>Grand Total</b>				<b>143</b>

**LIST OF ELIGIBLE CANDIDATES FOR THE AWARD OF THE GOLD MEDAL**

<b>SL. NO.</b>	<b>ROLL NO.</b>	<b>NAME</b>	<b>CGPA</b>	<b>CENTER</b>
<b>Bachelor of Architecture</b>				
1	BARCH/10006/18	DEEPTAM DAS	9.00	MESRA
<b>Bachelor of Technology (Biotechnology)</b>				
2	BTECH/10273/19	ANIRUDH ARUN UPADHYAYA	8.85	MESRA
<b>Bachelor of Technology (Chemical Engineering)</b>				
3	BTECH/10481/19	JASLEEN KAUR	9.07	MESRA
<b>Bachelor of Technology (Chemical-Plastics and Polymer)</b>				
4	BTECH/10584/19	HIMANSHU KUMAR	8.46	MESRA
<b>Bachelor of Technology (Civil Engineering)</b>				
5	BTECH/10079/19	SOUMYA JHA	9.10	MESRA
<b>Bachelor of Technology (Computer Science and Engineering)</b>				
6	BTECH/15028/19	KOMAL KUMARI	9.43	PATNA



<b>Bachelor of Technology (Electrical and Electronics Engineering)</b>				
7	BTECH/25077/19	TARANJEET SINGH	9.03	JAIPUR
<b>Bachelor of Technology (Electronics and Communication Engineering)</b>				
8	BTECH/10212/19	MAHAVADI SRI SHASHANK	9.09	MESRA
<b>Bachelor of Technology (Information Technology)</b>				
9	BTECH/10702/19	KAPIL KUNGWANI	9.31	MESRA
<b>Bachelor of Technology (Mechanical Engineering)</b>				
10	BTECH/10548/19	AMAN SINGH	9.26	MESRA
<b>Bachelor of Technology (Production Engineering)</b>				
11	BTECH/10480/19	AYUSH TRIPATHI	8.66	MESRA
<b>Bachelor of Hotel Management and Catering Technology</b>				
12	BHMCT/10001/19	SHRIYA MANKOTIA	8.92	MESRA
<b>Bachelor of Pharmacy</b>				
13	BPH/10036/19	ADITI SINHA	9.38	MESRA
<b>Bachelor of Business Administration</b>				
14	BBA/25014/20	ANMOL AGARWAL	9.53	JAIPUR
<b>Bachelor of Computer Applications</b>				
15	BCA/15006/20	ISHA GUPTA	9.39	PATNA
<b>Bachelor of Science (Animation and Multimedia)</b>				
16	BAM/25027/20	SIDDHARTH SAINI	9.38	JAIPUR
<b>Bachelor of Science (Medical Lab Technology)</b>				
17	BMLT/14/20	POONAM KUMARI	9.51	UNIV. POLY.

## Faculty Strength:

The Institute has a total faculty strength of 581 including all off campuses and University Polytechnic.



# Architecture & Planning

## SECTION 1

## DEPARTMENTAL PROFILE

### 1. About the Department

#### Architecture and Planning



Department of Architecture & Planning



BIT Mesra campus

#### Overview

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

#### 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 a significant contribution to the advancement of society.
- Preparing students for leadership roles in the fields of Architecture & Planning.

#### Mission

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

#### Studying in the Department of Architecture & Planning

Department of Architecture & Planning, BIT Mesra, a leading centre for research and teaching in architecture, urban design, and sustainable design, is one of the top-ranking Architecture and Planning Departments in the country. The department is noted for its meticulous teaching, which leads to fundamental, applied research and collaboration with leading experts from practice and industry. Since its inception in 1993, the Department has substantially contributed substantially to the national and international arena by rendering academic and professional services.



<p>Outlook-ICARE Rankings 2024: Department of Architecture and Planning, BIT Mesra ranks 2nd among the top 30 Private Architecture Colleges In India.</p> <p>India Today 2024: Department of Architecture and Planning, BIT Mesra ranks 7th</p> <p>NIRF Rankings 2023: Department of Architecture and Planning, BIT Mesra has been ranked 20th position in NIRF 2023</p> <p>IIRF 2022: Department of Architecture and Planning, BIT Mesra ranks 2nd by the Indian Institutional Ranking Framework</p> <p>Education World 2022: Department of Architecture and planning, BIT Mesra ranks 6th as per Education World 2022</p>	<p>The course structure is poised between theoretical knowledge and its practical application, with ample application - based lab subjects evenly distributed throughout the syllabus. The practical orientation of working in an actual office is also taken care of in the Practical Training subject in the final year of the course.</p> <p>Students also get a scope to exercise the applicability of the entire course learning in the Final Year Thesis dissemination.</p> <p>Architecture students find rewarding employment in the planning, design and construction industries.</p> <p>Many pursue higher studies in India and abroad in City Planning, Urban Design, Landscape Architecture, Conservation, and Construction Management - to name a few.</p>
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## Programmes

1. The department offers a five-year Bachelor of Architecture course, admission to which is in conformation with the Regulations of the **Council of Architecture, India**.
2. The department also offers a Master of Urban Planning degree, approved by AICTE and the **Institute of Town Planners, India (ITPI)**.
3. The Department of Architecture invites research applications throughout the year, and fifteen scholars are currently enrolled in its **Ph.D. programme**.

The Department has the rare feat of being the first ever academic institute of Architecture to be awarded research grants under the Department Research Support (DRS) level of the Special Assistance Programme (SAP) of the University Grants Commission (UGC).

The Department Organises STTP/Workshop at regular intervals in aspects related to Architecture and Planning.

The department is also closely associated with training institutes like Sri Krishna Institute of Public Administrators (ATI), Ranchi and Government of Jharkhand. Faculty members of the department

regularly visit these institutes to deliver lectures on varied subjects related to architecture, urban planning, transportation planning, disaster management, GIS, and steel structure, and they are involved with consultancy projects.

**1.1 Established Year : 1993**

**1.2 Courses Offered and Approved Intake: B. Arch: 40, MUP: 20, PhD**

**1.3 Thrust Areas of the Department:** Sustainability and Green Architecture, Circular Economy, Urban Regeneration, Sustainable Urban Development, Waste Management, Conservation and Heritage Management

**1.4 Number of Faculties. 15**

**1.5 Brief Description High-end Lab Facilities**

The Department is a seat of learning powered by state-of-the-art laboratories. Architecture students spend time in laboratories and design studios working on various projects. The department houses within its laboratory different software, including:

- AUTOCAD
- NVMET 4.0
- ARCGIS 10.4.1





- Bentley Building Information Modelling
- IBM SPSS Statistics 24
- Rhino with grasshopper
- Sketchup

The Department also houses a Building Science Laboratory, accommodating its state-of-the-art instruments.

- Total weather station
- Surface temperature measuring gun
- Data logger
- Light meter
- Indoor Air Quality Handled meter

The Model making workshop accommodates updated instruments like Zodiac Cut Curve 442

The 3-D printing facility, a central facility of the Institute, gives students a unique opportunity to manifest their imaginations.

An A0 printing and scanning facility also facilitates the Department.

### 1.6 Brief Description of High-end Equipment

- Total weather station
- Surface temperature measuring gun
- Data logger
- Light meter
- Indoor Air Quality Handled meter

The Model making workshop accommodates updated instruments like Zodiac Cut Curve 442

### 1.7 Number of Projects in the Last Five Years: 8Nos

### 1.8 Achievement of the Department in the last three years. (In Brief)

NIRF Ranking : 20 (2023, 2024), 20 (2022)

India Today Ranking : 7<sup>th</sup> (2024, 2023, 2022)

Outlook Ranking : 2<sup>nd</sup> (2024, 2023, 2022)

### 1.9 Activities of Department (1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024) (In Brief)

1. Lokarpan'23
2. Archotsav
3. Anupam Tirkey Sports Memorial'24
4. Alumni Connect'24: Building a brand and Vastu Principles
5. Workshop on mastering communication
6. Workshop on mastering presentation skills
7. Viksit Bharat Mahotsav: Nidhi Batra hands-on workshop
8. Rhino and Grasshopper software workshop
9. Hands-on Sketchup Workshop
10. Hands-on Photoshop Workshop
11. Hand Rendering Workshop
12. Guest Lectures
13. Academic Trip
14. Site Visit
15. Farewell of the outgoing students
16. Viksit Bharat 2023

## SECTION 2

## RESEARCH PROJECTS

## 2.1 Sponsored Projects (Research and Consultancy)

## a) Ongoing Projects :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Enhanced Gram Panchayat Spatial Development Plan for Neori and Kandra	PI: Dr. Smriti Mishra	Ministry of Panchayati Raj, Gol		Rs. 10 lakhs	
2.	SAAR 2.0 Ranchi Smart City Corporation Ltd.	PI: Dr. Smriti Mishra	Smart City		Rs. 3 Lakhs	2024
3.	Interrelationship Between Socio-Economic Development, Social Innovation and Entrepreneurship Development: An Empirical Study on Small Heritage Town	Project Director - Dr. Satyaki Sarkar	Indian Council of Social Science Research	09.03.2023 (first instalment financial grant received 04.08.2023)	Rs 8-06 Lakhs	August 2023 to July 2025
4	Recycling coal mine overburden to reuse as a value-added building material to promote a circular economy.	PI: Dr. Manjari Chakraborty Co-PI: Ar. Rizwan Kazmi	Coal India Limited, Ministry of Coal, Gol.	01-09-2023	Rs. 2, 85, 92,000.00 Lakh ( Rs Two crores, eighty-five lakhs and ninety-two thousands)	2 years (Nov 2023-Oct 2025)

## b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	Upgradation of MUP Lab to 3D City Engine lab under MODROBS	Satyaki Sarkar	AICTE	13.07.2021	8.00 L	12.07.2023

## SECTION- 3

## SEMINAR/CONFERENCE

## 3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/FDP	Funding Agency	Organizers	Venue	Date
1	Smriti Mishra	Training Programme as Master Trainer for the training and Certification for Training of Master Trainers on Universal Accessibility	Council of Architecture	Council of Architecture in Collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India	Online	11 <sup>th</sup> September – 16 <sup>th</sup> September 2023



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/FDP	Funding Agency	Organizers	Venue	Date
2.	Smriti Mishra	Training Programme for Training of Master Trainers on Universal Accessibility	Partly by Council of Architecture and Partly by BIT Mesra	Council of Architecture in Collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India New Delhi	New Delhi	11 <sup>th</sup> March – 12 <sup>th</sup> March 2024
3.	Dr. Tiwari Pavan Kumar	Nature-based Solutions for Disaster and Climate Resilience	United Nations Environment Programme (UNEP) and the Partnership for Environment and Disaster Risk Reduction (PEDRR) with support from the European Union	SDG Academy and the EdX Platform	Online	01/07/2023 to 30/08/ 2023.
4	Apurv Ashish	Cooling The Urban Heat: A Review Of Uhi Mitigation N Strategies S In C40 Cities	Partly Funded by BIT Mesra	The International Institute of Knowledge Management (TIKM)	Colombo, Sri Lanka	8TH – 9TH FEBRUARY 2024
5	Apurv Ashish	Greening The Urban Heat: Exploring Landscaping Techniques For Mitigating Urban Heat Islands	Partly Funded by BIT Mesra	The International Institute of Knowledge Management (TIKM)	Colombo, Sri Lanka	8TH – 9TH FEBRUARY 2024
	Apurv Ashish	Training Programme for Training of Master Trainers on Universal Accessibility	Partly by Council of Architecture and Partly by BIT Mesra	Council of Architecture in Collaboration with Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India New Delhi	New Delhi	11 <sup>th</sup> March – 12 <sup>th</sup> March 2024
6	Rizwan Kazmi Dr. Manjari Chakraborty (Co-author)	4th International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar	BIT Mesra	Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar in collaboration with Department of Civil, Materials and Environmental Engineering, University of Illinois, Chicago, and Indian Geotechnical Society, Jalandhar Chapter	Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar	25-27 October 2023
7	Rizwan Kazmi Dr. Manjari Chakraborty (Co-author)	2 <sup>nd</sup> Annual conference on infrastructure and built environment: towards sustainable and resilient societies (IBSR) Ranbir and Chitra Gupta school of infrastructure design and management-,IIT KGP	BIT Mesra	Ranbir and chitra Gupta School of infrastructure design and management, IIT KGP	IIT Kharagpur Research Park, Kolkata	7-9 March 2024







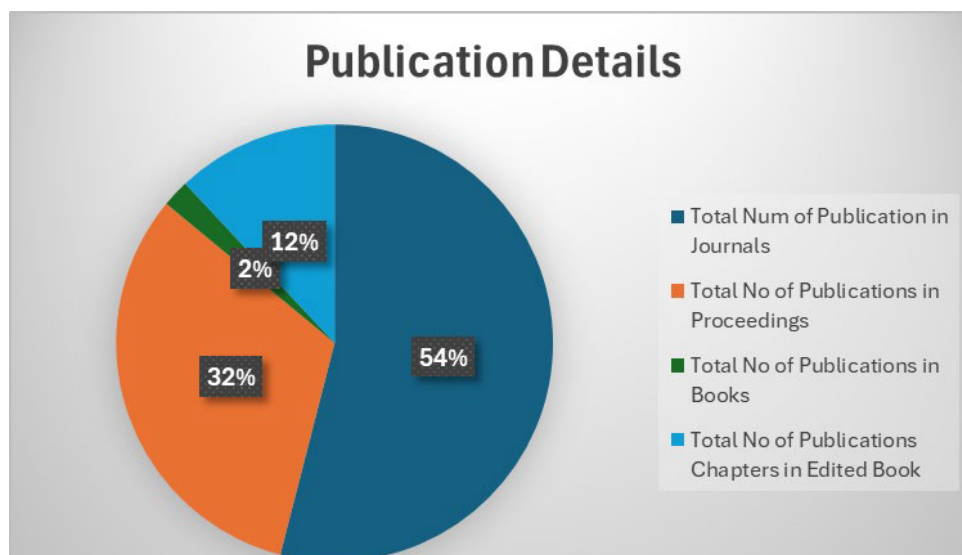
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/FDP	Funding Agency	Organizers	Venue	Date
16	Mitali Madhusmita, Bimal Chandra Roy	4th International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE-2023)	Self	Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	
17	Anjali Pathak Smriti Mishra (Co-Author)	International Conference on Future of Sustainable Urbanism in the Global South on "A Theoretical Review on Sustainable Livelihood Framework"	BIT Mesra	International Conference on Future of Sustainable Urbanism in the Global South, XIM University, Bhubaneswar	XIM University, Bhubaneswar	February 8-10, 2024
18	Anjali Pathak Smriti Mishra (Co-Author)	International Conference: Understanding Livelihood Assets: Opportunities or Constraints in Accessing Livelihood for Urban Poor	BIT Mesra (Consolidated amount funded)	Seoul Metropolitan Government Korea, Spatial Information Society, Korean Chapter FOSS4G-ASIA, Seoul, South Korea,	FOSS4G-ASIA, Seoul, South Korea,	28-11-2023 to 2-12-2023
19	Anjali Pathak Smriti Mishra (Co-Author)	International Conference: Understanding Urban Livelihood Vulnerability: What Role Livelihood Capital Plays	BIT Mesra	International Land Use Symposium 2023, CEPT University, Ahmedabad	Leibniz Institute of Ecological Urban and Regional Development, CRDF, SAC	4-10-2023 to 6-10-2-23
20	Shama Parween	FDP: Cities and Climate Change	Self	NIT Patna	Online	17-21 July 2023
21	Shama Parween	International Conference On Climate Change, Cultural Heritage&Sustainable Habitat	Self	National Institute of Technology Patna in association with The Indian Institutes of Architects, Bihar Chapter	Bapu Sabhagar, Patna	17-18 February 2024
22	Shama Parween	International Conference on Sustainable and Inclusive Urban Development in Global South, New Delhi		NITI Aayog, Department of Urban and Regional Planning, University of Florida, Institute for Human Development, Centre for the Study of Regional Development, Jawaharlal Nehru University, National Institute of Urban Affairs.	Kamaladevi Complex, India International Centre (IIC) , New Delhi	10-12 August, 2023
23	Ritu Agrawal	International Conference on Environmental Design (ICED 2023)	Self	Hellenic Open University, Athens, Greece	Athens, Greece	20-22, October 2023
24	Ritu Agrawal	6th International Conference on Mathematical Modelling, Applied Analysis and Computation (ICMMAAC-23)	Self	Department of Mathematics, JECRC University, Jaipur	Jaipur	03-05 August 2023



## SECTION- 4

## RESEARCH PUBLICATIONS

S. No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	27	16	1	0	6



## SECTION 5

## AWARD/PATENT/COLLABORATIONS

### 1.1 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Ethos Foundation, Woodland Syndicate, 8/7 Alipore Road Kolkata 700027, India	The objective of this MOU is to connect students and faculty members with professionals to gain upgraded knowledge and learning to provide practical solutions to problems in the professional field.	Nov. 2023
2	Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC)	Collaborative Research Project (CIL funded)	November 2023- October 2025 (02 years)
3	Visvesvaraya National Institute of Technology (VNIT), Nagpur	Collaborative Research Project (CIL funded)	November 2023- October 2025 (02 years)
4	Central Mine Planning & Design Institute Limited (CMPDIL), Ranchi	Collaborative Research Project (CIL funded)	November 2023- October 2025 (02 years))



**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1 Departmental Students' Activities**

Sr. No.	Name of the Activity	Students' Co-ordinator	Faculty Coordinator	Date / Duration
1	Workshop on Mastering Communication	NA	Ar. Sandeep Jha	1st April 2024
2	Workshop on Mastering Presentation Skills	NA	Architect Sourav Toppo	1st April 2024
3	Viksit Bharat Mahotsav 2024-Nidhi Batra Hands on Worshop	NA	Ar. Nidhi Batra	3rd & 4th April, 2024
4	Rhino and Grasshopper Software Workshops	NA	AR. RAHUL SURIN	6th & 7th May, 2024h & 7th May, 2024
5	Hands-on SketchUp Software Workshop	Students of Third year	Students of Third year	12th September 2023
6	Hands-on Workshop on Photoshop	Students Society of Architecture	Students Society of Architecture	1st April 2024
7	Hand Rendering Workshop	Students of Second-year	Students of Second-year	26th April 2024
8	Hands-on workshop on Computational Design	NA	Ar. Vishal Singh	4th November, 2024
9	Hands-on Brick-making workshop	NA	Ar. Aditya Singh	4th November, 2023
10	Guest Lecture	NA	Ar. Gita Balakrishnan	3 <sup>rd</sup> November, 2023
11	Guest Lecture	NA	Ar. Abin Chaudhuri	3 <sup>rd</sup> November, 2023
12	Guest Lecture	NA	Ar. Anusha Pulapaka	3 <sup>rd</sup> November, 2023
13	Hands-on Brick Workshop	NA	Ar. Sandeep Jha & team	14th & 15th October 2023

**6.2. List of Faculties as on 30.6.2024**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
1	Dr. Smriti Mishra	GEN	Associate Prof. & Head	<ul style="list-style-type: none"> <li>Urban and Regional Planning</li> <li>Riverfront Planning</li> <li>Vernacular Architecture</li> <li>Perception studies</li> <li>Planning and development of Peri Urban Areas</li> <li>Development Management</li> <li>UHI Mitigation Strategies,</li> <li>Urban Environmental Management,</li> <li>Abandoned Mines and Landscaping Strategies.</li> </ul>	PhD	20.10.2005



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
2	Dr. Manjari Chakraborty	GEN	Professor	<ul style="list-style-type: none"> <li>Architectural Education</li> <li>Building Science and Technology</li> <li>Sustainability and Green Architecture</li> </ul>	PhD	12.02.1990
3	Dr. Satyaki Sarkar	GEN	Professor	<ul style="list-style-type: none"> <li>Urban and regional planning</li> <li>Conservation and heritage management</li> <li>Disaster mitigation</li> <li>Rural facility planning</li> </ul>	PhD	12.07.2004
4	Dr. Bimal Chandra Roy	GEN	Associate Prof.	<ul style="list-style-type: none"> <li>Urban and Regional Planning</li> <li>Spatial Planning for Industrial Development</li> <li>Urban Infrastructure Planning</li> <li>Planning for Conservation and Heritage Management</li> <li>Planning for carbon footprint reduction</li> <li>Planning for Socio-Economic Development Sustainable Architecture and Planning</li> </ul>	PhD	12.08.2008
5	Dr. Rajan Chandra Sinha	GEN	Associate Prof.	<ul style="list-style-type: none"> <li>Housing and Community Planning Culturally Responsive Built Environment Urban Governance and Development Planning Urban and regional Planning</li> <li>Urban Infrastructure Planning Systems Construction Management Disaster Management Planning</li> </ul>	PhD	21.01.2009





Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
6	Mrs. Ritu Agrawal	GEN	Assist. Prof.	<ul style="list-style-type: none"> <li>History of Indian Architecture</li> <li>Vernacular Architecture</li> <li>Urban Development Planning</li> <li>Rural Development</li> </ul>	M.Arch (PhD ongoing)	09.03.2000
7	Mr. Anuj Kumar Toppo	ST	Assist. Prof.	<ul style="list-style-type: none"> <li>Urban Planning</li> <li>Environmental Science</li> <li>Plumbing</li> </ul>	MUP (PhD ongoing)	01.11.2006
8	Mr. Apurv Ashish	OBC	Assist. Prof.	<ul style="list-style-type: none"> <li>Sustainability and Green Building.</li> <li>Existing Building Retrofit.</li> <li>History of Indian and Western Architecture.</li> <li>Acoustics of Enclosed Spaces.</li> <li>Contemporary Architecture.</li> <li>Landscape Architecture.</li> <li>Building Information Modelling.</li> </ul>	M.Arch (PhD ongoing)	01.07.2016 -
9	Ms. Anila S. Surin	ST	Assist. Prof.	<ul style="list-style-type: none"> <li>Urban planning</li> <li>Architecture and tenure ship in urban area</li> <li>Orientation of Ethnic villages within the urban area</li> <li>Tenancy Laws and Urban Development Strategies.</li> </ul>	MUP (PhD ongoing)	08.08.2016
10	Dr. Tiwari Pavan Kumar	GEN	Assist. Prof.	<ul style="list-style-type: none"> <li>Urban Environment</li> <li>Urban Water and Sanitation</li> <li>Historiography in Architecture and Planning</li> <li>Sustainable Architecture.</li> </ul>	PhD	17.06.2019
11	Ms. Anjali Pathak	GEN	Assist. Prof.	<ul style="list-style-type: none"> <li>Urban planning</li> <li>Affordable Housing</li> <li>Urban Poverty</li> <li>Housing Finance</li> <li>Built Environment</li> </ul>	MURP (PhD ongoing)	19.06.2019





### 1.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1.	Dr. Smriti Mishra	Associate Prof. and Head, (Ex-Officio)	Chairman
2.	Prof. Manjari Chakraborty, and	Professor	Internal Member
3.	Dr. Satyaki Sarkar	Professor	Internal Member
4.	Dr. Rajan Chandra Sinha,	Associate Professor	Internal Member
5.	Dr. Shama Parween	Assist. Professor	Internal Member
6.	Dr. V. S. Rathore,	Associate Prof. & Head, Dept. of Remote Sensing	Internal Member
7.	Dr. Bindhu Lal,	Prof. & Head, Dept. of Civil & Environment Engg.	Internal Member
8.	Final Yr. MUP (PG) Student Member	Student	Internal Member
9.	Final Yr. B. Arch (UG) Student Member	Student	Internal Member
10.	Ar. Sandeep Kumar Jha,	Principle Architect & Planner AXIS, External	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

### OTHER INFORMATION

#### 7.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc.	Organised by	Date and Venue
1	Tanvi Ritika Tigga and Rupam Sharma	First Prize in Academic Tower Design	BIT Mesra	19-08-2023
2	Riddhi Sharma and Nayanthara R.	Second Prize in Academic Tower Design	BIT Mesra	19-08-2023
3	Ananya Chaudhary and Ritika Chandra	Third Prize in Academic Tower Design	BIT Mesra	19-08-2023
4	Uddipan Mondal	Best Studio Project	Eastern Interface Of Saint-Gobain Transparence 18.0 Best Studio Project	2024
5	Rohan Premkumar, BARCH/10031/20 Utkarsh Anand, BARCH/10014/20 Swarnav Nayan, BARCH/10027/20	1st	Archmello The Urban Insert First Prize Winners	2024



## 7.2 Students Placed for the Academic Years 2023-24

Bachelors		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization
SAKSHI PRIYA B.Arch/10021/2019	ADROSONIC	MITALI MADHUSMITA PHD/AR/10002/20	SPA, DELHI
RIDDHI SHARMA B.Arch/10008/2019	ADROSONIC		
ANANYA CHAUDHARY B.Arch/10010/2019	TATA CONSULTING ENGINEERS LIMITED		
RITIKA CHANDRA B.Arch/10020/2019	TATA CONSULTING ENGINEERS LIMITED		
NAYANTHARA R.B.Arch/10009/2019	SIEMENS HEALTHINEERS		
KRITI VANSHIKA B.Arch/10002/2019	GENSLER		

## 7.3 Bachelors Higher Studies for the last five years

Sr. No.	Registration/ Enrollment No. of the student in your Institution	Student Name	Name of the University/Institutions where selected for higher studies	Year of admission in higher studies program
1	B.ARC/10019/14	Shreyansh Barua	University of Manchester	2019 - 20
2	B.ARC/10024/14	Yashovardhan Sharma	University of Manchester	2019 - 20
3	B.ARC/10016/14	Prabhangshu Sharma	School of Planning and Architecture, Vijaywada	2019 - 20
4	B.ARC/10009/12	Nishtha	University of Melbourne	2019 - 20
5	B.ARC/10003/13	Tanmay Sinha	Indian Institute of Technology, Kanpur	2019 - 20
6	B.ARC/1024/08	Arnab Kumar Gogoi	Indian Institute of Technology, Kharagpur	2019-20
7	B.ARC/10020/14	Aditi	Birla Institute of Technology, Mesra	2019-20
8	B.ARC/10010/14	Poras Parashar	Indian Institute of Science Bengaluru	2019-20
9	B.ARC/1006/11	Nishchay Pidiha	Michigan State University	2019-20
10	B.ARC/1029/11	Vyas Srinivas	Symbiosis Institute of International Buisness	2019-20
11	B.ARC/10032/12	Shubhangi Malvika	University College of Dublin, Ireland	2019-20
12	B.ARC/10004/12	Nandini Ray	Indian Institute of Technology, Kharagpur	2019-20
13	B.ARC/10024/13	Oyndrila Sen	School of Planning and Architecture, Bhopal	2019-20
14	B.ARC/10031/12	Pius Saurabh	School of Planning and Architecture, Bhopal	2019-20
15	BARC/10016/12	Atia Rahman	Kansas State University	2019-20
<b>UG 5 years Students selected for Higher Studies in Year 2018-19</b>				
1	BARC/10027/2013	Vallary Gupta	School of Planning & Architecture, Bhopal	2018-19
2	BARC/10013/2013	Akanksha Ruchi Horo	School of Planning & Architecture, Bhopal	2018-19
3	BARC/10002/2012	Somnath Mukherjee	Kansas State University	2018-19





Sr. No.	Registration/ Enrollment No.of the student in your Institution	Student Name	Name of the University/Institutions where selected for higher studies	Year of admission in higher studies program
4	BARCH/10009/2012	Nishtha	School of Planning & Architecture, Delhi	2018-19
5	BARCH/10021/2012	Tanya Shridhar	MBA, MICA, Ahmedabad	2018-19
6	BARCH/10040/2012	Om Diwakar	School of Planning & Architecture, Delhi	2018-19
7	BARCH/10036/2012	Sneha Bhattacharyya	CEPT Ahmedabad	2018-19
8	BARCH/10037/2012	C h a n d r a s h e k h a r Mahato	Universidade do Minho	2018-19
9	BARCH/10005/2012	Manjaree Dutta	CEPT Ahmedabad	2018-19
10	BARCH/10035/2012	Anik Ghosh	School of Planning & Architecture, Bhopal	2018-19
11	BARCH/1016/2011	Amit Kumar	Indian Institute of Technology, Roorkee	2018-19
12	BARCH/1026/2007	Maharshi Bhattacharya	Harvard Graduate School of Design	2018-19
13	B.ARC/1026/11	Saroj Boipai	Indian Institute of Technology, Hyderabad	2018-19
14	B.ARC/10034/12	Sachin Toppo	Indian Institute of Technology, Madras	2018-19
<b>UG 5 years Students selected for Higher Studies in Year 2017-18</b>				
1	BARCH/10006/2012	Sreedevi Menon	Indian Institute of Management Indore	2017-18
2	BARCH/10011/2012	Dhriti Nadir	Young India Fellowship, Ashoka University	2017-18
3	BARCH/10029/2012	Shruti Mazumdar	School of Planning & Architecture, Vijaywada	2017-18
4	BARCH/10008/2012	Neha Kumari	School of Planning & Architecture, Delhi	2017-18
5	BARCH/10038/2012	Meenaal Fatma	AA Graduate School London	2017-18
6	BARCH/1035/2011	Venkata Nandan Reddy Yeruva	University of Adelaide, Australia	2017-18
7	BARCH/1007/2011	Vamsi Korrapati	Australian National University	2017-18
8	BARCH/1031/2010	Kritika Prakash	National Univerity of Singapore	2017-18
9	BARCH/1025/2010	Suvro Ghosh	Philadelphia University	2017-18
10	BARCH/1021/2010	Harsh Wardhan	Illinois Institute of Technology Institute of Design	2017-18
11	BARCH/1023/2010	Ankur Podder	MIT, USA	2017-18
12	BARCH/1008/2010	Prapti Jha	Illinois Institute of Technology Institute of Design	2017-18
13	BARCH/1038/2010	Ravi Shankar Banra	Indian Institute of Technology, Kharagpur	2017-18
14	BARCH/1001/2010	Aseem Kashyap	Jefferson University, Philadelphia	2017-18







Sr. No.	Registration/ Enrollment No.of the student in your Institution	Student Name	Name of the University/Institutions where selected for higher studies	Year of admission in higher studies program
15	BARCH/1020/2011	Saurabh Singh Kuntia	Indian Institute of Technology, Kharagpur	2017-18
16	BARCH/1022/2007	Anupam Sarkar	Indian Institute of Technology, Hyderabad	2017-18
17	BARCH/1027/2008	Abhimanyu Setia	CEPT UNIVERSITY	2017-18
<b>UG 5 years Students selected for Higher Studies in Year 2016-17</b>				
1	BARCH/1030/2010	Saurabh Priyadarshi	Thomas Jefferson University	2016-17
2	BARCH/1026/2011	Saroj Boipai	Indian Institute of Technology, Hyderabad	2016-17
3	BARCH/1001/2011	Kanushree Maheshwari	Arizona State University, Arizona, US	2016-17
4	BARCH/1032/2011	Kirti Panwar	University of Illinois at Urbana Champaign	2016-17
5	BARCH/1009/2011	Arnab Paul	Vanderbilt University, Nashville, TN, USA	2016-17((
<b>Masters Higher Studies</b>				
1	MUP/10024/21	Tanima Ray	Pursuing Doctoral Research, BIT-Mesra	2024
1	MUP/10003/21	Jinal Boricha	Pursuing Doctoral Research, BIT-Mesra	2023
2	MUP/10020/21	Kajal Sarkar	PhD,NIT Raipur	<b>2023.</b> Institute Assistantship (5 Lacs per annum)
<b>PG 2 years Students selected for Higher Studies in Year 2021-22</b>				
1	MUP/10006/20	Varsha Vinod	Pursuing Doctoral Research, BIT-Mesra	2022
<b>PG 2 years Students selected for Higher Studies in Year 2020-21</b>				
1	MUP/10004/19	Aditi	BIT Mesra	2021
2	MUP/10008/19	Nishat Afsan	BIT Mesra	2021
<b>Masters Higher Studies</b>				
1	MUP/10024/21	Tanima Ray	Pursuing Doctoral Research, BIT-Mesra	2024
1	MUP/10003/21	Jinal Boricha	Pursuing Doctoral Research, BIT-Mesra	2023
2	MUP/10020/21	KAJAL SARKAR	PhD,NIT Raipur	<b>2023.</b> Institute Assistantship (5 Lacs per annum)
<b>PG 2 years Students selected for Higher Studies in Year 2021-22</b>				
1	MUP/10006/20	Varsha Vinod	Pursuing Doctoral Research, BIT-Mesra	2022



Sr. No.	Registration/ Enrollment No.of the student in your Institution	Student Name	Name of the University/Institutions where selected for higher studies	Year of admission in higher studies program
<b>PG 2 years Students selected for Higher Studies in Year 2020-21</b>				
1	MUP/10004/19	Aditi	BIT Mesra	2021
2	MUP/10008/19	Nishat Afsan	BIT Mesra	2021

**7.4 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt.organisations**

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Ar. Sharad Kabra	11 August, 2023	
2.	Ar.KunalBhattacharya principal architect at RJB Architects.,	5 September 2023	
3	Ar. Adarsha Kapoor Creative Footprints	28 September 2023	
4	Dr. Andre Nogueira	13 February 2024	
5	ASSOCHAM	22 March 2024	

## 7.5 List of Distinguished Alumni

Sr. No.	Name, Batch and Affiliation	Short Description
1	Shipra Dutta,	<p>Shipra Dutta is a dynamic, creative, and passionate business leader with 22 years of experience in public sector advisory, infrastructure consulting, management, operations, and business development. She has been instrumental in her company's growth strategies and geographic and sectoral expansions. Shipra takes pride in working on many of India's signature projects and is dedicated to nation-building, undeterred by challenges due to her positive outlook on life. Her expertise includes developing business models and plans, financial management, process improvement, analytics, R&amp;D, resource management, strategic partnerships, and establishing new business sectors. Recognized as a panelist and speaker at various forums and institutions, Shipra is a mentor to many and enjoys connecting people and ideas. She aims to impact more lives positively and strives to improve herself daily.</p> <p>She delivered an enriching session on "Building a Brand" to the students, which proved to be highly beneficial.</p>
2	AR. RICHA SINGH The Ishaan Kone (Architects and Interior Designers)	<p>Richa Singh, Co-Founder and Principal Architect, has a 20-year career in architecture, project management, vendor management, and people management. She previously led the Design Management team in New Jersey, excelling as an Architectural Production Manager. Her skills include construction, AutoCAD, Bluebeam, Photoshop, Adobe Software, SketchUp, Microsoft Excel, and Microsoft Word. She holds a Bachelor of Architecture (BArch) degree from Birla Institute of Technology. Known for her strong project management abilities, she effectively coordinates with vendors, manages teams, and oversees complex projects, earning a reputation for reliability and excellence in the real estate industry.</p> <p>She presented an insightful session on "Vastu Principle- where to draw the line" to the students, which was extremely valuable</p>
3	AR. ADITYA SINGH Hunnarshala	Ar. Aditya Singh, Managing Director of Aabhat Cum and Project Director at Hunnarshala
4	AR. SANDEEP JHA. AXIS, Ranchi	<p>He 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</p> <p>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.</p>





5	AR. SOURAV TOPPO. Ranchi	Principal Architect of Inked Wall Studio in Ranchi With a rich professional background, he has garnered diverse exposure through his tenure with esteemed firms such as Studio Chintala and WARD FOUR in Bangalore, as well as Apurb and Associates Architects in Ranchi. This extensive experience has honed his skills to meet the varied demands of the industry.
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### 7.6 Best Thesis Project (UG/PG)

UG : Nayanthara R., BARCH/10009/19

Title : Telangana State Urban Center of Excellence (TSUCE)

PG : Kartik Singh, MUP/10008/22

Title : Aquifer-Based Adaptation for Sustainable Urban Flood Management of Chandigarh City

8. **Infrastructure Development:** The Building Materials and Technology Lab (under the CIL Project) is in process (Civil work is done, and Equipment is coming soon).





SECTION 2

RESEARCH PROJECTS

2.1 Sponsored Projects (Research and Consultancy)

a) Ongoing Projects :

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.	Self-fitting 4D-Printed Smart Scaffolds with Efficient Bone Regenerative Potential (FILE NO. CRG/2021/002179)	PI	SERB-CRG	24/12/2021	70,56,808/- (BIT Share: Rs 40,26,264/-)	28/12/2021 to 28/12/2024
2.	Nanorobotic drug delivery system & Lab-On-Chip platform development.	PI	IHFC-IIT Delhi	1.4.23	46 Lakh	2023-2026
3	Development of a rational technology for production of ceramic materials from coal mining, waheries and processing wastes	Co-PI	CIL/CMPDI, GOI	11-07-2022	Rs. 136.36 Lakh	11-07-2022 to 29-Sep-2023 (Project Closed on September 29, 2023)
4	Brain Signal Controlled Wheelchair	Co-PI	ICMR	13/03/2023	31.01	13/03/2023 to 12/03/2026
5	Cow urine and PGPR mediated biopriming of Finger Millet (Eleusine coracana) seeds for nutritional bioavailability and biocontrol studies	PI	SERB POWER GRANT	Accepted	2900000/-	2024-2027

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction (dd.mm.yyyy)	Sanctioned Amount in INR	Date of completion of the Project (dd.mm.yyyy to dd.mm.yyyy)
1.	Development of multi-functional nano-HAP bone substitute for effective bone regeneration in critical defects (DST/NM/NT/2018/48- BIT Mesra)	PI	DST	10/07/2019	1,13,25,480/- (BIT Share: Rs. 51,15,240/-)	15/07/2019 to 15/07/2022 (extended till 2023)



## SECTION-3

## SEMINAR/CONFERENCE

### 3.1 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1	Dev Mani Pandey	Invited Talk on Polymerase Chain Reaction (PCR) – Basics and Applications. <b>In:</b> Five-day Hands-on Training in Molecular Biology Techniques	Central Tasar Research and Training Institute, Ranchi, India	Central Tasar Research and Training Institute, Ranchi, India	Central Tasar Research and Training Institute, Ranchi, India	December 06, 2023
2	Sharmili Roy, Sheela Chandra	Morphological & Biochemical Studies on Nano- PGPR Bioformulations Applied Rice Crop ( <i>Oryza sativa</i> L.), International Conference on Biotechnological and Biochemical Approaches for Crop Improvement (IBBACI-2023)	ICAR	ICAR- Indian Agricultural Research Institute, New Delhi,	New Delhi	30.10.23-01.11.23
3	Singdha Gautum, Sheela Chandra	Antimicrobial studies of Pomegranate ( <i>Punica granatum</i> L.) peel powder: Waste to Best on International Conference on fungal biology and plant microbe interaction 2024 (ICFBPMI), Banaras Hindu University, Varanasi, 16-18 February, 2024.	BHU	(ICFBPMI), 16-18 February, 2024.	Banaras Hindu University, Varanasi	16-18 February, 2024.
4	Singdha Gautum, Sheela Chandra	Antioxidant and Antimicrobial Assay of Aqueous Extract of Diverse Plant Species on Vistas in Life Sciences 2024-". An International Conference on Life Sciences: From Molecules, Organisms and Diseases", New Delhi, 21-24 January, 2024.	JNU	JNU, New Delhi	Jawaharlal Nehru University,	New Delhi, 21-24 January, 2024.
5	Shashwati Ghosh Sachan	FDP on Digital Transformation		Department of Management, BIT Mersa	Online	4 <sup>th</sup> -8 <sup>th</sup> Dec, 2023



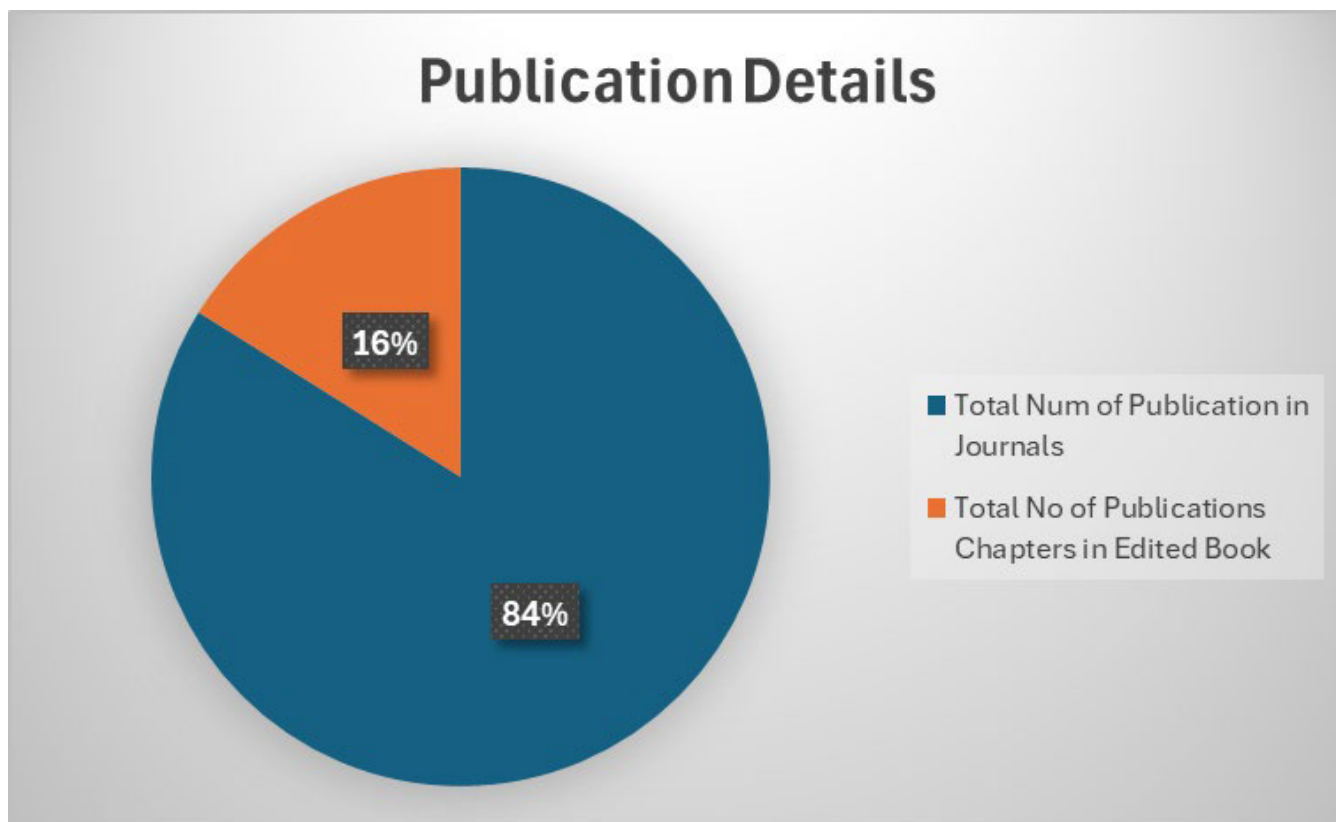


SECTION- 4

RESEARCH PUBLICATIONS

Pie Chart of the Publication Details

S. No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	47	0	0	0	9







Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
6	Singh, S., Kumar, A., & Gupta, A.	Nano-scaffold Loaded with <i>trans</i> -Resveratrol Stabilized Gold Nanoparticles for Enhanced Bone Regeneration and Applications Thereof	Application Number 202331031960	Published (Dec' 2023)	A phytobioactives loaded nanoparticle conjugate for sustained delivery and enhancement of bone regeneration.
7	Shatabdi Basu and Dr. Koel Mukherjee.	Phytochemical-based nanofiber formulation and method of fabrication thereof.	Indian Patent (Filed, 26.4.24). Application No. 202431031247	2024	
	Dev Mani Pandey Vinod Kumar Nigam, Garima Kumari	Method for enrichment of phytoconstituents in plants	Application Number: 202331044085 Date of filing : June 30, 2023	Published 08/09/2023	Proposed study provides detailed information about a method for enriching phytoconstituents (substrate) in plants. Here phytoconstituent is preferably kaempferol that has been reported in <i>Millettia pinnata</i> plant.
	Dr Shashwati Ghosh Sachan, Mr Ahmed Hussain	A method for preparing <i>Clarias mucus</i> -based antimicrobial composition	202431045706 (Application Filed)	June 2024	A method for preparing antimicrobial peptide-rich compositions from <i>Clarias batrachus</i> mucus involves sterilizing and scraping the fish's skin, centrifuging to obtain crude extracts, treating with acetic acid, and filtering to isolate acidic extracts rich in antimicrobial peptides. The composition contains peptides from haemoglobin subunits identified through SDS-PAGE, LC-MS and characterized using bioinformatic tools

### 1.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Department of Biochemistry, School of Life Sciences, Central University of Rajasthan, Bandarsindri, Ajmer, Rajasthan 305817, India	Research	2023-2024

## 6.1. List of Faculties

Sr. No.	Name	Category (GEN/SC/ST/OBC/ PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
1	Dr. Kunal Mukhopadhyay		Professor & Head			
2	Dr. Rakesh Kumar Sinha		Professor			
3	Dr. Ramesh Chandra	OBC	Professor	Enzyme, Bioprocess Engg., Secondary Metabolites, Mushrooms	M.Sc., M.Tech. Ph.D	01.07.1996
4	Vinod Kumar Nigam	General	Professor	Bioprocess Engineering, Process Development & Microbial Technology	PhD	01/08/2009
5	Dr. Padmini Padmanabhan		Professor			
6	Dr. Manish Kumar		Associate Professor			
7	Dr. Dev Mani Pandey	GEN	Associate Professor	Molecular Plant Physiology, Plant Biotechnology	M. Sc., Ph.D., Post Doc	January 08, 2007
8	Dr. Raju Poddar		Associate Professor			
9	Dr. Shashwati Ghosh Sachan		Associate Professor			
10	Dr. Yogender Aggarwal		Assistant Professor			
11	Dr. Sheela Chandra	Gen	Asstt Prof.	Plant Biotechnology, Plant Microbe interaction	PhD	01.07.2008
12	Dr. Sheela Chandra		Assistant Professor			
13	Dr. Anjana Dwivedi		Assistant Professor			



Sr. No.	Name	Category (GEN/SC/ST/OBC/ PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
14	Dr. Alok Jain		Assistant Professor			
15	Dr. S. Muthu Kumar		Assistant Professor			
16	Dr. Koel Mukherjee		Assistant Professor			
17	Dr. Dinesh Prasad		Assistant Professor			
18	Dr. Shubha Rani Sharma		Assistant Professor			
19	Dr. Hare Ram Singh		Assistant Professor			
20	Dr. Sneha Singh	GEN	Assistant Professor	Nanomaterials, Drug delivery, Phytobioactives, Antimicrobials, Functional Biomaterials, Bone Tissue engineering	PhD	21/07/2009

## 1.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Padmini Padmanabhan	Member, Dept of Bioengg & Biotech	
2.	Dr. Padmini Padmanabhan	Member, Dept of Chemical Engg	





# Department of Chemical Engineering and Centre for Food Engineering and Technology

## SECTION 1

## DEPARTMENTAL PROFILE



### 1. About the Department

The Department was established in 1994 as Polymer Engineering and is renamed as 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 provides 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-dated to CBCS in line with the recent scenario in the field while retaining the core concepts from 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 the high-end equipment's, processing line and cutting-edge computational facility with modern simulations software to cater the modern industrial requirements. The Department has 7 undergraduate laboratories covering the length and breadth of the core concepts of the disciplines that includes Heat and Mass transfer lab, Fluid and Mechanical operations, Reaction Engineering, Process Control, Chemical synthesis, material processing and computational lab with

new edge software like COMSOL, ASPEN, ANSYS, MAT LAB and others. In addition, the Department has 4 advanced research labs covering the area of recent advancement of energy, material, process engineering, and computational fluid dynamics.

The Department received national recognition by winning the Gold Trophy for Plastics 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, 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 our students to take part in the industrial projects, and to accept pre-placement offers as final year project in the industry. Students are placed in esteemed core and software companies across the world. To name some of our recruiters ADITY BIRLA, TATA STEEL, ZINDAL, RELIANCE, PWC, STARLITE, GOOGLE, WIPRO, AMAZON, ACCENTURE and many more. Students are also pursuing their higher studies in the institute of national and international reputation including different IITs, NITs and foreign Universities. Some of our Alumni cracked Civil Service examinations also.



S. No.	Equipment/Instrument	S. No.	Equipment/Instrument
11	Ultraviolet Spectrometry	29	COD & BOD apparatus
12	Incubator Shaker	30	Viscometer
13	Ultrasonic Welding	31	Microwave assisted drying setup
14	Dart Impact tester	32	Automated Karl Fischer titrator
15	Oxygen Index Tester	33	Microwave synthesis
16	Film & Pipe Testing Machines	34	Proximate composition Analyzer
17	Biosafety Cabinet	35	Freeze Dryer
18	Flow Photoreactor	36	Fixed bed catalytic reactor

## 1.7 Number of Projects in the Last Five Years: 17

## 1.8 Achievement of the Department in the last three years:

BTECH (Food Engineering and Technology) program started with 30 seat capacity from MO2023 session.

In the last three years Rs4.7 crores sponsored project received by the department faculty members from different funding agencies (DST-SERB, ICMR, DRDO, DBT, BRNS, IIL).

## 1.9 Activities of Department



A two days workshop on Multiscale Simulation Techniques in Chemical Engineering Applications was organised by Chemical Engineering department on 10<sup>th</sup> – 11<sup>th</sup> February 2024.



A two days workshop on Design and Development of Energy Efficient Modified Refrigeration was organized from DST SERB sponsored project



SECTION 2

RESEARCH PROJECTS

1.1 Sponsored Projects (Research and Consultancy)

(a) Ongoing Projects:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Design and Development of Energy Efficient Modified Refrigeration System Using Phase Change Material and its CFD Analysis.	Dr. Debasree Ghosh (PI)	DST SERB	14-06-2022	Rs. 29.81 Lakhs	14-06-2022 to 13-06-2025
2.	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 (PI) Dr. B. C. Ruidas (Co-PI)	DBT	31-07-2024	Rs. 30Lakhs	2024 - 2026
3	Degradation of polystyrene microplastics (PMPs) from wastewater using Novel Continuous Rotating Electro-Chemical Reactor (CRECR)	Dr. Abhijit Mondal (PI) Dr. Anand Bharti (Co-PI)	ICMR_ DHR	20-02-2023	Rs. 44.17 Lakhs	20-02-2023 to 19-03-2026
4	Waste Nutshell-derived Porous Carbon Nanofibers and Their Hybrid Mats as Supercapacitor Electrode	Dr. Arup Choudhury (PI)	BRNS	04-07-2024	Rs. 31.69 Lakhs	04-07-2024 to 03-07-2027
5	Development of Radiation, Chemical and Flame-Resistant High-Performance Polymer Composite for Defence Application	Dr. Pulak Datta (PI) Dr. Arup Choudhury (Co-PI)	ER & IPR- DRDO	28-12-2022	Rs. 36.722 Lakhs	28-12-2022 to 27-12-2025
6	Study the Effect of Stretching on the Physico-Mechanical Properties of Acrylates	Dr. Gautam Sarkhel (PI) Dr. Arup Choudhury (Co-PI)	DMSRDE- DRDO	02.08.2022	Rs.81.368 Lakhs	02.08.2022 to 01.08.2025
7	Role of hybrid nanofillers on the physio-mechanical and tribological behaviour of polymer nanocomposite for load bearing advanced mechanical component applications	Dr. J Sudeepan (CO-PI)	DST-SERB	03.03.2022	Rs.45.84 Lakhs	03.03.2022 to 02.03.2025





Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
8	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 (PI)	ICMR	23.05.2022	Rs. 15.47 Lakhs	23.05.2022 to 22.05.2025
9	Fibre Reinforced Silica Aerogel Blankets Preparation	Dr G T Mohanraj (PI) Dr Bidhan Chandra Ruidas (Co-PI) Dr. Aniruddha Deb (Co-PI)	Indobell Insulations Ltd, Kolkata	25.06.2024	Rs 1.9Lakh	25.06.2024 to 25.12.2024

## (b) Projects Completed :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1	Design and development of low-cost technology for micronutrient protein-fortified whole grain puffed rice	Dr. Anupam Roy (PI) Dr. Gautam Sarkhel (Co-PI)	ICMR	09.05.2022	Rs. 51.02 Lakhs	09.05.2022 to 08.05.2024
2	Development of non-destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid	Dr. Anupam Roy (PI)	DBT	04.02.2021	Rs. 57.9 Lakhs	04.02.2021 to 03.02.2024
3	Development of a rational technology for production of ceramic materials from coal mining, washeries & processing wastes.	Dr. Amar Nath Mishra (PI)	CMPDI	21.06.2022	Rs. 136.36 Lakhs	11.06.2022 to 24.01.2024

## (c) Consultancy Projects carried out/ongoing:

Sr. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator)	Ongoing/ Completed*
			from	to			
1	Technical Feasibility Assessment of Polymer Recycling to Enable Sustainability	John Deere India Private Limited, Pune	January 2024	to December 2024	Rs. 5,90,000/-	Dr J Sudeepan	Ongoing





**SECTION 3**

**SEMINAR/CONFERENCE**

**2.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding/ Sponsoring Agency	Date of Event
1	Workshop on Multiscale Simulation Techniques in Chemical Engineering Applications	Dr. Debasree Ghosh (Convenor) Dr. Saikat Bhattacharjee (Co-convenor) Dr. Sangram Roy (Co-convenor)	Department of Chemical Engineering, BIT Mesra Ranchi	10 <sup>th</sup> -11 <sup>th</sup> February 2024
2	Design and Development of Energy Efficient Modified Refrigeration System Using Phase Change Material and its CFD Analysis	Dr. Debasree Ghosh (Convenor)	SERB-DST	24 <sup>th</sup> -25 <sup>th</sup> February 2024.

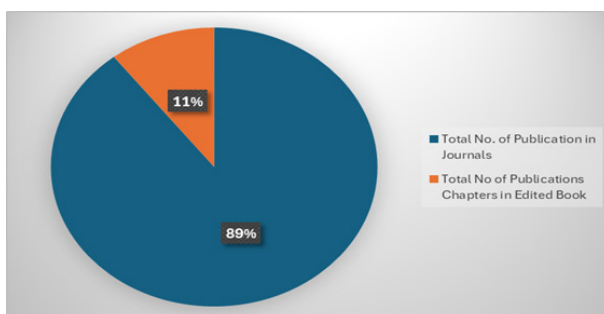
**3.1 Conferences / Seminars/ Workshops/ Staff Development Programmes/ FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd-mm-year)
1	Dr. B.C. Ruidas	AICTE certificate course of National Initiative for Technical Teachers Training	NA	AICTE	Online	September 2023
2	Dr. Anand Bharti	Quantum Chemical Calculations and Molecular Dynamics Simulations	SERB, DST	IIT Guwahati	IIT Guwahati	04-01-2024 to 10-01-2024
3	Dr. Aniruddha Deb	5-day Online UHV FDP	NA	AICTE	Online	17-06-2024 to 21-06-2024
4	Dr. Aniruddha Deb	Rapid and Sensitive detection of <i>Klebsiella pneumoniae</i> for UTI Diagnosis with a Plasmonic gold nanoparticle conjugated aptasensor.	Institute	Mahatma Gandhi University, Kottayam, Kerala, India	Mahatma Gandhi University Kottayam, Kerala, India	10-05-2024 to 12-05-2024

**SECTION 4**

**RESEARCH PUBLICATIONS**

S. No.	Total No. of Publication in Journals	Total No of Publications Chapters in Edited Book
1	34	04



## SECTION-

## 5AWARD/PATENT/COLLABORATIONS

## 1.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent(Max 50 words)
1	Anupam Roy, Vijendra Sahoo, Ankanksha Kumari and Shubhajit Sarkhel	An integrated apparatus for blanching, sterilization, drying, and recovery of volatile components	Patent Application number: 202331085872 (Published)	2023	The proposed apparatus is a multifunctional drying system designed for blanching, sterilizing, and drying agricultural and food materials along with retention and recovery of the volatile component.
2	Anupam Roy, Bijendra Sahoo, and Shubhajit Sarkhel	A multipurpose integrated apparatus for treatment of powder, flaked and granular material	Application No.: 202331085872 (Published)	2023	The invention discloses to modification in fluidized bed chamber to achieve functional changes in material matrix especially, biopolymer containing matrix such as starch rich food or pharmaceutical ingredients with or without incorporating the additives.
3	Shubhajit Sarkhel and Anupam Roy	A multipurpose integrated apparatus for treatment of food matrices and ingredients thereof	Application No. 202331056554 (Filed)	2023	The apparatus eliminates or degrades anti-nutrient factors such as enzyme inhibitors, lipase, lipoxygenase, tannins, polyphenols, phytic acid, flatulence factors, lectins, saponins, and some different allergens in cereals and pulses. Additionally, this apparatus eliminates the microbial load, e.g., <i>Salmonella</i> , and <i>Escherichia coli</i> , in low moisture powder foods and spices.

## 1.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	University of Georgia Athens, USA	Student and Faculty Exchange	2024-2029
2.	Indobell Insulations Ltd. Kolkata	Purpose is to develop Fiber reinforced silica aerogel blanket preparation	2024/ 6 months
3.	M/s John Deere India Pvt Ltd, John Deere Technology Centre, Tower 14, Magarpatta City, Hadapsar Pune 411013	Industrial Research Project	20.07.2022 to 19.07.2027







Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
21	Dr. Aniruddha Deb	GEN	Assistant Professor	Nanotechnology, Biosensors & Electrochemical sensors for healthcare, Gel electrophoresis.	Ph.D.	28-02-2024
22	Dr. Siddhartha Mukherjee	GEN	Assistant Professor	Microfluidics, Soft Matter, Complex Fluids, Fluid-structure interaction, Electro-catalysis.	Ph.D.	10-06-2024
23	Dr Y Jerjurkar	GEN	Assistant Professor (Joint Faculty with SER)	Combustion and Computational Fluid Dynamics	Ph.D.	04-07-2017

### 6.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1.	Dr. Pradip Munshi	GEN	Visiting Faculty	Chief Technology Officer (R&D) Tatva Chintan Pharma Chem. Ltd. Gujrat

### 5 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





Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or 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

## OTHER INFORMATION

### 7.1 Achievements of Students:

Sr. No.	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
1	 Akash Raj	Internship at Carnegie Mellon University	Carnegie Mellon University	13-06-2023 to 12-08-2023, Carnegie Mellon University
2	 Baban Dey	Chanakya Post Doctoral Fellow	iHub Anubhuti-IIT Delhi Foundation under NM-ICPS, DST, GOI	1 <sup>st</sup> April 2024 to 31 <sup>st</sup> March 2026










Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Samridhi Mishra	XLRI Jamshedpur				
Yash Vishal	MDI Gurgaon				
Sachin Mehta					
Omnasakee	IIT Kharagpur				
Srijeeta Pal	University of Illinois Chicago				
Soumya Sikha	Carnegie Mellon University				
Sai Mahi Abhishikth Swarangi	University of Massachusetts Lowell				
Dharani Sathwik Ram	Texas A&M University				
Srishti Gupta	IIM Indore				
Niharika Singh	FMS Delhi				
Pooja Vaishnavi Bhagat	XISS Ranchi				
Anmol Prasad	MDI Gurgaon				
Vishwajeet	IIM Lucknow				
Shashank	ESCP Europe				
Anushka Raj Lakshmi	IIT Guwahati				
Vidur Ahluwalia	Technical University Delft				
Shloka Dhavle	Technical University Delft				
AishaneePattnaik	Georgia Institute of Technology				
Preethi Sridhar	National University of Singapore				
Bliss Sinha	XLRI Jamshedpur				
Aryanika Arya	IIM Ranchi				
Kumar Adarsh	IIM Indore				
Shivani Dasgupta	IIM Indore				
Abhinaba Chakraborty	XLRI Jamshedpur				
Sneh Agarwal	Narsee Monjee Institute of Management Studies (NMIMS)				
Akshay Notwani	SP Jain Institute of Management & Research				
Sushant Sinha	MDI Gurgaon				


Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Kousumi Mukherjee	TU Delft				
Vineeth Nair	Arizona State University, United States				
Roshan Kumar	IIT KGP				
Shukla Suryaprakash Shailendra Kumar	BITS Pilani				
Ruchi Kumari	ICT Mumbai				
Mahesh Medar	IIT Guwahati				
Prasoon Kumar	University of Iowa (USA)				
Siddha Sharma	Brown University, USA				
Kousumi Mukherjee	Eindhoven University of Technology				
Sachin Mehta	IOCL				

## 7.4 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

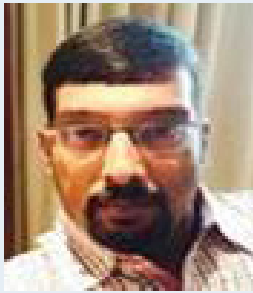



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Dr Piyush I Modi Mr R L Deolalikar, Mr Alpesh Kumar Thakur Twin Engineers, Vadodara	10.08.23	
2.	Dr Debdatta Ratna Scientist G, NMRL, DRDO Ambarnath, Maharashtra		
3	Dr Dipankar Chattopadhyay Professor Department of Polymer Science & Technology, University of Calcutta, 92, A.P.C. Road, Kolkata- 700009, West Bengal, India.		





4	Dr Abhijit Bandyopadhyay Department of Polymer Science and Technology Calcutta University Kolkata		
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7.5 List of Distinguished Alumni (Choose 5 only)

Sr. No.	Name, Batch and Affiliation	Short Description
1		Dr Arjun G Namboodiri Scientist, ISRO Thiruvananthapuram, Kerala
2		Dr Lakshmi Unnikrishnan Scientist, ISRO, Thiruvananthapuram, Kerala. Master of Engineering - MEng, Polymer/Plastics Engineering, 2006-2008, BIT Mesra.
3		Dr Gourav Bhowmik Senior Process Engineer, Applied Materials, Inc Oregon, USA. Bachelor of Engineering – BE, Chemical and Polymer Engineering, 2010-2014.
4		Chandana Kuruganty IAS 2024, Bachelor of Engineering – BE, Chemical Engineering, 2013-2017.



## 7.6 Best Thesis Project (UG/PG)

### Best UG thesis project:

Akash Raj (BTECH/10680/20) Numerical Simulation on PCM operated condenser for Refrigeration System under the guidance of Dr Debasree Ghosh and published a paper in *Journal of Thermal Science and Engineering Applications*, September 2024; 16(9): 091005. <https://doi.org/10.1115/1.4065490>

PL John Sangso (BTECH/10738/20), Project topic "Experimental Study of enhanced boiling with ethanol water mixture in a two phase Thermosyphon Loop", Under the guidance of Dr Arnab Karmakar and published a paper in *Heat Transfer Research*, 55(12), 71–89 (2024). DOI:10.1615/heattransres.2024052009

## 8 Infrastructure Development

### Initiatives undertaken by the Institute:

Renovation and modernization of the Chemical Engineering Department:

1. Renovation of Chemical Engineering buildings
2. Newly constructed Modelling and simulation Lab
3. Newly constructed Process Control Laboratory
4. Newly constructed Research Laboratory
5. Newly constructed Ten Faculty cabins
6. Renovation of Polymer Processing Laboratory.



## Department of Chemistry

### SECTION 1

### DEPARTMENTAL PROFILE



#### 1. About the Department/Off Campus :

**Vision :** To become a recognized center 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

##### 1.1 Established Year 1955

##### 1.2 Courses Offered and Approved Intake

- NEP based B.Sc and M.Sc in Chemistry with various certifications at each level
- 2 year M.Sc. in Chemistry
- Ph.D in Sciences

##### 1.3 Thrust Areas of the Department

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 modelling to theoretical chemistry and quantum chemistry research.

##### 1.4 Number of Faculties : 13

##### 1.5 Brief Description High-end Lab Facilities

The Department has unique research facility of Nuclear Magnetic Resonance (NMR) spectroscopy, 400 MHz, JEOL which fulfil the requirements of solution-state analytical needs for both students and researchers. Advanced equipment such as AUTOLAB workstation, Electrochemical Analyzer (CHI), Microwave Reactor, UV/VIS/NIR Spectrophotometer, Solar Simulator, Rotational Viscometer, Ultra Low Immersion Chiller, Digital Osmometer, XYT Chart Recorder, Millipore, high performance computing facility, Refractometer, Steady State Fluorescence Lifetime Spectrometer with Quantum Yield Measurement Facilities etc., are available for training and research.

##### 1.6 Brief Description of High-end Equipment

The department is equipped with several state-of-the-art laboratories with advanced instruments.





Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
Electrospun PVDF based piezoelectric nano-composite energy harvesters for self-powered smart wearable and implantable electronics	Dr Barnali Dasgupta Ghosh (PI)	SERB ANRF	14.02.2023	48,19,474/-	3 years
Development of Low cost Electrocatalysts for the Hydrogen production by Water Splitting	Dr. S.S. Mahapatra (Co-PI)	SERB ANRF	16.03.2024	44,16,000/-	3 years
Biocompatibility and mechanical studies of nanostructured HAP, metal doped nanostructured HAP on alumina by RF Magnetron Sputtering	Dr. Deep shikha (PI)	SERB	28.02.2022	27,71,824/-	3 years
Investigating the Effect of Molecular Doping in Halide Perovskites Based Energy Harvesting Devices	Dr. Joydeep Dhar (PI)	SERB	10.11.2023	30,09,160/-	2 years
Photo-responsive tetra-aryl pyrazole based emissive organic nano-cage as an artificial-light harvester for heterogeneous photocatalysis	Dr. Atul Kumar (PI)	SERB	20.9.2022	317600/-	2 years
Direct Dynamics Simulation Study on the Catalytic Hydrogenation of CO <sub>2</sub> by Some Transition Metal Hydride Clusters	Dr. D. Chakraborty (PI)	SERB	20.9.2022	236000/-	2 years

**b) Projects Completed:**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	Combination of small light emitting molecules with carbon materials for next generation optoelectronics	Dr. Anirban Pradhan (PI)	SERB-SRS, DST, Government of India,	01.04.2021	16 lakh	31.03.2024

**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop/FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	Science academies' Lecture Workshop on "Holistic approach to explore the beauty of chemistry"	Dr S Naskar	Joint Science Education Panel: IASc, INSA & NASI	2-4 <sup>th</sup> May'2024
2.	AICTE VAANI Program on Recent Advancement in Materials, Rare-earth, Critical Minerals & their Characterization (RAMC-24) in Hindi language	Dr SS Mahapatra Dr Deep Shikha	AICTE	26-28 June 2024
3.	Inter School Chemistry Quiz Contest (CQC-2023), held on December 16, 2023, at BIT Mesra, Ranchi.	Dr. Anirban Pradhan	BIT Mesra	16 <sup>th</sup> December, 2023







SECTION- 4

RESEARCH PUBLICATIONS

Sl.	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
	48	0	2	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. P. K. Chattaraj	Professor Prafulla Chandra Ray Memorial Lecture Award	(NASI)		
2	Dr. P. K. Chattaraj	Highly cited researcher (Top 2 % bracket) : All India Rank (Chemical Physics): 03, Ioannidis, John P.A. (2023), "October 2023 data-update for & quot; Updated science-wide author databases of standardized citation indicators & quot;," Elsevier Data Repository, V6, doi: 10.17632/btchxktyw.6			
3	Dr. P. K. Chattaraj	Research.com : Chemistry in India Leader Award (2023) : National Rank : 27 <a href="https://research.com/u/pratim-k-chattaraj">https://research.com/u/pratim-k-chattaraj</a>			





J. K. Maity, R. Hore, A. Pradhan, T. Halder, S. Mukherjee,	<i>Sauropunol Compounds and Method of Preparing the Same</i>	Patent no. 547547, Application no. 202331049046, Date of grant: 12.08.24. <b>(Patent Granted)</b>	2024	We prepared drug molecules found in nature in the lab in a cheap way. With the help of which, many life saving medicines, including anti allergic, anti-inflammatory, and antibacterial medicines, can be made very cheap. 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.
P. Kar, S. Kundu	Nanoparticle-based sensor, method of preparation and use for detection of heavy metal contamination	Application no. 20243101430A, Date of publication: 27.02.24.	2024	The present invention relates to the preparation of metal nanoparticles-based sensor and method of detecting heavy metal in various samples using the prepared sensor. More particularly, the present invention relates to a method for selective detection of widely distributed heavy metal(s) present in permissible concentrations in sample, using functionalized metal nanoparticles.

### 5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Assam University	Research Collaboration in Computational Chemistry	2023-24

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

## 6.1. List of Faculties as on 30.6.2024

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1	Dr Sumit Mishra	Gen	Associate Professor and Head	Biomaterials and Material Research, Metal organic frameworks, Water remediation, Nutrient and drug release, adhesives, Engineering materials	PhD	
2.	Dr. Ashoke Sharon	Gen	Professor	Organic, medicinal chemistry, computational chemistry & drug design		
3.	Dr. Subhendu Naskar	Gen	Associate Professor	Photosynthetic Water Oxidation, Hydrogen Evolution, CO <sub>2</sub> Reduction Reaction; Photoelectrochemical Solar Cell	PhD	
4.	Dr. Pradip Kar	Gen	Associate Professor	Functional conjugated polymer, Functional nanomaterials and its nanocomposites, Bio& chemical sensor		
5.	Dr. Joydeep Dhar	Gen	Assistant Professor	Energy Material, Electronic Devices, Nanomaterial	PhD	
6.	Dr. Barnali Dasgupta Ghosh	Gen	Assistant Professor	Synthesis of Nanoparticles, Synthesis of Polymer and Nanocomposites for Different Advanced Application, Energy Harvesting Materials	PhD	
7.	Dr. S. S. Mahapatra	Gen	Assistant Professor	Direct Alcohol Fuel Cells, Electrochemical Supercapacitors, Electrochemical treatment of water, Microbial Fuel Cell	PhD	
8.	Dr. Anirban Pradhan	Gen	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	
9.	Dr. Deepshikha	Gen	Assistant Professor	Surface modification, characterization and applications of materials for its use as biomaterial	PhD	
10.	Dr. Gautam Sen	Gen	Assistant Professor	Synthesis and characterization of graft copolymers, biopolymers, matrix for controlled drug release, flocculation, analytical chemistry	PhD	
11.	Dr. Atul Kumar	Gen	Assistant Professor	Supramolecular chemistry	PhD	
12.	Dr. D. Chakraborty	Gen	Assistant Professor	Computational Quantum Chemistry, Chemical Reaction Dynamics, Quantum Trajectories	PhD	





### 6.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1.	Dr. P. K. Chattaraj	GEN	Distinguished Visiting Professor	BIT Mesra, 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 Sumit Mishra	Head of the Department (Ex-Officio)	Chairperson
2.	Dr Ashoke Sharon	Professor Dept. of Chemistry	Member
3.	Prof. Pratim Chattoraj	Distinguished visiting Professor	Member
4.	Dr. Subhendu Naskar	Associate Professor, Dept. of Chemistry	Member
5.	Dr. P. Kar	Associate Professor, Dept. of Chemistry	Member
6.	Dr. G. Sen	Assistant Professor, Dept. of Chemistry	Member
7.	Dr. T. Ghose	Professor, Dept. of Electrical and Electronics Eng.	Member
8.	Dr. Sudip Das	Professor, Dept. of Space Eng. & Rocketry	Member
9.	Dr. Pradyut Ghosh	Professor, Indian Association for the Cultivation of Science (IACS), Kolkata	External Member
10.	Dr. Manas K. Ghorai	Professor, Indian Institute of Technology, Kanpur	External Member
11.	Dr. Rakeshwar Bandichhor	Vice- President & Head of Chemistry, Dr. Reddy's Laboratories Ltd. Hyderabad	External Member
12.	Dr. Satish Patil	Professor, Solid State and Structural Chemistry Unit, IISc, Bangalore	External Member

## SECTION- 7

## OTHER INFORMATION

### 7.1 Student Entrepreneurship activities/Start-ups

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Arti Mahto, PhD Farhana Rozy, PhD	External agencies (partial funded)	Research Institute for Innovative Insights (RII) (ISO & MSME Certified)	Founded in June'2024, major activity is to provide an interface for research training for various academic institutes through NABL accredited labs.



## 7.2 Achievements of Students:

Sr. No	Name of Student with Roll Number	Achievement/Position/Award etc	Organised by	Date and Venue
1.	Shreyaa	Best Women Athlete award	BIT Mesra annual athletic meet	9-11 <sup>th</sup> Feb 2024 BIT Mesra


## 7.3 Students Placed for the Academic Years 2023-24

PhD	
Name, Roll No.	Organization
Smita Singh (PHD/AC/10051/21)	Joined as Assistant professor (chemistry) at Gossner College, Ranchi.



## 7.4 Students Gone for Higher Studies for the last five years.

Name, Roll No.	Organization
Prachi Kumari, SAC/10002/21	CSIR, NML, Jamshedpur
Navya Arepalli ICH/10009/18	Pursuing PhD in Comenius University, Slovakia
Sruthi Swaminathan (ICH/10007/18)	Pursuing PhD in polymer science at School of Polymer Science and Polymer Engineering at The University of Akron, Ohio, USA.
Srikant Singh (ICH/10008/13)	Pursuing PhD in Chemistry at University of Saskatchewan, Canada.

## 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Prof. Amit Basak	03/05/2024	
2.	Prof. Brindabanchandra Ranu	02/05/2024	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
3	Prof.TK Payne	04/05/2024	
4	Prof.Abhishek Dey	04/05/2024	

### 7.6 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Anuradha Kumari, PhD, 2019	Post doctoral research fellow, INRS institute Armand, Frappier Mississauga, Ontario, Canada
2.	Srikant Singh, M.Sc, 2018	PhD University of Saskatchewan, Presently Post doc at Advance Photo Source, Chicago
3.	Binindra Nath Mongal PhD, 2018	Faculty at Manipal University, Jaipur
4.	Shipra Sagar, PhD, 2017	Faculty at Gaya Govt. Engineering College
5.	Shambhu Chandra, MSc, 2018	PhD, University of British Columbia

### 7.7 Best Thesis Project (UG/PG)

- Ishita Mukherjee** : Synthesis and Energy Applications of Porous Carbon Materials and Polycyclic Aromatics, published in Sustainable Energy and Fuels (RSC Publications)
- Srinath Das**: Light weight biopolymer based Co-MOF aerogel composite for environmental remediation (Applied for Patent)
- Any other relevant information

### Content development:

Dr. Deep Shikha developed Synthesis and characterization techniques of Biomaterials-Lab Development

## 10. Special Initiatives :

Sr. No	Special Initiative taken	Short Description
1.	<p>Mixed research scholars cricket tournament: This friendly tournament was organized for both male and female scholars of the institute. Teams from different departments participated in the event. This initiative was taken to ensure physical activity and happy work environment.</p>	
2.	<p>Research Scholar monthly talk series: All scholars are given a chance to give a talk on topic other than their research. The objective is to improve their public communication skills, general awareness on topics of common interest.</p>	

Signature of HOD





# Department of Civil and Environmental Engineering

## SECTION 1

## DEPARTMENTAL PROFILE

### 1. About the Department/Off Campus :













Sr. No.	Project Title	PI / Co PI / Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount/in INR	Duration of the Project
5	Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro-Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand	Dr. Sukalyan Chakraborty	SERB - CRG	11/05/2022	38.5 lakhs	3 years

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator,	Funding Agency	Date of Sanction	Sanc-tioned Amountin INR	Date of completion of the Project
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; Funding: Coal India Ltd.; Scheme: R & D; Sanctioned amount:	Tanushree Bhattacharya-PI, Prof. Bindhu Lal-Co-PI	Coal India Ltd.; Ministry of Coal, Scheme: R&D	1/5/21	Rs. 85.25 Lakhs	30/04/2024
2	Scientific Study of Amalgamated Inder-Kamptee Deep ocm on Bench and Dump Slope Stability along with safe mining method ”	Indrajit Roy & Dr. ManiMohan	Western Coalfield Ltd	June 23	six lakhs	
3	Effect of blasting on open-cast mine dump and development of relationship between blast induced vibration and dump design	Dr. Indrajit Roy, Dr. Ashish Kumar Patnaik, Dr. Mani Mohan	CIL, Ministry of Coal	01/02/2021	33.00 Lakhs	01/02/2021 to 09/08/2023
4	Management of Waste Dump with Power Plant Ash together for optimum ash volume utilisation in OB and Backfilling in the mine pit of GhoghaSurkha Lignite Mine, Bhavnagar	Indrajit Roy and Dr. ManiMohan	P C Patel Mahalaxmi Infra LLP	June- 2023	5 lakhs	May-2024
5	Slope Stability Study of Inder-Kampteeocm.	Indrajit Roy & Mani Mohan	Western coalfield Ltd		Six lakhs	







Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
2	Dr. Neeta Kumari	INCORPORATING UNIVERSAL HUMAN VALUES IN EDUCATION (An AICTE initiative) 6 day UHV II FDP	AICTE	3rd to 8th June 2024		
3	Dr. Neeta Kumari	Sustainable practices in civil engineering	ISTE self sponsored Online FDP programme organised by dept. of civil engineering, tulsiramji Gaikwad -Patil college of engineering and technology, Nagpur	24 <sup>th</sup> June to 28 <sup>th</sup> June 2024		
4	Dr. Sukalyan Chakraborty	International Conference on Pollution Control for Clean Environment-2023 (ICPCCE-2023),	IIT, Bhubaneswar	IIT Bhubaneswar	IIT Bhubaneswar	15-16 <sup>th</sup> December 2023.
5	Dr. Sukalyan Chakraborty	Two-Days National Seminar on <b>“Microplastics: Current Scenario, Challenges, &amp; Future Perspectives”</b>	Division of Environmental Monitoring and Exposure Assessment (Water & Soil), ICMR – NIREH Bhopal	Online	Online	August 22 – 23, 2023
6	Dr. Sukalyan Chakraborty	International conference on Sustainable and Innovative Mining Practices - 2023	organised by National Institute of Technology, Rourkela	NIT Rourkela	NIT Rourkela	November 16, to 18, 2023
7	Dr. Sukalyan Chakraborty	National Workshop on Microplastic Research	IIT Madras	Frontier Lab	IIT Madras	March 1-2 2024

SECTION- 4

RESEARCH PUBLICATIONS

S. No.	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Author	Total No of Publications Chapters in Edited Book
1	51	6	0	0	6



## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

### 1.1 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	Tanushree Bhattacharya	Indian National Science Academy Associate Fellow, 2024	Indian National Science Academy	National	2024
2	Dr. Sukalyan Chakraborty	'Outstanding Faculty Award in the domain of Earth Sciences in India'	Career 360	National	September 2023

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1. List of Faculties as on 30.6.2024

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
1	Prof. Bindhu Lal		Professor & HOD	Soil Mechanics	PhD	
2	Prof. Anand Kr. Sinha		Professor	Water resource	PhD	
3	Prof. Rajeev Ranjan Sahay		Professor	Water resource	PhD	
4	Prof. Sudeshna Chakravarty		Professor	Soil Mechanics	PhD	
5	Prof. Birendra Kr. Singh		Professor	Water resource	PhD	
6	Siddharth Sengupta		Associate Professor	Soil Mechanics	PhD	
7	Kirti Avishek		Associate Professor	Environmental Science	PhD	2005
8	R Naresh Kumar	Gen	Associate Professor	Environmental Science	PhD	2012
9	Dr. Sukalyan Chakraborty	Gen	Associate Professor	Environmental Science	PhD	2012
10	Tanushree Bhattacharya		Associate Professor	Environmental Science	PhD	2012
11	Mani Mohan	Gen	Assistant Professor	Structure and concrete	PhD	2015



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
12	Jawed Iqbal	Gen	Assistant Professor	Environmental Science	PhD	30. 04. 2008
13	Neeta Kumari		Assistant Professor	Environmental Science	PhD	2008
14	Dr. Ashish Kr. Patnaik		Assistant Professor	Transportation	PhD	2020
15	Puja RajHans		Assistant Professor	Structure and concrete	PhD	2020
16	Subhajit Sen		Assistant Professor	Structure and concrete	PhD	2022

### 1.2 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1.	Pulak Kumar Munshi			
2.				

### 1.3 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

## OTHER INFORMATION

### 7.1 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)

PhD	
Name, Roll No.	Organization
Soumya Pandey, PHD/CEE/10051/19	Kalinga university, Raipur

### 7.2 Students Gone for Higher Studies for the last five years.

Masters	
Name, Roll No.	Organization
Shreya Nandi, MT/ENV/10001/21	IIT ISM

## 8. Infrastructure Development.

- Advanced Engineering lab



## Department of Computer Science & Engineering

### SECTION 1

### DEPARTMENTAL PROFILE

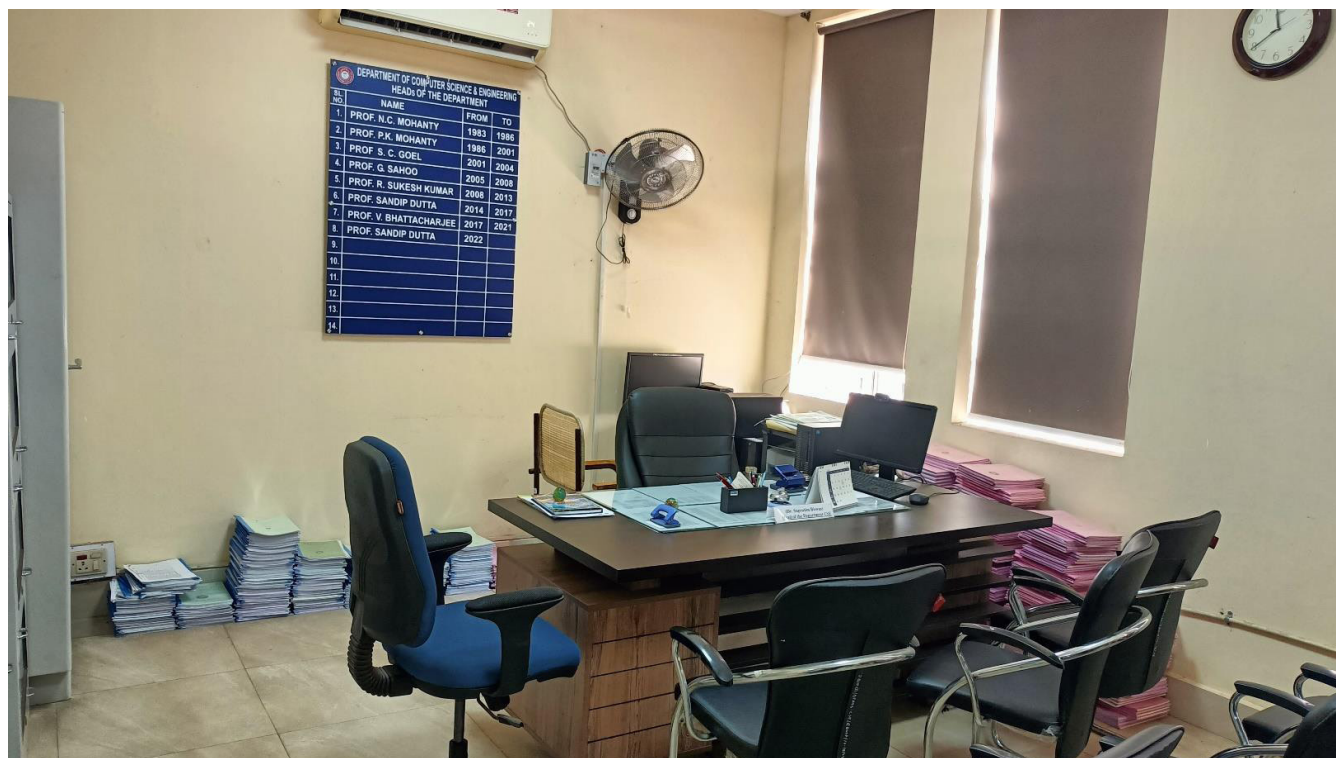


**R & D BUILDING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**FACULTY CHAMBER**





**HOD CHAMBER**



**LABOTARY EXPERIMENTS DONE BY STUDENT**



## 1. About the Department: (In Brief)

The Department of Computer Science & Engineering was established in the year 1982 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.

### 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.

#### 1.1 Established Year: Year 1982

#### 1.2 Courses Offered and Approved Intake:

UG/PG	Programmes Offered (2023-24)	Duration	Intake
<b>Undergraduate Programmes</b>	B.Tech in Computer Science and engineering	4 Years (8 Semesters)	180
	B.Tech in Artificial Intelligence and Machine Learning	4 Years (8 Semesters)	60
<b>Postgraduate Programmes</b>	M.Tech in Computer Science and Engineering	2 Years (4 Semesters)	30
	M.Tech in Artificial Intelligence and Machine Learning	2 Years (4 Semesters)	18
	Master of Computer Application	2 Years (4 Semesters)	60
<b>Doctoral Programme</b>	Ph. D in Engineering		

//Note: Programmes-details given//





4	Lab-IV Programming Lab I	80	Dell optiplex 3010 Operating system:- windows 8 Processor: Intel® Core™ i5-3470@ 3.20 GHz 3.20 GHz Installed Memory (RAM): 4 GB HDD: 500GB
5	Lab-V IOT Lab	30	Dell Optiplex 3060 16 GB RAM,Windows 10 HDD -1TB Intel® core™ i7 8700 <a href="#">CPU@3.20</a> GHz
		30	ACER Veriton Operating system:- windows10 pro Processor: Intel® Core™ i7- 8700@ 3.2s0 GHz Installed Memory (RAM): 8 GB HDD: 1TB
6	Lab-VI Programming Lab II	60	Acer VeritonM200 RAM -16GB 64 bit operating System HDD- 1TB
7	Lab-VII Computational Intelligence Lab	75	HP 280 G2 MT Operating system:- windows 7/ windows10 Processor: Intel® Core™ i7 6700@ 3.40 GHz Installed Memory (RAM): 8 GB HDD: 1TB
8	Lab- VIII Machine Learning Lab	12	Acer VeritonM200 RAM -16GB 64 bit operating System HDD- 1TB
9	Lab-IX Intelligent System Lab	10 02 01	Acer VeritonM200 RAM -16GB 64 bit operating System HDD- 1TB Dell Precision Workstation 7810 Intel Xeon Processor RAM-128 GB(4*32) Dell Precision Tower 7910 RAM -128 GB(4*32) HDD-1 TB d) BIOPAC Systems and accessories



10	HPC Server (High Performance Computing)	01	<p>Master Node- 2 no of Intel Xeon E5-2630 v3 2.4GHz processors with 8 core and 64 GB memory, 2*1 TB HDD</p> <p>CPU Compute Node-2 no of Intel Xeon processor E5 2630 V3@ 2.4 GHz with 8 core in each processor and 64 GB memory, 500 GB Disk capacity FDR infiniband</p> <p>GPU Compute Node- 1 no of GPU node with 2 no of Nvidia K20 GPU with node specifications of 2 processor( Each 8 core) and 64 GB memory. 2 Nos 500 GB HDD, FDR InfiniBand</p> <p>Cloud Node- 1 processors E5-2620 <a href="#">V3@2.4</a> GHz,6 core and 64 GB Memory, 1 TB HDD, Dual Port FC HBA</p> <p>Storage(for HPC and Cloud)- 48 TB of RAW capacity to be shared via NFS over infiniband for the entire cluster from Master node. The same storage in partition mode will be used for cloud also</p>
11	Fujitsu Server	02	<p>Fujitsu Server</p> <p>Operating system:- Centos Linux 7 server</p> <p>64-bit Operating System</p> <p>Processor: Intel ® Xeon CPU E5-2640 <a href="#">V4@2.40</a> GHz x40</p> <p>Installed Memory (RAM): 32 GB</p> <p>Hard Disk: 4.0 TB</p>
12	Dell Power edge Sever	02	<p>Dell Poweredge 1800</p> <p>Operating system:- Windows Server 2003</p> <p>Processor: Intel ® Xeon Processor</p> <p>Installed Memory (RAM): 4 GB</p>

## 1.7 Number of Projects in the Last Five Years.

List of Sponsor Project: 15

Consultancy Project: 1

## SECTION 2

## RESEARCH PROJECTS

### 2.1 Sponsored Projects (Research and Consultancy)

#### Ongoing Projects :

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)
<b>Projects -Ongoing</b>						
1	Visually Evoked EEG Classification and Perceived Image Regeneration using Deep Learning for Brain Fingerprinting	PI: Shamama Anwar; Co-PI: Vandana Bhattacharya	SERB	21-04-2023	24L	21-04-2023 to 20-04-2026





2	Smart Fatigue Detection system using IoMT Device and Advance Machine Learning Techniques for Industrial Workers	PI: Dr. Sanchita Paul	SERB	12-10-2023	28L	12-10-2023 to 11-10-2026
3	Machine Learning and Deep learning Based Automatic Lunar Craters Detection using TMC-2 DEM Images	PI: Dr. Sanchita Paul	ISRO	08-08-2022	22L	8-8-2022 to 7-8-2025
4	Centre for Advance Research on Machine Learning for Geospatial Analytics and Solutions for Jharkhand State	PI-Abhijit Mustafi, Co-PI: Debjani Mustafi	DST	27-02-2023	8.45 CR	27-02-2023 to 26-02-2027
5	360 0 Health Monitoring of Miners and Mining Community of CCL.	PI- Sudip Sahana, Co-PI: Debjani Mustafi	CCL, India	15-12-2022	30.11 L	15-12-2022 to 14-12-2025
6	PI: Dr. B.K.Sarkar	Improving Health Services of Rural Areas in Indian Healthcare System through Machine Learning Approaches	NM-ICPS, IDEA: Technology Innovation Hub@ Indian Statistical Institute, Kolkata		5,79,000.00	From: Oct,2022
7	PI:Indrajit Mukherjee	Multi-Source Optimization using Deep Learning framework for Downscaling Satellite-Derived Thermal Data	DST-SERB		19,08,240	24.02.2023-31-03-26





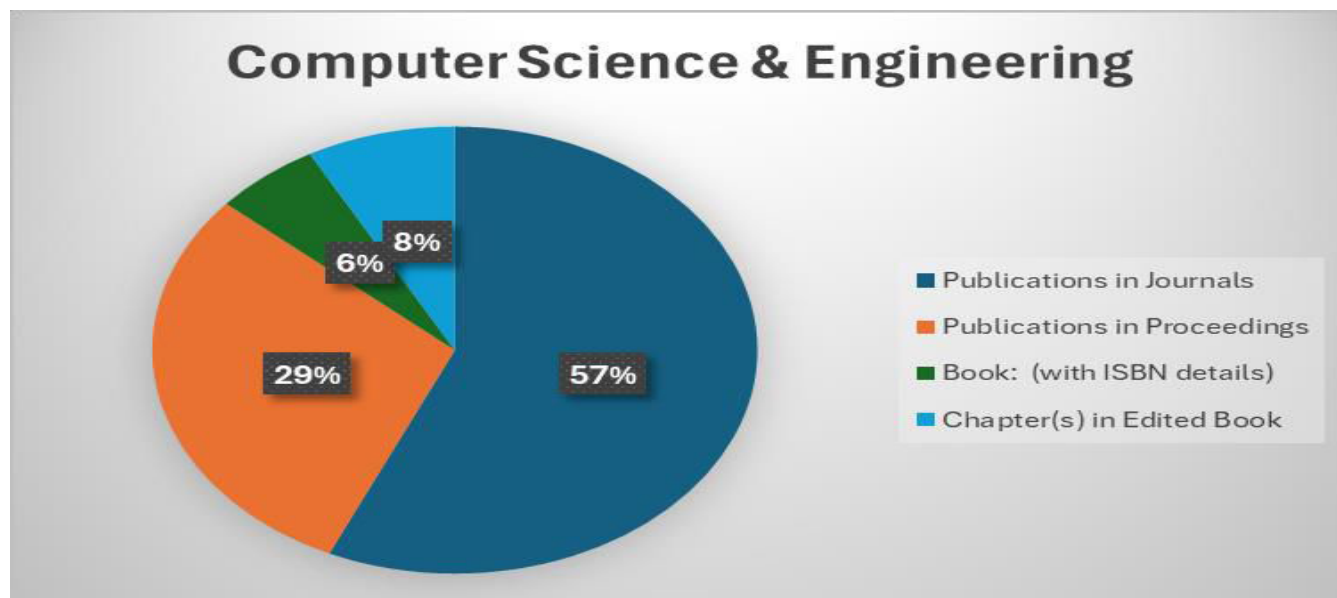
**Projects Completed**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction (dd. mm.yyyy)	Sanctioned Amount in INR	Date of completion of the Project (dd.mm.yyyy to dd.mm.yyyy)
1.	Development of Intelligent Blockchain techniques for providing efficient management and storage security solutions for E-health-care	PI: Shamama Anwar; Co-PI: Prashant Pranav, Sandip Dutta	BIRAC	26-04-2023	10L	25-02-2024
2	A Non-invasive method To Treat Brain Blood Clot Using Nano-Robot	PI: Dr. Sanchita Paul	RPS, AICTE	1-4-2014	4L	30-3-2016

**C) Consultancy Projects carried out/ongoing .**

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	Cyber Security Assessment of DDCCS of Prototype Fast Breeder Reactor (PFBR) against Cyber Threats	IGCAR (Indira Gandhi Centre for Atomic Research)	2023	2026	Rs. 29,77,000	PI: Sandip Dutta; Co-PI: Prashant Pranav	ongoing





#### Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
1	Shruti Garg, Richa Singh	Smart device for diabetics monitoring & control using iot and artificial intelligence techniques	2.02331E+11	2024	In this proposal, we analyzed three types of diabetes monitoring mechanisms are microwave, optical, electrochemical were discussed. Proposed invention is applicable to self-analytical diagnosis, monitoring and control systems for diabetic patients, and in particular relates to non-invasive blood glucose monitoring system. This invention introduces a multi-sensor-based photo acoustic acquisition probe device designed for Non-Invasive Blood Glucose Monitoring Systems (NIV-BGMS).





2	Shruti Garg, Richa Singh	Precision drone agriculture for himalayan diversity farming using artificial intelligence & machine learning”,	2.02331E+11	2024	<p>The development of the Himalayan Biodiversity Information System (HBIS) powered by Artificial Intelligence (AI) and Machine Learning (ML) represents a groundbreaking initiative with the potential to significantly impact the conservation of the Himalayan region. The Himalayas, known for their stunning landscapes and diverse ecosystems, face escalating threats from climate change, habitat degradation, and human activities. By harnessing AI and ML, this comprehensive system addresses key components such as data collection, preprocessing, labeling, and model development. It leverages AI for image analysis, geospatial insights, and climate modeling, and ensures data security, privacy, and ethical considerations. Collaboration with stakeholders, policymakers, and local communities is emphasized, along with continuous monitoring, updates, and rigorous validation of AI and ML models. Ultimately, the HBIS aims to revolutionize our understanding of the Himalayan ecosystem, inform conservation strategies, and contribute to global biodiversity knowledge while serving as a model for conservation efforts in ecologically sensitive areas worldwide.</p>
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3	Neha Prerna Tigga, Shruti Garg, Nishant Goyal, Justin Raj, Basudeb Raj	“Brain-region specific autism prediction system from electroencephalogram signals using graph convolution neural network”	202431057950A	2024	The present invention provides Brain-region specific autism prediction system from electroencephalogram signals using graph convolution neural network. A HydroCel GSN with 257 channels was used for EEG recording. Seventy-one selected channels with their 10-10 international equivalent were considered for the experiments. The electrodes were then divided into 12 brain regions. A graph convolutional neural network (GCNN) is proposed for the prediction of ASD, and autoregressive and spectral feature extraction is performed before ASD identification. The anterior-frontal region was identified as most responsible for ASD, with maximum accuracy of 87.07%. The anterior frontal region is the most frontal part of the brain. It is responsible for high cognitive activities, such as emotion, memory, behavioural inhibition, decision-making, sensory movement, and social interaction. An efficient system can be designed by developing a headset with seven electrodes positioned of the
4	Shamama Anwar, Prashant Pranav, Sandip Dutta	An encryption based portable device for generating electronic health records (ehrs) and method thereof	2.02431E+11	2024	
5	Shamama Anwar, Adla Sanober	An internet of medical things (iomt) based data management system for enhancing user’s data security	2.02431E+11	2024	





8	Subrajeet mohapatra	Assistant professor	Image processing, pattern recognition, soft computing, cognitive psychology	Phd m.Tech.	132 Months
9	Jit mukherjee	Assistant professor	Image processing, remote sensing, machine learning, pattern recognition	Ph.D	29 Months
10	Vandana bhattacharjee	Professor	Machine learning, object oriented software metrics, software cost estimation, deep learning, iot	B.E.,M.Tech, ph.D	264 Months
11	Sumit srivastava	Assistant professor	Computer network information & network security, computer architecture, speech technology	Ph.D, m.Tech, b.Tech	135 Months
12	Kalyan samanta	Assistant professor	Computer graphics, software engineering, image processing, machine learning	M.Tech, b.Tech, phd (pursuing)	360
13	Kishore kumar senapati	Assistant professor	Digital forensic, information retrieval, image processing, computer graphics, data structure	Phd, m.Tech	221
14	Satish chander	Assistant professor	Data mining, pattern recognition, computer graphics, database system, data structure	Phd	274 Months
15	Sudip kumar sahana	Associate professor	Artificial intelligence, soft & evolutionary computing, system programming, grid computing.	Phd, m.Tech, b.E	197 Months
16	Indrajit mukherjee	Assistant professor	Compiler design, algorithm design & analysis, data mining information retrieval, web mining	Phd	24 Years
17	Sabina priyadarshini	Assistant professor	Image retrieval, digital image processing, computer networks, database management system	Phd	16 Years= 192 months
18	Anup keshri	Assistant professor	Theory of computation, compiler design, parallel computing, soft computing	Phd	242 Months
19	Debjani mustafi	Assistant professor	Data mining, machine learning, computer vision, deep learning, evolutionary computing	Phd	204 Months
20	Amritanjali	Assistant professor	Parallel and distributed computing, wireless networks, bioinformatics, machine learning	Ph.D.	210
21	Shashank pushkar	Assistant professor	Optimization theory, software engineering, data mining techniques, urban computing	Ph.D.	270 Months
22	Abhijit mustafi	Associate professor	Digital image processing, machine learning, deep learning, networking (dccn), computer vision	Phd	245 Months



23	Prashant pranav	Assistant professor	Cryptography, computational musicology, cloud computing, integer cyber security	Phd	28 Months
24	Shruti garg	Assistant professor	Biomedical signal processing, machine learning, analysis of algorithms, nlp	Phd	199 Months
25	Jamimamul bakas	Assistant professor	Multimedia, forensics, machine learning, image and video processing, computer vision	Phd, m.Tech, b.Tech	9 Months
26	Sandip dutta	Professor	Network security, cryptography, blockchain, cyber security	Phd	273 Months
27	Pankaj gupta	Assistant professor	Data mining, machine learning, data science, database, computer architecture	Phd, m.Tech	246 Months
28	Satya prakash singh	Assistant professor	Database management system, image processing, software engineering, cloud computing	Ph. D, m. Tech	268 Months
29	Md shah fahad	Assistant professor	Speech processing, machine learning, emotion recognition, disease modeling	Phd, m.Tech, b.Tech	24 Months
30	Suwendu kanungo	Assistant professor	Data mining, image processing, bio-informatics, image retrieval, pattern recognition	Phd, m.Tech., M.Sc.	340 Months
31	Vijay kumar jha	Associate professor	Communication & networks, database technologies	Phd, m.Sc engg, be	272 Months
32	Niraj kumar singh	Assistant professor	Data structures, design and analysis of algorithms, formal languages and automata theory	Phd, me, be	137 Months
33	K.Sridhar patnaik	Associate professor	Software engineering., Software testing, machine learning, iot, cps block chain	Phd, me, be	245 Months
34	Bhaskar karn	Associate professor	Fuzzy logic, information retrieval system, machine learning and soft computing	Ph.D.	312 Months
35	B k chanda	Assistant professor	Information technology	Mca	461 Months
36	Kumar rajnish	Associate professor	Software metrics, pps, software engg.	Ph.D, mca, bs.C (math hons.)	256 Months
37	Supreeti kamilya	Assistant professor	Cellular automata, chaos theory, machine learning, deep learning	Ph.D	25 Months
38	D k mallick	Associate professor	Wireless sensor network, distributed and parallel computing.	Ph.D.	294





39	Supratim biswas	Visiting professor	Programming languages, compiler optimization, parallel and distributed computing, automata theory	Ph d	521 Months
40	Dr.(Mrs) i. Snigdha	Asst.Professor	IoT, cyber physical systems, wireless sensor network, software design and testing, dbms	Ph.D.	266 Month
41	Dr. Jayasree sengupta	Assistant professor	Applied cryptography, blockchain, network security	Ph.D.	4/15/2024
42	Dr.Saikat chakraborty	Assistant professor	Applied machine learning, clinical gait analysis	Ph.D.	9/5/2024

**6.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1	Prof. R.K. Ghosh	GEN	Professor ( Ph.D. IIT Kharagpur)	Mentor & Distinguished Visiting Prof, The Assam KU Jorhat Adjunct Professor, BITS Mesra Member Academi Senate, IIT Bhilai Chairperson Research Advisory Committee, IIT Bhilai
2	Prof. Supratim Biswas	GEN	Professor( Ph.D. IIT Kharagpur)	Computer Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400 076, India, Currently he is a HOD of CSE Deptt.

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Students Placed for the Academic Years 1**

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
				Neha Prerna Tigga, PHD/CS/10052/18	Amity University, Noida, Recieved offer for PostDoc at UAE

**7.2 Best Thesis Project (UG/PG) [Detail Attached in Excel Sheet]**

S.N	U.G	P.G
1	Roll No.: BTECH/10344/20 Name: Rishabh Srivastava Project Title: ROBO Gpt Project Type: Industry Project Company Name: Orangewood Internal Mentor: Dr. Sumit Srivastava Industry Mentor: Mr. Chetan Patil	Name: Pushkar Anand Roll: MT/CS/10016/21 Guide: Dr S. Dutta Topic: Unsupervised document categorization and summarization with integrating web scraping



## 8. Infrastructure Development. [Detail Attached in Excel Sheet]

1	Cloud Computing Lab Set-Up has been done for 30 Student capacities (Dr. Sanchita Paul)	
2	Lab Set-Up has been done for 50 student capacities under project DST-PURSE (DR. Abhijit Mustafi)	
3	Intelligent System lab has been set up for 20 student capacity under Dr. Shamama, Dr. S Mohapatra	



# Centre for Quantitative Economics and Data Science

## SECTION 1

## DEPARTMENTAL PROFILE



### 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.







and sub-surface soil moisture conditions”, File No. CRG/2022/006070, from March 2023 to February 2026. (Sanctioned Amount - ₹ 25,41,240.00)

- Science and Engineering Research Board (SERB) Sponsored 4 weeks Training and Skill Internship (VRITIKA) on “Hyperspectral Data Analytics” from 3rd July 2023 to 30th July 2023. (Sanctioned Amount - ₹ 1,50,000.00).
- With Adrosonic IT Consultancy Pvt Ltd. for execution of Digital Innovation Lab at CQEDS, BIT Mesra, Ranchi from 1st March 2023 to 28th February 2024 (Sanctioned Amount - ₹ 10,62,000.00 (Consultancy)
- SANDEE, ICIMOD sponsored Project “Behavioural responses and the impact of environmental knowledge of ponds: Evidence from field experiment in India”, Amounting \$25000.00.

### 1.7 Achievement of the Department in the last three years.

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

### 1.8 Activities of Department

- Science and Engineering Research Board (SERB) Sponsored 4 weeks Training and Skill Internship (VRITIKA) on “Hyperspectral Data Analytics” from 3rd July 2023 to 30th July 2023. (Sanctioned Amount - ₹ 1,50,000.00), File No. SERB/F/1403/2023-2024 dated 22-May-2023.
- Institute sponsored, 1st Annual QEDS Conference 2024 on “Data driven Analytics in Contemporary Economics and Business.” from March 5-7, 2024.

## SECTION 2

## RESEARCH PROJECTS

### 2.1 Sponsored Projects (Research and Consultancy)

#### a) Ongoing Projects:

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.	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 K u m a r Pandey (PI)	BIT Mesra	27 <sup>th</sup> September 2022	₹ 5,00,000.00	27.09 2022-26.09.2024





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)
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 K u m a r Pandey (Co-PI)	Science and Engineering Research Board (SERB) Sponsored CRG	March 2023	₹ 25,41,240.00	01.03. 2023- 28.02.2026
3.	Behavioural responses and the impact of environmental knowledge of ponds: Evidence from field experiment in India	PI	S A N D E E - ICIMOD	November 7, 2023	₹ 20,69,000.00	15.01.2024- 14.01.2024

## b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction (dd. mm.yyyy)	Sanctioned Amount in INR	Date of completion of the Project (dd.mm.yyyy to dd.mm.yyyy)
1.	4 weeks Training and Skill Internship (VRITIKA) on Hyperspectral Data Analytics	Event Organizer	Science and Engineering Research Board (SERB)	22.05.2023	₹ 1,50,000.00	03.07.2023- 30.07.2023

## c) Consultancy Projects carried out/ongoing

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	Execution of Digital Innovation Lab	Adrosonic IT Consultancy Pvt Ltd	1st March 2023	28th February 2028	₹ 92,63,523.92 (Including 18 % Tax)	Dr Manish Kumar Pandey	Ongoing



SECTION- 3

SEMINAR/CONFERENCE

3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1.	4 weeks Training and Skill Internship (VRITIKA) on Hyperspectral Data Analytics	Dr Manish Kumar Pandey	Science and Engineering Research Board (SERB)	03.07.2023-30.07.2023
2.	1st Annual QEDS Conference 2024	Dr. Shrimoyee Ganguly	Institute budgetary allocation	05.03.2024-07.03.2024

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
1.	Dr. Tina Dutta (invited as Resource Person)	“Analysing Social Science Research Data Using Python Programming”		Department of Geography, Institute of Science, Banaras Hindu University, Varanasi	online	27-29 February, 2024
2.	Dr. Tina Dutta (invited as Resource Person)	“Analysing Social Science Research Data Using Python Programming”		VART Consulting Pvt Ltd, Mumbai	online	25-27 January, 2024
3.	Dr. Tina Dutta (invited as Resource Person)	“Multiple Regression Analysis: Concepts and Applications”		School of Advanced Sciences and Department of Mathematics, Vellore Institute of Technology, Vellore, Tamil Nadu	online	8 November 2023
4.	Dr. Tina Dutta (invited as Resource Person)	“Data Visualization and Interactive Dashboards using Microsoft Power BI”		Deepak Foundation, Vadodara, Gujarat	online	18-25 September 2023





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
10	Dr. Shrimoyee Ganguly (as invited Discussant)	ICSSR sponsored Research Scholars Workshop titled "Contemporary Issues in Empirical and Theoretical Economics"		Department of Economics, Jadavpur University, Kolkata	(Offline) Department of Economics, Jadavpur University, Kolkata	23-24 April, 2024
11	Dr. Saheli Bose (as paper presenter)	Economic Development and Public Policy in India		Department of Economics, University of Kalyani	Department of Economics, University of Kalyani, Kalyani, West Bengal	November, 6, 2023
12	Dr. Saheli Bose (as paper presenter)	Annual Winter School 2023		Delhi School of Economics	New Delhi	14-16, December, 2023
13	Dr. Saheli Bose (as paper presenter)	18th Annual Conference on Economic Growth and Development		Indian Statistical Institute, New Delhi	Indian Statistical Institute, New Delhi	18-20 December, 2023
14	Dr. Saheli Bose (as paper presenter)	Asia Meeting of the Econometric Society		IIT Delhi	IIT Delhi, New Delhi	13-14 January, 2024
15	Dr. Saheli Bose (as discussant)	IIMC Doctoral Conference		IIM Calcutta	IIM Calcutta, Kolkata	29-30 March, 2024
16	Dr. Saheli Bose (as discussant)	ICSSR sponsored Research Scholars Workshop titled "Contemporary Issues in Empirical and Theoretical Economics"		Department of Economics, Jadavpur University, Kolkata	Department of Economics, Jadavpur University, Kolkata	23-24 April, 2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
17	Dr. Mrinal Jana	4 <sup>th</sup> International conference on Engineering Mathematics & Computing (ICEMC 2024)		Haldia Institute of Technology, Haldia, WB	Haldia Institute of Technology, Haldia	March 07-09, 2024
18.	Dr Manish Kumar Pandey as Participant	Six Days Short Term Training Programme on the Indian Knowledge System	AICTE	UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi	Banaras Hindu University, Varanasi	28 <sup>th</sup> August 2023 to 2 <sup>nd</sup> September 2023.
19.	Dr Manish Kumar Pandey (Invited Talk) entitled "Cliodynamics: Can Data Science decode Social Unrest for its Efficient Forecasting?"	14 days Refresh Course in Forecasting Social Unrest Cliodynamics	UGC- Human Resource Development Centre, Ranchi University, Ranchi	UGC- Human Resource Development Centre, Ranchi University, Ranchi	Ranchi University, Ranchi	7 <sup>th</sup> December 2023 to 20 <sup>th</sup> December 2023.
20.	Dr Manish Kumar Pandey Delivered a talk in live career guidance programme entitled "Career opportunities in Quantitative economics and data science".	Aur bhi hain rahein	DD Jharkhand	DD Jharkhand	DD Jharkhand	25 <sup>th</sup> October 2023
21.	Dr Manish Kumar Pandey as Resource Person	in Summer School 2023 entitled "Data Structure and Algorithm Design"	Department of Computer Science & Engineering, Birla Institute of Technology, Mesra	Birla Institute of Technology, Mesra	Birla Institute of Technology, Mesra	19 <sup>th</sup> June to 5 <sup>th</sup> July 2023.

## SECTION- 4

## RESEARCH PUBLICATIONS

S.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	7	0	0	0	2





**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1 Departmental Students' Activities**

Sr. No.	Name of the Activity	Students' Co-Ordinator (if any)	Faculty Coordinator (if any)	Date / Duration
1.	Winners of Regional round competition on "Deglobalisation: Challenges and Opportunities for India" of the RBI Policy Challenge 2023	Shreyas Chaturvedi, Nandan Chinmay Shailesh, Sahil Ritolia	Dr. Shrimoyee Ganguly	October 2-3, 2023
2.	Position among Top5 of Zonal round of the RBI Policy Challenge 2023 on "Towards a Greener Cleaner India".	Shreyas Chaturvedi, Nandan Chinmay Shailesh, Sahil Ritolia	Dr. Shrimoyee Ganguly	December 5-6, 2023

**6.2. List of Faculties**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
1	Dr Manish Kumar Pandey	GEN	Assistant Professor	Data Science, Artificial Intelligence, Big Data Analytics	PhD (Computer Science)	21/09/2021
2	Dr. Mrinal Jana	GEN	Assistant Professor	Optimization theory	PhD (Mathematics)	06/12/2021
3	Dr. Tina Dutta	GEN	Assistant Professor	Statistics, Business Analytics, Mathematical Demography	Fellow (PhD), M.Phil., M.Sc. Statistics	18/08/2023
4	Dr. Shrimoyee Ganguly	GEN	Assistant Professor	International Economics and Development, Micro-Economics	Ph.D.(UGC NET SRF) M.Phil., M.A., B.A (Hons.) Economics	17/07/2023
5	Dr. Saheli Bose	GEN	Assistant Professor	Development Economics, Labour Economics	PhD Economics	20/07/2023



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
6	Dr. Kusum Lata Mishra	GEN	Associate Lecturer	Management	PhD (Human Resource Management)	12/08/2009
7	Dr. Pushkal Kumar	GEN	Assistant Professor	Statistical Classification Problems, Bayesian Inference, Statistical Inference Using Censored Data, Decision Theory, Computational Statistics	PhD (Mathematical Statistics)	13/05/2024
8	Mr. Santosh Chaudhary	GEN	Assistant Professor	Applied Probability, Mathematical Statistics, Reliability Theory, Estimation, Statistical Hypothesis Testing	PhD Pursuing	12/04/2024

### 1.3 Board of Studies

Internal Members		
Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
Prof. Kunal Mukhopadhyay	Professor, HOC CQEDS, BIT Mesra	Chairman
Dr. Manish Kumar Pandey	Assistant Professor of Data Science CQEDS, BIT Mesra	Internal member
Dr. Mrinal Jana	Assistant Professor of Mathematics CQEDS, BIT Mesra	Internal member
Dr. Saheli Bose	Assistant Professor of Economics CQEDS, BIT Mesra	Internal member



Internal Members		
Dr. Abhijit Mustafi	Associate Professor Department of Computer Science & Engineering BIT Mesra	Internal member
Prof. S. Padhi	Professor Department of Mathematics BIT Mesra	Internal member
External Members (Any Two Members of the Following List)		
Mr Mayank	CEO & Managing Director Adrosonic	Member from Industry
Prof. Partha Ray	Director, National Institute of Bank Management, Pune	Member from Academics
Prof. Mousumi Dutta	Professor of Economics, Presidency University, Kolkata	Member from Academics
Prof. Rahul Mukerjee	Professor of Statistics Indian Institute of Management, Calcutta	Member from Academics
Prof. Animesh Mukherjee	Professor of Computer Science IIT Kharagpur	Member from Academics

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Student Entrepreneurship activities/Start-ups if any:**


Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Pratyush Upadhyay	BIT Nishan	Edvisorr	Edvisorr is on a mission to redefine mentorship and learning support for JEE-NEET aspirants and college students. The platform provides personalised, mentorship to the unique needs and learning styles of each student. By offering strategic guidance and progress tracking, they empower aspirants to achieve their academic goals with confidence.

**7.3 Achievements of Students:**

Sr. No	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
1	Nishant Sharma (IED/10015/21)	First Prize in Hackathon	Ministry of Cooperation, Government of India	6 <sup>th</sup> August 2023 – Pune




Sr. No	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
2	Parth Suryadhvaj (PHD/QED/10002/23) Harsh Ranjan (IED/10008/21) Yaagik Maurya (IED/10029/21) Navneet Kumar (IED/10010/21)	2 <sup>nd</sup> Prize in Innovation Fair, Elevate	Adrosonic	10 <sup>th</sup> February 2024 - Taj Exotica, Goa
3	Shreyas (IED/10012/21) Chinmay Nandan Shailesh (IED/10003/21) Sahil Ritolia (IED/10001/21)	1 <sup>st</sup> Prize, Regional Round of RBI Policy Challenge, 2023	Reserve Bank of India	5 <sup>th</sup> December 2023 - Kolkata
4	Nishant Sharma (IED/10015/21)	Fully funded MITACS Globalink Fellow	Athabasca University Edmonton (Canada)	May – Aug 2024: Athabasca University Edmonton (Canada)
5	Chinmay Nandan Shailesh (IED/10003/21) Ashutosh Kumar (IED/10005/21) Prabhat Kumar (IED/10023/21) Pratham Shaha (IED/10013/21)	2 <sup>nd</sup> Place in Hack 24 hackathon	Society for Data Science	6-8 <sup>th</sup> September 2023 – BIT Mesra
6	Harsh Ranjan (IED/10008/21)	1 <sup>st</sup> Prize in Kurukshetra National Parliamentary Debate	NUSRL, Ranchi	6-8 <sup>th</sup> Dec, 2023, NUSRL, Ranchi

## 7.6 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Professor Rahul Mukherjee, the National Science Chair at IIM Calcutta,	5 <sup>th</sup> March 2024	

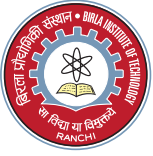
Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
2.	Professor Partha Ray of NIBM, Pune	5 <sup>th</sup> March 2024	
3.	Professor Mousumi Dutta of Presidency University, Kolkata	5 <sup>th</sup> March 2024	
4.	Professor Vimal Kumar of Department of Economic Sciences, IIT Kanpur	6 <sup>th</sup> March 2024	
5.	Professor Anup Dewanji of ISI Kolkata	6 <sup>th</sup> March 2024	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
6.	Professor Animesh Mukherjee of Computer Science Engineering Department of IIT Kharagpur	6 <sup>th</sup> March 2024	
7.	Mr Mayank, CEO & Managing Director, Adrosonic	9 <sup>th</sup> December 2023	
8.	Ms Sonal, COO, Adrosonic	9 <sup>th</sup> December 2023	

## 8. Infrastructure Development.

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



# Department of Electronics & Communication Engineering

SECTION 1

DEPARTMENTAL PROFILE









The Communication laboratories are well equipped with Analog Communication kits (like Amplitude Modulation & Demodulation, Frequency modulation & Demodulation, Phase Modulation & Demodulation, and Noise Generator) and Digital Communication Kits (like PCM, DM, PPM, ADM, ASK, FSK, PSK & QAM). Cosmism Software is also available in the laboratory for designing of wired, wireless and mobile communication systems.



The Fiber Optic Laboratory is well-equipped with Optical to Electrical Converters, Electrical to Optical converters, He-Ne Laser Source, Argon-ion Laser Source, Tunable Laser Source, Optical Spectrum Analyzer, Optical Time Domain Reflectometer, LED and LD Sources, Monochromator, various types of Photo-Detectors, Couplers, Multiplexers, CCD camera, BSO crystal, Vibration Isolation Table, Newport Kit, Falcon Kits and various types of fibers. Recently, Beam Prop software has been installed in the laboratory. It will aid in designing various Optical Components, Optical Fibers, Optical Switching, and Fiber Bragg Grating etc. Several

research projects are ongoing with the existing facilities.

Department also has an Advanced Instrumentation Lab which includes Data Acquisition Cards (DAC) from National Instruments and Lab View software for real time calibration and measurement experiments. This lab also has acquired a new PLC of Mitsubishi make.

The Department has a well-equipped VLSI Design lab. Primary area of research in the VLSI lab consists of full-custom Application Specific Integrated Circuits (ASIC) and processors involving analog, digital and mixed signal processing. For this purpose, the Cadence software is available which provides full custom with front end and back end facility. Also the Laboratory is equipped with other software like Active HDL, Synplify Pro, Xilinx ISE and Modelsim. There is provision for downloading the VHDL code to FPGA / CPLD Kits namely Vertex, Spartran etc., which will help students to gain hands-on experience in the area of VLSI design.

The Advanced Communication Lab is equipped with a GPS Trainer Kit, Satellite Communication Trainer Kit, Mobile Communication Trainer Kit and CDMA Trainer Kit. This Laboratory also has Scalar Network Analyzer with Plotter (22 GHz), Spectrum Analyzer spanning 9 KHz to 22GHz range, Sweep Oscillators for 5.9 to 12.4 GHz, 22GHz Microwave Frequency Counter, Pattern Generator and Sweamer Generator.

The Antenna Lab is equipped with most sophisticated and modern equipment's such as Vector Network Analyzer (N5230A, 10 MHz - 20 GHz), R & S Signal Generator (SMR20, 1 GHz - 20 GHz), R & S Spectrum Analyzer (FSP, 9 KHz - 30 GHz), MIC Kit for s-parameter characterization of Microwave Integrated Circuits, Antenna measurement facility and a small Anechoic Chamber. The Lab also has design software such







Useful applications include surface cleaning of substrates for enhanced adhesion, plasma activation for microfluidic device fabrication, and surface chemistry modification of biomaterials and polymers.



Deionised Water Setup

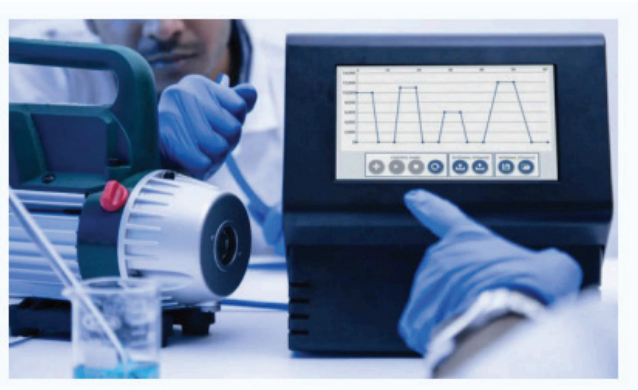
The deionised water setup system is capable of producing both Grade 1 and Grade 2 water. The system is based on reverse osmosis and ion exchange technologies optimized for the best quality.



Spin coater System

The coating of a photoresist on a substrate can be made in several ways, the most used is clearly

the spin coating that coats a liquid photoresist on a rotated substrate. Spin coaters are used in the photolithography of a microfluidic mold to coat a photoresist layer (such as SU-8) on a substrate. However, they are made to be versatile for all kinds of photoresists.



Syringe Pump

Syringe pumps, or syringe drivers, are motorised devices that accurately control the movement of fluid from a syringe by mechanically inserting or retracting the plunger. Syringe pumps feature stepper motors that accurately move the platform attached to the plunger of a syringe.



Fume Hood

A fume hood is especially designed to exhaust toxic or otherwise harmful vapours etc. for protecting laboratory personnel & equipment.



# Annual Report 2023-24

## 1.7 Number of Projects in the Last Five Years.

8+3=11 (Total value: Approx Rs 3.97 crores)

## 1.8 Achievement of the Department in the last three years. (In Brief)

- Setup the Microfabrication Lab supported by FIST-II
- Setup of 5G Use case Lab supported by DoT, Ministry of Communications
- Setup the advanced VLSI Design Lab by MODROBs AICTE
- Received NBA Accreditation for 3 years (2023-2026)
- Total Number of PhD Awarded :29
- Launch the Departmental Newsletter ECE EXPEDITE

## 1.9 Activities of Department

- Short-Term Training Program on

Microelectronics & VLSI Design (STTP-MVD-2024)

- One Week Short Term Course on “Neuroevolution based Advanced Semiconductor Devices (NASD-2024)”
- Two-day Workshop on Mitigation of Electromagnetic Interference and Electromagnetic Compatibility in Wearable IoT Devices
- A Three days workshop on Viksit Bharat@2047 mission
- Video Conferencing Session to participate in the Inaugural function of India Mobile Congress-2023
- Three weeks Students’ Induction Program (SIP) for the newly admitted UG & PG students of MO 2023 Batch.
- A Workshop on Enhancing the Power of Performance through Self Transformation

## SECTION 2

## RESEARCH PROJECTS

### 2.1 Sponsored Projects (Research and Consultancy)

#### a) Ongoing Projects :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Combating the Cyber Peace Mirage: Advanced Research in Misinformation, Deefake and AI Generated Fakes	PI: Dr. Vijay Nath	CyberPeace Foundation	08.06.2024	3540000	2 years
2.	Mitigation of Electromagnetic Interference and Electromagnetic Compatibility issues in Wearable IoT devices	PI: Dr. Nisha Gupta	DST-SERB	05.09.2022	232166	3 years



Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
3.	Development of Data Science Methods for Cyber Physical Systems.	Center-PI: Dr. S K Ghorai Project PI: Dr. S.S.Tripathy, Dr. S.Sengupta, Dr. S.S. Sahu, Dr. Sanjeet Kumar, Dr. G. K. Mishra, Dr. Raju Poddar, Dr. S.K.Mishra etc.	IDEA, TIH-ISI Kolkata (there are 14 project works)	26.07.2022	100 Lakhs	3 years
4	Setting up 5G use case lab	PI: Dr. Sanjay Kumar Co PI : Dr. Sanjeet Kumar, Dr. Gajendra Kant Mishra Dr. Neela Chatteraj Dr. Sitanshu Sekhar Sahu Dr. Dileep Kumar Upadhyay Dr. Priyank Saxena Dr. K.K. Senapati (CSE) Dr. Deepak Kumar (EEE)	DOT, Govt, of India	Dec 2023	72 lakhs	4 Years
5	Scalable Fabrication of Microneedle assembly for painless drug delivery	PI - Dr. Richa Mishra	DST-SERB	28.10.2024	29,10,000	3 years
6	Pick-to-Light System with Movable Bin Technology (Under research collaboration with Ranchi University)	PI- Dr. N.K.Rana, Ranchi University Co-PI - Prof S.S.Solanki	Department of Science & Technology under DDP program	28.09.2021	Rs.9,71,840/- (Rupees Nine Lakh Seventy-One Thousand Eight Hundred Forty Only)	3 years
7	DST FIST Program 2022	PI-HoD, ECE Department Co-PI - Prof. S.S.Solanki, Dr. N. Chatteraj, Dr. S.S.Sahu, Dr. S.S.Tripathi, Dr. K. Mahto, Dr. P. Kumar, Dr. R. Mishra, Dr. V.K.S. Yadav (MNNIT)	DST FIST	07.03.2023	1,72,00,000	5 years



## b) Projects Completed:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	High Speed Two Photon Polymerisation based Fabrication of Hollow Microneedles	Dr. Richa Mishra	Birla Institute of Technology, Mesra, India	07.01.2022	5,00,000	31.03.2024

## c) Consultancy Projects carried out/ongoing:

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	Development of a fire announcement system for mining applications.	MIMEC Electronics Pvt. Ltd., Ranchi.	Aug 23	July 24	200000	Dr. P. Saxena	Ongoing
2.	Development of Microwave Repeater or range extender for Walkie-Talkie System	MIMEC Electronics Pvt. Ltd., Ranchi.	Nov 23	Nov 24	20000	Dr. Gajendra Kant Mishra	Ongoing

## SECTION- 3

## SEMINAR/CONFERENCE

### 3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted :

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Short Term Training Program on Microelectronics & VLSI Design (STTP-MVD-2024)	Dr. Vijay Nath	BIT Mesra	02.04.2024 to 06.04.2024
2.	One Week Short Term Course on “Neuroevolution based Advanced Semiconductor Devices (NASD-2024)”	Dr. P. P. Dash & Dr. Deepti Gola	BIT Mesra	07/03/2024 to 11/03/2024
3.	Two-days Workshop on Mitigation of Electromagnetic Interference and Electromagnetic Compatibility in Wearable IoT Devices	Dr. Nisha Gupta & Dr. Itu Snigdha	DST-SERB Power	30/05/2024 to 31/05/2024
4.	A Three days workshop on Viksit Bharat@2047 mission	Dr. Sanjay Kumar (Co-convener)	Ministry of Education, Government of India	3-5 April 2024



Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
5	Video Conferencing Session to participate in the Inaugural function of India Mobile Congress-2023	Dr. Sanjay Kumar (Co- Coordinated by Dr. Sanjeet Kumar and Dr. GK Mishra.)	DoT, Govt. of India	27 October 2023
6	Three weeks Students' Induction Program (SIP) for the newly admitted UG & PG students of MO 2023 Batch.	Dr. Sanjay Kumar	BIT Mesra	01-22 Sep 2023
7	A Workshop on Enhancing the Power of Performance through Self Transformation	Dr. Sanjay Kumar	Vivekanand study circle, BIT Mesra	20 Feb 2024
8	One Day hands on Analog VLSI Design (AVD-2024)	Dr. Vijay Nath	BIT Mesra	4th March 2024
9	Summer Internship on Chip Design(SICD-2024)	Dr. Vijay Nath	ECE, BIT Mesra	1st June 2024 to 15th July 2024

**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Vishal H Shah	5th International Conference on Data Science and Applications (ICDSA 2024)	Paper presentation fee by institute	Malaviya National Institute of Technology Jaipur, India	Hybrid (Jaipur + Online)	July 17-19, 2024
2	Dr. Priyank Saxena	International Conference on Machine Learning and Data Engineering (ICMLDE)	Institute	UPES Dehradun	UPES Dehradun	23-24 November, 2023
3.	Dr. Megha Dadel	Short Term Training Program on Microelectronics & VLSI Design (STTP-MVD-2024)		BIT Mesra	BIT Mesra	02.04.2024 to 06.04.2024
4.	Dr. Megha Dadel	Two-day Workshop on Mitigation of Electromagnetic Interference and Electromagnetic Compatibility in Wearable IoT Devices	DST- SERB Power	BIT MESRA	BIT MESRA	30/05/2024 to 31/05/2024





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
5.	Sukanta Kumar Dash	8th Int. Conf. on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET – 2023), August 11 - 12, 2023.	NIT, Mizoram, India	NIT, Mizoram, India.	Hybrid, NIT, Mizoram, India	August 11 - 12, 2023
6.	Sukanta Kumar Dash	6th Int. Conf. on Computational Intelligence in Communications and Business Analytics (CICBA – 2024)	NIT, Patna, India	NIT, Patna, India	Hybrid, NIT, Patna, India	January 23- 25, 2024
7.	Sukanta Kumar Dash	6th International Conference on Smart Computing and Informatics (SCI – 2024), April 19-20, 2024, Department of CSE, IT, CSE (AI&ML, DS), ANITS, Visakhapatnam, Springer, India, 2024. (In Production House)	ANITS, Visakhapatnam, India.	Department of CSE, IT, CSE (AI&ML, DS), ANITS, Visakhapatnam, India.	Department of CSE, IT, CSE (AI&ML, DS), ANITS, Visakhapatnam, India.	April 19-20, 2024
8	Sitanshu Sekhar Sahu	5th International Conference on Data Science and Applications (ICDSA 2024)	Institute	Malaviya National Institute of Technology Jaipur, India	MNIT Jaipur	July 17-19, 2024
9	Dr. Aminul Islam	Familiarization workshop of UG VLSI Curriculum.	Institute	AICTE	AICTE HQ, Nelson Mandela Marg, New Delhi	16th May 2024
10	Dr. Sanjay Kumar	North-Eastern and Eastern zone Vice Chancellors' Conference	BIT Mesra	NEP Bureau, UGC, New Delhi	Guwahati, Assam,	28 June 2024
11	Dr. Sanjay Kumar	8-days offline Faculty Development Program (FDP) on Universal Human Values (UHV-II)	BIT Mesra	AICTE	Punjab university	18-25 June 2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
12	Dr. Sanjay Kumar	Amdocs Campus Conclave on Bridging Minds and Igniting Future via Academia-Industry Synergy	Amdocs	Amdocs	Pune	31 May 2024
13	Dr. Sanjay Kumar	One day workshop on Institutional development Plan for Higher Educational Institution for vision and planning as per the NEP 2020,	BIT Mesra	UGC	Kaushal Bhawan, UGC	23 Apr 2024
14	Dr. Sanjay Kumar	India Mobile Congress (IMC), 2023	BIT Mesra	DoT and COAI	Pragati Maidan New Delhi	27-29 October 2023
15	Dr. Vijay Nath	Chip Design & FPGA System Design in  One Day Workshop on Microelectronics & VLSI Design	SoS of Electronics & Photonics, Pt. Ravi Shankar Shukla University Raipur	SoS of Electronics & Photonics, Pt. RaviShankar Shukla University Raipur	SoS of Electronics & Photonics, Pt. Ravi Shankar Shukla University Raipur	14th July 2023
16	Dr. Sitanshu Sekhar Sahu	Amdocs Campus Conclave on Bridging Minds and Igniting Future via Academia-Industry Synergy		Amdocs	Pune	31 May 2024
17	Dr. Richa Mishra	INUP-i2i Online Familiarization workshop on Nanofabrication and Characterization	MeitY		IIT KGP	April 22-24,2024
18	Dr. Gajendra Kant Mishra and Dr. Sanjeet Kumar	2-days 5G Awareness Workshop at IIT Guwahati on	Deptt. of Telecom (DOT)	Deptt. of Telecom (DOT)	IIT Guwahati	12-13 February 2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
19	Dr. Vijay Nath	Research Methodology on IoT in One Week Online Faculty Development Program(FDP) on Evolutionary Trends in Computational Intelligence	Guru Jambheshwar University of Science & Technology	Department of Computer Science and Engineering,	Guru Jambheshwar University of Science & Technology, Hisar	15 <sup>th</sup> Jan 2024 to -20 <sup>th</sup> Jan 2024.
20	Dr. Vijay Nath	India Semiconductor Mission in One Week Faculty Development Program(FDP) on Fundamental of Chip Designing	Department of Electronics & Telecommunication Engineering, Dr D.Y. Patil Institute of Technology Pimpri Pune	Department of Electronics & Telecommunication Engineering, Dr D.Y. Patil Institute of Technology Pimpri Pune	Department of Electronics & Telecommunication Engineering, Dr D.Y. Patil Institute of Technology Pimpri Pune	22 <sup>nd</sup> Jan 2024 to-27 <sup>th</sup> Jan 2024
21	Dr. Vijay Nath	Introduction to Chip Design	Dept. of Electronics, Shri Bapusaheb Shivajiraow Deore College of Engineering, Dhule, Maharashtra	Dept. of Electronics, Shri Bapusaheb Shivajiraow Deore College of Engineering, Dhule, Maharashtra	Dept. of Electronics, Shri Bapusaheb Shivajiraow Deore College of Engineering, Dhule, Maharashtra	20-21st February 2024.
22	Dr. Vijay Nath	Fundamental of Chip Designing in 5 Week Certificate Course on Chip Designing & FPGA System Design (CDFD-2024)	SoS of Electronics & Photonics, Pt. Ravi Shankar Shukla University Raipur	SoS of Electronics & Photonics, Pt. Ravi Shankar Shukla University Raipur	SoS of Electronics & Photonics, Pt. Ravi Shankar Shukla University Raipur	5th Feb 2024
23	Dr. Vijay Nath	Interactive Session on Chip Design during Hon'ble Prime Minister of India is 'Laying foundation stones for 3 Semiconductor Facilities in India'	Mahatma Gandhi Central University, East Champaran, Bihar	Mahatma Gandhi Central University, East Champaran, Bihar	Mahatma Gandhi Central University, East Champaran, Bihar	14th March 2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
24	Dr. Vijay Nath	India Tichade Chips for Biksit Bharat during Hon'ble Prime Minister of India is 'Laying foundation stones for 3 Semiconductor Facilities in India'	Department of Electronics Guru Ghasidas University Bilaspur, Chhattisgarh	Department of Electronics Guru Ghasidas University Bilaspur, Chhattisgarh	Department of Electronics Guru Ghasidas University Bilaspur, Chhattisgarh	14th March 2024
25	Dr. Vijay Nath	Chip Designing & its Applications during Hon'ble Prime Minister of India is 'Laying foundation stones for 3 Semiconductor Facilities in India'	IICs, Birla Institute of Technology Mesra Ranchi	Birla Institute of Technology Mesra Ranchi	Birla Institute of Technology Mesra Ranchi	14th March 2024
26	Dr. Vijay Nath	India Semiconductor Mission for AI based Chip Design in 5 days FDP on Artificial Intelligence in VLSI and Embedded Systems, organized by	Department of Electronics and Communication Engineering, Institute of Engineering and Management, Kolkata	Department of Electronics and Communication Engineering, Institute of Engineering and Management, Kolkata	Department of Electronics and Communication Engineering, Institute of Engineering and Management, Kolkata	24.06.2024 to 28.06.2024
27	Dr. Vijay Nath	Importance of Semiconductor in Chandrayaan-3	Doordarshan Kendra Ranchi	Doordarshan Kendra Ranchi	Doordarshan Kendra Ranchi	23rd August 2023
28	Dr. Prajna Parimita Dash	2 weeks online faculty development training on "satellite data analysis with deep learning and Python"	Eduxlabs in association with Mechanica , IIT Madras.	Eduxlabs in association with Mechanica , IIT Madras.	Online	12th March - 28th March 2024
29	Dr. Prajna Parimita Dash	Skill development workshop on "Security aspect of cyber physical systems: UAV's and Driverless cars' "	TiHAN, IIT Hyderabad	National Institute of Technology, Rourkela	National Institute of Technology, Rourkela + Online	29 April -3 <sup>rd</sup> May 2024.



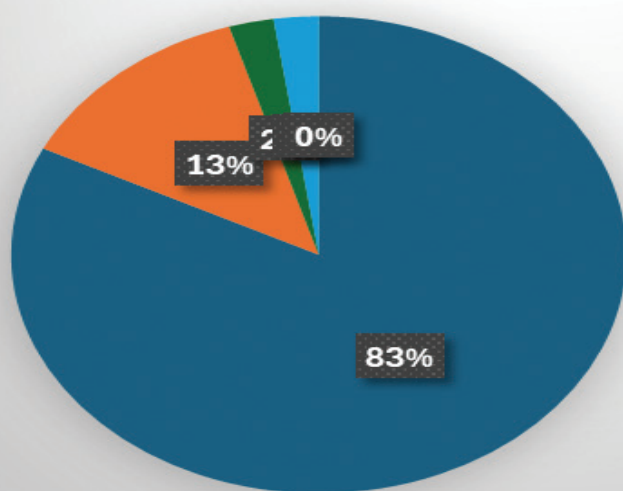
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
30	Dr. Prajna Parimita Dash	Short Term Course and Faculty Development Programme on "Applications of Machine Learning Techniques in Sustainable Technologies (AMLST-2024)"	Department of Computer Science and Engineering, and Electrical Engineering, NIT Rourkela	Department of Computer Science and Engineering, and Electrical Engineering, NIT Rourkela	National Institute of Technology, Rourkela + Online	24th January 2024 to 28th January 2024
31	Dr. Prajna Parimita Dash	4 days workshop on "Embedded DSP"	BIT Mesra	Trident Techlabs Limited, New Delhi	Dept. of ECE, BIT Mesra	19 <sup>th</sup> -22 <sup>nd</sup> February 2024.

## SECTION- 4

## RESEARCH PUBLICATIONS

SNo	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Author	Total No of Publications Chapters in Edited Book
	70	11	2	2	0

### Publication Details



- Total Num of Publication in Journals
- Total No of Publications in Proceedings:
- Total No of Publications in Books
- Total No of Publications in Books as Co-Author
- Total No of Publications Chapters in Edited Book





**SECTION- 5**

**AWARD/PATENT/COLLABORATIONS**

**1.1 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. Richa Mishra	1 <sup>st</sup> Position in Innovative ProtoypeProduct Model Display Exhibition & Competition on the occasion of “National Technology Day 24” , 8 <sup>th</sup> May 2024 organized by Institution’s Innovation Council,awarded to Research Scholar Sachin Kumar Singh.	Birla Institute of Technology, Mesra	State	2024
2	Dr. Richa Mishra	Best Paper Award at International Conference on Recent Trends in Engineering and Sciences (RTES-2024), India for paper “Feasibility study on hollow steel microneedle assembly and IOT enabled Peristaltic Pump, 29th-30th March, 2024	Birla Institute of Technology, Mesra, Ranchi.	State	2024
3	Dr. Soumya Sidhishwari	2nd best Poster presentation award in the event 4th Research Colloquium (RESCOL-IV) awarded to Research Scholar Himadri Nirjhar Mandal	Birla Institute of Technology, Mesra, Ranchi	State	2024
4	Dileep Kumar Upadhyay	Best paper award in the IEEE International Conference on Next Generation Electronics (NEleX 2023), Organized by School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu India, on 14th to 16th December 2023	School of Electronics Engineering, Vellore Institute of Technology, Vellore	State	15th December 2023

**1.2 Patents (Applied / Granted)**

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Short Description about the Patent
1	Avinash and Nisha Gupta	An Electromagnetic (EM) Wave Absorber Apparatus and Composition Thereof	202331044084 Published	2023	Design and development of a low-cost PoP-based large electromagnetic wave absorbing surface.



Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Short Description about the Patent
2	Sashi Shankar and Dileep Kumar Upadhyay	A Fractal-Based Microstrip 4x4 MIMO Antenna with Frequency Reconfigurability Between the 4G LTE-46 Band and the 5G sub-6 GHz n78 Band	Applied	10th June 2024	Design and Development of A Fractal-Based Microstrip 4x4 MIMO Antenna with Frequency Reconfigurability Between the 4G LTE-46 Band and the 5G sub-6 GHz n78 Band
3	Pankaj Kumar, Kalyan Koley, and Subindu Kumar	A System and Method for Analysing Radiation Effect on Gate-all-around Tunnel Transistor	Indian Patent Application Number 202411028791 (Published)	2024	
4	Gajendra Kant Mishra, Anisha Kiran	An IoT based multipurpose wearable spectacles	Indian Patent Application Number 202331075427A (published)	2023	IoT based multipurpose Antenna
5		An Interactive Artificial Intelligence based chilled surveillance device and method thereof	Indian Patent Application Number 202431004558A (published)	2024	AI based toy for surveillance of kids and elderly people and Military applications

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
1	ECE Society, Technical Student Club of BIT Mesra, organised a 3- days long rigorous workshop- "Analog and Digital Workshop".	Harsh Verma	Dr. S.S. Tripathy	3 days

### 6.2. List of Faculties

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1	Dr S K Ghorai	GEN	Professor	Optical Communication and Optical Sensors	PhD	26th Nov. 1990
2	Dr. Nisha Gupta	GEN	Professor	RF & Microwave	PhD	1st Feb. 1999
3	Dr. Vibha Rani Gupta	OBC	Professor	RF and Microwave	PhD	7th Jan 2000



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
4	Dr. Srikanta.Pal	GEN	Professor	RF and Microwave	PhD	15th April 2008
5	Dr Sandeep Singh Solanki	GEN	Professor	Instrumentation	PhD	21th Aug 2000
6	Dr Sanjay Kumar	GEN	Professor	Wireless Communication	PhD	2nd Aug, 2003
7	Dr. Aminul Islam	OBC	Professor	VLSI Design	PhD	1st Nov. 2006
8	Dr. Neela Chatteraj	GEN	Associate Professor	RF and Microwave	PhD	6th Aug 2001
9	Dr. Vijay Nath	OBC	Associate Professor	VLSI Design & Embedded System Design	PhD	14th July 2006
10	Dr. Sitanshu Sekhar Sahu	GEN	Associate Professor	Signal Processing, Computer Vision, AI & ML	PhD	28th Sept. 2011
11	Dr. Kartik Mahto	OBC	Assistant Professor	Instrumentation	PhD	01st April 1997
12	Mr. Vishal H Shah	GEN	Assistant Professor	Signal Processing	M.Tech	30 Oct 2006
13	Dr Sanjeet Kumar	GEN	Assistant Professor	Wireless Communication	PhD	14th July 2003
14	Dr. Dileep Kumar Upadhyay	GEN	Assistant Professor	RF and Microwave	PhD	25th Aug. 2007
15	Mr Sukanta Kumar Dash	GEN	Assistant Professor	Signal Processing, Medical Imaging, AI & ML	ME	16 August 2004
16	Dr Sanjaya Shankar Tripathy	GEN	Assistant Professor	AIML and Automation	PhD	14th july 2006
17	Dr Gajendra Kant Mishra	GEN	Assistant Professor	RF Circuit and Wireless Communication	PhD	14th July 2006
18	Dr. Somnath Sengupta	GEN	Assistant Professor	Fiber Optic Sensors, Communication and Signal Processing	PhD	14th July 2006
19	Dr. Priyank Saxena	GEN	Assistant Professor	Computer Vision, IoT, UAV Design	PhD	9th Aug. 2007
20	Dr Prajna Parimita Dash	GEN	Assistant Professor	Signal and Image Processing, AIML	PhD	29th June 2013
21	Dr. Soumya Sidhishwari	GEN	Assistant Professor	Fiber Optic Sensors & Communication	PhD	1st April 2009



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
22	Dr. Santashraya Prasad	GEN	Assistant Professor	VLSI Design	PhD	1st Nov 2008
23	Dr. Rupesh Kumar Sinha	GEN	Assistant Professor	Image Processing, Computer Vision, IoT	PhD	15th April 2008
24	Dr Kalyan Koley	OBC	Assistant Professor	VLSI	PhD	31th August 2021
25	Dr. Deepti Gola	GEN	Assistant Professor	Semiconductor Devices and VLSI	PhD	06th September 2021
26	Dr. Richa Mishra	GEN	Assistant Professor	MEMS and Microfabrication	PhD	15 Sept. 2021
27	Dr Megha Dadel	ST	Assistant Professor	RF and Microwaves	PhD	8th June 2009
28	Dr Sandeep Mukherjee	GEN	Assistant Professor	Wireless Communications	PhD	18th March 2024
29	Dr Md. Afaque Azam	GEN	Assistant Professor	Signal processing, communication & networks	PhD	9th May 2024
30	Dr. Anusha Vupputuri	OBC	Assistant Professor	Signal and Image Processing	PhD	7th June 2024
31	Dr Sourav Dutta	OBC	Assistant Professor	Communication Networks	PhD	27th June 2024

### 1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any

Sr. No.	Name	Category	Designation	Affiliation
1.	Dr S. S. Pathak	GEN	Professor	BIT Mesra

### Board of Studies

Sr. No.	Name of the Member	Designation	Role
1	Dr. S. S. Solanki	Professor, HOD, ECE Chairman (Ex-Officio)	Chairman
2	Dr. S. K. Ghorai	Professor	Internal Member
3	Dr. N. Gupta	Professor	Internal Member
4	Dr. V. R. Gupta	Professor	Internal Member
5	Dr. S. Pal	Professor	Internal Member
6	Dr. V. Nath	Associate Professor	Internal Member
7	Dr. Kartik Mahto	Assistant Professor	Internal Member
8	Dr. S. K. Rout	Professor	Internal Member
9	Dr. T. Ghosh	Professor	Internal Member



Sr. No.	Name of the Member	Designation	Role
10	Dr. Shahiruddin	Assistant Professor ,In charge, Dept. of ECE, Patna	Internal Member
11	Dr. Sanjaya Kumar	Associate Professor, In charge, Dept. of ECE, Deoghar	Internal Member
12	Mr. Ankur Agarwal	Assistant Professor , In charge, Dept. of ECE, Jaipur	Internal Member
13	Atharv Kapre	M.Tech 1 <sup>st</sup> Yr. student (Roll no: MT/EC/10002/20)	Internal Member
14	Shashank Kumar	B.Tech.1 <sup>st</sup> Yr. student (BTECH/10056/20)	Internal Member
15	Dr. Umesh Chandra Pati	Professor, NIT, Rourkela	
16	Dr. Manoj Kumar Meshram	Professor, IIT, BHU	External Member
17	Dr. Goutam Saha	Professor, IIT, Kharagpur	External Member
18	Dr. Brajesh Kumar Kaushik	Professor, IIT, Roorkee	External Member
19	Dr. Nandita Dasgupta	Professor, IIT, Madras	External Member
20	Dr. Suvra Sekhar Das	Associate Professor, G.S Sanyal School of Telecommunication, IIT, Kharagpur	External Member
21	Sanjaya Nayak	CEO & MD, Tejas Network	External Member
22	Subhas Basu	CEO, Silicon Interfaces Pvt. Ltd	External Member
23	Parikshit Dutta	Sr. RF Engineer, Knowles Corporation, Bengaluru	External Member

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Achievements of Students :**

Sr. No	Name of Student <i>with Roll Number</i>	Achievement/Position/ Award etc	Organised by	Date and Venue
	Sashi Shankar, (PhD/EC/10002/2017)	Best Paper Award	2023 International Conference on Next Generation Electronics (NEleX), Vellore, India, 2023	14-16 Dec. 2023
2.	Mr. Soumak Nandi (BTECH/10378/20)	Successfully secured admission to the prestigious University of Illinois for his Ph.D. program.	University of Illinois	2024
3	Ms. Chhavi Rani (BTECH/10405/21)	Successfully secured an internship at the renowned Indian Space Research Organisation (ISRO) in Sriharikota.	Indian Space Research Organisation (ISRO)	2024







### 7.3 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Prof. Ramjee Prasad	<p>Ramjee Prasad is currently the Director of the Center for TeleInfrastruktur (CTIF) at Aalborg University, Denmark and Professor, Wireless Information Multimedia Communication Chair.</p> <p>Ramjee Prasad is the Founding Chairman of the Global ICT Standardisation Forum for India (GISFI: <a href="http://www.gisfi.org">www.gisfi.org</a>) established in 2009. GISFI has the purpose of increasing of the collaboration between European, Indian, Japanese, North-American and other worldwide standardization activities in the area of Information and Communication Technology (ICT) and related application areas. He was the Founding Chairman of the HERMES Partnership – a network of leading independent European research centres established in 1997, of which he is now the Honorary Chair.</p> <p>He is the founding editor-in-chief of the Springer International Journal on Wireless Personal Communications. He is a member of the editorial board of other renowned international journals including those of River Publishers. Ramjee Prasad is a member of the Steering, Advisory, and Technical Program committees of many renowned annual international conferences including Wireless Personal Multimedia Communications Symposium (WPMC) and Wireless VITAE. He is a Fellow of the Institute of Electrical and Electronic Engineers (IEEE), USA, the Institution of Electronics and Telecommunications Engineers (IETE), India, the Institution of Engineering and Technology (IET), UK, and a member of the Netherlands Electronics and Radio Society (NERG), and the Danish Engineering Society (IDA). He is also a Knight (“Ridder”) of the Order of Dannebrog (2010), a distinguished award by the Queen of Denmark.</p>
2	Prof. Suvra Sekhar Das	<p>Suvra Sekhar Das received the B.Eng. degree in electronics and communication engineering from the Birla Institute of Technology, Ranchi, India, in 2000, and the Ph.D. degree from Aalborg University, Aalborg, Denmark, in 2007. He was a Senior Scientist with the Innovation Laboratory, Tata Consultancy Services from 2000 to 2008. He is currently a Professor and Head of the department at the G. S. Sanyal School of Telecommunications, IIT Kharagpur. His research interests include cross-layer optimization of mobile broadband cellular networks.</p>

### 7.4 Best Thesis Project (UG/PG) :

1. Jyoti Singh, MT/EC/10006/22, Design & Analysis of Low Noise Amplifier & its applications
2. Soumak Nandi, BTECH/10378/20, Study and Analysis of Advanced-Field-Effect Transistors.
3. Sai Ishwaram, BTECH/10302/20, Performance Analysis of Dielectric and Work Function Modulated TFET.
4. Nishant Biyani, BTECH/10507/20, Performance Analysis of Hetero-Stacked Source Dual Metal Gate Tunnel Field-Effect Transistor.

### 8. Infrastructure Development.

1. DST FIST sponsored Sensor Fabrication lab

## Department of Electrical and Electronics Engineering

### SECTION 1

### DEPARTMENTAL PROFILE



#### 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 Ph.D. in Engineering. CBCS Course Structure has been implemented from MO/2018 offering B.Tech. and M.Tech. in 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 utilizing 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 purpose. Many major equipment, such as 3 and 5 kW Solar photo voltaic with Grid-tied inverters, Solar and wind emulators, 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, several numbers 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, and Drive labs.

### 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 inter-disciplinary fields.

### Mission

- Imparting strong fundamental concepts to students and motivate them to find innovative solutions to engineering problems independently.
- Developing engineers with managerial attributes capable of applying appropriate technology with responsibility.
- Creation of congenial atmosphere and ample research facilities for undertaking quality research to achieve national and international recognition by faculty and students.
- To strive for internationally recognized publication of research papers, books and to obtain patent and copyrights.
- To provide excellent technological services to industry for the benefit of society.

**Established Year: 1955**

#### 1.1 Courses Offered and Approved Intake:

Programme	B.Tech. (EEE)	M. Tech. (Electrical Engineering)	M.Tech. (EVT)
Approved Intake	60	30	30

#### 1.2 Thrust Areas of the Department:

Microgrids	Cyber-physical system
Battery Management System	Brain signal processing
Autonomous Ground Vehicle	Image processing
Blockchain-Based cyber secured Energy Management System	Unmanned aerial vehicle (UAV)
Electric vehicle and charging infrastructure	Wide bandgap power converter

#### 1.3 Number of Faculties: 20











combines compact size and low system costs with high performance and versatility.

- **WAVECT:** It is a one of the Fastest, most versatile and universal rapid control prototyping platform for Motor Control Drives
- **BCI System:** The BCI system consists of a cap equipped with electrodes that monitor activity in specified areas of the cerebral motor cortex. The EEG machine reads the signals, and with the interfacing software, features are extracted that relays it to the BCI, where a brain wave analysis algorithm interprets the user's class of MI. Then the system converts this data into a signal and relays it to intelligent system.
- **CRIO DAQ:** CompactRIO systems provide high-performance processing capabilities, sensor-specific conditioned I/O, and a closely integrated software toolchain that make them ideal for Industrial Internet of Things, monitoring, and control applications. The real-time processor offers reliable,

predictable behavior, while the FPGA excels at smaller tasks that require high-speed logic and precise timing.

- **3-phase Power Analyzer:** The 3-phase-power meter / 3-phase power analyzer is able to perform current, voltage and power measurements in 3-phase systems. By using appropriate transducers, it is also possible to measure high currents and voltages with the 3-phase-current meter.
- **DSPACE 1104:** It a cost-effective entry system with I/O interfaces and a real-time processor on a single board that can be plugged directly into a PC. The system is ideal for developing smaller control applications and for educational purposes.
- **Typhoon HIL:** It's a real time emulator used for real time control. This is also used for large number of Power System Bus network analysis. It can be integrated with physical systems like relays, power converters etc. for HIL applications.

### 1.6 Number of Projects in the Last Five Years.

Sl No	Project Title	PI/CoPI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount in (Lakhs)	Duration of Project
1	Design of IoT Based Energy Management System Using Cloud Computing Platform	Dr. Aftab Alam	SERB-DST	1 May 2019	38.70	3 Years (2019-2022 )
2	Analysis, Design and Verification of coordinated control for laboratory prototype hybrid AC-DC microgrid with IoT based cloud computation platform	Dr. T. Ghose	RPS-AICTE	1 November 2019	10.50	3 Years (2019-2022 )
3	Secured Data Analytics for Microgrid Energy Management System Through Blockchain Technology	Dr. Deepak Kumar	SERB-Core Research Grant, DST	24 January 2022	25.21	3 Years (2022-2025)





## 1.8 Activities of Department

### SECTION 2

### RESEAHPROJECS

#### 2.1 Sponsored Projects (Research and Consultancy)

##### a) Ongoing Projects :

Sr No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Secured Data Analytics for Microgrid Energy Management System through Blockchain Technology	Dr. Deepak Kumar (PI) Dr. T. Ghose (Co-PI) Dr. Shamama Anwar (Co-PI)	DST-SERB	12.01.2022	Rs. 25,21,464/-	24.01.2022 to 23.01.2025
2.	Test Bench Development for investigating the performance of Battery Energy Storage System as ancillary services.	1. Prof. T.Ghose (PI) 2. Dr. Debomita Ghosh (PI) 3. Dr. Junaid Akhtar (PI)	Eastern Regional Load Despatch Center (ERLDC), Ministry of Power	04.12.2023	Rs. 34,22.460/- +GST	04.12.2023-03.12.2024
3	Brain Signal Controlled Wheel Chair	Dr. P. K.Upadhyay	Indian Council of Medical Research (ICMR)	1 April 2023	Rs. 31,01000/-	01.04.2023 to 31.03.2026
4	Adaptive irrigation management system using sustainable energy	Dr. Debomita Ghosh (PI) Dr. T. Ghose (Co-PI)	Coal India Limited	February 2023	Rs. 20,06000/-	06/02/2023-06/12/2024
5.	Data Driven Smart Energy Management of Micro-Grid based Cyber Physical System for Precision Agriculture (Data science, Big Data Analytics and Data curation)	Dr.S.K.Mishra	NM-ICPS, DST, BIT as one of the two spokes ( where ISI, Calcutta as Technology Innovation Hub)	Aug-2020	Rs.464000	Aug-2020 to July-2024





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
5.	S Shiva Kumar	Recent Advances in Control and Instrumentation Design Techniques of Robotic Systems	National Institute of Technology, Tiruchirappalli.	National Institute of Technology, Tiruchirappalli.	National Institute of Technology, Tiruchirappalli	27.10.2023 to 31.10.2023
6.	S Shiva Kumar	Intelligent Techniques for Integration of Renewable Energy, Electric Vehicle and Energy systems	Coimbatore Institute of Technology, Coimbatore	Coimbatore Institute of Technology, Coimbatore	Coimbatore Institute of Technology, Coimbatore	05-09-2024 to 09-09-2024

**SECTION- 4**

**RESEARCH PUBLICATIONS**

**4.1 Publications :International/National**

s.NO	Total No of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	32	29	0	01	08

**SECTION- 5**

**AWARD/PATENT/COLLABORATIONS**

**5.1 Patents (Applied / Granted)**

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent(Max 50 words)
1	Abdullah Umar Dr. Deepak Kumar Dr. T. Ghose	A decentralized peer-to-peer energy trading system for a community microgrid and method thereof	202431051818 (PAT199/0112/24)	2024	The invention is a conceptual design framework for energy management by enabling direct peer-to-peer trading within local communities of the Smart City.
2	Gauri Shanker Gupta Deepak Kumar Mukesh Sharma Abdullah Umar	Dust Collection And Suppression Device	396126-001 and 26/09/2023	2023	This invention is a conceptual design for coal mines area for improving the environment.







Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent(Max 50 words)
8	Priya Dubey, Surendra Kumar, Subhendu Kumar Behera, Jagannath Sethi, Manoj Kumar Mukul, Sudhansu Kumar Mishra	Artificial Intelligence based Skin Cancer Inspection Device	Number: Application Number: 396071-001, Cbr Number: 212056, Indian Design Patent, Date: Filed on September 26, 2023, Published and Granted. On October 27,2023	2023	
9	Ankit Kumar, Abhishek Thakur, Sudhansu Kumar Mishra, Subrat Kumar Swain, Sitanshu Sekhar Sahu	An Autonomous Vehicle Navigation System and Method Thereof	Number: Application Number: 202331066870, Indian Design Patent, Date: Filed on October 5, 2023. Published: On November 03, 2023	2023	

## 5.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	ERLDC & BIT Mesra	Test Bench Development for investigating the performance of Battery Energy Storage System as ancillary services.	04.12.2023/ 04.12.2023-03.12.2024
2	Coal India Limited & BIT Mesra	Adaptive Irrigation management system using sustainable energy	06/02/2023/ 06.02.2023 - 06.12.2024
3	University of Windsor (UOW), Engg Department, Canada,	Design of Intelligent Controller. Dr. Xiang Chen: xchen@uwindsor.ca, Intelligent Control.	





Sl. No.	Name	Category (GEN/ SC/ST/ OBC/ PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
10.	DR. SUSHMA S. KAMLU	General	ASSISTANT PROFESSOR	Control System	Ph.D.	05-07-2007
11.	DR. SUBRAT KUMAR SWAIN	General	ASSISTANT PROFESSOR	Control System	Ph.D.	16.04.2015
12.	DR. DEEPAK KUAMR	General	ASSISTANT PROFESSOR	Power System	Ph.D.	01-06-2015
13.	MD. AFTAB ALAM	General	ASSISTANT PROFESSOR	Power Electronics	Ph.D.	29-06-2015
14.	DR. S. SHIVA KUMAR	OBC	ASSISTANT PROFESSOR	Power Electronics	Ph.D.	04-10-2016
15.	DR. P.K. UPADHYAY	General	ASSISTANT PROFESSOR	Cloud Computing	Ph.D.	14-07-2003
16.	DR.PANKAJ MISHRA	General	ASSISTANT PROFESSOR	Power System	Ph.D.	13-07-2009
17.	DR. DEEP SHEKHAR ACHARYA	General	ASSISTANT PROFESSOR	Control System	Ph.D.	03-02-2010
18.	DR. MD. JUNAID AKHTAR	General	ASSISTANT PROFESSOR	Power Electronics	Ph.D.	17-08-2021
19.	DR. SOURABH PAITANDI	General	ASSISTANT PROFESSOR	Power Electronics	Ph.D.	24.05.2024
20.	DR. CHAMAN LAL DEBANGAN	OBC	ASSISTANT PROFESSOR	Power System	Ph.D.	03.06.2024

### 6.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	HOD	Ex-officio	Chairman Internal Member
2.	Dr. R.C. Jha	Professor	Internal Member
3.	Dr. T. Ghose	Professor	Internal Member
4.	Dr. (Mrs.) Vijaya Laxmi	Professor	Internal Member
5.	Dr. Sudhansu Kumar Mishra	Assistant Professor	Internal Member
6.	Dr. Deepak Kumar	Assistant Professor	Internal Member
7.	Dr. S.S. Solanki, Dept. of ECE	Professor	Internal Member
8.	Dr. V.K. Jha, Dept. of CSE	Associate Professor	Internal Member
9.	Dr. Piyush Kumar Ojha, BIT Deoghar	Assistant Professor	Internal Member
10.	Dr. Mayank Singh, BIT Patna	Assistant Professor	Internal Member
11.	Prof. Amitava Chatterjee, Department of Electrical Engg., Jadavpur University	Professor	External Member



Sr. No.	Name of the Member	Designation	Role
12	Prof. Anup Kumar Panda, Department of Electrical Engg., NIT Rourkela	Professor	External Member
13	Prof. Nilanjan Senroy, Department of Electrical Engg., IIT Delhi	Professor	External Member
14	Mr. Partha Pratin Sen, Electrical MECON	Chief General Manager (CGM)	External Member
15	Mr. Chandan Kumar, ERLDC, Grid Controller of India Limited.	Chief Manager (Oper. Planning), Vigilance, Coordinating Officer, System Operation (SO)	External Member
16	Mr. Atul S Abhyankar, Power Electronics Division, LTTTS Bangalore	Head	External Member
17	Dr. Ranjan Kumar Behera, Department of Electrical Engineering, IIT Patna	Associate Professor	External Member

## SECTION- 7

## OTHER INFORMATION

### 7.1 Publication by Students

#### Publications in Journals : (International/National) :

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Abhishek Thakur, <b>Ankit Kumar</b> , Sudhansu Kumar Mishra, Subhendu Kumar Behera, Jagannath Sethi, Sitanshu Shekhar Sahu, Subrat Kumar Swain	Product Length Predictions with Machine Learning: An Integrated Approach using eXtreme Gradient Boosting	SN Computer Science, Springer	5	-	2024





**Publications in Proceedings: (International/National) :**

S.No.	Author(s)	Title	Name of the Conference	Volume	Page	Year
1.	Abhishek Thakur , <b>Ankit Kumar</b> , Sudhansu Kumar Mishra, Subrat Kumar Swain , Subhendu Kumar Behera	Optimizing Lateral Motion Control of an Autonomous Ground Vehicle using Modified Particle Swarm Optimization with Model Predictive Controller	2nd International Conference on Computer, Electronics, Electrical Engineering and their Applications	-	-	2024
2	<b>] Ankit Kumar</b> , Abhishek Thakur, Sudhansu Kumar Mishra, Subrat Kumar Swain	LDCCAES: A Concomitant Perception Methodology Facilitating Real-Time Detection and Estimation of Median- Lane Positioning of Prototype Autonomous Vehicle	4th International Conference on Data Sciences and Applications(	-	-	2023

**7.2 Achievements of Students :**

Sr. No	Name of Student with Roll Number	Achievement/Position/ Award etc	Organised by	Date and Venue
1	Swarali Pujari , (MT/EE/10016/21)	Grid India Power System Award (GIPSA)-2024, Award for M.Tech Thesis	Grid India in collaboration with IIT Delhi	18/12/2023, IIT Delhi
2	Tanmay Raj BTECH/10410/21	First Prize in Hatch From Scratch	IET BIT MESRA	16 October,2023, BIT MESRA
3	Tanmay Raj BTECH/10410/21	Second Runner up in E-BAJA SAEINDIA 2024	E-BAJA SAEINDIA	6 March 2024 – 9 March 2024 Hyderabad
4	Saurabh Pandey BTECH/10580/22	Second Runner up in E-BAJA SAEINDIA 2024	E-BAJA SAEINDIA	6 March 2024 – 9 March 2024 Hyderabad
5	Aashish Ranjan BTECH/10651/22	First in SPP	EEESOC	16 December 2024 – 16 January 2024
6	Priyanshu Ranjan BTECH/10612/22	First in SPP	EEESOC	16 December 2024 – 16 January 2024
7	Sarthi Itankar BTECH/10700/22	Second in SPP	EEESOC	16 December 2024 – 16 January 2024
8	Snehankur Saha BTECH/10387/22	Third in SPP	EEESOC	16 December 2024 – 16 January 2024
9	Shivam Kumar BTECH/10476/22	Third in SPP	EEESOC	16 December 2024 – 16 January 2024
10	Prem Kumar Lohani BTECH/10758/22	Third in SPP	EEESOC	16 December 2024 – 16 January 2024



## 7.3 Students Placed for the Academic Years

Bachelors		Masters		PhD	
Name, Roll No	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Aviral Chaurasia BTECH/10590/20	PWC India, Gurugram 8B, Haryana, 122010.	Sarthak Kumar Swain MTECH / 10005 / 22	Hyundai Motors	Niteesha Kumari (PHD/ EE/10051/17)	Larsen & Turbo
Shashwat Sinha BTECH/10324/20	Tata Consultancy Services (TCS)			Sonal (Ph.D./ EE/10001/2019)	BIT Mesra, Deoghar Campus
Ayush Shukla BTECH/10173/20	NPCI			Sourav Kr. Sahu (Ph.D./EE/ 10052/2017)	Magna Steyr, Pune
Abhijeet Singh, BTECH/10649/20	Axis Bank			Rajdip Debnath (PHD/ EE/10053/2020)	GE Renewable Energy Technologies Pvt. Ltd.
Pushkal Kishore, BTECH/10170/20	Truminds Software Systems , Gurgaon			Priya Dubey (PHD/ EE/10051/2020)	Skillup Online
Ohm Gupta, BTECH/10283/20	ZS Associates			Abhinandan Kumar PhD/ EE/10003/2018	NMIT Bangalore
Aruj Jain, BTECH/10255/20	Power Control And Equipments			Anant Milan Khalkho PhD/ EE/10002/2018	NIT Uttarakhand
Ashish Ranjan, BTECH / 10245 / 20	Nvidia Inc, Bagmane World Technoloy Center, Mahadevapura, Bangalore, Karnataka			Shubranil Das PHD/ EE/10002/2019	MIT World Peace University, Pune
Suraj Gorai, BTECH/10289/20	British Telecom, RMZ Ecoworld, Bengaluru -560103				
Swayanshu Mohapatra, BTECH/10321/20	PwC India				
Uday Narayan Samanta, BTECH / 10060 / 20	Price Waterhouse Cooper India, Bengaluru				
Rishav Kumar Gupta, BTECH / 10364 / 20	PwC India				
SUSHANTO KUMAR DAS, BTECH/10133/20	PwC India				



Bachelors		Masters		PhD	
Name, Roll No	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Shubham Patra, BTECH/10254/20	Aditya Birla Group				
Veerabattula Dhaneswar, BTECH/10366/20	Walmart Global Tech				
Abhishek Kumar, BTECH/10368/20	Tata steel Utility and Infrastructue Limited (UISL) Jamshedpur				
Kshitij Raj, BTECH/10042/20	Walmart Global Tech				
Souhardya Chatterjee, BTECH/10369/20	SiemensEDA				
Shashank Kumar Singh, BTECH/10369/20	Delhivery				
Kishaloy Kar Chowdhury, BTECH/10581/20	Truminds Software Systems , Gurgaon				
Harmanpreet Singh, BTECH/10434/20	Price water house Coopers (PwC), 411006, Pune, Maharashtra				
Anshu Aman , BTECH/10370/20	Tata Consulting Services,				
Samridhi, BTECH/10389/20	Upstox				
Bodhisatwa Bhattacharya, BTECH/10322/20	Futures First				
Vaishnav Khare, BTECH/10353/20	PwC India, Gurugram 8B, Haryana, 122010.				
keshav choudhary, BTech/10180/20	National Payments Corporation of India 1001A, B wing, 10th Floor, The Capital, Bandra-Kurla Complex, Bandra (East), Mumbai - 400 051				



Bachelors		Masters		PhD	
Name, Roll No	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Vaibhav Mishra, BTECH/10514/20	Britannia Industries Limited, Mhadevapura Post, Bengaluru-560048				
Ayushman Dutta, BTECH/10062/20	GlobalLogic, Noida				
Ankur Pandey, BTECH/10363/20	Labra				
Kathi Sathwika, BTECH/10687/20	Mahindra & Mahindra Ltd, Mahindra Towers, Akurdi Road, Kandivali (East), Mumbai 400101 India(OFF CAMPUS)				
sumedh Dhengre, BTECH/10362/20	Imperial India Consultant, Nagpur				
Rajan Kumar, BTECH/10435/20	Khatabook, Bengaluru				
Ishan Pandey, BTECH/10703/20	Zscaler, Mohali				
Aayush Manoj Sinha, BTECH/10592/20	PwC, Noida				
Ankit Aadarsh, BTECH/10323/20	PwC, Noida				
Yash Raj, BTECH/10465/20	Dixon Technologies India limited, phase-2, Noida, Uttar Pradesh				
Divnoor Singh Chugh, BTECH/10325/20	Global Logic, Varthur Hobli, 560103, Bangalore				
Hrishita Upadhyay, BTECH/10358/20	ZS ASSOCIATES, Tower 3, World Trade Centre, Pune-411014				
Sansu Lal, BTECH/10723/20	Aditya Birla Group, Worli, Mumbai -400030				



Bachelors		Masters		PhD	
Name, Roll No	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Sone Priya, BTECH/10127/20	Bain Capability Network(Bain & Co.)				
Harsh Anand Agarwal, BTECH/10655/20	Futures First				
Shreya Kumari, BTECH/10529/20	Grid Dynamics				
Shubham Patra, BTECH/10254/20	Aditya Birla Group, Worli, Mumbai -400030				
Aryan Kumar, BTECH/10414/20	Atlassian, Embassy Golf, Links Business Park, Banglore-560071				

## 7.5

### 7.4 Students Gone for Higher Studies for the last five years.

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
RICHA RAJ, BE/10055/16	IIM AHMEDABAD	Raj Kumar Mahto MTech/10003/22	PhD pursuing in IIT BHU	Sumit Kumar Jha Ph.D./EE/10001/2016	IIT Bhubaneswar
SHIKHA ARUNIMA LAKRA BE/10111/16	Tata Institute of Social Sciences	Shipra Priyadarshini MTech/10001/22	PhD pursuing in NIT Rourkela		
POTTA NAGA TEJASWANI BE/10192/16	North State University, Boston	Dhananjay Roy MTECH/10006/22	PhD pursuing in BIT Mesra		
NIKITHA JUNUTHULA REDDY BE/10254/16	Arizona State University, USA	Vineeta kumari MTECH/10003/22	KK Polytechnic (Joined as Faculty)		
ASHMIKA BE/10296/16	UC Sandiego Jacob School of Engineering	Debanjan Bhaskar MT/EE/10019/21	Tata motors Pune		
AKASHLEENA SARKAR BE/10329/16	University of California	Sambit Mukherjee MT/EE/10005/21	TOLARAM		





Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SAHARSH BE/10547/16	IISC ,BANGALORE	Suman Nag MT/ MT/EE/10003/21	IIT DHANBAD		
VIPLAW KUMAR BE/10077/17	IIT MUMBAI	Sweta Pallavi MT/EE/10014/21	NIT Rourkela		
AMAN SINHA BE/10212/17	university of utah	ABHAY KUMAR MT/EE/10020/20	PHD, IIT Dhanbad		
AMLAN GAIN, BTECH/10460/18	IIM Udaipur	SHUBHAM TIWARI MT/EE/10025/20	PHD, BITS PILANI		
		DIVYANGI GYANI MT/EE/10035/20	PHD,BIT MESRA		
		NILIMA GADKAR MT/EE/10005/20	NIT, ROURKELA		
		SHRUTI PRAJAPATI MT/EE/10004/19	PHD, DTU, Delhi		
		PRITY MT/EE/10006/19	PHD, BIT MESRA RANCHI		
		SOUVIK BERA MT/EE/10012/19	IIT,Gandhinagar		
		ABHISHEK THAKUR MT/EE/10025/19	PHD, BIT MESRA RANCHI		
		MONIKA RANI MT/EE/10030/19	PHD, BIT MESRA RANCHI		

## 8. Infrastructure Development

- Tiles flooring and False ceiling in Machine lab, Power Electronics Lab, Research Lab, and EEE Office.
- Tiles flooring for Store Room, BCI Lab

## 9. Special Initiatives, if any:

- Revision of course curriculum as per the guidelines of NEP 2020.
- Development of DC circuit breaker has been initiated with L&T Technology services.
- R&D collaboration with Orient Electric in the field of BLDC motor control.



## Department of Hotel Management & Catering Technology

### SECTION 1

### DEPARTMENTAL PROFILE



#### 1. About the Department:

Department of Hotel Management & Catering Technology of BIT MESRA was established in January-2003. Department offers 4 years (8 Semester) bachelor's degree in Hotel Management & Catering Technology (BHMCT). The program lays emphasis on practical application of theoretical lessons through training, laboratory work, hands on workshops, theme parties, project and study tour. The department has a well-qualified team of faculty members with a blend of sound industry experience in India and overseas, and academic excellence, who are consistently involved in various training, consultancy and research activities. The faculty members put in immense effort for both academic and practical training of the students.

Department is well equipped with training kitchen and bakery, training restaurant, housekeeping laboratory, laundry laboratory, front office laboratory etc. which ensure practical training in a professional environment to students.

Department has biannual double blind refereed, research journal JOHAR- Journal of Hospitality Application and Research published in association with Publishing India Group which is indexed in ABDC, ProQuest, i-scholar and Sci-Archives.

Department has its own departmental club 'Hospitality Club' solely managed by students which hones their managerial and entrepreneurial skills required in the hospitality industry. As a regular feature department organizes various workshops, theme parties,





2. Commencement of PhD in hospitality and tourism in collaboration with the Department of Management.
3. Launch of Integrated MBA jointly with the Department of Management.
4. Organised MDP for Managers of hotels under JTDC, Govt. of Jharkhand.

### 1.9 Activities of Department

1. Organised Food Festival (Abua Dishom), Industrial Visit, Educational Excursion, & Workshops for students on various themes.
2. Conducted engaging session with school children of class 11 & 12 on New Education Policy and career prospects.

## SECTION 2

## RESEARCH PROJECTS

### 2.1 Sponsored Projects (Research and Consultancy)

#### A) Consultancy Projects carried out/ongoing

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	Excellence in Tourism & Hospitality Service. (Management Development Program – Consultancy)	Directorate of Tourism, Govt. of Jharkhand.	09.10.2023	19.10.2023	5,48,700	Coordinator: Nishikant Kumar; Co-coordinator: Abhinav Kumar Shandilya, Anand Kumar	Completed.

## SECTION- 3

## SEMINAR/CONFERENCE

### 3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted :

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	MDP: Excellence in Tourism and Hospitality Service	Coordinator: Nishikant Kumar; Co-coordinator: Abhinav Kumar Shandilya, Anand Kumar	Directorate of Tourism, Govt. of Jharkhand	09.10.23 - 19.10.23
2	Recent Trends in Engineering and Sciences (RTES-2024)	Gautam Shandilya - Treasurer	Rajbhasha Prakoshtha, Birla Institute of Technology, Mesra, Ranchi.	29.03.2024 – 30.03.2024



Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
3	Vegetable and Fruit Carving and Contemporary Salad	Gautam Shandilya - Coordinator	Department of Hotel Management & Catering Technology	09.02.2024

### 3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Abhinav Kumar Shandilya	International Conference - 19th GJ-NatConMITE 2023: Embracing Change & Transformation	Gian Jyoti Institute of Management and Technology	Gian Jyoti Institute of Management and Technology	Mohali, Punjab (Hybrid mode)	22.07.23
		International Conference - Recent Advances in Science and Engineering (RAiSE - 2023)	Manipal Academy of Higher Education	Manipal Academy of Higher Education	Dubai (Hybrid mode)	04.10.2023 - 05.10.2023
		International Conference - Innovation and Regenerative Trends in Tourism and Hospitality Industry 2024 (IRTTHI - 2024)	Chandigarh University	Chandigarh University	Mohali, Punjab (Hybrid mode)	14.03.24 - 16.03.24
2	Dr. Praveen Srivastava	ICHSP 2024 International Conference on Happiness Science and Practices	BIT	IIM, Ranchi in association with Rekhi Foundation	IIM, Ranchi	05.01.2024-06.01.2024
		8 <sup>th</sup> International Conference on Mathematics model and computational technique in Science and Engineering, Athens, Greece	Self	Hellenic Naval Academy, Greece. Technical University of Sofia, Bulgaria.	Online	01.06.2024 – 03.06.2024



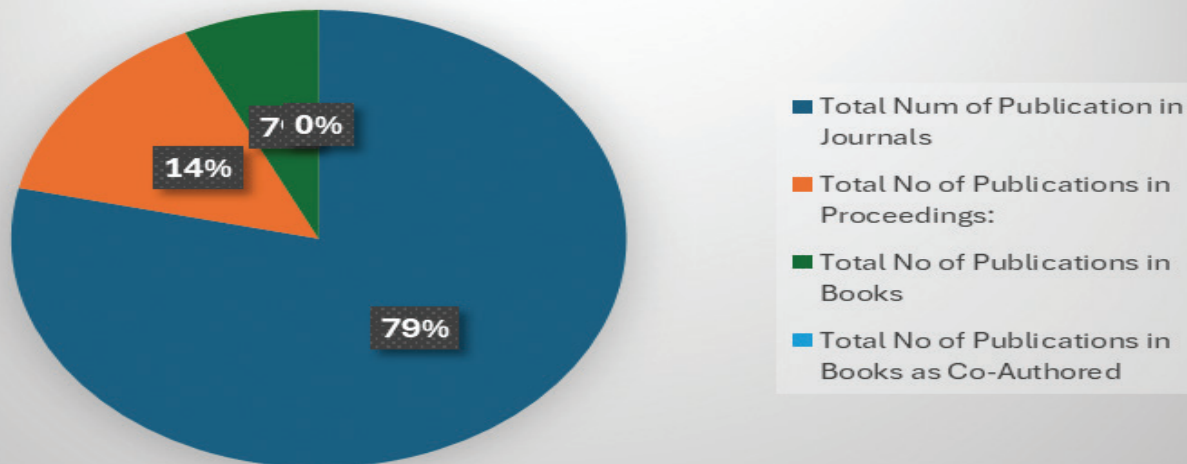


Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
		4th International Conference on the Role of Innovation, Entrepreneurship and Management for Sustainable Development (ICRIEMSD-2023)	Self	OP Jindal University in association with Sohar University, Oman, and Jose Maria College Philippines.	Online	03.011.24 – 04.11.2024
		Faculty Development Program on NEP – 2020 Orientation and Sensitization under Malaviya Mission Teacher Training Program (MM-TTP) of University Grant Commission (UGC)	BIT	Malaviya Mission Teacher Training Centre, University of Hyderabad (MMTC-UoH)	Online	18.03.24 – 26.03.24
		Faculty Development Program on Indian Knowledge System (IKS) in Higher Education	BIT	Jharkhand Rai University, Ranchi in association with Research Culture Society	Online	25.09.23 – 30.09.23
3	Dr. Nishikant Kumar	FDP on Re-designing the Future of Hospitality & Tourism Education and Research	Self	Amity University, Kolkata	Online	01.07.2024 – 05.07.2024
		Leveraging Tourism to promote Cultural Preservation and Heritage	Self	Jharkhand Rai University, Ranchi	Hybrid	09.04.2024
		FDP on Quality and Technological Enhancement in Teaching & Research	Self	OM Sterling Global University, Hisar, Haryana	Hybrid	29.01.2024 -02.02.2024
		Redefining Tourism Through G20's Key Priority Areas (KPAs)	Self	Department of Tourism and Hospitality Management, Mizoram University, Aizwal	Hybrid	18.05.2023- 1.05.2023





## Publication Details



### SECTION- 5

### AWARD/PATENT/COLLABORATIONS

#### 1.1 Award / Recognition Bestowed on Facultyies :

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Abhinav K Shandilya	Best paper Award	Gian Jyoti Institute of Management and Technology	National	2023

### SECTION- 6

### Activities/Faculty Members/DOS/DAS

#### 6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Basanti Vyanzan Utsav		Dr. Pranjal Kumar Dr.Nishikant Kumar	22.03.2024
2	ABUA DISHOM' Jharkhand Food Festival		Dr. Pratima Ekka Mr. Sanjeev Srivastava	09.03.2024 to 11.03.2024
3	Workshop on Fancy cakes		Mr. Rajesh Langiya	12.02.2024





### 1.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1.	Dr. Abhinav Kr. Shandilya	HOD - (Ex-Officio)	Chairman
2.	Dr. Praveen Srivastava	Asst. Professor, Dept. of HMCT	Internal Member
3.	Dr. Nishikant Kumar	Asst. Professor, Dept. of HMCT	Internal Member
4.	Dr. Abhisek Jana	Asst. Professor, Dept. of HMCT	Internal Member
5.	Mr. Sanjiv Kr. Srivastava	Asst. Professor, Dept. of HMCT	Internal Member
6.	Dr. Amit Saran	Asst. Professor, Dept. of HMCT	Internal Member
7.	Mr. Gautam Shandilya	Asst. Professor, Dept. of HMCT	Internal Member
9.	Prof. Shradha Shivani	Professor, Dept. of Management	Internal Member
10.	Dr. Saswati Ghosh Sachin	Asst. Professor, Dept. of Bioengineering	Internal Member
11.	General Manager, Hotel Radisson Blu, Ranchi	(Ex-Officio)	External Member (Any Two)
12.	General Manager, JTDC, Ranchi	(Ex-Officio)	External Member (Any Two)
13.	General Manager, Chanakya BNR Hotel, Ranchi	(Ex-Officio)	External Member (Any Two)
14.	Principal, IHM Hazipur, Bihar	(Ex-Officio)	External Member (Any Two)
15.	General Manager, Capitol Residency, Ranchi	(Ex-Officio)	External Member (Any Two)
16.	Convenor, INTACH, Jharkhand	(Ex-Officio)	External Member (Any Two)
17.	Director, Airport, Ranchi	(Ex-Officio)	External Member (Any Two)

#### SECTION- 7

#### OTHER INFORMATION

### 7.1 Students Placed for the Academic Years

Bachelors	
Name, Roll Number	Organization
Shriya Mankotia BHMCT/10001/19	Renaissance Bangeluru
Roshan Kumar Jha BHMCT/10002/19	Jubilant FoodWorks Ltd.
Aditya Chauhan BHMCT/10003/19	The Cliffs
Vishal Singh BHMCT/10004/19	Jubilant FoodWorks Ltd.
Amrit Sagar BHMCT/10006/19	Speciality Restaurants Ltd
MD Soban BHMCT/10008/19	Bengaluru Marriot Hotel Whitefield
Sharique Khursheed BHMCT/10009/19	Marriot
Prateek Thapa	Marriot
Abhishek Kumar BHMCT/10012/19	Speciality Restaurants Ltd



Bachelors	
Mobashshir Ashraf BHMCT//10014/19	Fortune Dubai
Ankit Priyadarshi BHMCT/10015/19	Jubilant FoodWorks Ltd.
Ankit Priyadarshi BHMCT/10015/19	Speciality Restaurants Ltd
Priyanshu Prakash BHMCT/10016/19	Jubilant FoodWorks Ltd.
Utkrist Singh BHMCT/10018/19	Bengaluru Marriott Hotel Whitefield
SnehaVerma BHMCT/10019/19	NoBroker Technologies Solutions Private Limited
Brajesh Dubey BHMCT/10020/19	Jubilant FoodWorks Ltd.
Brajesh Kr Dubey BHMCT/10020/19	Speciality Restaurants Ltd
Sukesh Kumar BHMCT/10021/19	Renaissance Bengluru Race Course Hotel
Nikita Kumari BHMCT/10024/19	GRAND MERCURE
Amrita Bandyopadhyay BHMCT/10007/20	Gujrat JHM Hotels Limited
Shivakant Singh BHMCT/10001/20	JW Marriott Auckland

## 7.2 Students Gone for Higher Studies for the last five years.

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
BHMCT/10036/17	Shrey Ranjan	NMIMS, Deemed University	BHMCT/10036/17	Shrey Ranjan	NMIMS, Deemed University
BHMCT/10007/19	Shashank Shubham	IMI Bhubaneswar, PGDBM	BHMCT/10007/19	Shashank Shubham	IMI Bhubaneswar, PGDBM

## 7.3 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Dr.Chris Busch University of Windsor, Canada	22.01.2024	
2.	Ms. Elena Rozenbaum	25.08.2023	



#### 7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	<p>Name : Aastha Bhaniramka Batch : 2K16 batch Affiliation : Training Supervisor at Trident Nariman Point and The Oberoi Mumbai.</p> 	<p>Aastha Bhaniramka, a BIT Mesra graduate from the class of 2016. She did her Vocational Training at JW Marriott in front office department for 6 weeks. She worked as Industrial training from The Oberoi Rajvilas, Jaipur Nov 2018 till May 2019. She got cross exposure opportunity to The Oberoi Vanyavilas for 2 weeks. Also received SOAR letter (invitation for interview rounds in future). She joined L&amp;D department on 5th Feb 2021.</p> <p>She has received a badge and certificate for Certified Departmental Trainer. She worked as Training Associate from 5th Feb 2021 till 28th Feb 2023, Training Supervisor from 1st March 2023 till date. She cleared her Supervisory Development Programme with 90%. On 17th May 2024 she got transferred to Trident Nariman Point and The Oberoi Mumbai.</p>
2.	<p>Name : Govind Mishra Batch: 2K5 Affiliation : Cluster Sales Manager in Novotel Ibis World Trade Centre and Ibis One Central Dubai.</p> 	<p>Govind started his career with Minerva Hyderabad as a Hotel Operational Trainee and later he worked with Taj Krishna as a Butler and Novotel Hyderabad as a Front Desk Agent.</p> <p>In the year 2014, he got Promoted and transferred as the Cluster Front Office Supervisor for pre-opening team of Novotel, ibis &amp; Adagio, Fujairah UAE. With his expertise in Operations and interest in Sales and Marketing, he got promoted internally as the Cluster Sales Executive with Novotel, ibis &amp; Adagio, Fujairah.</p> <p>Later, he joined Rotana Hotel Management Corporation, as a Sales Manager and currently working with Accor as a Cluster Sales Manager for Novotel World Trade Centre, Ibis and Ibis One Central, Dubai.</p>
3.	<p>Name: Ripudaman Singh Dadhwal Batch: 2K8 Affiliation : Director, Market (Revenue) at Marriott Hotel</p> 	<p>Ripudaman Singh Dadhwal, a BIT Mesra graduate from the Class of 2012. His journey in hospitality began with ITC Hotels, where he started as a Food &amp; Beverage Management Trainee and transitioned into a dynamic Sales &amp; Marketing role at ITC Grand Chola. He is honored to have been recognized as a top sales performer nationwide for three consecutive years, receiving accolades from the Executive Director and a special letter of recommendation from the Area Head of South Sales &amp; Marketing for my stellar performance throughout my stint with ITC Hotels.</p> <p>Driven by a quest for deeper knowledge, he pursued an MBA in Marketing &amp; Strategy from MDI Gurgaon- one of the top prestigious business schools in India. His enduring passion for the hospitality industry led him to Marriott International, the world's largest hotel company, where he</p>



Sr. No	Name, Batch and Affiliation	Short Description
		<p>now serve as the Market Director - Revenue for the Tamil Nadu Cluster. In this role, he oversee revenue management for 12 hotels (11 operational and 1 preopening), responsible for managing revenue of approximately 450 crores. Each day, he is fueled by the belief that nothing great in this world has ever been accomplished without unreasonable passion.</p>
4.	<p>Name : Rahul Raj Singh Batch: 2K8 Affiliation: Food and Beverage Manager in Fairfield by Marriot, Indore.</p> 	<p>Rahul Raj Singh has accumulated over 12 years of experience in the hospitality industry, including 8 years with the renowned Marriott hotel chain. He completed his internship at The Leela, Mumbai.</p> <p>Rahul began his career as an Events Service Associate at Hyatt Regency, Pune, a prestigious five-star deluxe hotel. His journey continued at Hyatt Raipur, where he excelled as a Team Leader in the Food and Beverage Department. He transitioned to Fairfield by Marriott, Lucknow, initially as an Events Executive, and was swiftly promoted to Assistant Events Manager due to his exemplary performance. Rahul's career progressed further at Sheraton Grand Palace, Indore, where he served as Assistant Manager - Food and Beverage Service, eventually advancing to Events Planning Manager and later, Director of Events.</p> <p>Following this, he took on the role of Associate Director of Sales and Marketing at Fairfield, Jaipur. Currently, Rahul is the Food and Beverage Manager at Fairfield by Marriott, Indore, and also serves as Deputy Manager in the absence of the General Manager, showcasing his leadership and versatility in the field.</p>
5.	<p>Name: Ayodhya Nath Tiwari Batch: 2K8 Affiliation : Multi Property -Director of Revenue Management at Accor Group.</p> 	<p>Ayodhya's journey to this esteemed position is marked by a series of progressively challenging roles that have honed his skills and broadened his expertise. Before stepping into his current role, he served as the Multi-Property Director of Revenue Management, where he was instrumental in revenue forecasting, team building, financial analysis, and operations management. His ability to forecast revenue trends accurately and implement growth strategies has consistently driven the financial success of the properties he managed.</p> <p>Prior to joining Novotel Kolkata Hotel &amp; Residences, Ayodhya Nath held the position of Revenue Manager at the Hyatt Regency in Lucknow. Here, he developed his skills in revenue analysis and customer relationship management, laying the groundwork for his future roles. His tenure at Pride Group of Hotels in New Delhi further solidified his expertise in revenue growth, front office operations, and negotiation, enhancing his ability to manage complex revenue streams effectively.</p>





## Department of Management

SECTION 1

DEPARTMENTAL PROFILE









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 Board of Accreditation (NBA) on May 2023. The Accreditation valid duration from 2023 to 2026.
- Dr. Supriyo Roy, Associate Professor is awarded for his distinguished contribution in the year 2023 in terms of his overall “Highest Number of Research Publication”.
- Dr. Anand Pd Sinha, Assistant Professor, Mentor of Aditya, Amit, Akash & Abhishek – (MBA 21-23 Batch) received first prize of Rs 1 Lakh from IIC- BIT Mesra in BIT NISHAN-22 innovation contest which was held on 5.11.22 in R&D Building BIT Mesra Ranchi. (Technology Name -Wheel Rover- Innovative Prototype Electric Power Tiller Tractor developed).
- The Department of Management of BIT Mesra, Jaipur, Lalpur, Noida, and Patna campuses are together hosting the two days International Conference on Sustainability: Research, Education and Practice on 30-31May, 2022.
- Dr. Supriyo Roy & Dr. Anand Pd Sinha Joint Coordinator has organized National Research Development Workshop on ‘Statistical Techniques and Data Analytics’ in the Department of Management, BIT Mesra Ranchi. (Total Registration Received-130 & Total Fund Received Rs. 97,500/- (10th June to 14th June 2022)).
- 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.

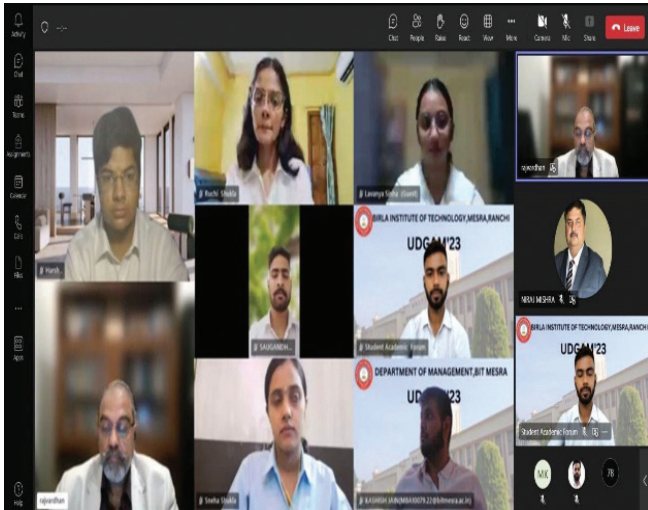
### 1.8 Activities of Department (1st July 2023 to 30th June 2024)

- **UDGAM’23- (2nd July 2023)** Alumni Webinar Series. The Alumni Committee of the Department of Management, BIT Mesra was delighted to host Mr. Ripudaman Magon an alumnus of 1989-91 batch. He is the Director of Natural Group and Con Serve Infotech (P) Ltd.

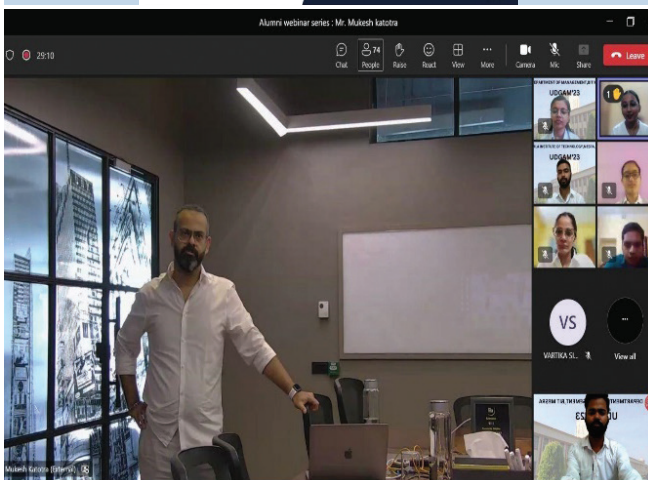


- **UDGAM’23- (8th July 2023)** Alumni Webinar series- Guest Name – Mr. Raj Vardan (Alumni)





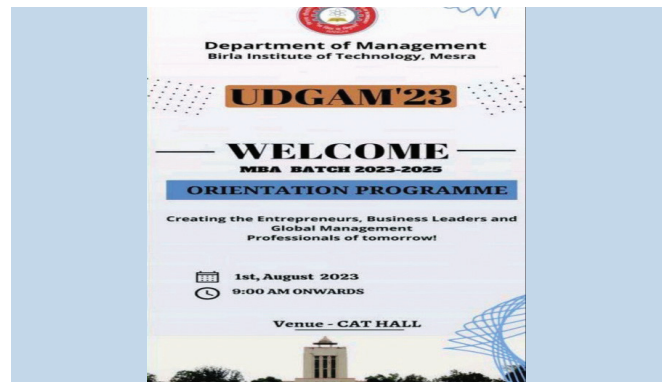
- **UDGAM 2023- (23rd July 2023)** Alumni Webinar series- Mr. Mukesh Katotra, an illustrious alumnus- MBA Batch of 2011-13.



- **UDGAM 2023 (30th July 2023)** Alumni Webinar series- Guest Name – Mr. Pritam Pritu (Alumni) MBA Batch -1997-1999



- **Orientation Program- Date of the Event – 01/08/2023**



- **Name of the event – Reunion of the MBA Batch 1996-1998**  
Date of the event – 12/08/2023 – 14/08/2023

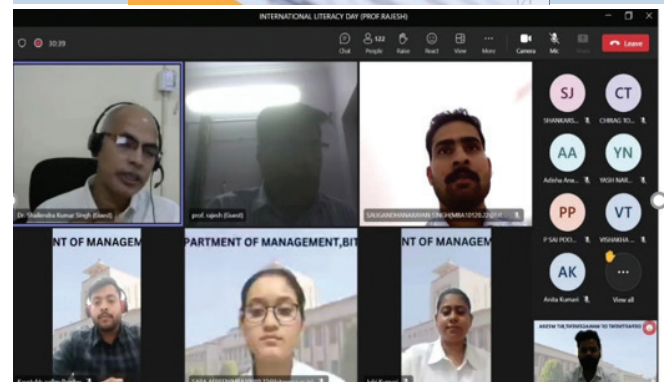




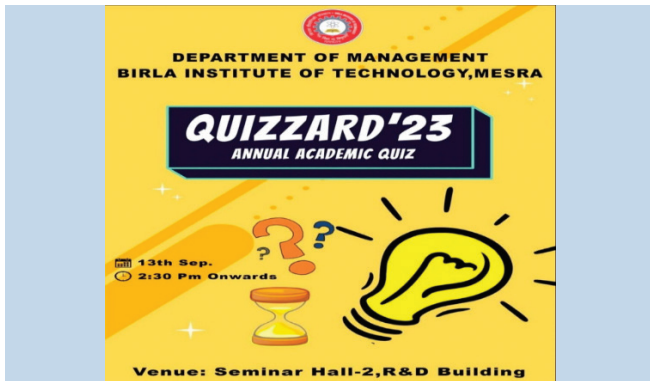
- **Webinar (13/09/2023):** Team Sustainability of Department of Management has organized an enlightening webinar featuring a distinguished personality, Prof. Rajesh from the Department of Adult and Continuing Education, University of Delhi.



- **Guest Lecture – Dr. Abhishek, Professor, IMT Ghaziabad** -Students had the privilege of learning from Professor Dr. Abhishek from IMT Ghaziabad, who shared his expertise on “Brand building through influencer marketing”. Valuable insights were gained, horizons were expanded



- **Quizzard’ 2023:** On September 13, 2023, the Media and PR Team of the Management Department at BIT MESRA hosted QUIZZARD’23, a business quiz competition for students. QUIZZARD’23 aimed to help students learn more about the business world and boost their confidence.



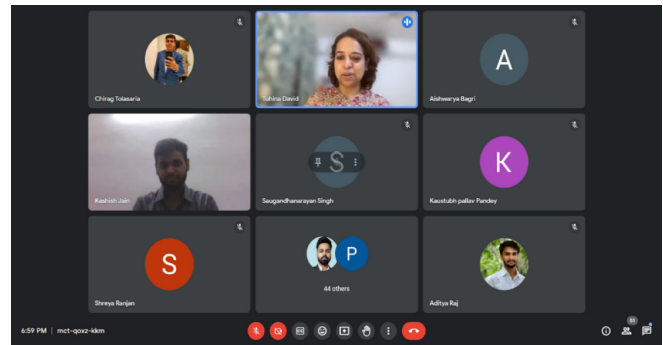
- “NAV DISHA -LPG Dealer Training Program”** (26th and 27th of September, 2023) The Department of Management, BIT Mesra organised a Management Development Program on the 26th and 27th of September, 2023 in joint efforts with Indian Oil Corporation Limited. The event was titled “NAV DISHA -LPG Dealer Training Program”. The purpose of the event was to provide information and give knowledge to the LPG distributors to subsist with the current challenges they are facing. The resource people for the event were Mr. Sameer Sinha, Divisional Sales Head (LPG-S), Ranchi; Mr. Sourav Chandra, GM LPG, Bihar State Office; Mr. Tarun Kumar and Mr. Aditya Tiga (Manager at LPGS, IOCL Ranchi), Prof. (Dr.) Taposh Ghosal, Principal Mentor Astra Knowledge Foundation (Ex-Dean School of Management Sciences, Central University of Jharkhand, Ranchi), Prof. (Dr.) Niraj Mishra (Assistant Professor, Department of Management, BIT Mesra). The first speaker

of the day was Mr. Sameer Sinha, Divisional Sales Head (LPG-S), Ranchi. He explained the progress of the LPG Training program at full length. He also highlighted ways to transform as a distributor into a dealer.

### “NAV DISHA -LPG Dealer Training Program”.



- Webinar** (Date of the event – 07/10/2023): Guest Name -Ms. Tuhina Roy David



- Kartavya (11th October 2023):** Team Sustainability in collaboration Student Activity Forum of Department of Management, Birla Institute of Technology, Mesra hosted KARTAVYA 2023, a case study competition on 11th October, 2023 in which the students from various colleges were to select a social issue and design an innovative solution to it. The theme of the event was “Empowering Communities for a Sustainable Future.” It aimed to bring various students from different institutes from across the country, to pitch their ideas and innovations on how they plan to solve various pertaining social issues.



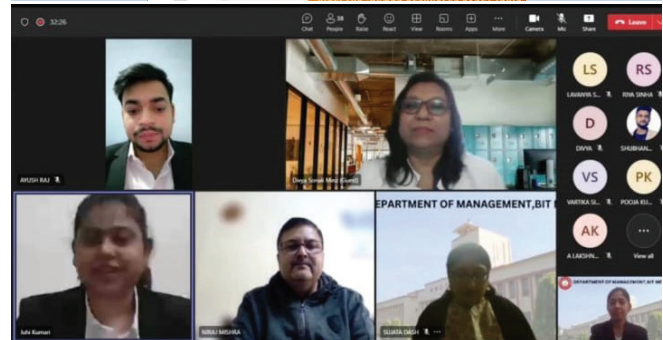


- Sanshray '23 (6/11/23):** Department of Management in collaboration with Team Sustainability and Pratigya Foundation organized Sanshray '23 on November 6th, 2023. The event welcomed Mr. Ajay, representing the esteemed NGO Pratigya, as the Guest of Honor. Pratigya is renowned for its dedicated efforts in uplifting the lives of underprivileged children by providing essential resources such as food, shelter, and education. One of Pratigya's flagship programs, "Srijan Bachpan," aims to transition vulnerable children from a state of vulnerability to sustainability. During the event, Mr. Ajay facilitated an engaging ice-breaking session, fostering understanding and interaction among attendees.



- Alumni Webinar session on Career Navigation (10.02.24):** Department of Management at Birla Institute of Technology, Mesra, hosted an insightful webinar featuring Ms. Divya Sonali Minz, a distinguished alumna from the MBA batch of 1996-98. Currently serving as the Director of Human

Resources at Avnet India Pvt Ltd, Ms. Minz brought her extensive industry experience and expertise to the session, offering invaluable guidance to the attendees. As a certified professional behavior analyst with over 20 years of experience in HR, she shared key insights into building a successful career.

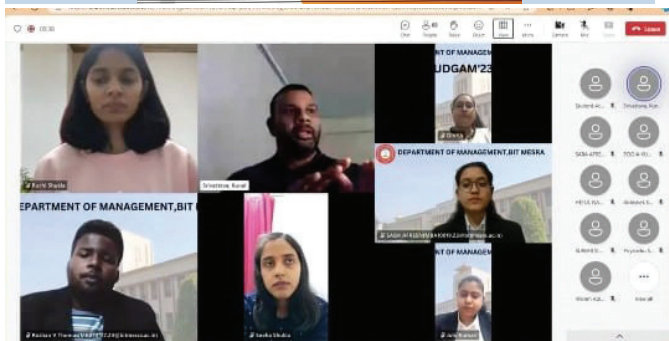


- MUN (Model United Nations-26-02-2024)** : The Department of Management at Birla Institute of Technology (BIT), Mesra, organised Model United Nations'24 (MUN'24), presented by the Student Activity Forum (SAF), yesterday, February 26th, 2024. This event provides a valuable platform for students to delve into the complexities of cross-border terrorism and understand how the United Nations tackles this global challenge.



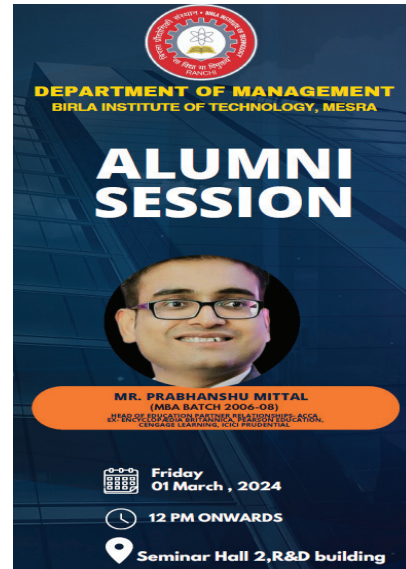


- Alumni webinar session on “Career Progression”** (February 10th, 2024), the Department of Management at BIT Mesra hosted an insightful and enriching webinar featuring distinguished alumnus Mr. Kunal Srivastava, who completed his MBA from the institution in 2006 & is currently working as Director (DITO) for north America region, Hexaware Technologies INC. The session aimed to unlock career potential and elevate the career opportunities for current MBA students, providing them with invaluable guidance in navigating today’s challenging job market.



- Alumni Lecture on Tech Boosts Efficiency** (March 1st, 2024), The Department of Management at Birla Institute of Technology, Mesra, hosted an engaging alumni session with Mr. Prabhanshu Mittal, an esteemed member of the MBA class of 2006-08. Currently the Head of Education Partner Relationships at ACCA, Mr. Mittal delivered a compelling discourse on the critical role of technological integration in boosting both

organizational and individual efficiency. He highlighted how strategically implemented technology can streamline processes, enhance productivity, and foster innovation.



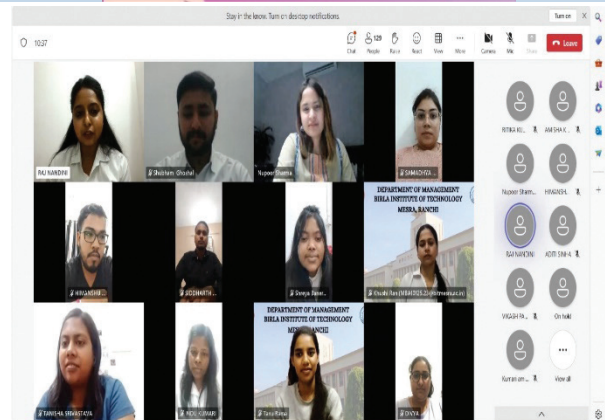
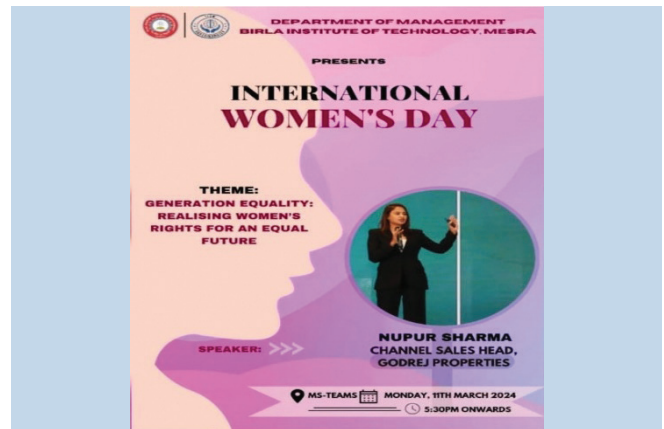
- Workshop on Cost Management** (04-03-2024) : Mr. Ajay Deep conducted a comprehensive workshop on cost management at Seminar Hall 2 in the R&D Building of BIT Mesra. Starting at 10 am, the session illuminated the nuances of cost efficiency, with a particular emphasis on China’s exemplary practices. Mr. Deep detailed the core principles of financial accounting, underscoring the significance of meticulous record-keeping and strict adherence to accounting standards.



- **INTERNICO – (6th March, 2024)** Department of Management, Birla Institute of Technology, Mesra organised Internico'24: Where the Apprentices Tussle, an annual summer internship competition. The primary objective of Internico'24 was to create a competitive yet collaborative environment where students can present their innovative and impactful internship projects. It aims to recognize and reward the efforts of young talents who have contributed significantly to their respective fields during their internships.



- **International Women's Day (March 11th, 2024)** Department of Management at Birla Institute of Technology, Mesra, organized a special webinar to celebrate International Women's Day, focusing on the theme "Generation Equality: Realizing Women's Rights for an Equal Future." The event featured Ms. Nupur Sharma, Channel Sales Head at Godrej Properties, as the keynote speaker, and it highlighted the ongoing efforts and importance of achieving gender equality in both professional and personal spheres.



- **BITRIX '24 (20-03-2024 to 22-03-2024)** : The Department of Management at BIT Mesra was all set to host its highly anticipated annual B-school event, BTrix'24, from the 20th to the 22nd of March. This three-day extravaganza promised to be a melting pot of creativity, competition, and cultural celebration.





- The **Doctoral Colloquium '24** (April 16, 2024) provided a platform for research presentations, with notable speakers and the Chief Guest for the event was Mr. Arjun Malhotra, Renowned Management Expert, Founder, HCL and an alumnus of IIT Kharagpur. The other dignitaries present were Professor Indranil Manna, Vice Chancellor, BIT Mesra, Dr. Bhaskar Karn, Dean of Student Affairs, Professor Sandeep Singh Solanki, Dean of Post Graduate Studies, Dr. Shradha Shivani, Dean of Alumni and International Relations, Dr. C. Jeganathan, Dean of Research, Innovation and Entrepreneurship, Dr. Utpal Baul, Professor and Head of the Department, Department of Management and other faculty members.

- The **UDGAM'24 Alumni Webinar Series** (26th May 2024) The Birla Institute of Technology Mesra, Department of Management recently organized an alumni webinar session for the forthcoming batch of MBA, 2024-2026, the session commenced with a warm welcome address by Dr. Shradha Shivani, Professor & Dean Alumni & International relations at the Department of Management. Dr. Shradha Shivani then introduced the distinguished alumni speaker, Mr. Raj Vardhan, who graduated during the batch 1989-1991 and currently holds the position of independent director at McLeod Russel India Limited. During the session, Mr. Raj Vardhan graciously recounted his journey and experiences during his time at the department, illustrating how his education and encounters at the institute shaped his career and laid a solid groundwork for his future pursuits.




**DEPARTMENT OF MANAGEMENT**  
BIRLA INSTITUTE OF TECHNOLOGY, MESRA

Presents

**DOCTORAL COLLOQUIUM '24**

MARKETING MANAGEMENT	FINANCIAL MANAGEMENT
INTELLECTUAL PROPERTY MANAGEMENT	SUSTAINABLE BUSINESS
HUMAN RESOURCE MANAGEMENT	BUSINESS ANALYTICS
INFORMATION TECHNOLOGY	ARTIFICIAL INTELLIGENCE

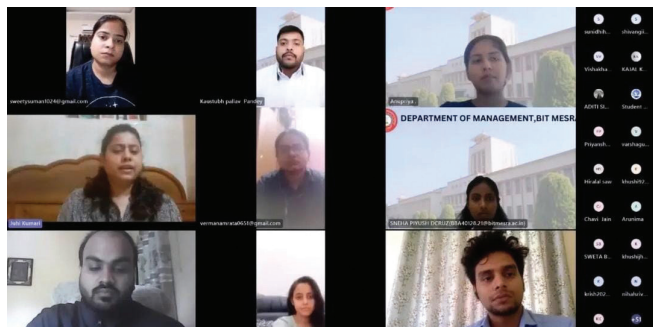
16th April | 9:30AM Onwards | CAT Hall

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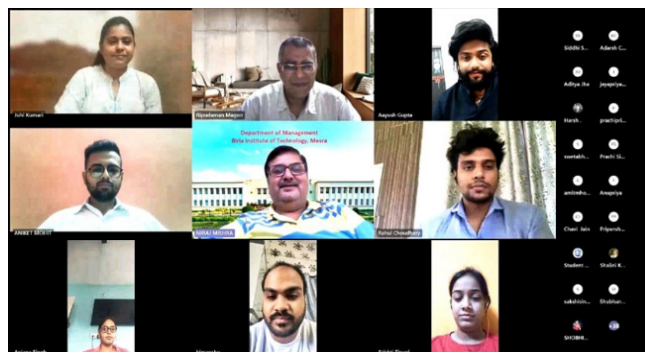
- **UDGAM'24 Webinar Series** (2nd June 2024) Department of Management at BIT Mesra hosted a dynamic interaction session, bridging the gap between student bodies and the incoming batch of 2024-2026. This engaging session aimed to elucidate the pivotal roles and significance of various student bodies within the department, inspiring students to actively participate and contribute to the vibrant academic community.





- UDGAM'24 Webinar Series (23rd June 2024)** : Department of Management recently organized a series of alumni webinar sessions for the forthcoming batch of MBA, 2024-2026. On the 23rd of June 2024, the session commenced with a warm welcome address by Dr. Neeraj Mishra, an esteemed

Assistant Professor at the Department of Management. Dr. Mishra then introduced the distinguished alumni speaker, Mr. Ripudaman Magon, who graduated during the batch 1989-1991 and currently holds the position of Director and CEO at Natural Group.



**SECTION 2 RESEARCH PROJECTS**

**2.1 Sponsored Projects (Research and Consultancy) 1st July 2023 – 30th June 2024**

**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	9 <sup>th</sup> March/2023	7.5 LAKHS	YEARS

**b) Consultancy Projects carried out/ ongoing (between 1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024):**

Sl. No.	Title of Project	Funding Agency	Duration		Grant Mobilized (Rs. Lakhs)	Principal Investigator/ Co Investigator	Ongoing/ Completed*
			from	to			
1	Nav Disha- Management Training of Indane Distributors	Indian Oil Corporation	21.02.2024	22.02.2024	2.48 Lakhs	Shradha Shivani, Dr. Niraj Mishra, Dr. Shelly Srivastava	Completed

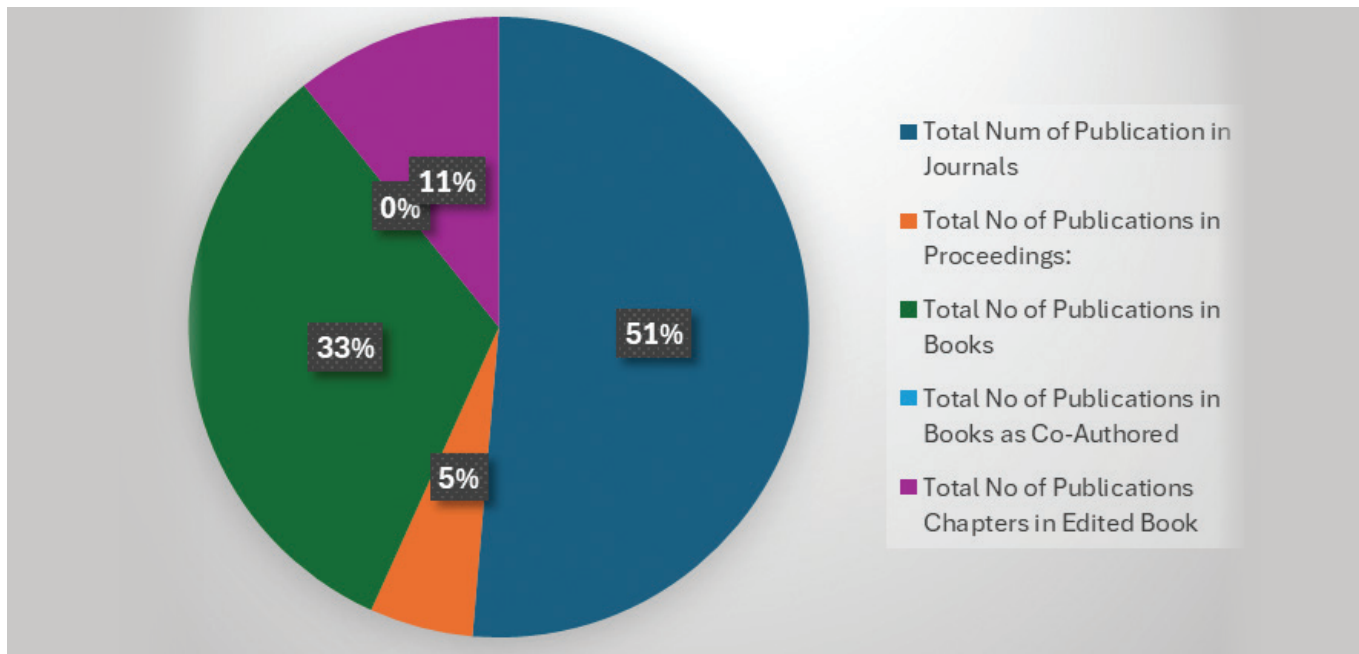






Sl. No.	Name of the Faculty	Title of the Conference/ Seminar/ FDP	Funding Agency	Organizers	Venue	Date (dd. mm.yyyy)
2	Dr. Anand Pd. Sinha	Participated one day workshop on "Institution's Innovation Council, MoE's Innovation Cell Regional Meet"	IIC-BIT Mesra	Organized by Sister Nivedita University, Kolkata	Sister Nivedita University, Kolkata	12 <sup>th</sup> Jan 2024
3	Dr. Anand Pd. Sinha	Participated One-day workshop on "Innovation & Start-up in Higher Education Institutes of Jharkhand"	Department of Higher & Technical Education, Government of Jharkhand	Organized by Jharkhand University of Technology, Namkum, Ranchi	JUT Ranchi	12 <sup>th</sup> Feb 2024
4	Dr. Sujata Priyambada Dash	Faculty Development Program (online) on NEP-2020 Orientation and Sensitization	NA	Malviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Malaviya Mission Teacher Training Centre, University of Hyderabad (MMTTC-UoH)	Online	18 <sup>th</sup> March to 26 <sup>th</sup> March <b>2024</b>
5	Dr. Shelly Srivastava	Faculty Development Program (online) on NEP-2020 Orientation and Sensitization	NA	Malviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Malaviya Mission Teacher Training Centre, University of Hyderabad (MMTTC-UoH)	Online	18 <sup>th</sup> March to 26 <sup>th</sup> March <b>2024</b>
6	Dr. Anand Kumar	International Conference on Environment, Aquaculture and Sustainable Agriculture	NA	Dept. of Botany, St. Xavier's College Ranchi	St. Xavier's College Ranchi	22-24, September 2023





**SECTION 5 AWARD/PATENT/COLLABORATIONS**

**1.1 Award / Recognition Bestowed on Faculties (State / National / International) (between 1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024)**

SL No	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Anand Pd Sinha	As a faculty Mentor of “Ayush Kumar” Student of Computer Science (BTECH/10471/22) received 2nd Prize of Rs 1 Lakh (“Menta Mind” a new Startup Creation Idea) from IIC-BIT Mesra in BIT NISHAN-23 innovation contest which was held on 15.12.23 in R&D Building BIT Mesra Ranchi.	IIC-BIT Mesra	National	15.12.23
2	Dr. Supriyo Roy	As a faculty Mentor of Kingshuk Banerjee, BTech Studnets got prize of Rs 1 Lakh (“Anonymous Squirrels Business Solutions Pvt Ltd” a new Start-up Creation Idea) from IIC- BIT Mesra in BIT NISHAN-23 innovation contest which was held on 15.12.23 in R&D Building BIT Mesra Ranchi.	IIC-BIT Mesra	National	15.12.23





SL. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
18	Alumni Seminar			01-03-2024
19	Workshop on Cost Management			04-03-2024
20	INTERNICO		Dr. Rohini Jha & Dr. Anupam Ghosh	06-03-2024
21	International Womens Day			11-03-2024
22	BITRIX '24		Dr. Sujata Dash	20-03-2024 to 22-03-2024
23	Doctoral's Colloquium '24		Dr. Anupam Ghosh & Dr. Rohini Jha	16.04.2024
24	Webinar			26-05-2024
25	Udgam'24 Alumni Webinar Series			26-05-2024
26	Udgam'24 Webinar Series			02-06-2024
27	Webinar			09-06-2024
28	Udgam'24 Alumni Webinar Series			23-06-2024
29	Udgam'24 Alumni Webinar Series			30-06-2024
30	Webinar			30-06-2024

## 6.2. List of Faculties as on 30.6.2024

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
		(GEN/SC/ST/OBC/PVTG/PH)				
1	Prof. Utpal Baul	GEN	Professor & Head (Adjunct Faculty)	Operations	Ph.D.	20-10-1997
2	Prof. Manju Bhagat	GEN	Professor	Human Resource	Ph.D.	05-07-2002
3	Prof. Amar Nath Jha	GEN	Professor	Finance	Ph.D.	19-09-1985
4	Prof. Shradha Shivani	GEN	Professor	Marketing	Ph.D.	01-08-1995
5	Prof. R. N. Bhagat	ST	Professor	Agro Business Marketing	Ph.D.	07-01-1994
6	Dr. Supriyo Roy	GEN	Associate Professor	Strategic Operations Management, Supply Chain Intelligence,	D. Litt, PDF (IIM-BANGALORE), PH.D	12-11-2011
7	Dr. Praveen Chandra Jha	GEN	Sr. Lecturer	Economics	Ph.D.	01-10-1997
8	Dr. Anupam Ghosh	GEN	Assistant Professor	Sustainability	Ph.D.	22-12-2011
9	Dr. Anand Kumar	GEN	Assistant professor	Human Resource	Ph.D.	11-02-2002





Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
		(GEN/SC/ST/OBC/PVTG/PH)				
10	Dr. Niraj Mishra	GEN	Assistant Professor	Marketing	Ph.D.	01-07-2004
11	Dr. Shelly Srivastava	GEN	Assistant Professor	Finance	Ph.D.	30-07-2007
12	Dr. Rohini Jha	GEN	Assistant Professor	Information Technology	Ph.D.	28-04-2008
13*	Dr. Shailendra Kumar Singh	GEN	Assistant Professor	German	Ph.D.	16-07-2010
14	Dr. Anand Prasad Sinha	GEN	Assistant Professor	Technology Management	Ph.D.	15-07-2009
15	Dr. Sujata Priyambada Dash	GEN	Assistant Professor	Human Resource	Ph.D.	01-12-2007
16	Satyajit Mahato	GEN	Assistant Professor	Operations	Ph.D.	18-10-2021

\*Transferred to the HSS Department on Jan 2024

### 1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any (between 1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024)

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1	Dr. Utpal Baul	GEN	Professor (Retd.)	BIT Mesra

### 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. Rohini Jha	Assistant Professor	Internal Member
7	Dr. Niraj Mishra	Assistant Professor	Internal Member
8	Dr. Shelly Srivastava	Assistant Professor	Internal Member
9	Dr. Vinay Sharma	Professor	External Member
10	Dr. Vijay Kumar Jha	Associate Professor	External Member
11	Dr. Tanushree Dutta	Associate Professor, IIM Ranchi	External Member
12	Mr. S Botchu	Sr. Manager Accenture	External Member



**SECTION 7**

**OTHER INFORMATION**

**7.1 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.- Startup 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

**7.2 Achievements of Students:**

SL. No	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
1	Surbhi and Kajal	1st prize	MUN' 24 Dept. of Management	26/02/2024 , B.I.T Mesra
2	Tanisha and Guru Shivam	2nd prize	MUN' 24 Dept. of Management	26/02/2024, B.I.T Mesra
3	Aditi Sinha and Amarnath	3rd prize	MUN'24 Dept. of Management	26/02/2024, B.I.T Mesra
4	Juhi and Lavanya	Best Representatives	MUN'24 Dept. of Management	26/02/2024, B.I.T Mesra
5	Tushar Jain and Manish	Winner	Bitrix 24' Dept. of Management	20/03/2024, B.I.T. Mesra
6	Tanmay and Keshav	1st runner up	Bitrix 24' Dept. of Management	20/03/2024, B.I.T. Mesra
7	Sai Priya and teams).	2nd runner up	Bitrix 24' Dept. of Management	20/03/2024, B.I.T. Mesra
8	Gyanesh Shivam Roy, Tanu Rama, Raj Nandini, Shubhangi Sambhav, Kumar Siddharth	Winner	Bitrix 24' Dept. of Management	20/03/2024, B.I.T. Mesra

9	Saba Afreen, Aditya Raj, Abhinav Raj, Prashant Prashan Jha, Shankarshan Jha	1st runner up	Bitrix 24' Dept. of Management	20/03/2024, B.I.T. Mesra
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### 7.3 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

SL. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1	Dr. Abhishek Prof. from IMT Ghaziabad	23-08-2023	
2	Prof. Rajesh (Department of Adult and Continuing Education, University of Delhi)	08-09-2023	
3	Ms. Tuhina Roy David Strategy, Process and Change Consultant   HR Analyst	07-10-2023	
4	Mr. Pratayay Das (Alumni)	08-10-2023	



SL. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
5	Mrs. Divya Sonali Minz Director of Human Resources at Avnet India Pvt Ltd	10-02-2024	
6	Mr. Ajay Deep Wadhwa Associates	04-03-2024	

7.7 List of Distinguished Alumni (Choose 5 only)

SL.No	Name, Batch and Affiliation	PIC of Alumni
1	Mr. Shashank Mital - (1986-1988)	
2	Ms. Sripriya Ramachandra (1990-1992)	

3	Mr. Pritam Pritu (Alumni)- 1997-1999	
4	Mr. Kunal Srivastava -2004-2006	
5	Mr. Prabhanshu Mittal, 2006-08	

## 7.9 Best Thesis Project (UG/PG)

## 8. Infrastructure Development.

## 9 Any other relevant information

- Dr. Anand Pd Sinha has been appointed as an Associate Dean, Research Innovation and Entrepreneurship in Research & Development Cell BIT Mesra Ranchi from 2023 to till date.
- Prof. Shardha Shivani, has been appointed as a Dean of Alumni and International Relations, BIT Mesra from Jan 2024 to till date.

## 10. Special Initiatives, If Any

- Dr. Anand Pd Sinha, Assistant Professor as a Members of INAE Conclave has Organized “Indian National Academy of Engineering Conclave” in collaboration with Birla Institute of Technology Mesra an annual flagship event “17th National Frontiers of Engineering (NatFoE-23) under the aegis of ‘INAE-SERB conclave on Atmanirbhar Technologies –Engineering Secured Future’ during 24th June to 26th June 2023 at Mesra campus. The Total Budget Sanctioned amount of Rs. 14 Lakhs and sponsored by INAE-SERB New Delhi.





## Department of Mathematics

SECTION 1

DEPARTMENTAL PROFILE







## SECTION 2

## RESEARCH PROJECTS

## 2.1 Sponsored Projects (Research and Consultancy)

## a) Ongoing Projects :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Topological Investigation of the Escaping Set of a Transcendental Semigroup and Wandering domains in Quasiregular Dynamics	Dr. Dinesh Kumar, PI	SERB	29/01/2024	1005000	29/01/2024 To 28/01/2027
2.	Hindustani Raga Analysis Using Statistical Musicology with Therapeutic Applications for Stress Management	Prof. Soubhik Chakraborty	IDEAS, Technology Innovation Hub@ Indian Statistical Institute, Kolkata	23/09/2022	464000	23/09/2022-continuing

## b) Projects Completed :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	A Study of Dynamics of Transcendental Entire Functions and Quasiregular Dynamics	PI	SMS, BIT Mesra	03.01.2022	100000	27.05.2024

## SECTION- 3

## SEMINAR/CONFERENCE

## 3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted :

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	International Conference on Recent Trends in Engineering and Sciences(RTES-2024)	Prabjot Kaur Session Chair	Raj Bhasha Prakosht	29.3.2024 to30.03.2024





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
4.	Dr.Prabjot Kaur	Marine Data 4 Coastal Monitoring	NA	Program of European Union.	Online	20-21st June 2024
5.	Dr.Prabjot Kaur	3rd International Conference on Non-Linear Applied Analysis and Optimization	Self	NIT,Durgapur	Department of Mathematics NIT,Durgapur	8-10 December 2023.
6.	Dr.Prabjot Kaur & Yuvraj Gajpal	56th Annual Convention of Operational Research Society of India & 10th International Conference on Business Analytics & Intelligence	BIT,Mesra	IISc,Bangalore	IISc,Bangalore	18-20 December 2023.
7	Dr. Dinesh Kumar	International Conference on Mathematics and Applications ICMA 2024	SMS, BIT Mesra	MSCW, University of Delhi	MSCW, University of Delhi	January 10 – 12, 2024
8	Dr. Anindita Bera	MEETQIC@HRI - 2024	Harish Chandra Research Institute, Prayagraj	Quantum Information and Computation group, HRI	Harish Chandra Research Institute, Prayagraj	07/06/24 - 08/06/24
9	Amrita Mandal	MEETQIC@HRI	Harish-chandra Research Institute Prayagraj	Quantum Information and Computation group HRI	Harishchandra Research Institute Prayagraj	07.06.24- 08.06.24
10	P.S. Majee	International Conference of Complex Analysis and Computational Fluid Dynamics” (ICCACFD 2024)	BIT Mesra	KIIT University Bhubaneswar	KIIT University Bhubaneswar	16-18th February 2024.







Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
3.	School of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), 291 Daehakro, Yuseong-gu, Daejeon 34141, Republic of Korea	Research on quantum information and computation	2023-2024
4.	Faculty of Physics, University of Vienna, Währingerstrasse 17, 1090 Vienna, Austria	Research on quantum information and computation	2023-2024
5	Harishchandra Research Institute and IIT Kgp	continuation of postdoc research and others	Jan 24 - till date

**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1. List of Faculties**

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1	S. Chakraborty	GEN	Prof	Applied Statistics	PhD	30/11/2006
2	S. K. Jain	GEN	Prof	Computational Solid Mechanics	PhD	26/09/1996
3	S. Padhi	GEN	Prof	Differential Equations, Physics Informed Neural Networks	PhD	01-07-2004
4	P. Ghorai	GEN	Associate Prof	Theoretical Seismology	PhD	13/07/2000
5	Peeyush Tewari	GEN	Associate Prof	Mathematical Modelling	PhD	16/03/1999
6	Prabal Datta	GEN	Asst Prof	Numerical Solution of Boundary Layer Flows	PhD	16/08/2002
7	Prabjot Kaur	GEN	Asst Prof	Operation Research	PhD	08-12-2008
8	Abhinav Tandon	GEN	Asst Prof	Mathematical Modelling	PhD	11-04-2011
9	Randhir Singh	GEN	Asst Prof	Numerical Analysis and Differential equations	PhD	03-02-2015
10	S. D. Jabeen	GEN	Asst Prof	Optimization	PhD	04-01-2015
11	Dinesh Kumar	GEN	Asst Prof	Complex Dynamics	PhD	16/08/2021
12	Payel Das	GEN	Asst Prof	Applied Functional Analysis	PhD	20/03/2023



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
13	P.S. Majee	OBC	Asst Prof	Computational Fluid Dynamics	PhD	25/05/2023
14	P.K. Shaw	SC	Asst Prof	Numerical Analysis	PhD	23/01/2024
15	Amrita Mandal	GEN	Asst Prof	Matrix Theory	PhD	29/01/2024
16	Abhinav Chakraborty	GEN	Asst Prof	Theoretical Computer Science	PhD	02-01-2024
17	Anindita Bera	GEN	Asst Prof	Quantum Information Theory	PhD	02-01-2024
18	Aayan Chanda	GEN	Asst Prof	Fluid Dynamics	Phd	13/02/2024

### 1.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr. Soubhik Chakraborty	Ex-Officio Chairman, Professor and Head, Deptt of Maths, BIT Mesra	Chairman/Internal
2.	Dr. Snehashish Chakraborty	Prof. HAG, Deptt. of Maths, NIT Rourkela	External Member
3.	Dr. Satyajit Roy	Prof. Deptt. of Maths, IIT Madras	External Member
4.	Dr. Vijay Gupta	Prof. Deptt. of Maths, NSUT, New Delhi	External Member
5.	Dr. P.K. Mishra	Prof. Deptt. of Computer Science, BHU	External Member
6.	Mr. Shaswat Deep	Senior AI Scientist, SAP Labs India	External Member
7.	Mr. Arpit Kumar	Data Scientist, ADB, Headquarters (HQ) 6, Manila, Philippines	External Member
8.	Dr. S. K. Jain	Prof. Deptt. of Maths, BIT Mesra	Internal Member
9.	Dr. S. Padhi	Prof. Deptt. of Maths, BIT Mesra	Internal Member
10.	Dr. A. P. Ghorai	Associate Prof. Deptt. of Maths, BIT Mesra	Internal Member
11.	Dr. Prabal Datta	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
12.	Dr. Payel Das	Asst. Prof, Deptt. of Maths, BIT Mesra	Internal Member
13.	Dr. S. K. Sinha	Prof. Deptt. of Physics, BIT Mesra	Internal Member
14.	Dr. Manish Pandey	Asst. Prof, CQEDS, BIT Mesra	Internal Member
15.	Kanak Raj	IMH/10032/19	Internal Member
16.	Sanchit Sanyam	IMH/10013/22	Internal Member



## SECTION- 7

## OTHER INFORMATION

## 7.1 Students Gone for Higher Studies for the last five years.

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Subhomoy Halder, IMH/10010/2017	University of Glasgow, Scotland	Rajarshi Dey, IMH/10064/19	Ariel University, Israel

## 8. Any other relevant information

Prof. S. Chakraborty

1. Editorial Board Member, Edwin Group of Journals

Prof. S. Padhi

1. Council Member of the Indian Mathematical Society w.e.f April 1, 2024

Dr. Dinesh Kumar

- i. Visiting IIT Bhubaneswar under SERB(TARE) scheme for the period 2024-27.
- ii. Gave an invited talk entitled "Some Results on Dynamics of Bungee Set and Escaping Set of a Transcendental Entire Function" in the School of Basic Sciences, Indian Institute of Technology Bhubaneswar on 30.01.24.
- iii. Reviewer of American Mathematical Society (Reviewer no: 117919)
- iv. Evaluator of the answer scripts of the course code MMT005 of MACS Programme of IGNOU, Evaluation Centre Delhi since April 2022.







- **Subsonic Wind Tunnel:** This apparatus is used to study airflow over objects at speeds below the speed of sound. It helps in understanding aerodynamic properties and heat transfer characteristics in different flow conditions.
- **Cross Flow Heat Exchanger:** This device is essential for investigating the transfer of heat between two fluids flowing perpendicular to each other. It is widely used in applications like air conditioning, refrigeration, and industrial processes.
- **Water Tunnel:** Similar to a wind tunnel but using water, this equipment allows for the visualization and analysis of fluid flow around objects. It is particularly useful for studying heat transfer in liquid environments and for applications in marine and hydraulic engineering.
- **Cascade Test Rig:** This setup is used to examine the performance of turbine blades and other components in a controlled environment. It helps in understanding the heat transfer and aerodynamic behavior of these components under various operating conditions.

These facilities enable comprehensive research and experimentation in heat transfer, contributing to advancements in fields such as aerospace, mechanical engineering, and energy systems.

### 1.6 Brief Description of High-end Equipment

**Fatigue testing machine:** Fatigue testing is often performed to characterize material properties when selecting or verifying materials. Low cycle fatigue and high cycle fatigue test processes measure the ability of materials to withstand the application of repeated load cycles. The tests can be performed Both high and low-cycle fatigue testing use cyclic loading to evaluate the lifespan of materials that are subjected to conditions of fluctuating strain and stress,

which may result in cracking or fracture. These tests are valuable in ensuring product safety, especially in industries where failure could cause serious injury or significant damage. under varying loads, speeds and temperatures. The test results help predict the life of materials and parts that may be exposed to these types of demanding conditions.

### 1.7 Number of Projects in the Last Five Years.: 14

### 1.8 Achievement of the Department in the last three years. (In Brief)

The department has made significant strides in research and academic excellence by securing seven government-funded projects under various schemes. These projects span diverse areas, reflecting the department's broad expertise and commitment to addressing critical challenges. The funding has enabled cutting-edge research, fostering innovation and contributing to advancements in technology and science.

In addition to these projects, the department has successfully organized two international conferences. These events have provided a platform for scholars, researchers, and industry experts from around the world to share their knowledge and collaborate on groundbreaking ideas. The conferences have not only enhanced the department's reputation but also facilitated valuable networking opportunities and the exchange of innovative solutions to global issues.

These achievements underscore the department's dedication to excellence in research and its proactive role in the global academic community. By continuously securing funding and hosting prestigious events, the department demonstrates its leadership in fostering a vibrant and collaborative research environment.





4	Advanced Research in Energy Technology and Materials Testing	DST FIST HOD (Mechanical Engineering)	DST	19.12.22	88,00,000	19.12.22-18.12.27
5	Development of abrasion-resistant electroless Ni-B-W coating on cyclone separator walls and design optimization for longevity with enhanced performance	Dr. Lakhbir Singh Brar (PI)	SERB	11.02.24	48,64,000	11.02.24-10.02.27
6	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	19.02.2024	23,75,934	19.02.2024-18.02.2027
7	Nanofluids based solar heat harvesting through modified hybrid PV-TEG panel for sustained solar output and extended life span	Dr. Sushil Kumar Dhiman (PI)	SERB	15.03.2024	37,12,192	16.03.2024-15.03.2027

**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted :**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	2 <sup>nd</sup> International Conference on Thermo-Fluids and System Design (ICTFSD 2024)	Lakhbir Singh Brar, Om Prakash, Saurav Chakraborty, Arkadeb Mukhopadhyay and Sushanta Ghuku	Partially funded by SERB, ANSYS Inc. and COMSOL	04-05 April 2024
2	One week High End SERB sponsored Karyashala on Surface Engineering and Tribological Challenges in Sustainable Manufacturing	Arkadeb Mukhopadhyay, Arun Kumar Kadian, Sushanta Ghuku, Anil Chandra Mahato, Mukesh Sharma	SERB	18-24 December, 2023



## 3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Paritosh Mahata	Aeroelasticity, Biomechanics and Finite Element Analysis	-	Department of Mechanical Engineering, IIT (ISM) Dhanbad	Department of Mechanical Engineering, IIT (ISM) Dhanbad	13/04/2024 - 14/04/2024
2	Dr. Sujeet Kumar Mishra	Laboratory Safety Management	-	Department of Mechanical Engineering, National Institute of Technical Teachers' Training and Research, Kolkata	National Institute of Technical Teachers' Training and Research, Kolkata	April 29 <sup>th</sup> - May 10 <sup>th</sup> , 2024
3	Dr. Sujeet Kumar Mishra	The Applications of Engineering Concepts and Practices to Medical Fraternity for Future Generations	-	Department of Mechanical Engineering, NIT Manipur	NIT Manipur	20 <sup>th</sup> -24 <sup>th</sup> April 2024
4	Dr. Sujeet Kumar Mishra	NEP-2020 Orientation and Sensitization	-	Malaviya Mission Teacher Training Programme of University Grants Commission (UGC)	University of Hyderabad	18 <sup>th</sup> -26 <sup>th</sup> March 2024
5	Dr. Sujeet Kumar Mishra	3D printing & Additive Manufacturing Insights	-	Department of Mechanical Engineering, NIT Mizoram	NIT Mizoram	12 <sup>th</sup> -16 <sup>th</sup> March 2024
6	Dr. Sujeet Kumar Mishra	Green Manufacturing	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education, Government of India	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu	Shri Mata Vaishno Devi University, Katra, Jammu	04 <sup>th</sup> -08 <sup>th</sup> March 2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
7	Dr. Sujeet Kumar Mishra	Multiple Attribute Decision Making Using Analytic Hierarchy Process	-	Department of Mechanical Engineering, NIT Mizoram	NIT Mizoram	February 26 <sup>th</sup> - March 1 <sup>st</sup> , 2024
8	Dr. Rajeev Kumar	India Energy Transition Summit	Ministry of Power	FICCI, New Delhi	FICCI, Federation House, New Delhi	25th to 26th September 2023
9	Dr. Rajeev Kumar	World Environment Day	Jharkhand Pollution Control Board	Jharkhand Pollution Control Board	Hotel BNR Chankya Ranchi	5th June 2024
10	Dr. Arkadeb Mukhopadhyay	Second International Conference on Mechanical Engineering	SERB	Department of Mechanical Engineering, Jadavpur University	Department of Mechanical Engineering, Jadavpur University	4-5th January, 2024.
11	Dr. Ritwik Maiti	10th International and 50th National Conference on Fluid Mechanics and Fluid Power	-	Indian Institute of Technology Jodhpur	Department of Mechanical Engineering, IIT Jodhpur	20-22 December, 2023
12	Dr. Apurba Kumar Roy	3D printing & Additive Manufacturing Insights	-	Department of Mechanical Engineering, NIT Mizoram	NIT Mizoram	12 <sup>th</sup> -16 <sup>th</sup> March 2024
13	Dr. Om Prakash	3D printing & Additive Manufacturing Insights	-	Department of Mechanical Engineering, NIT Mizoram	NIT Mizoram	12 <sup>th</sup> -16 <sup>th</sup> March 2024





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
14	Dr. Abhijit Nag	Green Manufacturing	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education, Government of India	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu	Shri Mata Vaishno Devi University, Katra, Jammu	04 <sup>th</sup> -08 <sup>th</sup> March 2024
15	Dr. Richa Pandey	Green Manufacturing	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education, Government of India	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu	Shri Mata Vaishno Devi University, Katra, Jammu	04 <sup>th</sup> -08 <sup>th</sup> March 2024
16	Dr. Richa Pandey	On-Site Technological Intervention in Waste Management at Tourist Places of Jharkhand Using Indigenous Machine by Recycling and Reuse for achieving Circular Economy	SRM University	SRM University	SRM University AP	1st International Conference AESEE-2024.
17	Dr. Sushanta Ghuku	Second International Conference on Mechanical Engineering	SERB	Department of Mechanical Engineering, Jadavpur University		4-5th January, 2024

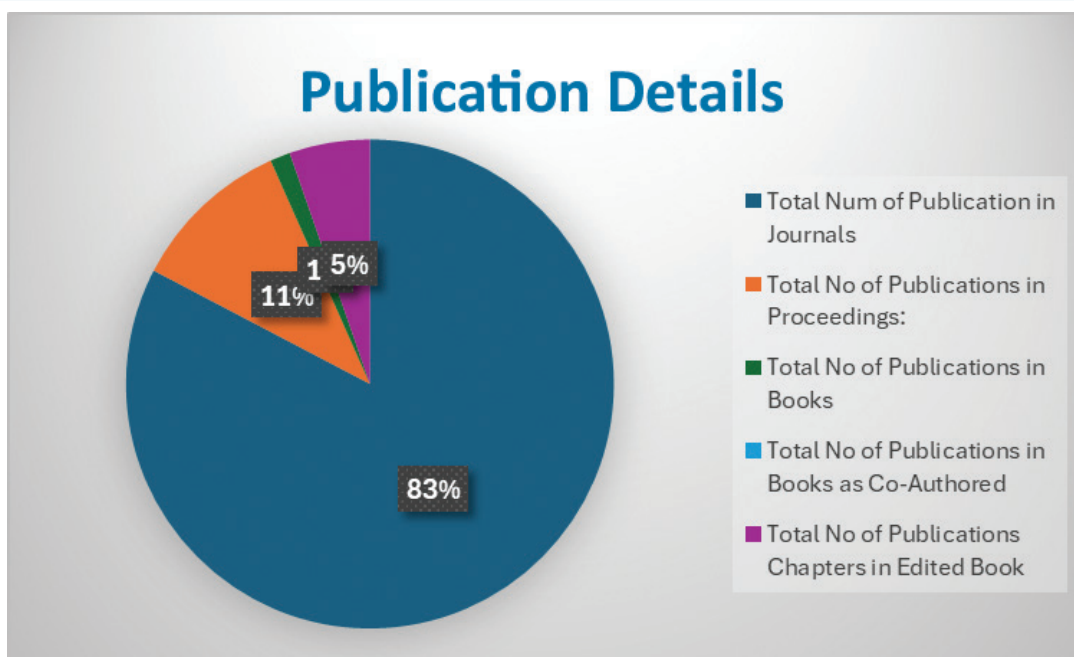


Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
18	Dr. Sushanta Ghuku	Faculty Development Program on Green Manufacturing	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education, Government of India	School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu	Shri Mata Vaishno Devi University, Katra, Jammu	04 <sup>th</sup> -08 <sup>th</sup> March 2024
19	Dr. Lakhbir Singh Brar	Multiple Attribute Decision Making Using Analytic Hierarchy Process	-	Department of Mechanical Engineering, NIT Mizoram	NIT Mizoram	February 26 <sup>th</sup> - March 1 <sup>st</sup> , 2024

SECTION- 4

RESEARCH PUBLICATIONS

S.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1.	62	8	1		4





## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

### 1.1 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. Om Prakash	Top 2% Scientist	Stanford University, USA	International	2023
2.	Dr. Lakhbir Singh Brar	Top 2% Scientist	Stanford University, USA	International	2023

### 1.2 Patents (Applied / Granted)

Sr. 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. Rajeev Kumar & Deepak Raj	An Alpha Steam –based Stirling System for Power Generation and Method thereof	PAT199/028/24	2024	
2	Late Dr. J.P.Pandey, Dr. Rajeev Kumar, Smita Singh Rajput and Dr. Gautam Sen	A Modified Plant- Based Polysaccharide Binder, Methods of its Preparation and Use thereof	202331081603 A	2023	
3	Dr. Lakhbir Singh Brar, Dr. Dipti Prasad Mishra, Rishikesh Sharma, Dr. Om Prakash and Dr. Nirmal Kumar	A fin and tube type heat exchange,	202331078668	2023	
4	Om Prakash, Vijay Kumar Pandey, Lakhbir Singh Brar and Anil Kumar.	A Heat Storage and Release System for Energy Management in Solar Power Plant	202331080927	2023	
5	1. Dr. Anil Chandra Mahto 2. Prabhat Ranjan Mahto 3. Dr. Mukesh Sharma 4. Dr. Arkadeb Mukhopadhyay 5. Dr. Arun Kr. Kadia	A Variable Inertia Flywheel for Power Controlling and Delivering Systems	202331085600 A	2024	
6	Dr. Lakhbir Singh Brar, Dr. Om Prakash, Rishikesh Sharma	A fin and tube heat exchanger	202331083441 A	2023	



Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent (Max 50 words)
7	Dr. Lakhbir Singh Brar, Rishikesh Sharma Dr. Dipti Prasad Mishra	A fin and tube heat exchanger with inclined continuous vortex,	202431035393 A	2024	

**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1. List of Faculties**

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1	Dr. Om Prakash	Gen	Assistant Professor	Thermal	Ph.D.	26.03.2015
2	Dr. Rajeev Kumar	GEN	Associate Professor	Thermal, Plastic Deformation in Materials	Ph.D.	01.07.2002
3	Dr. Praveen Mishra	GEN	Assistant Professor	Energy, Physical Modelling	Ph.D.	23.01.2004
4	Dr. Ritwik Maiti	GEN	Assistant Professor	Fluid Dynamics, Particulate Flow	Ph.D.	31.08.2021
5	Dr. Faisal Rahmani	Gen	Assistant professor	Dynamics and vibrations	Ph.D.	09.11.2021
6	Dr. Sushanta Ghuku	SC	Assistant Professor	Solid Mechanics	Ph.D.	01.03.2023
7	Dr. Anil C. Mahato	OBC	Assistant Professor	Dynamical system modelling and control	Ph.D.	22.08.2019
8	Dr. Sushil Kumar Dhiman	GEN	Assistant Professor	Thermal	Ph.D.	05.07.2007
9	Lakhbir Singh Brar	GEN	Assistant Professor	Turbulent fluid flow	Ph.D.	13.09.2010
10	Dr. Arbind Kumar	GEN	Professor	Heat Power, Non-Conventional Energy, Rural Technology	Ph.D.	01.06.1986



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
11	Dr. Dipti Prasad Mishra	GEN	Professor	Heat Power Engineering Fluid Mechanics CFD	Ph.D.	19.12.2012
12	Dr. R. P. Sharma	GEN	Professor	Computational Heat Transfer Non-conventional energy CAD Thermodynamics Design of thermal system computational Method	Ph.D.	01.06.1986
13	Dr. Kaushik Kumar	GEN	Associate Professor		Ph.D.	19.09.2001
14	Dr. Saurav Chakraborty	GEN	Assistant Professor	Continuous Casting Production of Steel Billets and Slabs, Sessile Droplet Evaporation, Convective Drying, Reheat Furnace, Lubrication and Cooling in Machining/ Grinding, PCM based Heat Exchangers	Ph.D.	06.09.2021
15	Dr. Arun Kumar Kadian	GEN	Assistant Professor	Finite Element Analysis Machine Design Friction Stir Welding	Ph.D.	24.07.2019
16	Dr. Nirmal Kumar	GEN	Assistant Professor	Inflation mechanics dynamics and internal dissipation of soft materials subjected to large deformations	Ph.D.	08.06.2015





Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
17	Dr. Paritosh Mahata	GEN	Assistant Professor	Solid Mechanics and Design Applied Mechanics Nonlinear Vibration	Ph.D.	10.07.2016
18	Dr. Ritwik Maiti	GEN	Assistant Professor	Granular Flows; Granular Segregation; Geophysical Flows;	Ph.D.	31.08.2021
19	Dr. Arkadeb Mukhopadhyay	GEN	Assistant Professor	Machine Design Tribology Non-Destructive Testing	Ph.D.	14.08.2019
20	Dr. Abhijit Nag	GEN	Assistant Professor	Design of Machine Element Fluid Power and Control	Ph.D.	02.01.2012
21	Dr. Om Prakash Pandey	GEN	Assistant Professor	Design of Process Machine, Hydraulic Machine, Drying Technology	Ph.D.	15.07.2003
22	Dr. Richa Pandey	GEN	Assistant Professor	Mechatronics CAD/CAM Reverse Engineering Biomedical Engineering	Ph.D.	01.07.2002
23	Prof. Praveen James Sanga	GEN	Assistant Professor	Solar Energy, Heat Transfer, Computational Fluid Mechanics	Ph.D.	10.07.2007
24	Dr. Mukesh Sharma	GEN	Assistant Professor	Nuclear Safety, Two Phase Flow and Heat Transfer, Electrowetting, Measurement and Instrumentation, Refrigeration and Air- conditioning	Ph.D.	16.08.2019



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
25	Dr. Apurba Kumar Roy	GEN	Associate Professor	Fluid Mechanics Mutiphase Flow CFD Turbo Machines	Ph.D.	01.07.2022

## 1.2 Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1	Dr. Rajeev Kumar	Associate Professor	Internal Member
2	Dr. Praveen Mishra	Assistant Professor	Internal Member
3	Dr. D. P. Mishra, Mech. Engg.	Professor	Internal Member
4	Dr. R. P. Sharma, Mech. Engg.	Professor	Internal Member
5	Dr. Kaushik Kumar, Mech. Engg	Associate Professor	Internal Member
6	Dr. A. K. Roy, Mech. Engg	Associate Professor	Internal Member
7	Dr. Arun Kumar Kadian	Assistant professor	Internal Member
8	Dr. Gautam Sarkhel, Dept. of Chemical Engg.	Professor	Internal Member
9	Dr. Joyjeet Ghose, Prod. Engg	Associate Professor	Internal Member
10	One Representative (BIT Patna)		
11	One Representative (BIT Deoghar)		
12	One Representative (UG Student)		
13	One Representative (PG Student)		
14	Dr. S.K. Dash Department of Mechanical Engineering IIT, Kharagpur – 721 302, India	Professor (HAG)	External Member
15	Mr. Deepak Mishra Tata Steel Limited, Jamshedpur – 831001 India.	Head – Project Procurement	External Member
16	Mr. Prabhas Kumar RDCIS, SAIL, Ranchi	DGM (HOD, Energy Conservation)	External Member
17	Dr. Bharat Bhushan IT Tata Metaliks Ltd. Kharagpur, India	Chief Digital Officer, GM-Project	External Member
18	Dr. M.K. Sinha Department of Mechanical Engineering N.I.T., Jamshedpur, Jharkhand – 831014	Professor	External Member
19	Sri Amit Kumar Pandey, USHA MARTIN TATI SILAWAI, RANCHI	G.M.	External Member



Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
20	Dr. Dayal Ramakrishna Parhi Department of Mechanical Engineering NIT Rourkela, Odisha -769 008	Professor (HAG)	External Member
21	Dr. Swarup Kumar Mahapatra School of Mechanical Sciences IIT Bhubaneswar - 752050	Professor (HoS)	External Member

### 7.1 Students Placed for the Academic Years

Name	Bachelors		Masters		PhD	
	Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Abhinav Pratham	BTECH/10168/20	Tata Bluescope Steel				
Abhishek Kumar	BTECH/10292/20	SNL Bearings Ltd.				
Abhishek Kumar Mishra	BTECH/10605/20	ZS Associates				
Abhishek Soren	BTECH/10753/20	TATA STEEL				
Adarsh Singh	BTECH/10728/20	Adrosonic				
Ajitesh Harshit	BTECH/10282/20	Walmart Global Tech				
Akshat raj	BTECH/10602/20	Reliance Industries				
Alok Kumar	BTECH/10555/20	EXL Service, Godrej & Boyce				
Amit Kumar	BTECH/10550/20	Aditya Birla Group				
Aniket Kumar	BTECH/10392/20	Aditya Birla Group				
Ansh Trivedi	BTECH/10395/20	PwC India				
Anurag Gupta	BTECH/10551/20	Adrosonic				
Anurag Pathak	BTECH/10269/20	Axis Bank				
Apurb Ayush Topno	BTECH/10526/20	L&T Construction				



Name	Bachelors		Masters		PhD	
	Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Aushmi Gopal	BTECH/10309/20	Reliance Industries				
Avinash Kumar Lakra	BTECH/10220/20	Reliance Industries				
Ayush Rajesh Singh	BTECH/10314/20	Reliance Industries				
Bhole Nath Singh	BTECH/10525/20	L&T				
Chiranjeev	BTECH/10194/20	VISA STEEL LIMITED				
Debanshu kumar manki	BTECH/10143/20	TATA STEEL				
Devang Vatsa	BTECH/10390/20	Bain Capability Network				
Dewal Ambani	BTECH/10132/20	L&T				
Dhruv Vansh	BTECH/10141/20	TCS				
Ehtesham Siddique	BTECH/10400/20	Axis Bank				
Hari saurabh dwivedi	BTECH/10391/20	L&T				
Harshit Kumar Agarwal	BTECH/10519/20	NA				
Hritik Keshri	BTECH/10247/20	L&T Construction				
Jaswanth Lankapalli	BTECH/10657/20	Shyam Metalics				
Kaushik Kumar Pattnaik	BTECH/10461/20`	ZS Associates				
Kaustav Mitra	BTECH/10155/20	Adrosonic				
Kumar Harsh	BTECH/10457/20	Tata Steel				



Name	Bachelors		Masters		PhD	
	Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Kumar Piyush Aman	BTECH/10398/20	Shyam Metalics				
Lakshya Maheshwari	BTECH/10520/20	Adrosonic				
Lohitaksha Malhotra	BTECH/10600/20	Cisco				
Mahesh Sardar	BTECH/10259/20	Vishvaraj Environment Pvt. Ltd. (VEPL)				
Md Attesar Ahmad	BTECH/10458/20	EXL				
Mohit Kumar Mishra	BTECH/10083/20	Deloitte				
Pariksheet	BTECH/10729/20	ABG				
Prakhya Vyas	BTECH/10731/20	ZS Associates				
Pranit	BTECH/10276/20	Tredence Inc.				
Pranjal	BTECH/10524/20	Orient Electric				
Prasidham Sinha	BTECH/10516/20	PwC, India				
Pratyush Tiwari	BTECH/10569/20	Venture Labs				
Priyanshu Kumar Singh	BTECH/10760/20	ZS Associates				
Rahul Raj Murmu	BTECH/10219/20	SNL Bearings Ltd.				
Rajat Ravi	BTECH/10658/20	Nuvoco Vistas Corporation Limited				
Rishav Mittal	BTECH/10277/20	NBC Bearing				
Ritika	BTECH/10231/20	Tata Steel				
Ronit Nag	BTECH/10142/20	ZS Associates				
Roshan Tiwari	BTECH/10660/20	Reliance Industries				
Saket Kumar Sinha	BTECH/10686/20	Aditya Birla Group				





Name	Bachelors		Masters		PhD	
	Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Sharad Oraon	BTECH/10601/20	Reliance Industries				
Shashank Kulshresth	BTECH/10284/20	ZS Associates				
Shashi Shekhar Singh	BTECH/10515/20	I & T				
Shivam Raj	BTECH/10399/20	TCS				
Siddarth Banerjee	BTECH/10518/20	Adrosonic				
Siddharth Singh	BTECH/10140/20	PwC India				
SOURAV JHA	BTECH/10736/20	Reliance Industries				
Sunny Kumar Rajak	BTECH/10139/20	reliance Industries				
Vancha Bhaavan Reddy	BTECH/10633/20	ZS Associates				
Varun Sha	BTECH/10011/20	ZS Associates				
Vedant Yash	BTECH/10221/20	Realization Technologies				
Vivek Raj	BTECH/10153/20	ZS Associates				
Wricheek Adhikari	BTECH/10417/20	Larsen & Tubro				
Yash Sharma	BTECH/10460/20	Miebach consulting				
Manas Raj	BTECH/10394/20	Tata Bluescope Steel				
Vaibhav Saxena	BTECH/10554/20	Adrosonic				
Naveen Kumar	BTECH/10251/20	Axis Bank				
Patil Prashant Sampatrao	BTECH/10702/20	Visa Steel				
Rahul Kumar Singh	BTECH/10176/20	Realization Technologies				
Siddharth Rathore	BTECH/10568/20	NBC Bearings				



7.2 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Prof Gautam Biswas, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Uttar Pradesh	04-05 April 2024	
2.	Prof. Pradip Dutta, Professor, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru, Karnataka	04-05 April 2024	
3	Prof. Prasanta Kumar Das, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal	04-05 April 2024	
4	Prof. Partha Pratim Bandyopadhyay, Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal	04-05 April 2024	

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
5	Dr. Jeevanjyoti Chakraborty, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, West Bengal	04-05 April 2024	
6	Dr. Shital Garg, Scientist E, Solid State Physics Laboratory, Defence Research and Development Organisation, New Delhi	04-05 April 2024	
7	Prof. Anil Kumar, Professor, Department of Mechanical Engineering, Delhi Technical University, New Delhi	04-05 April 2024	
8.	Dr. K.K. Singh, Associate Professor, Department of Mechanical Engineering, IIT ISM Dhanbad.	18 December, 2023.	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
9.	Dr. Indranil Chatteraj, Ex-Director, NML Jamshedpur.	19 December, 2023.	
10.	Dr. Manab Mallik, NIT Durgapur.	22 December, 2023	
11.	Dr. Nitin P Wasekar, ARCI Hyderabad	22 December, 2023	
12.	Dr. Soupitak Pal, Senior Scientist, CGCRI Kolkata	23 December, 2023	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
13.	Dr. Nisha Verma, Assistant Professor, MNIT Jaipur	23 December, 2023	
14.	Dr. Ratnakar Das, Assistant Professor, NIAMT Ranchi.	23 December, 2023	
15.	Dr. Nitya Nand Gosvami, Associate Professor, IIT Delhi.	24 December, 2023	
16.	Dr. Soumya Gangopadhyay, Associate Professor, IIT Bhilai.	21 December, 2023	





Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
17.	Dr. Jyotsna Dutta Majumdar, Professor, IIT Kharagpur.	20 December, 2023	

**B. Special Initiatives, if any:**

1. **Student section** formed under the banner of the American Society of Mechanical Engineers, named as **ASME BIT Mesra student chapter**. 16 UG students and 1 faculty member has availed ASME membership and will conduct student activities in the upcoming session.











**b) Projects Completed**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	NA					

**SECTION- 3**

**SEMINAR/ CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
	Summer Internship Programme on Hands-on Training on Basics of Laboratory Animal Handling and Pharmacological Research	Dr. Ashok Kumar Pattnaik	Institute Funded	31.05.24 to 14.06.2024
	One Day Faculty Development Workshop entitled “Paradigms of Wound Management: From Nature to Bench”	Dr. Biswatrish Sarkar	SERB-EMEQ Project (File Number: EEQ/2021/000850)	21.03.24
	Two Days Workshop on Research Facility Training Program	Dr. Kishanta Kumar Pradhan	SERB-CRG Project	7.12.23 to 8.12.23

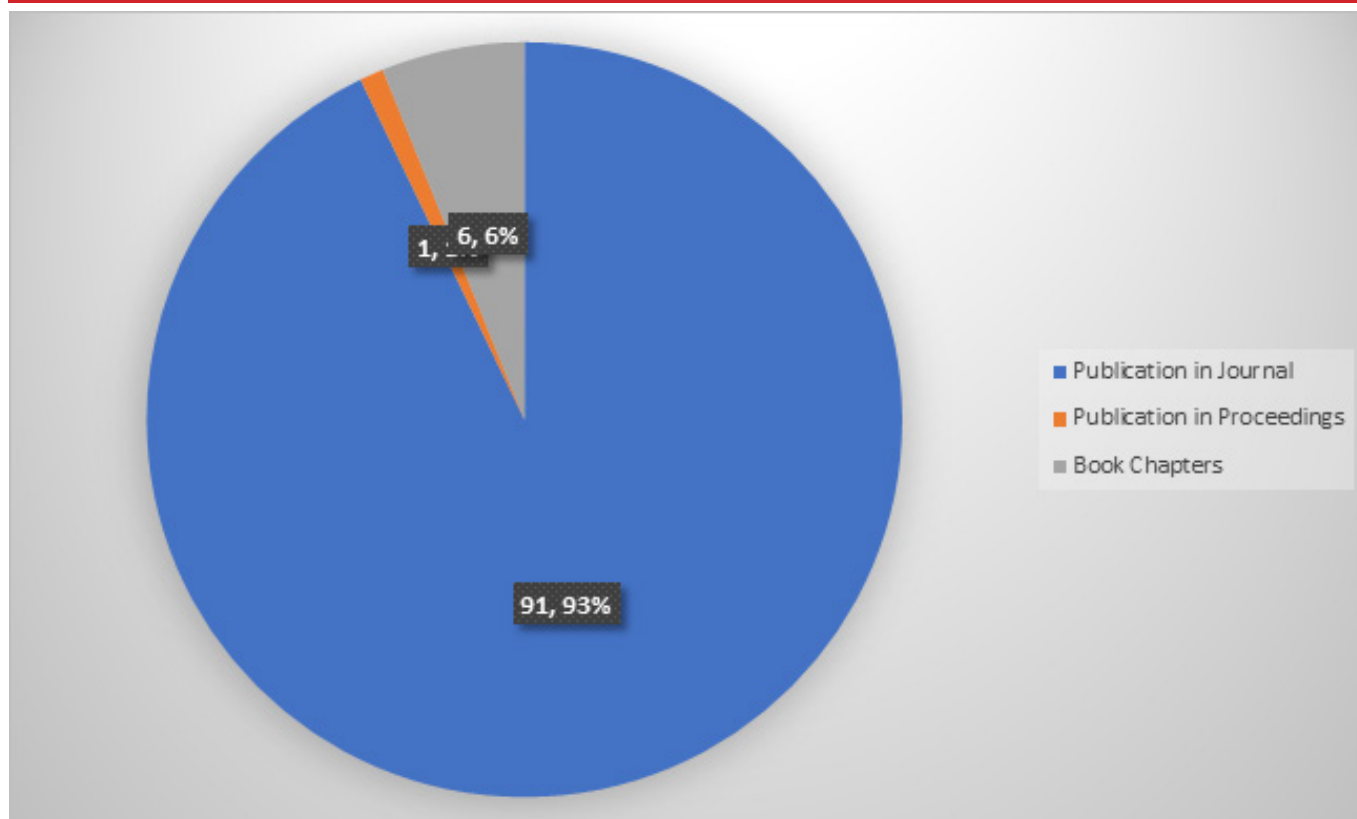
**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar / FDP	Funding Agency	Organizers	Venue	Date
	Dr. Biswatrish Sarkar	National Conference on “Recent Trends in Biosciences, Biotechnology, and Bioinformatics: (RTBBB-2023)”	--	Department of Botany, Berhampur University (BU), Berhampur (Odisha).	Berhampur University	November 21-22, 2023



## SECTION- 4

## RESEARCH PUBLICATIONS



## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

## 1.1 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
	Dr. M. P. Chopra	IPA Fellowship	Indian Pharmaceutical Association	National	2024
	Dr. Animesh Ghosh	IPA-ACG SCITECH Innovation Award	Indian Pharmaceutical Association	National	2024

## 1.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year
	Animesh Ghosh	Pharmaceutical co-crystal composition of piperazine and sulfamethoxazole and method thereof	539514	2024
	Animesh Ghosh	Novel pharmaceutical acetazolamide based compounds and method of preparation thereof	202331051036	2023



Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year
	Venkatesan Jayaprakash	3-(2-hydroxyphenyl)-5-phenyl-4,5-dihydro-1H-pyrazole derivatives and method of preparing the same	455777	29/09/2023
	Trishna Bal	A biopolymers hydrogel based dosage form and method of preparation thereof	202331071051A	18/10/2023
	Trishna Bal	A device for developing Semisynthetic derivatives	413691-001	16/04/2024
	Swastika Ganguly	Thiazolidine-2,4-dione derivatives, their synthesis and uses	434035	07-06-2023
	Swastika Ganguly	Thieno[2,3-d] Pyrimidines as COX-2-Inhibitors	US 11932656 B1	October 6, 2023
	Swastika Ganguly	Novel benzotriazole compounds and their methods of synthesis thereof	202431017120 A	9th March 2024
	Anima Pandey	Machine learning techniques to study the macrophages as a therapeutic target to promote diabetic wound healing.	2.02311E+11	25-01-2023
	Bapi Gorain	Thieno[2,3-d] Pyrimidines as COX-2-Inhibitors	US 11932656 B1	19/03/2024
	Biswatrish Sarkar	Microsphere-based gel for wound care with controlled drug release applications and method of synthesis thereof	202331089113A	26.1.24
	Biswatrish Sarkar	A nanofibre mat for managing wound healing, formulation and method of preparation thereof	202331078733A	01.12.23
	Biswatrish Sarkar	Polyphenolic phytochemical-reduced nanoparticles and method of synthesis thereof, for improving bioactivity	202331071055A	27.10.23
	Biswatrish Sarkar	Bioactive extract reduced in-situ nanoparticle-based hydrogel formulation and preparation method thereof, for wound care	202331066305A	20.10.23
	Biswatrish Sarkar	A method for fortification of whole grain puffed rice	2.02331E+11	06.10.23
	Santanu Ghosh	A System and Formulation for the Development of Chitosan and Polyvinyl Alcohol Airgel Loaded with Ketoconazole	DE202023107713U1	02.02.24
	Pran Kishore Deb	Substituted 1, 3, 4-oxadiazole derivatives as anti-tubercular agents.	US1 11998532B1	04-06-2024
	Pran Kishore Deb	3-Cyano 4,5-diphenyl furan-2-carboxamides as potential antitubercular agents.	US 11987563B1	21/05/2024
	Pran Kishore Deb	(6-Methyl-4-substitutedphenyl-2-oxo/thioxo-1,2,3,4-tetrahydropyrimidin-5-yl)(piperidin-1-yl) methanones as anti-tubercular agents.	US 11986476B1	21/05/2024
	Pran Kishore Deb	Oxoimidazolidine derivatives as anti-tubercular agents.	US 11981643B1	14/05/2024



Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year
	Pran Kishore Deb	7-isopropyl 1-ethyl/methyl 3-(substituted benzoyl)-2-substituted indolizine-1, 7-dicarboxylates as larvicidal agents.	US 11981674B1	14/05/2024
	Pran Kishore Deb	Substituted 7-amino-3-(substituted benzoyl) indolizine-1-carboxylates as anti-tubercular agents.	US 11976066B1	07-05-2024
	Pran Kishore Deb	Adenosine receptor activity of methyl/ethyl 3-(substituted benzoyl)-6, 8-dimethylindolizine-2-substituted-1-carboxylates.	US 11974991B1	07-05-2024
	Pran Kishore Deb	{5-chloro-2-(2-(3-(substitutedphenyl)-1,2,4-oxadiazol-5-yl)ethyl)phenyl}(phenyl)methanones as larvicidal agents.	US 11970470B1	30/04/2024
	Pran Kishore Deb	5-(3-substitutedphenyl)-pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,8H)-trione derivatives as anticancer agents.	US 11964982B1	23/04/2024
	Pran Kishore Deb	Ethyl 2-substituted-1-(substitutedbenzoyl)-7-methylpyrrolo[1,2-a]quinoline-3-carboxylate derivatives as anti-tubercular agents.	US 11938120B1	26/03/2024
	Pran Kishore Deb	Thieno [2,3-d]pyrimidines as COX-2 inhibitors.	US 11932656B1	19/03/2024
	Pran Kishore Deb	5-(3-substituted phenyl)-pyrimido[4,5-d]pyrimidine-2,4,7(1H,3H,8H)-trione derivatives as anticancer agents.	US 11932649B1	19/03/2024
	Pran Kishore Deb	Substituted 7-methyl quinoline derivatives as antitubercular agents.	US11926627B1	12-03-2024
	Pran Kishore Deb	4-amino-5-(4-fluoro-3-phenoxyphenyl)-4H-1,2,4-triazole-3-thiol derivatives as antifungal agents.	US11926602B1	12-03-2024
	Pran Kishore Deb	1-2(-(substitutedphenyl)-2-oxoethyl)-4-(isopropoxycarbonyl)pyridin-1-ium bromides as anti-tubercular agents.	US11919860B1	05-03-2024
	Pran Kishore Deb	(6-methyl-4-substitutedphenyl-2-oxo/thioxo-1,2,3,4-tetrahydropyrimidin-5-yl)(piperidin-1-yl) methanones as antitubercular agents.	US11912683B1	27/02/2024
	Pran Kishore Deb	Benzylidene derivatives of fenobam as anti-inflammatory agents.	US11905279B1	20/02/2024
	Pran Kishore Deb	Substituted phenyl quinolin-1-ium bromide derivative as anti-tubercular agents.	US11884631B1	30/01/2024
	Pran Kishore Deb	5-(substitutedphenyl)-7-imino-7,8-dihydropyrimido[4,5-d]pyrimidine-2,4(1H,3H)-dione analogues as anti-inflammatory agents.	US11884677B1	30/01/2024
	Pran Kishore Deb	Ethyl 2-substituted-1-(substitutedbenzoyl)-7-methylpyrrolo[1,2-a]quinoline-3-carboxylate derivatives as anti-tubercular agents.	US11845746B1	19/12/2023



**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1 Departmental Students' Activities**

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
	IPA Sponsored Pharma Cup Cricket Tournament	Vidyut Ankur, Abhijeet Kumar, Ashutosh Verma, Aayush Anant, Vedang Gautam, Priyanshu Kumar Yadav, Abhay Kumar Devbrat Mishra	Dr. M. P. Chopra	20.01.24- 17.03.24

**6.2. List of Faculties as on 30.6.2024**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Dr. (Mrs.) Papiya Mitra Mazumder	General	Professor & Head	Pharmacology	PhD	03/02/1998
	Dr. (Ms.) Swastika Ganguly	General	Professor	Pharmaceutical Chemistry	PhD	28/03/2001
	Dr. K. Jayaram Kumar	General	Professor	Pharmacognosy	PhD	06/03/2000
	Dr. Venkatesan J.	General	Professor	Pharmaceutical Chemistry	PhD	16/02/2004
	Dr. Ashok Kumar Pattnaik	General	Associate Professor	Pharmacology	PhD	15/07/2003
	Dr. Manik Ghosh	General	Associate Professor	Pharmaceutical Chemistry	PhD	14/08/2006
	Dr. Sandeep Kumar Singh	General	Associate Professor	Pharmaceutics	PhD	02/02/2009
	Dr. Animesh Ghosh	General	Associate Professor	Pharmaceutics	PhD	30/11/2009
	Dr. Anima Pandey	General	Assistant Professor	Pharmacognosy	PhD	01/07/2004
	Dr. Neelima Sharma	General	Assistant Professor	Toxicology & Pharmacology	PhD	05/02/2009
	Dr. Abhimanyu Dev	General	Assistant Professor	Pharmaceutical Biotechnology	PhD	25/06/2007
	Dr. Biswatrish Sarkar	SC	Assistant Professor	Pharmaceutical Biotechnology	PhD	09/07/2007
	Dr. Trishna Bal	General	Assistant Professor	Pharmaceutics	PhD	16/05/2008



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Dr. Kishanta Kumar Pradhan	General	Assistant Professor	Pharmaceutical Quality Assurance	PhD	01/02/2012
	Dr. Mahendra Pratap Chopra	General	Assistant Professor	Pharmacology	PhD	01/07/2002
	Dr. Bapi Gorain	General	Assistant Professor	Pharmacology	PhD	18/10/21
	Dr. Monika Dwivedi	General	Assistant Professor	Pharmaceutics	PhD	08/11/2021
	Dr. Santanu Ghosh	General	Assistant Professor	Pharmaceutical Chemistry	PhD	22/02/23
	Dr. Pran Kishore Deb	General	Assistant Professor	Pharmaceutical Chemistry	PhD	22/06/23
	Dr. Gopal Pramanik	SC	Assistant Professor	Pharmacology	PhD	26/02/24
	Dr. Nimmy Kumari	General	Assistant Professor	Pharmaceutics	PhD	28/02/24

### 1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any

Sr. No.	Name	Category	Designation	Affiliation
1.	Raweesh Chaudhary	General	Adjunct Faculty	Senior Director - Medical Strategy. (Medical Lead - Cardiology) SERB Pharmaceuticals, USA

### 1.4 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
	Dr. Papiya M. Mazumder	HOD	Chairman (Ex-Officio)
	Dr. Swastika Ganguly	Professor	Member (Internal)
	Dr. K. Jayaram Kumar	Professor	Member (Internal)
	Dr. Venkatesan J.	Professor	Member (Internal)
	Dr. Animesh Ghosh	Associate Professor	Member (Internal)
	Dr. Manik Ghosh	Associate Professor	Member (Internal)
	Dr. Anima Pandey	Assistant Professor	Member (Internal)
	Dr. Neelima Sharma	Assistant Professor	Member (Internal)
	Dr. Ashoke Sharon (Dept. of Chemistry)	Professor	Member (Internal)





Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
	Dr. Gautam Sarkhel (Dept. of Chemical Engg.)_	Professor	Member (Internal)
	Dr. Senthil Raja A. (IIT, BHU, Varanasi)	Professor	Member (External)
	Dr. Sanmoy Karmakar (Jadavpur University, Kolkata)	Professor	Member (External)
	Dr. K. Chandrashekhar (Leutis Pharmaceutical LLP, Hyderabad)	CEO	Member (External)
	Dr. Abhay Kumar Srivastava Mankind Pharma Ltd.	President, Operations	Member (External)

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Achievements of Students:**

Sr. No	Name of Student with Roll Number	Achievement/Position/ Award etc	Organised by	Date and Venue
	Ms. Shrimanti Chakraborty (MPH/10037/23)	Khorana Program of Scholars	The Department of Biotechnology (DBT), Govt. of India, Indo-U.S. Science and Technology Forum (IUSSTF)	23.05.24-16.08.24 At Purdue University
	Ms. Soumi Chakraborty (MPH/10043/22)	3rd Prize in the Poster Session at the International Conference on Pharmacy and Healthcare NATCONPH	NSHM Institute of Health Sciences, NSHM Knowledge Campus, held at Kolkata	29th – 30th September 2023

**7.2 Students Placed for the Academic Years**

Bachelors		Masters	
Name, Roll Number	Organization	Name, Roll No.	Organization
Biswasarathi Basak BPH/10024/20	Alkem Laboratories Ltd.	Priyamjeet Das MPH/10044/22	Frasenius Kabi
Darshita Ranjan BPH/10041/20	Biocon	Deepali MPH/10026/22	Torrent pharma
Gracy Priya BPH/10053/20	MGB & CO LLP	Isha Rai Mph/10007/22	Torrent pharma





Bachelors		Masters	
Mayank Manish BPH/10054/14	Birla Institute of Technology, Mesra, Ranchi	Shreya Sharma MPH/10002/17	BIT Mesra
Madhu Kumari BPH/10032/15	Birla Institute of Technology, Mesra, Ranchi	Priyanka Chandra MPH/10045/17	BIT Mesra
Manisha Kumari BPH/10026/14	Birla Institute of Technology, Mesra, Ranchi	Swadesh Kumar Pattanik MPH/10048/17	BIT Mesra
Satish Kumar BPH/10055/14	Birla Institute of Technology, Mesra, Ranchi	Sweta Kar MPH/10008/17	BIT Mesra
Rohit Kumar BPH/10042/14	Birla Institute of Technology, Mesra, Ranchi	Tanishk Saini MPH/10022/18	BIT Mesra
Puja Lal BPH/10015/14	Birla Institute of Technology, Mesra, Ranchi	Nikita Nayak MPH/10045/18	BIT Mesra
Pallavi Behra BPH/10038/14	Birla Institute of Technology, Mesra, Ranchi	Shambhavi Mph/10002/2018	Institute of Nano Science and Technology (INST- IISER MOHALI)
Ashutosh Kumar BPH/10011/14	Birla Institute of Technology, Mesra, Ranchi	Suman Kumari Shaw Mph/10039/2018	Nirma University
Shivangi Kumari BPH/10037/14	Birla Institute of Technology, Mesra, Ranchi		
Somi priya BPH/10046/14	UIPS, Punjab University		
Shreya BPH/10029/15	Chandragupta Institute of Management, Patna	Srijita Sen MPH/10001/2019	NIPER Guwahati
Ishan Moitra BPH/10001/15	BITS, Pilani, Pilani Campus	Amit Raj MPH/10025/2019	BIT Mesra
Priyanshu Bharadwaj BPH/10019/15	Universit� de Bourgogne	Rahul Ghosh MPH/10036/2019	BIT Mesra
Suchita Shalini BPH/10025/15	NIPER,Guwahati	Satish Kumar MPH/10015/2019	BIT Mesra
Anshu Kumar BPH/10054/15	Jamia Hamdard	Rohit Kumar MPH/10043/2019	BIT Mesra
Jagriti Kumari BPH/10028/15	Jamia Hamdard		
Tahira Aziz BPH/10047/15	Delhi Institute of Pharmaceutical Science and Research		
Uzma Aliya BPH/10022/15	Jamia Hamdard		
Parth Rathee BPH/10009/15	Miami University		
Abhikriti Sharma BPH/10028/16	University Institute of Pharmaceutical Sciences, Panjab University		
Nikhil Kumar BPH/10016/16	Jamia Hamdard, New Delhi- 110062		



Bachelors		Masters	
Titikshya Pradhan BPH/10023/16	Jamia Hamdard		
Mahima K. Prasad BPH/10026/16	Manipal Academy of Higher Education		
Pawan Kumar Mahto BPH/10024/16	Birla Institute Of Technology , Mesra		
Gulshan Madhur Bph/10009/16	Birla Institute Of Technology , Mesra		
Asha kiran Tudu BPH/10020/16	NIPER Hyderabad		
Abhishek Sarkar BPH/10047/16	National Institute of Pharmaceutical Education and Research , Ahmedabad		
Arpita Priyadarshini BPH/10010/16	KIIT School Of Management		
Priyambada Rai BPH/10049/16	Birla Institute Of Technology , Mesra		
Prakhar Prince BPH/10017/16	NIPER Hyderabad		
Sonam Gupta Bph/10002/16	Birla Institute Of Technology , Mesra		
Yogita jindal BPH/10005/16	NIPER Ahemdabad		
Aastha Sharma Bph/10044/16	Jamia humdard		
Komal kumari BPH/10006/16	Niper SAS Nagar		
Misha Shrivastava Bph/10011/16	Birla Institute Of Technology , Mesra		
Muskan Gupta BPH/10006/18	Birla Institute Of Technology , Mesra		
Saloni Anand BPH/10007/18	Birla Institute Of Technology , Mesra		
Rashmi Kumari BPH/10010/18	Birla Institute Of Technology , Mesra		
Dishani Das BPH/10015/18	Birla Institute Of Technology , Mesra		
Isha Rai BPH/10027/18	Birla Institute Of Technology , Mesra		
Juhi Kumari BPH/10019/18	Xavier Institute Of Social Science, Ranchi		
Kaushiki priya BPH/10031/18	Jadavpur University, Kolkata		



Bachelors		Masters	
Aman Kishore Mahto BPH/10035/18	BIT, Mesra		
Sawan Satyam BPH/10020/18	Xavier Institute Of Management, Jabalpur		
Akanksha Jha BPH/10030/18	NIPER, Ahmedabad		
Kumar Abhishek BPH/10046/18	Great Lakes Institute Of Management, Gurgaon		
Md.Sayum Ansari BPH/10043/18	Jamia Hamdard University, Delhi		
Sagar Singh Shyamal BPH/10044/18	Banaras Hindu University(BHU)		
Sparsh Ekka BPH/10047/18	IIM, Calcutta		
Simran BPH/10049/18	Central University Of South Bihar, Gaya		
Ritika Sinha BPH/10053/18	Central University, Uttarakhand		
Namrata Kumari BPH/10057/18	BIT, Mesra		
Shruti Shreya BPH/10060/18	BITS, Pilani		
Deepali BPH/10062/18	BIT, Mesra		

#### 7.4 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Prof. Namrita Lall University of Pretoria	11.12.2023	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
2.	Mr. Ankur Ranjan Global Program Manager- Oncology, Boehringer Ingelheim	06.04.2024	
	Mr. Raweesh Chaudhary Senior Strategy Director SERB Pharmaceuticals, USA	05.03.2024	
	Mr. Abhay Kumar Sriavastava	03.02.2024	

## 7.5 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Dr. Sanmoy Karmakar (1992 Batch, B. Pharm)	Professor & Head, 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



Sr. No	Name, Batch and Affiliation	Short Description
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 Vice President / Global Head Small Molecules CMC Dev at Roche-GenentechPharma Group (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 Ltd an leading CRO in the country.

## 7.6 Best Thesis Project (UG/PG)

### UG:

1. Development of HPTLC Analysis Method for Simultaneous Estimation of Different Phytoconstituents in Raspberry Fruit Extract (Subarna Das, BPH/10021/20)
2. Formulation and characterization of amorphous solid dispersions of fenofibrate (Snigdha Chakraborty, BPH/10036/20)

### PG:

1. Development of Hypoxic Condition and Its Validation Using New Carbonic Anhydrase Inhibitor in murine models (Namrata Kumari, M. Pharm-Pharmacology-MPH/10025/2022)
2. Impact of Succinic Acid and Ultrasonication on the Physicochemical and excipient properties of maize starch (Chandan Kumar, M. Pharm-Pharmacognosy, MPH/10032/22)
3. Formulation and Characterization of quercetin nanoparticle incorporated in methotrexate bigels (Rashmi Kumari, M. Pharm-Pharmaceutics, MH/10031/22)
4. Development and characterization of vegetable

oil derived biodegradable polymers with antimicrobial properties (Shrinjay Ghosh, M. Pharm-Pharmaceutical Chemistry, MPH/10009/22)

5. Improved delivery of miconazole nitrate using nanoemulgel platform: QbD driven feasible process and *in-vitro* assessment (Deepali, M. Pharm-Pharmaceutical Quality Assurance, MPH/10026/22)

## 8. Infrastructure Development.

- 4 new laboratories for research of division of Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmaceutical Quality assurance have been crated on the top floor of the building
- Procurement of advanced instruments is under process to develop an animal cell culture laboratory

## 9. Special Initiatives, if any:

- The department has undertaken initiative to invite alumni to mentor students for preparation for GPAT examination and higher studies in foreign universities
- The department is in discussions with



research laboratories like Agharkar Institute and other foreign institutions to undertake MoU for research and academic collaboration.

- 55 undergraduate students have undertaken industrial training during May-June, 2024 in companies like Mankind Pharma, Sun Pharma, Alkem Pharma, MacLeod's Pharma etc.



## Department of Physics



### SECTION 1

### DEPARTMENTAL PROFILE

#### 1. About the Department/Off Campus: (In Brief)

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.

### 1.1 Established Year: 1955

### 1.2 Courses Offered and Approved Intake

Courses Offered	Approved Intake
Five-Year Integrated M.Sc. Physics	30
Two-year M.Sc. Physics	15

### 1.3 Thrust Areas of the Department:

1. Condensed Matter Physics (Experimental and Computational)
2. Nuclear and Particle Physics
3. Cosmology
4. Atmospheric Physics
5. Photonics
6. Thermodynamics and Statistical Physics
7. Biophysics and Bioinformatics

### 1.4 Number of Faculties 19 (Nineteen)

### 1.5 Brief Description High-end Lab Facilities

- Raman Spectrometer
- Ferroelectric Loop tracer





RF PECVD  
 Microwave PECVD  
 Thermal CVD  
 Plasma Diagnostics System  
 Hot filament CVD  
 RF DC Magnetron  
 Three Target Magnetron Sputtering System  
 Plasma Nitriding Unit  
 Cryogenic Setup  
 Atmospheric Pressure Plasma Jet  
 Hydrothermal Unit  
 Thickness Profilometer  
 Solar Simulator

**1.6 Brief Description of High-end Equipment**

Raman Spectrometer  
 Ferroelectric Loop tracer  
 RF PECVD  
 Microwave PECVD  
 Thermal CVD  
 Plasma Diagnostics System  
 Hot filament CVD  
 RF DC Magnetron  
 Three Target Magnetron Sputtering System  
 Plasma Nitriding Unit  
 Cryogenic Setup  
 Atmospheric Pressure Plasma Jet  
 Hydrothermal Unit

Thickness Profilometer  
 Solar Simulator

**1.7 Number of Projects in the Last Five Years: 14 (Fourteen)**

**1.8 Achievement of the Department in the last three years. (In Brief)**

- Conducted DAE Solid State Physics Symposium
- MoU signed with SM Technologies
- MoU signed with DC University, Republic of South Korea
- Five-day workshop on “Advances in photonics & spectroscopy”
- Three-day Conference on “Field Theoretic Aspects of Gravity” (FTAG2023)
- One Week Workshop on “High End Nanostructured Devices”
- DST Stuti Training Program on “Nanostructured Materials and Devices: Fabrication, Characterization and Applications”

**1.9 Activities of Department (In Brief)**

- Five-day workshop on “Advances in photonics & spectroscopy”

**SECTION 2 RESEARCH PROJECTS**

**2.1 Sponsored Projects (Research and Consultancy) Ongoing Projects:**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Nanofluids based solar heat harvesting through modified hybrid PV-TEG panel for sustained solar output and extended life span	Co-PI (Dr. Sanat Kumar Mukherjee)	SERB	03/2024	Rs. 37,12192	03/2027





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
5.	Dr. Ram Krishna Dewanjee	XVII Workshop on Particle Physics and Phenomenology (WHEPP) 2023	IIT Gandhinagar in association with TIFR, Mumbai	Department of Physics, IIT Gandhinagar	IIT Gandhinagar	2-11 January 2024
6.	Dr. Ram Krishna Dewanjee	Workshop on Frontier Topics in Collider Physics (FTCP-2024)	IISER Pune in association with TIFR, Mumbai	Department of Physics, IISER Pune	IISER Pune	14-17 February 2024
7	Dr. S. K. Sinha	76th ACCELERATOR USERS' WORKSHOP	IUAC, New Delhi	IUAC	New Delhi	JULY 05, 2024
8	Dr. Madhu Priya	ICHEAM 2024		Department of Physics, Banaras Hindu University	Varanasi	22-24 April, 2024
9	Dr. Madhu Priya	Bifurcations and Instabilities in Fluid Dynamics (BFID 2024)		University of Edinburgh, Edinburgh, UK	Edinburgh, UK	24-28 June, 2024

**SECTION-4**

**RESEARCH PUBLICATIONS**

S.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	53	7	0	0	6

**SECTION-5**

**AWARD/PATENT/COLLABORATIONS**

**1.1 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





Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
6.	Dr. Sanat Kumar Mukherjee	GEN	Assistant Professor	Materials Science	PhD	01.09.2009
7.	Dr. Ram Krishna Dewanjee	GEN	Assistant Professor	Experimental Particle Physics	PhD	20.12.2021
8.	Dr. Rajyavardhan Ray	GEN	Assistant Professor	Theoretical Condensed Matter Physics	PhD	13.12.2021
9.	Dr. Rishi Sharma	GEN	Assistant Professor	Materials Science	PhD	01.04.2008
10.	Dr. Rajeev Kumar Sinha	GEN	Associate Professor	Photonics and Biophotonics	PhD	16-04-2023
11.	Dr. Rajeev Kumar	GEN	Assistant Professor	Plasma Physics	PhD	1.12.2005
12.	Dr. S K Rout	GEN	Professor	Condensed Matter Physics	PhD	14.11.2006
13.	Dr. Nishi Srivastava	GEN	Assistant Professor	Atmospheric Physics	PhD	30.8.2012
14.	Dr. Madhu Priya	GEN	Assistant Professor	Thermodynamics and Statistical Physics	PhD	24.5.2017
15.	Dr. Sourabh Lahiri	GEN	Assistant Professor	Thermodynamics and Statistical Physics	PhD	12.6.2017
16.	Dr. Dilip Kumar Singh	GEN	Assistant Professor	Optoelectronics, Condensed Matter Physics	PhD	13.6.2017
17.	Dr. Pawan Kumar Tiwari	GEN	Assistant Professor	Biophysics & Bioinformatics	PhD	1.7.2020
18.	Dr. Anupam Roy	GEN	Assistant Professor	Condensed Matter Physics	PhD	19.10.2021
19.	Dr. Suman Ghosh	GEN	Assistant Professor	Cosmology	PhD	16.12.2021

### 1.3 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





Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
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

## OTHER INFORMATION

### 7.1 Students Placed for the Academic Years

Masters	
Name, Roll No.	Organization
Shivam Kumar IPH/10026/19	Lively Technology, Information and Internet Atlanta, Georgia
Srishti Mahto SAP/10001/22	Infosys Ltd.
Saurav Shandilya IPH/10021/19	Specialty Products and Services (India)

**7.2 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations:**

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Dr. Umesh Mahatre	16.01.2024	

**8. Infrastructure Development**

1. Teaching labs renovation

**9. Any other relevant information**

- Prof. Sunita Keshri has been serving as Chairperson of the Internal Advisory Committee of BIT since 16/02/24.
- She became a member of the International Advisory Committee of SISM-2023 Conference, conducted by Moscow State University, during 2-6 July, 2023.
- She has also served as Resource person of 13th Vidyasagar Satyendra Nath Bose National Workshop on Emerging Fields in Theoretical and Experimental Physics (EFTEP-2024), during 5th March – 7th March 2024, organized by Vidyasagar University, Medinipur, WB.

**10. Special Initiatives, if any:**

- An informal physics discussion group ChalkTalks was established, inviting presentations on topical interests and research. List of talks delivered by researchers of the department in the duration:
  1. Introduction to Quantum entanglement. Dr. Sourabh Lahiri.
  2. Ferroelectrics: An introduction. Mr. Dhanranjan Kumar.
  3. The hunt for God particle - I. Dr. R K Dewanjee.
  4. The hunt for God particle - II. Dr. R K Dewanjee.
  5. The hunt for God particle - III. Dr. R K Dewanjee.
  6. Quantum heat engine using spin bath. Mr. Ashutosh Kumar.

## Department of Production and Industrial Engineering



### SECTION 1

### DEPARTMENTAL PROFILE

#### 1. About the Department:

Department of Production & Industrial Engineering since its inception in 1964 (previously Production Engineering) has been trying to impart quality education to undergraduates and train them to meet the demands of the

manufacturing industry. The department has established links with the industry, R&D organizations, consultancy organizations and academic institutes in the region in furtherance of the cause of manufacturing engineering. The department sees itself as a pathfinder of emerging technologies and techniques in the



area of production engineering and develops students to be technologically and managerially sound to meet the challenges of the open market in the present era of globalization.

The main objective of production and Industrial engineering is the integration of technology with management in planning and controlling the design, development and operation of manufacturing systems. Rapid advances in manufacturing technology, e.g., computer-controlled processes and management information systems, ERP and new manufacturing concepts like TPS, agile manufacturing, pull system etc., are reinforcing the recognition of technological, organizational, economic and human factors. Furthermore, specialized training in manufacturing technology is necessary for industries in India and abroad.

**1.1 Established Year : 1964**

**1.2 Courses Offered and Approved Intake:** B.Tech. in Production and Industrial Engineering (Intake 60) and M.Tech. in Production and Industrial Engineering (Intake 12)

**1.3 Thrust Areas of the Department:** Manufacturing Technology, Production Management

**1.4 Number of Faculties:** 16

**1.5 Brief Description High-end Lab Facilities:** Machine Shop, Modern Manufacturing Process Lab, FMS Lab, Welding Shop.

**1.6 Brief Description of High-end Equipment:** CNC Machining centres, Hybrid Micromachining, CNC Fiber laser system, Stir Casting

**1.7 Number of Projects in the Last Five Years:** 6

**1.8 Achievement of the Department in the last three years:** NBA Accreditation of UG course for 3 years

**SECTION 2**

**RESEARCH PROJECTS**

**2.1 Sponsored Projects (Research and Consultancy)**

**a) Ongoing Projects :**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Assessment of Tribological Properties of Graphene based Nanolubricants Developed by Ball Milling for Automotive Applications	Dr. Gayatri Paul	DST-SERB (SRG)	07-Sep-2022	32,92,340/-	2 years
2.	Laser-based manufacturing of multi-layer polymer-metal sandwich composite and performance assessment for lightweight material applications.	Dr. Bappa Acherjee	DST-SERB (CRG)	17-Feb-2023	54,39,544	3 Years









Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
3.	Gayatri Paul (attended by research scholar Anand Gaurav)	2nd International Conference on Thermo-Fluids and System Design (ICTFSD-2024)	DST-SERB	Department of Mechanical Engineering, BIT Mesra	BIT Mesra	04/04/2024 to 05/04/2024
4.	Gayatri Paul	International Conference on Advances in Aerospace and Energy Systems (IAES-2024)	BIT Mesra	Liquid Propulsion Systems Centre (ISRO)	LPSC, Valiamala, Kerala	04/04/2024 to 06/04/2024
5	Manish Oraon (attended by research scholar Ranjeet Prasad)	2nd International Conference on Thermo-Fluids and System Design (ICTFSD-2024)	DST-SERB	Department of Mechanical Engineering, BIT Mesra	BIT Mesra	04/04/2024 to 05/04/2024
6	Manish Oraon (attended by research scholar Ranjeet Prasad)	ICPCM		Department of Metallurgical and Material Engineering in NIT Rourkela	Department of Metallurgical and Material Engineering in NIT Rourkela	8-10 Dec 2023
7	Manish Oraon (attended by research scholar Ranjeet Prasad)	TRMM		Department of Material and Metallurgical	NIAMT Ranchi	19-21 November 2023
8	Abhishek Kumar Singh (Attended by Research Scholar Satrudhan Pandey)	ACED-2023		IIM Mumbai	IIM Mumbai	14th - 16th December 2023
9	Abhishek Kumar Singh (Attended by Research Scholar Satrudhan Pandey)	TRMM-2023		Department of Material and Metallurgical	NIAMT Ranchi	19-21 November 2023





Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
2.	Prakash Kumar, Dr. Binay Kumar	A hybrid metal matrix composite material and method of fabricating the same	Application no:202431028169	2024	Disclosed herein a hybrid metal matrix composite material comprising a matrix of aluminium alloy, in-situ zirconium diboride (ZrB <sub>2</sub> ) nanoparticles ranging from 1 wt% to 5wt% dispersed within the matrix and fly ash particles ranging from 1 wt% to 2wt% dispersed within the matrix, wherein said hybrid metal matrix composite material is fabricated using an ultrasonic-assisted stir casting method.

**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1. List of Faculties (as on 30.6.2024)**

Sr. No.	Name	Designation	Expertise Area	Qualification	Date of Joining
1	Prof. (Dr.) Indranil Manna	Professor	Materials Engineering	Ph.D.	3/8/2020
2	Dr.Vinay Sharma	Professor	Advanced Manufacturing, Quality Engineering	Ph.D.	26/02/1999
3	Dr.Joyjeet Ghose	Associate Professor & Head	Manufacturing Technology	Ph.D.	2/1/2006
4	Dr. Sanjay Kumar Jha	Associate Professor	Manufacturing Technology	Ph.D.	4/3/1997
5	Dr.Ritesh Kumar Singh	Associate Professor	Industrial Engineering	Ph.D.	2/1/2003
6	Dr. L.N. Pattanaik	Associate Professor	Industrial Engineering	Ph.D.	24/10/2005
7	Dr.Binay Kumar	Assistant Professor	Product Design	Ph.D.	23/6.2008
8	Dr.Somak Datta	Assistant Professor	Manufacturing Technology, Surface Engineering, Soft Computing	Ph.D.	19/9/2011



Sr. No.	Name	Designation	Expertise Area	Qualification	Date of Joining
9	Dr. Bappa Acharjee	Assistant Professor	Advanced Manufacturing, Welding	Ph.D.	5/9/2012
10	Dr. Abhishek Kumar Singh	Assistant Professor	Sustainable Manufacturing, Circular Economy	Ph.D.	22/06/2020
11	Dr. Randhir Kumar	Assistant Professor	Semi Solid Processing, Manufacturing Processes	Ph.D.	22/06/2020
12	Dr. Sanjiv Kumar Tiwari	Assistant Professor	Quality Engineering, Lean Manufacturing	Ph.D.	5/1/2021
13	Dr. Prashant Prakash	Assistant Professor	Friction Stir Welding, CFD	Ph.D.	16/8/21
14	Mr. Thakur Abhinav Amar	Assistant Professor	FMS, CAM, TQM	M.E.	16/8/21
15	Dr. Gayatri Paul	Assistant Professor	Tribology, Nanofluids	Ph.D.	17/8/2021
16	Dr. Suman Samanta	Assistant Professor	Optimization Techniques, Operations Management	Ph.D.	14/9/2021

## 1.2 Board of Studies

Sl. No.	Name	Designation	Role
	Dr. Joyjeet Ghose	Head- Production Engineering (Ex-officio)	Chairman
	Dr. L.N. Pattanaik	Associate Professor, Department of Production Engineering	Internal Member
	Dr. R.K. Singh	Associate Professor, Department of Production Engineering	Internal Member
	Dr. Somak Datta	Assistant Professor, Department of Production Engineering	Internal Member
	Prof.Utpal Baul	Dean (A&IR) and Professor, Department of Management	Internal Member
	Prof. D.P. Mishra	Professor, Mechanical Engineering Internal Member	Internal Member
	Mr. Kapil Deo Prasad	Assistant Professor, Production Engineering, BIT Mesra(Patna centre)	Internal Member
	Prof. Vinay Sharma	Professor, Production Engineering, Deoghar centre	Internal Member



Sl. No.	Name	Designation	Role
	Prof. Govind Sharan Dangayach	Professor & Head, Department of Mechanical Engineering, Malaviya National Institute of Technology, J I Nehru Marg, Jaipur – 302017	External member
	Prof. Saroj Kumar Patel	Professor , Department of Mechanical Engineering, National Institute of Technology Rourkela	External member
	Mr.Vishwajit Kumar	Senior Manager, Iron Making Division, MECON Ltd, Doranda, Ranchi	External member
	Mr. P. Pathak	DGM, Rolling Technology, R&D SAIL, Ranchi Email: ppathak@sail-rdcis.com	External member

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Students Placed for the Academic Years**

Sl. No.	Roll No. (Bachelors)	Student Name	FTE1	FTE2
1	BTECH/10666/20	PALLAV	Bain Capability Network	
2	BTECH/10608/20	MOUPRIYA GHOSH	Tata Steel Downstream Products Limited	
3	BTECH/10250/20	BIBEK RAY	Tredence	
4	BTECH/10249/20	ADITYA KUMAR	Maruti Suzuki	
5	BTECH/10441/20	SUDHANSHU	Engineers India Limited	
6	BTECH/10404/20	AASTHA SAH	Deloitte	Flipkart (Instakart Services Pvt.Ltd)
7	BTECH/10270/20	BALAJEE	ZS Associates India Pvt. Ltd.	
8	BTECH/10606/20	ABHISHEK KUMAR GHOSH	Maruti Suzuki	
9	BTECH/10684/20	VIBHANSHU SAURAV	Vedanta Limited	Engineers India Limited
10	BTECH/10559/20	ARCHIT KUMAR	ITC Ltd.	
11	BTECH/10668/20	GUNTUMADUGU VENKATA KARTHIK	Godrej & Boyce	
12	BTECH/10150/20	YASH TEKRIWAL	Deloitte	
13	BTECH/10407/20	PRAKHAR CHAUHAN	Tata Steel Downstream Products Limited	
14	BTECH/10610/20	ATUL	ZS Associates India Pvt. Ltd.	
15	BTECH/10557/20	AYUSHI AAROHI	Wisetech Global India Private Limited	Flipkart (Instakart Services Pvt.Ltd)
16	BTECH/10406/20	MANAS PRASAD	PWC India	



Sl. No.	Roll No. (Bachelors)	Student Name	FTE1	FTE2
17	BTECH/10531/20	KISHLAY KUMAR	Shree Cement	
18	BTECH/10408/20	MAHIMA PRIYA	Deloitte	
19	BTECH/10734/20	HARSH SHARMA	PWC India	
20	BTECH/10527/20	ANIRUDH CHATTERJEE	NBC Bearings	
21	BTECH/10611/20	JAIDEEP BAKSHI	Deloitte	
22	BTECH/10558/20	VELICHETI GANA SAI TEJA	Tata Consultancy Services Ltd	
23	BTECH/10530/20	STEPHEN VAIBHAV SOREN	MRS Bearings Private Limited	
24	BTECH/10333/20	SHIVAM PODDAR	ITC Ltd.	

## 7.2 Students Gone for Higher Studies for the last five years.

B.E./B.Tech	
Name, Roll Number	Organization
Rakesh Kumar Routray (BE/10670/17)	George State University
Tanisha Swain (BE/10407/15)	Georgia State University
Aditya Singh (BE/10664/16)	XLRI
Premankur ROY (BE/10655/16)	XLRI
Gautam Jegannath (BE/10057/16)	S P JAIN Management Institute
Ashutosh Mehrotre (BE/10648/2016)	ISB
Rumi Bharti (BTech//10404/18)	IIM-RANCHI
Biswayanjrt Chattoapdhyay (BE/10598/16)	S P Jain Management Institute
Utkarsh (B Tech/10667/18)	IISc. Bengaluru
Amit Kumar (BE/10704/2014)	NIT patna
Aman Mohit Minz (BTECH/10141/19)	University of Florida

## 7.3 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Prof. P. K. Ray, IIT KGP	6 May '23	



#### 7.4 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1.	Anamika Gupta	Fujitsu Americas Inc. Director
2.	Arivudai Nambi Ramachandran	Lupin Somerset Director-Biopharmaceutics
3.	Arun Chalgeri	Daiichi Sankyo Inc Director
4.	Ashu. Kr. Singh	Vejulam Pvt Ltd Chief Operating Officer & Founder
5.	Harinder Singh Grewal	Delta Airlines Director

#### 7.5 Best Thesis Project (UG):

Title: Tool path optimization in Single Point Incremental Forming (SPIF)

Students: Velicheti Gana Sai Teja (BTECH/10558/20),

Vutchula Dheeraj (BTECH/10612/20) .

Session SP/24

9. **Any other relevant information:** Professor Vinay Sharma, Member of the board of studies of Jharkhand Technical University for the year 2024-25

## Department of Remote Sensing



### SECTION 1

### DEPARTMENTAL PROFILE

#### 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.

**Department Vision:** - Be a centre of excellence in the field of Geospatial Technology education and research in the areas of Earth Resources, Environment & Climate to meet the needs of ever-increasing requirement of human resources in these fields and to cater to the larger interest of the Society and Nation.

**Department Mission:** - Impart quality education and equip the students with strong foundation that could make them capable of handling challenges of the ever-advancing geo-spatial 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.

**1.1 Established Year:** 1997

**1.2 Courses Offered and Approved Intake:**

1. M. TECH, Remote Sensing (24) 2. M. Sc., Geoinformatics (20)

**1.3 Thrust Areas of the Department:**

Derivation of spatial information through satellite and drone imaging. Big data analysis under the domain of Geospatial Technology for various applications like natural resources assessment, and monitoring, Hazards assessment, Disasters mitigation and management. GIS analysis and modelling. Planetary studies. Atmosphere and Climate change studies.

**1.4 Number of Faculties.** 7

**1.5 Brief Description of High-end Lab Facilities:**

The Department has 6 well-equipped laboratories: 1. **Digital Image Processing Lab** - the lab has 20 numbers of high-end computer systems with image processing software (Erdas Imagine v. 15 and ENVI v. 5.6), 2. **Geographic Information System (GIS) Lab** - the lab has high-end 20 numbers of computer system with Arc GIS software v. 10.8 3. **Digital Photogrammetry**







Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
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	SAC, ISRO, Ahmedabad	February 2021	30.23L	2021-2024
3.	<b>DST-FIST Level B</b>	PI: Dr. S. Payra Co-PIs: Dr. A. P. Krishna, Dr. C. Jeganathan, Dr. V. S. Rathore, Dr. Mili Ghosh Nee Lala	DST, Gol	March 2023	2.4 Cr	2023-28
4.	<b>DST-PURSE</b> To set up <i>Centre for Advanced Research on Machine Learning for Geospatial Analytics and Solutions</i> for Jharkhand State (ARMLEGS)	<b>Team CSE – Dr. Abhijit Mustafi, Dr. Sandip Dutta, Dr. Sudip K Sahana, Dr. Shamama Anwar, Dr. Debjani Mustafi</b> <b>Team RS-</b> Dr. A.P. Krishna, Dr. C. Jeganathan, Dr. Mili Ghosh Nee Lala	DST, Gol	March 2023	8.5 Cr	2023-27
5.	“Machine Learning and Deep Learning based Automatic Lunar Crater Detection using Terrain Mapping Camera-2 DEM Images”	CO-PI (Dr. C. Jeganathan) and (Dr. Mili Ghosh Nee Lala)	ISRO, DoS, Gol	24 <sup>th</sup> June, 2022	21.98 L	2022-25
6.	“Multi-Source Optimization using Deep Learning framework for Downscaling Satellite-Derived Thermal Data”.	CO-PI (Dr. C. Jeganathan)	DST-SERB	24 February, 2023	19.08 L	2023-26
7.	Prediction of ground-level particulate matter concentrations from multi-satellite AOD over the Indian subcontinent	Co-PI (Dr. S. Payra)	SAC, ISRO, Gol	2019	22.08 L	2019-2024
8.	AERONET station at Jaipur	Dr. S. Payra	GSFC, NASA	2009	Instrumental mode >10lakhs	Ongoing





**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	“Weekly Online Lecture Series on Satellite Meteorology” jointly organised by South Asian Meteorological Association (SAMA) in collaboration with Birla Institute of Technology (BIT), Mesra spanning 20 weeks	Dr. S. Payra, Member, organising committee	SAMA	2 <sup>nd</sup> September 2024 to 16 <sup>th</sup> Mar, 2024
2.	One-Week Training Workshop on Integrating Geospatial Data and Machine Learning (AI/ML) for Natural Resources Monitoring 18-22 MAR, 2024	Dr. V. S. Rathore, Convener	BIT, Mesra	18-22 March, 2024
3	National Symposium “TROPMET-2023” on Changing Dynamics of Arid Region and Impact on Weather and Climate over Indian Subcontinent	Dr. S. Payra, Organizing Secretary	Indian Meteorological Society (IMS) and Birla Institute of Technology Mesra	November 22-24, 2023. 22/11/2023 to 24/11/2023
4.	Workshop on SAR data processing and its applications	Dr. V. S. Rathore & Dr. S. Payra,	BIT, Mesra	Feb 29- March 3, 2004

**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1	Dr Swagata Payra	INAGMET-2024, BHU Varanasi	BHU	AAM and BHU Varanasi	BHU Varanasi	08th to 10th February 2024

**SECTION- 4**

**RESEARCH PUBLICATIONS**

S. No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
Faculty Publications	21	9	1	4

## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

## 1.1 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 Member, <i>Selection committee for recruitment of Assistant Professor Srinagar (a Central University) on 4 February, 2024</i>	Department of Remote Sensing & GIS Applications, Hemwati Nandan Bahuguna Garhwal University, Srinagar (a Central University)	National	4 February, 2024
2.	Dr. A.P. Krishna	Invited Expert Member, Project Evaluation Team (PET)	<i>Foundation for Innovators in Science and Technology (FIST), Indian Institute of Technology (IIT) Patna, and participated in the meeting for 'Selection of Business Plan- 8th Batch'</i>	National	July 14, 2023
3.	Dr. A.P. Krishna	Invited Lecture on <i>Introduction to Geospatial Data and Tools</i>	Workshop on <i>"Integrating Geospatial Data and Machine Learning (AI/ML) for Natural Resources Monitoring"</i> organised by Department of Remote Sensing, Birla Institute of Technology (BIT), Mesra, Ranchi	National	18 – 22 March, 2024
4.	Dr. A.P. Krishna	Invited Lecture on <i>Recent Trends in Satellite Image Processing</i>	Faculty Development Program (FDP) on <i>"Artificial Intelligence and Machine learning for Satellite Image Analysis -Matlab&amp; Python"</i> organised by Department of ECE, CMR Institute of Technology, Bengaluru	National	November 23, 2023
5.	Dr. Nilanchal Patel	Associate Editor	Journal of Forestry Research, Springer, SCIE, Scopus <a href="https://www.springer.com/journal/11676/editors">https://www.springer.com/journal/11676/editors</a>		



Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
6.	Dr. Nilanchal Patel	Associate Editor	Arabian Journal of Geosciences, Springer, SCIE, Scopus <a href="https://www.springer.com/journal/12517/editors">https://www.springer.com/journal/12517/editors</a>		
7.	Dr. Nilanchal Patel	Editor	Journal of Mountain Science, Springer, SCIE, Scopus <a href="https://www.springer.com/journal/11629/editors">https://www.springer.com/journal/11629/editors</a>		
8.	Dr. Nilanchal Patel		Journal of Ecology and Sustainable Development, Sweden <a href="http://www.isaacpub.org/EditorialBoard.aspx?ids=44">http://www.isaacpub.org/EditorialBoard.aspx?ids=44</a>		
9.	Dr. Nilanchal Patel	Member	Journal of Environmental Geology, Pulsus Journals <a href="https://www.pulsus.com/journal-environmental-geology/editorial-board.html">https://www.pulsus.com/journal-environmental-geology/editorial-board.html</a>		
10.	Dr. Nilanchal Patel	<b>Guest Editor:</b>	MDPI LAND journal: <a href="https://www.mdpi.com/journal/land/special_issues/sustainable_land">https://www.mdpi.com/journal/land/special_issues/sustainable_land</a> Special Issue: “Innovative Research Approaches & Practices towards Sustainable Land Management, Preservation & Restoration” Dr. Kleomenis Kalogeropoulos Prof. Dr. Andreas Tsatsaris Dr. Nikolaos Stathopoulos Dr. Demetrios E. Tsesmelis		





Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
			<b>Prof. Dr. Nilanchal Patel</b> Dr. Xiao Huang		
11.	Dr. Nilanchal Patel	<b>Special Issue Guest Editor:</b>	<b>MDPI Remote Sensing Journal:</b> Special Issue "Advances in Multi-Dimensional Monitoring of the Environment with Optical Satellite Images, <a href="https://www.mdpi.com/journal/remotesensing/specialissues/8988BHW0U7">https://www.mdpi.com/journal/remotesensing/specialissues/8988BHW0U7</a> <b>SCIE</b>		
12.	Dr. Mili Ghosh Nee Lala	<b>"Jharkhand Aparajita Samman"</b> for work in <b>Planetary Remote Sensing</b>	Prabhat Khabar Media house	State Level	21 <sup>st</sup> March, 2024
13.	Dr. V. S. Rathore	Invited Lecture	IEEE, GRSS, Kolkata	National	27 April 2024
14.	Dr. V. S. Rathore	Judge for Smart India Hackathon	Ministry of Education with AICTE	National	19-20 Dec, 2023
	Dr. Mili Ghosh Nee Lala	Invited Lecture on <i>Introduction to Geospatial Data and Tools</i>	Workshop on <i>"Integrating Geospatial Data and Machine Learning (AI/ML) for Natural Resources Monitoring"</i> organised by Department of Remote Sensing, Birla Institute of Technology (BIT), Mesra, Ranchi	National	18 - 22 March, 2024

## 1.2 MoUs / Collaborations :

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	MoU signed with IMD, GoI	Enhance weather monitoring and forecasting.	10th May 2024
2.	MoU signed with DFO, GODDA, GoI	Providing technical support and engaging intern for forest data generation	2024- 2027
3.	NESAC, ISRO	Research	2024
4.	Sky Map Global	Research	2024



**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1 Departmental Students' Activities**

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Field visit (M. Sc. GI students)	Rohit Lakra	Dr. Richa Sharma	25-26 Feb,2024

**6.2. List of Faculties (as on 30.6.2024)**

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1.	Dr. A.P. Krishna	Gen	Professor	Climate Change, Glaciology, Disaster Management, Planetary Science, Urban and Built Environment	PhD	
2.	Dr. C. Jeganathan	Gen	Professor	Spatial Decision Modelling, Geostatistics, Vegetation Dynamics, RSGIS Application Software Development	PhD	
3.	Dr. N. Patel	Gen/OBC	Professor	Digital Image Processing, Geospatial Analysis, Environmental RS, Urban and Transport GIS	PhD	
4.	Dr. V.S. Rathore	Gen	Associate Professor	Water Resources, Natural Hazards, Climate change and Natural resources	PhD	
5.	Dr. Mili Ghosh nee Lala	Gen	Associate Professor	GIS based Rural Planning, Environmental Modelling, Lightning, Planetary Remote Sensing	PhD	
6.	Dr. Swagata Payra	Gen	Associate Professor	Atmospheric Physics, RS for Aerosol / Air Pollution, Numerical Modelling,n	PhD	
7.	Dr. Richa Sharma	Gen	Assistant Professor	Health, Surface Mining, Tourism and Environment Studies	PhD	

**1.3 Board of Studies**

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1.	HoD, DRS	Ex-Officio	Chairman





Sr. No	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
4.	Chandana Pantula (MGI/10002/21)	Fully funded PhD Admission in University of Leicester, UK	University of Leicester, UK	May 22, 2024

## 7.2 Students Placed for the Academic Years

Masters		PhD	
Name, Roll No.	Organization	Name, Roll No.	Organization
Aditi, MGI/10009/21	Greenlight Planet India Pvt. Ltd.		
Sabnam Banu, MGI/10007/22	Remote Sensing Executive, Leads Connect, Noida	Swadhina Kole	Principal Project Associate-1(NMSHE), IARI,Pusa, New Delhi
Rani, MGI/10010/22	Remote Sensing Executive, Leads Connect, Noida		
Ankit Mondal, MGI/10017/22	R & D Technologist, Speciality Products and Services India		
Bhanu Pratap Shahi, MGI/10018/22	JRF, IIT Kanpur		
Akhil, MGI/10002/22	GIS Analyst, Skylark drones		
Saurav Deka, MT/RS/10001/22	JRF, University of Science & Technology, Baridua, Meghalaya		
Waheeda Rahman, MT/RS/10002/22	JRF, BIT Mesra		

## 7.4 Students Gone for Higher Studies for the last five years.

Masters		PhD	
Name, Roll No.	Organization	Name, Roll No.	Organization
Suparna Ghosh, MGI/10011/22	IIT ISM Dhanbad		
Damini Sharma, MGI/10007/21	IIT Kanpur	Subhadyoti bose	PRL, Ahmedabad (Post doc)
Nabeeha Jamil, MGI/10001/21	Georgia Tech, USA	Habibul	BIT Mesra
Chandana Pantaula, MGI/10002/21	University of Leicester, UK		
Sibalika Kundu, MT/RS/10007/21	BIT Mesra		



Masters		PhD	
Name, Roll No.	Organization	Name, Roll No.	Organization
Maria, S MGI/10007/20	ITC Netherlands, University of Twente		
Saurav Deka MGI/10011/20	BIT Mesra, Ranchi		
Mahesh Murmu MGI/10007/18	University of Padova, Italy		
Satyam Suman MGI/10007/18	Warwick Business School (University of Warwick)		
Vivek Rakshit MGI/10004/18	IIST, Thiruvananthapuram, Kerala		
Milan Samanta MT/RS/10007/2019	Suresh Gyan Bihar University, Jaipur		
Kshitij Divyansh MT/RS/10010/2019	BIT Mesra, Ranchi		
Rajat MT/RS/10001/2019	Hokkaido University, Japan		
Soumita Sengupta MT/RS/10007/2017	Department of Geomatics of National Cheng Kung University, Taiwan		
Rajarajan V MT/RS/10006/2019	Department of Earth Sciences, Amrita Vishwa Vidyappetham		
Ajay Godara MT/RS/10002/2018	IIT Mumbai		
Atma Deep Dutta MGI/10005/2017	Centre for Environment Technology and Planning (CEPT)		
Subhadeep Maishal MT/RS/10006/2017	IIT Kharagpur		
Rashmi Malik MT/RS/10001/2017	IIT Kanpur		
Shubham Singh MT/RS/10002/2017	BIT Mesra, Ranchi		





**7.3 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations**

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Dr. Gulab Singh, Professor, IIT Bombay	5 <sup>th</sup> April, 2024	
3	Dr. Surajit Ghosh Regional Researcher, IWMI, Sri Lanka	18-22 March, 2024	
4.	Shri. Maun Prakash, IFS DFO, Godda	May, 2024	
5	Shri Amitabh Kumar, Deputy Project Director and Operations Director, Ch-3 mission	06.12.23	

**7.4 List of Distinguished Alumni**

Sr. No	Name, Batch and Affiliation	Short Description
1.	Alok Mukherjee	Co-Founder and Director, Leads NexTech, India Pvt. Ltd.
2	Sandip Banerjee	Vice President, Aetosky, Dubai
3	Dr. Gulab Singh	Professor, IIT Bombay
4.	Bharath Settippally	Co-Founder and Director, Leads NexTech, India Pvt. Ltd.
5.	Dr. Rama Rao Nidamanuri	Professor, IISST, ISRO, DoS, Gol, Thiruvananthapuram

**7.5 Best Thesis Project (PG):** M. TECH Remote Sensing: 1. Habibul Rahman, M. Sc. Geoinformatics 1. Suparna Ghosh 2. Baby Sonal 3. Bhanu Pratap Singh Sodha and 3. Rani

**8. Infrastructure Development. 1. New Faculty cabins 2. Cabinets for instruments housing**

**3. Soundproofing of classroom partition**

**9 Any other relevant information**

**Dr. A. P. Krishna**

**International Journal Reviewer**

1. Hydrological Sciences Journal (HSJ),

- International Association of Hydrological Sciences (IAHS), Taylor & Francis Group
- 2. Scientifica, Wiley International
- 3. Environmental Earth Sciences, Publ. Springer Nature
- 4. Discover Water, Publ. Springer Nature
- 5. Earth Science Informatics, Publ. Springer Nature
- 6. Ecological Indicators, Publ. Elsevier
- 7. Landslides, Publ. Springer Nature





## Department of Space Engineering and Rocketry







## 1. About the Department

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 five ongoing projects with sanction value of more than Rs 250.00 lakhs.

**1.1 Established Year :** 1964

**1.2 Courses Offered and Approved Intake :** M. Tech in Aerospace Engineering – 24 **Ph. D. in Aerospace Engineering**

**1.3 Thrust Areas of the Department :** Aerodynamics and Rocket Propulsion

**1.4 Number of Faculties :** 6

**1.5 Brief Description High-end Lab Facilities:**

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.

**1.6 Brief Description of High-end Equipment :**

The facilities for Aerodynamics include subsonic and supersonic wind tunnels, water tunnel, calibration rig, supersonic free jet facility a new anechoic chamber facility, Shock Tube, Hypersonic Tunnel and Acoustic facility. The associated instrumentation include, Schlieren system, high-speed data acquisition system, 2-channel hot wire CTA System, dynamic pressure transducers, strain gage, pressure calibrators, high speed camera, Spectrum Analyser, Transient Flow Diagnostic System, Steady and Unsteady Pressure Transducer etc.

Rocket propulsion laboratories consist of static test firing stands for solid, liquid and hybrid rockets, pulveriser, mixers and vacuum casting units for solid and hybrid propellant preparation and propellant characterization facilities. Combustion laboratory is equipped with pressure-controlled combustion set-ups for



burn rate determination of solid propellants at high and sub-atmospheric pressure ranges and optical pyrometer to study flame morphology. A separate instrumentation laboratory is equipped with simultaneous thermal analyzer (DSC+TGA+DTG), UV-Vis spectrophotometer, bomb calorimeter, and Brookfield viscometers. All major data acquisition tasks are done via dedicated software and computers. Computing needs are fulfilled by a dedicated computational fluid dynamics laboratory housing ten terminals. It includes research grade software including ANSYS suite and MatLab.

**1.7 Number of Projects in the Last Five Years : 11**

**1.8 Achievement of the Department in the last three years.**

The Department has received several R&D Projects from various Govt Organisations such as DRDO, CSIR, DSTetc. The FIST Project Level – B is sanctioned to the Department in October 2023.

**1.9 Activities of Department**

**SECTION 2**

**RESEARCH PROJECTS**

**2.1 Sponsored Projects (Research and Consultancy)**

**a) Ongoing Projects :**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Augmentation of Flow Speed Wind Tunnel	Priyank Kumar (PI) Dr. Sudip Das (Co-PI)	DST FIST Program -2023	30.10.2023	118.00 Lakhs	
2.	Development of High Angle of Attack CFD Aerodynamics Database & Behaviour Model of Missile Configuration at Varying Geometric and Flow Parameters	Priyank Kumar (PI) Dr. Sudip Das (Co-PI) Dr. L. S. Brar (Co-PI)	AR&DB DRDO	25.06.2024	39.81 Lakhs	
3.	Aerodynamic Characterization of Reusable Launch Vehicles at Low Speeds	Priyank Kumar (PI) Sudip Das (CoPI)	RESPOND ISRO	03.12.2019	22.39 Lakhs	4 Years (03.12.2019 to 31.12.2023)
4.	Development of catalyst system for stable combustion of HAN green propellants	Dr. Shelly Biswas (PI) Dr. Rajiv Kumar (Co-PI)	ARDB	27.05.2021	30.207 Lakhs	4 Years (15.06.2021 to 31.03.2025)







**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	Short Term Courses on Machine Learning for Space Sciences	Dr. Swarup Y. Jejurkar Dr. Akriti Nigam	Nil	12.03.2024-16.03.2024

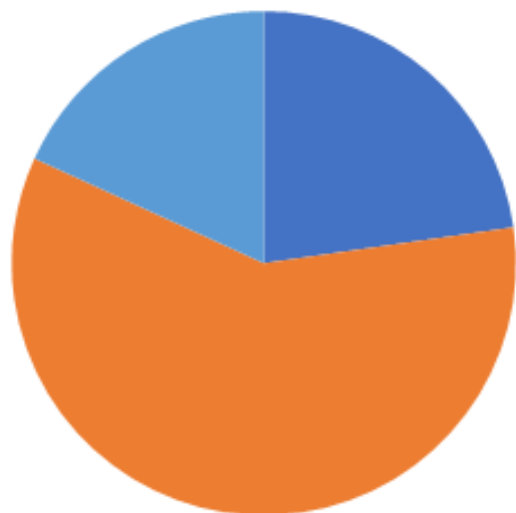
**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Rajiv Kumar	14th International High Energy Materials Conference & Exhibits, HEMCE-2024.	AR&DB	VSSC, Thiruvananthapuram	VSSC, Thiruvananthapuram	01.02.2024 to 03.02.2024
2	Partha Mondal	ICTFSD		BIT Mesra	BIT Mesra	04.04.2024 to 05.04.2024
3	Partha Mondal	RTES-2024		BIT Mesra	BIT Mesra	29.03.2024 to 30.03.2024

**SECTION- 4**

**RESEARCH PUBLICATIONS**

**Publication**



- Total Num of Publication in Journals
- Total No of Publications in Proceedings:
- Total No of Publications in Books
- Total No of Publications in Books as Co-Authored
- Total No of Publications Chapters in Edited Book



## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

### 1.1 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. Rajiv Kumar	Invited Speaker in one Workshop on Aerospace Combustion	IIT Bombay	National	5 <sup>th</sup> March, 2024
2	Dr. Rajiv Kumar	Invited Speaker in a Workshop on Hybrid rocket Propulsion for defence application	HEMRL, DRDO	National	9 <sup>th</sup> May, 2024

### 1.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
1	Ritesh Dubey, Rajiv Kumar and Shelly Biswas	“An igniter formulation for solid rocket motors and method of preparation thereof”	Application No. 202431002973	Date of Publication - 2nd February 2024, 2024	This patent is about the innovative igniter’s formulation that is superior to the existing conventional igniters.
2	Gyandeep and Rajiv Kumar	Enhancement of Regression Rate due to change in Port alignment and Configuration Techniques	Application No.: 202431030827	2024	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.
3	Nahar Jainam, Priyank Kumar Rupesh Kumar Sinha	An intelligent traffic control system, a communication system and method thereof, for prioritizing emergency vehicles	Application No.: 202431004557	2024	



**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1. List of Faculties as on 30.6.2024**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
1	Dr. Sudip Das	GEN	Professor & Dean (AAC)	Aerodynamics	Ph.D.	16.08.2001
2	Dr. Priyank Kumar	GEN	Asst. Professor & Prof. In-charge	Aerodynamics	Ph.D.	03.12.2007
3	Dr. Partha Mondal	GEN	Assistant Professor	Computational Fluid Dynamics	Ph.D.	30.03.2015
4	Dr. Rajiv Kumar	OBC	Assistant Professor	Rocket Propulsion	Ph.D.	31.03.2015
5	Dr. Shelly Biswas	GEN	Assistant Professor	Rocket Propulsion	Ph.D.	24.06.2016
6	Dr. Swarupkumar Y. Jejurkar	GEN	Assistant Professor	Rocket Propulsion	Ph.D.	03.07.2017

**1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any**

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Affiliation
1.	Dr. S. Pandian	GEN	Distinguished Scientist & Former Director	Satish Dhawan Space Centre (SDSC) SHAR, ISRO

**1.4 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	Asst. 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



Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or 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

## OTHER INFORMATION

### 7.1 Achievements of Students :

Sr. No	Name of Student <i>with Roll Number</i>	Achievement/Position/ Award etc	Organised by	Date and Venue
1	Mr. Arpit Dubey	Best Poster Presentation Award	14th International High Energy Materials Conference & Exhibits, HEMCE-2024	1-3 February 2024, VSSC, Thiruvananthapuram, INDIA
2	Mr. Arpit Dubey	Best paper presentation award	International Conference on Recent Trends in Engineering and Sciences (RTES-2024)	March 29-30, 2024, BIT Mesra, Ranchi, India

### 7.2 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Rajesh R MT/SER/10001/21	Skyroot,		
		Tirthraj Ketanbhai Bhatt MT/SER/10003/21	DRDL, Hyderabad		
		Vineet Kumar Rathi MT/SER/10004/21	IIT Goa		
		Kakadia Viral Karamshibhai MT/SER/10006/21	Mansut Space Pvt. Ltd.		
		Sankalp Jain MT/ SER/10007/21	BIT Mesra		
		Hemanta Mahananda MT/ SER/10009/21	Bhubaneshwar Engineering College		
		Garima Jain MT/ SER/10010/21	DRDL, Hyderabad		
		Vidya Gopalakrishnan MT/ SER/10012/21	DRDL, Hyderabad		





Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Prabhu Prasad Sarangi MT/SER/10014/21	Skyroot		
		Kommajosyula Nikhil MT/SER/10015/21	Skyroot		
		Padarathi Balaji Ananth MT/SER/10017/21	DRDL, Hyderabad		
		Mrinal Chandra Jha MT/SER/10018/21	DRDL, Hyderabad		
		Prakhar Jain MT/SER/10019/21	Space Cat Venture, Maldives		
		Kumari Ambika MT/SER/10020/21	DRDL, Hyderabad		

### 7.3 Students Gone for Higher Studies for the last five years.

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Sanjana Rao MT/SER/10002/21	IIT Madras	Pawan Kumar Karn PHD/SER/10051/16	IIT Kanpur
		Gyandeep MT/SER/10005/21	IIT Madras	Gulam Sarwar PHD/SER/10053/16	IIT Kanpur
		Aayushi Bohrey MT/SER/10008/21	University of Minnesota, Twin Cities, USA		
		Sounak Das MT/SER/10011/21	IIT Kanpur		
		Ritesh Dubey MT/SER/10013/21	IIT Kharagpur		
		Aditya Sharma MT/SER/10001/20	IIT Guwahati		
		Himanshu Heer MT/SER/10004/20	IIT Kanpur		
		Vishal Shetty MT/SER/10007/20	IIT Kanpur		
		Sayantana Saha MT/SER/10010/20	IIT Madras		
		Arpit Dubey MT/SER/10013/20	BIT, Mesra		

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Mohini Priya Kolluri MT/SER/10016/20	Texas A&M University, US		
		Tathagat Sarangi MT/ SER/10018/20	IIT Hyderabad		
		Prabhat Dattakumar Phondekar MT/ SER/10021/20	BIT, Mesra		
		Samanyu Raina MT/ SER/10024/20	South East Technological University, Ireland		
		Pragya ME/ SER/10002/2016	IIT Bombay		
		Prabhakar Kumar ME/SER/10014/2016	Shivnadar University		
		Akanksha Chaudhry ME/SER/10012/2014	IIT Bombay		
		Singeetham Pranay Kumar ME/ SER/10012/2016	IIT Kharagpur		
		Aravind S. ME/ SER/10011/2016	IIST Trivandrum		

## 7.4 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Shri K S Banyal (IG) and his team BSF, TC&C, Hazaribagh	27/09/2023	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
3.	<b>Dr. S. Pandian,</b> Distinguished Scientist & Former Director Satish Dhawan Space Centre (SDSC) SHAR, ISRO	29/11/2023 to 30/11/2023	
4.	A team from Winsdor University Canada	21/01/2024 to 23/01/2024	
5.	<b>Shri Unnikrishnan Nair</b> Director, Vikram Sarabhai Space Centre (VSSC)		
6.	<b>Shri Monojit Dutta</b> Chief, Product Development Research, R&D, Tata Steel		



## 7.5 List of Distinguished Alumni (Choose 5 only)

Sr.No	Name, Batch and Affiliation	Short Description
1.	Shri A. K. Chakrabarty Batch : 1972-1974	Former Director Defence Research & Development Laboratory DRDL (2012)
2	Shri Sibnath Some Batch : 1983-1985	Director Defence Research and Development Laboratory DRDL (2014)
3	Padma Shri M. C. Dathan Batch : 1984-1986	Director Satish Dhawan Space Centre (2008) Director Vikram Sarabhai Space Centre (2014)
4	Dr. D. Narayan Batch : 1989-1991	Scientist 'G' Group Director Aeronautical Development Agency (ADA)
5	Dr. S. L. N. Desikan Batch : 2000-2002	Scientist 'G' EAD, Aero Vikram Sarabhai Space Centre (VSSC)

## 7.6 Best Thesis Project (UG/PG) : Sirisha Akella (MT/SER/10001/22)

Title of the Thesis "Studies on the performance of GAP- based composite solid propellant"

**8. Infrastructure Development :** Steady and Unsteady Pressure Transducer, High Shear Mixer have been added in our existing infrastructure during the Year.

### 9. Any other relevant information :

7 Nos. of external students from different Institute/University have successfully completed their Internship Program during Summer Vacation- 2024.





## BIT Off Campus: Deoghar

### SECTION 1

### PROFILE: BIT OFF CAMPUS DEOGHAR



Figure: Institute Photograph

#### 1. About BIT Off Campus Deoghar:

The Birla Institute of Technology Mesra – Off Campus Deoghar was started in the year 2007 at Jasidih, Deoghar, under PPP mode with the Government of Jharkhand. It runs in 25 acres of land area provided by the GoJ (under MoU) with a view to spreading academic excellence in the State. Henceforth, BIT Deoghar Campus, a Birla Institute of Technology constituent, is dedicated to imparting quality education, fostering innovation, and nurturing talent.

After 17 years of its establishment, the BIT Off Campus Deoghar has developed as a premier, fully residential, and AICTE-approved educational hub in Santhan Parganas, Jharkhand.

The campus is well equipped with modern instruments and software facilities for undergraduate engineering courses in CSE, ECE, EEE, and Mechanical Engineering. Also, in the

year 2020, BBA and BCA courses were started. The campus infrastructure facility includes Hostels, Staff Quarters, a Library (having more than 28,900 volumes), a Language Lab, a Gymnasium, a Health Centre/ Dispensary, a Sports Playground, an Entrepreneur Development Cell, a Training & Placement Cell, an ATM, Canteen, General Store, etc. The Institute admission is accepted through JOSAA CSAB from 2023 onwards. The total no. of AICTE-approved sanctioned seats for 2024-25 is 290. The Institute has two boys' and one girls' hostel with a capacity of 1000 students.

The Research activities, Conferences, Workshops & Seminars, and Publications by the teaching fraternity have established an enriched academic environment. Besides the regular courses, students of BIT Deoghar are engaged in extracurricular activities. The annual Sports Meet, Annual Cultural and



Technical Fests (UTTHAAN), and Annual Library Fest (AURORA) of the Institute provide the opportunity for the students for their overall personality development and growth. Students regularly participate in various technical events in IITs, NITs and other technical Institutions and represent BIT Deoghar across the country. The NSS wing of the Institute contributes to blood donation camps and various literacy drives in nearby villages towards the fulfilment of the Institute's social responsibilities.

Industry partnerships for internships, placements, and collaborative research have been established. Today, BIT Deoghar alumni hold top positions in private companies working as reputed government officers or pursuing higher education at leading universities.

## Vision:

- To become a globally recognised technical institution for creating skilled manpower to meet the global professional technical Industry needs.

## Mission:

- To equip students with the requisite skills to perform challenging engineering and managerial jobs in industry.
- To augment the teaching-learning skills and research potential of the faculty.
- To provide excellent technological support to bridge the gap between academics and industry to fulfil the overall academic needs of the society, especially the Santhal Parganas Region of Jharkhand State.



Figure: B. Tech (CS), Batch 2021 Photograph

## 1.1 Established Year:

BIT Off Campus - Deoghar was established in 2007 with financial aid and infrastructural

support from the Govt. of Jharkhand and has entered the 17<sup>th</sup> year of its successful operation.



### 1.2 Courses Offered and Approved Intake:

Courses Offered	Approved Intake
B.Tech. in Computer Science & Engineering	90
B.Tech. in Electronics & Communication Engineering	60
B.Tech. in Electrical & Electronics Engineering	30
B.Tech. in Mechanical Engineering	30
BBA	40
BCA	40

### 1.3 Thrust Areas of the BIT Off-Campus Deoghar:

We at BIT Off Campus Deoghar, in our pursuit of excellence in education and research, always strive hard to evolve a holistic approach to teaching, leading to the overall development of students with a critical emphasis on learning with creativity and adopting and responding quickly to changes in the field of Science and Technology.

The thrust areas of BIT Deoghar include:

- **Computer Science & Engineering Department:** This department focuses on computer science and engineering concepts with a focus on AI & ML, network security, ample data security, cloud computing, knowledge-based systems, and image processing domains.
- **Electrical & Electronics Engineering Department:** Deals with electrical and electronics engineering concepts related to Power Electronics Converters & Drives, Model Predictive Control, and Distribution Generation.
- **Electronics & Communication Engineering Department:** Focuses on electronics and communication engineering concepts with emphasis on Computational Electro Magnetics, Printed RF and Microwave

Circuits, Wearable Microstrip Antenna, Wireless Communication, Wireless Networking, Fiber Optic Sensor, Image Processing, Signal Processing, Speech Processing, Biomedical Signal Processing, Ultralow Power Design of circuits and Systems, VLSI and Embedded System Design, MEMS, and NEMS.

- **Mechanical Engineering Department:** Deals with mechanical engineering concepts such as Design and development of mechanical systems, Thermal engineering and fluid mechanics, Manufacturing technology and materials science, Industrial engineering and management, Mechatronics and robotics, Automotive engineering, and Aerospace engineering. These concepts encompass a broad range of topics, including Thermodynamics, Heat transfer, Fluid mechanics, Strength of materials, Machine design, Manufacturing processes, Industrial Automation, Robotics, and mechatronics.
- **Humanities & Management Department:** The Humanities and Management Department at BIT Deoghar strives to produce well-rounded graduates with a strong understanding of human values, social dynamics, and business principles. The Department aims to develop communication skills, critical thinking, and problem-solving abilities, foster creativity, empathy, and cultural awareness, prepare students for business, entrepreneurship, and management careers, and provide a strong foundation in social sciences and humanities. Some key focus areas include organisational behaviour and leadership, strategic management and entrepreneurship, Business ethics and corporate social responsibility, Marketing research and consumer behaviour, financial analysis, and decision-making.



- **The Physics, Chemistry, and Mathematics Departments** focus on developing a solid foundation in the fundamental sciences. These departments aim to develop problem-solving skills and analytical thinking, foster a strong understanding of scientific principles and theories, prepare students for careers in research, academia, and industry, and provide a foundation for interdisciplinary studies and applications; some of the critical activities and resources include state-of-the-art laboratories for experiments and research, regular seminars, workshops, and guest lectures, Collaborative projects and internships, access to academic journals and research publications. The Physics, Chemistry, and Mathematics departments at BIT Deoghar strive to produce graduates with a deep understanding of scientific principles and their applications in various fields.
- All engineering departments aim to enable students to develop expertise in designing, analysing, and solving mechanical engineering problems, preparing them for careers in various industries.

## 1.4 Number of Faculties: 45.

## 1.5 Brief Description High-end Lab Facilities:

BIT Off Campus-Deoghar has advanced lab facilities to support research, innovation, and hands-on learning, including state-of-the-art high-end labs.

- The Computer Science Department has four laboratories with networked high-end desktop computers with internet connectivity. CyberRoam™ is available for controlling the network and distribution of bandwidth across the campus. These computers run on either Windows or Linux OS and are equipped with software such as .net, Python, MATLAB, NetSim, and JDK. Additionally, open-source application development tools like PHP, MySQL, and Android applications are utilised as needed.
- The Electrical & Electronics Engineering Department is committed to meeting the current needs of the industry and has the flexibility to adjust its programs according to different requirements. One of the department's main focuses is applying new technology in various fields. The electrical, measurement, simulation, control, and power electronics laboratories offer hands-on experience with the principles discussed in the classroom and provide facilities for testing electrical equipment in and around the Deoghar area.
- The Department of Electronics & Communication Engineering is equipped with several well-equipped laboratories, including Analog & Digital Electronics Lab, Instrumentation Lab, Analog and Digital Communication Lab, Microprocessor Lab, VLSI Lab, Microwave Lab, Optical Fiber Communication Lab, and Wireless Communication & Advanced Communication Lab. Students also gain exposure to industry-standard circuit design and simulation software such as Multisim, Cogenda T-CAD Physics level Device simulation tool, Vivado Xilinx digital circuit design and simulation tool, Cadence VLSI front-end and back-end integrated circuit design tool, Optisysfibre optic simulation tool, R-Soft Optisysfiber and all optic devices simulation tool, ADS and ANSYS microwave design and simulation tool. The department also provides students access to HFSS Software for microwave design and Pulse Radar Simulation Software for advanced communication. This allows students to gain hands-on experience with almost all the software the industry demands.
- The Department of Mechanical Engineering











Department of EEE innovated patent titled 'Coupled Solar and Wind Mill Controlling System' (Patent Number: 395315-001) and 'Hydrogen Fuelled Bike' (Patent Number: 394196-001) integrate solar and wind energy sources for efficient power generation.

- Dr Mainak Mukhopadhyay, Associate Professor, Department of ECE has got two prestigious projects funded by ISRO

**Notable Achievements by our Students:**

- a) Mr. Rana Siddharth a (BTech-Mechanical Engineering student of 2020 Batch) undergone his internship at AAON Inc. USA from January-April 2024 on Heat Pump Control Systems under the mentorship of Angelina Weber, the R&D Lab Coordinator based in Tulsa, Oklahoma, United States.



Mr. Priyam Raj, CSE, Batch 2020, CTO, TubeMagic.com



Rana Siddharth, MECH, Batch 2020



Satarupa Deb, CSE, Batch 2020



Prince Sharma, ECE, Batch 2021, Apoorv Vivek, CS, Batch 2021

Aditya Krishnan, ECE, Batch 2022, All India Youth Festival 25th December Belur Math, Kolkata.

- b) Mr. Priyam Raj (2020 Batch), a graduating student of CS Engineering has demonstrated exceptional entrepreneurial acumen by setting up of an own company TubeMagic. Mr. Vineet Kumar Sinha, (BTech – CSE, 2023 batch, showcased his talents at the prestigious Boeing National Aeromodelling competition hosted at Kshitij, IIT Kharagpur on January 20th and 21st, 2024.
- c) Ms. Satarupa Deb (2020 Batch) completed her internship at BARC’s Thermal Plasma Technology Section, under the supervision of Dr. Nirupama Tiwari (SO/F, BARC). Ms Varshani, a BTech (CSE) student of the 2020 batch, has been admitted to University of Bristol, UK, for her Master’s Program. Mr GSS Trivikaram, of 2019 Batch (CSE), has been selected by Indiana State University in Sept. 2023 to pursue a Master of Science Programme in Cyber Security.
- d) Mr Akash Tudu, a pass-out student of 2019 Batch (CSE), has proceeded to LM University, Munich, Germany, in July 2024 to pursue a Master of Science Programme in CSE.
- e) Mr. Augustin Minz, a pass-out student of 2019 Batch (CSE), has proceeded to University of Birmingham, U.K., in Sept. 2023 to pursue a Master of Science Programme in CSE and

similarly, many more students have been selected in foreign universities for higher education. 20 students from BIT Deoghar participated in the two-day youth camp organised by Ramakrishna Mission Vidyapith, Deoghar, to commemorate its 125th anniversary. Three of them were selected to represent BIT Deoghar at the All-India Youth Festival held at the Belur Math, Howrah, on December 25th, 2023.

- f) BIT Deoghar showcased its sporting prowess at the annual inter-college sports meet in Patna PRAKRIDA 2024 conducted from 18th March 2024 to 20th March 2024. Numerous Prestigious colleges like NIT Sikkim, BITs and AIIMS Patna A N College Patna participated in the event where BIT Deoghar left an indelible mark of excellence. The Chess team emerged as champions, whereas the Volleyball team secured the runner-up position.

## 1.9 Activities of BIT Off Campus Deoghar (1st July 2023 to 30th June 2024):

- Dr. Rajiv Ranjan, Executive Director of the RBI and his team from the Monetary Policy Department, Reserve Bank of India, Mumbai, visited the Institute campus on 09.11.2023. The esteemed guests shared valuable insights on the “Monetary Policy Making in India – Current Developments and Challenges” during their visit with the students yielded fruitful outcomes for our students. As a result, an agreement was reached to facilitate internships for our students at the RBI under the guidance of the Executive Director of RBI and his team.
- Mr. Gaurav Kumar, Founder & CEO of Yubi Corp, Chennai, shared valuable insights on Industry 5.0 and Entrepreneurship during the Student Induction Program 2023. He enlightened students about the latest trends in the industrial landscape and the essential skills needed to thrive as entrepreneurs in the dynamic business

world. He also inspired students to embrace innovation, adaptability, and resilience as they embark on their entrepreneurial journeys.



Dr. Rajiv Ranjan, Executive Director, RBI & Dr. Aruna Jain, Director, BIT Off Campus Deoghar



Mr. Gaurav Kumar, Founder & CEO of Yubi Corp, Chennai.



Shri Dhiraj Kumar Pandey, CEO of DataINFA & Dr. Aruna Jain, Director, BIT Off Campus Deoghar

- Shri Dhiraj Kumar Pandey, CEO of DataINFA inaugurated Techno cultural fest, UTTHAAN



2024. Swami Divyasudhananda, Principal, Ramakrishna Mission Vidyapith, Deoghar, was the resource person for the first-year students during the General Orientation for Student Induction Program on 08.09.2023.

- Mr. Nishant Kumar, Senior Resource Person from the Art of Living – Deoghar Chapter, engaged with students on the crucial topics of “Happiness and Stress Management” during the 12th day of the Student Induction Program.” His interactive session provided invaluable insights and practical techniques for leading a happier and stress-free life.
- BIT Off Campus Deoghar in collaboration with Jharkhand Education Project Council, Ranchi, the 100 students from Upgrade Plus Two Government High School, Taljhari, Dumka, visited the Institute Campus. During

their excursion to the laboratories of BIT Deoghar under the coordination of Prof. Raja Ram Dutta (faculty, CSE), the students were exposed to deepened technical understanding, sparked innovation passion, and fuelled curiosity for science and technology.

- Vigyan Jyoti Programme of Jawahar Navodaya Vidyalaya: In a remarkable display of collaboration with Jawahar Navodaya Vidyalaya Deoghar, the students from Jawahar Navodaya Vidyalaya (JNV), Deoghar embarked on a captivating knowledge journey through the Vigyan Jyoti program, venturing into the laboratories of BIT Off Campus Deoghar on 08.09.2023.

**SECTION 2****RESEARCH PROJECTS****2.1 Sponsored Projects (Research and Consultancy)****a) Ongoing Projects:**

Sr. No.	Project Title	PI / Co-PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount INR	Duration of the Project
1.	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.	25.08.2023	Rs.10, 19,280/-	25.08.2025
2.	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/-	11.07.2027







Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/FDP	Funding Agency	Organizers	Venue	Date
	Dr. Sonal	Induction Programme on Intellectual Property Rights.	National Intellectual Property Awareness Mission (NIPAM: Govt. of India)	NIPAM and Faculty of Engineering & Applied Sciences, Sarala Birla University	Sarala Birla University, Ranchi	08.06.2024
	Chinmay Chakraborty	NEP 2020 Orientation & Sensitization	MMTTP, UGC	IIT Dhanbad	IIT Dhanbad	03.06.24 to 15.06.24
	Dr. Nishi Kant Kumar	NEP 2020 Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC	UGC	IIT (Indian School of Mines), Dhanbad	Online mode	03.06.2024 to 15.06.2024
	Ms. Rashmi Kumari	NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC)	Self	IIT-ISM Dhanbad	Online	16.05.2024 to 31.05.2024
	Dr.A.C.Singh	NEP 2020 Orientation & Sensitization Programme	UGC	IIT Dhanbad	Online Mode	16.05.2024 to 31.05.2024
	Dr.A.C.Singh	Sustainable Development in Chemical and Biochemical Processes	NIT, Hamirpur	NIT, Hamirpur	Online Mode	11.04.2024 to 15.04.2024.
	Dr.S.S.Majhi	Sustainable Development in Chemical and Biochemical Processes	NIT, Hamirpur	NIT, Hamirpur	Online Mode	11.04.2024 to 15.04.2024
	Ashutosh Kumar	FDP on Industry 4.0: Technological Evolution	IIC, Ministry of Education, Gol	Techno College of Engineering Agartala	Online	01.04.2024 to 05.04.24





Sr. No.	Name of the Faculty	Title of the Conference/Seminar/FDP	Funding Agency	Organizers	Venue	Date
	Ms. Rashmi Kumari	International Conference on Recent Trends in Engineering & Sciences	Self	BIT Mesra, Ranchi	Hybrid	29.03.2024
	Rayees Ahamad	International Conference on "Recent Trends in Engineering and Sciences (RTES 2024)"	BIT Mesra	BIT Mesra	BIT Mesra	29.03.2024 to 30.03.2024
	Dr. Manoj Kumar Dutta	IEEE sponsored 4 <sup>th</sup> International Conference on Innovative Practices in Technology and Management (ICIPTM 2024)	BIT Mesra	Amity University, Noida	Amity University, Noida	21.03.2024 to 23.03.2024
	Ashutosh Kumar	NEP 2020 Orientation and Sensitization	UGC	University of Hyderabad	Online	18.03.2024 to 26.03.2024
	Ashutosh Kumar	FDP on Green Manufacturing	Ministry of Education, GoI	Sri Mata Vaishno Devi University under Madan Mohan Malaviya National Mission on Teachers Training	Online	04.03.2024 to 08.03.2024
	Ms. Rashmi Kumari	International Conference on Sustainable Development & Management Practices	Self	IIT-ISM Dhanbad	Hybrid	09.02.2024
	Dr. Sunit Prasad	2 <sup>nd</sup> International Financial Management Conference	Self	Chandragupt Institute of Management, Patna	Patna, Bihar	09.02.2004
	Rayees Ahamad	2nd International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC-2023)	BIT Mesra	Kalinga Institute of Industrial Technology Odisha, India	KIIT Bhubaneswar Odisha, India	27.01.2024 to 29.01.2024



Sr. No.	Name of the Faculty	Title of the Conference/Seminar/FDP	Funding Agency	Organizers	Venue	Date
	Ms. Rashmi Kumari	9 <sup>th</sup> PAN IIM World Conference- Entrepreneurial Innovation and Digital Governance for Inclusive and Sustainable Growth	Self	IIM Sambalpur	Hybrid	23.01.2024
	Ms. Rashmi Kumari	Faculty Development Programme and workshop on "Modern Research Practices, Methodologies, and Intellectual Property Rights"	Self	BIT, Mesra, and CMAOI Association	Hybrid	09.01.2024 to 13.01.2024
	Dr. Payal Bhardwaj	Four-week online FDP on AI, Machine Learning, Deep Learning, Computer Vision, NLP, and Chat GPT with Python.	BIT MESRA	Mechanical Department, IIT Madras	Online	25.12.23 to 09.02.24
	Dr. Nilesh Kumar Rajalwal	CISTEE 2023	Springer	Department of EE, NIT Durgapur	NIT Durgapur	16.12.2023 to 17.12.2023
	Ms. Rashmi Kumari	Workshop on "Research to Patentable Invention: Driving Innovation at various stages of Technology Readiness Level"	Self	Intellectual Property Right Cell & Institution's Innovation Council, Birla Institute of Technology, Mesra, Ranchi	BIT Mesra	11.12.2023
	Dr. Sunit Prasad	FDP on Digital Transformation	Self	Department of Management, Birla Institute of Technology, Mesra	Mesra, Ranchi, Jharkhand	04.12.2023 to 08.12.2023
	Dr. Ram Krishna Sarkar	IConTOP-2023	Self	Department of Applied Optics and Photonics, University of Calcutta	University of Calcutta	24.11.2023 to 25.11.2023





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/FDP	Funding Agency	Organizers	Venue	Date
	Ms. Rashmi Kumari	Faculty Development Program on "Digital Transformation"	Self	Department of Management, Birla Institute of Technology, Mesra, Ranchi	BIT Mesra	04.09.2023 to 08.09.2023
	Ms. Rashmi Kumari	International Conference on Contemporary Trends in Multidisciplinary Research and Innovation	Self	BIT Mesra-Jaipur Campus	Hybrid	27.07.2023
	Dr. Manoj Kumar Dutta	International Conference on Contemporary Trends in Multidisciplinary Research and Innovation ICCTMRI - 2023	BIT Mesra	BIT Mesra, Jaipur Campus	BIT Mesra, Jaipur Campus	27.07.2023 to 28.07.2023
	Ms. Rashmi Kumari	One Week Online National Workshop on Basics of Research Methodology	Self	Human Behavtics Private Limited, Gomti Nagar Extension, Sector-1, Lucknow-10, Uttar Pradesh	Online	11.07.2023 to 16.07.2023
	Raja Ram Dutta	Inculcating Universal Human Values in Technical Education	AICTE	All India Council for Technical Education (AICTE)	Online mode	03.07.2023 to 07.07.2023
39.	Balaram Mandal	Inculcating Universal Human Values in Technical Education	AICTE	All India Council for Technical Education (AICTE)	Online mode	03.07.2023 to 07.07.2023

**SECTION-4**

**Publications**

Sr. No.	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1.	20	7	0	2	17







Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
	Chinmay Chakraborty	Selected as one of the top 2% of scientists in the world in the field of "Artificial Intelligence and Image Processing	Elsevier- Stanford University, USA	International Level	2023

**1.2 Patents (Applied / Granted) (between 1st July 2023 to 30th June 2024)**

Sr.No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description of the Patent
	Sonal, Chandan Kumar, Aman Kumar, Uttam Kumar, Nitish Kumar	Solar Wireless Electric Vehicle Charging System, Australian Design Patent	Design Grant Number - 2024112529	2024	The Australian design patent for the Solar Wireless Electric Vehicle Charging System features an innovative design that combines solar energy with wireless charging technology aimed at improving efficiency and convenience for electric vehicles.
	Neha S, Chinmay Chakraborty, Gurwinder S, Khyati M	Virtual Reality Simulator for Intraocular Surgery Training	Application No. 367511-001	2024	VR-based simulator tool for intraocular surgery purposes.
	Dr Rishabh Dev Shukla, Dr Piyush Kumar Ojha, Dr M. Arulmozhi, et.	Coupled Solar and windmill controlling system	Application No. 395319-001	2023	Integrate solar and wind energy sources for efficient power generation
	Dr Rishabh Dev Shukla, Dr Piyush Kumar Ojha, Mr. Roshan Nayak, et al.	HYDROGEN FUELLED BIKE	Application No. 394196-001	2023	Utilizing alternating energy resources for the betterment of the future vehicular domain.





Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
4.	Smart Brains Engineers and Technologies Pvt. Ltd. A-25, A Block, Sector 59, Noida, Uttar Pradesh-201301.	Internship & Placement Purposes	Till Terminated
5.	Benignant Power Private Limited. ourav Vihar, PO-EC Burla, Dist.-Sambalpur, Odisha, India.	Internship & Placement Purposes	Till Terminated
6.	Edgate Technologies Pvt. Ltd., # 479, 6th Main Road, Opposite the BMTC depot, HMT Layout, RT Nagar, Bengaluru, Karnataka 560032.	Internship & Placement Purposes	Till Terminated
7.	JayTech Solar Systems Pvt. Ltd. # 131, Mancheswar Industrial Estate, Bhubaneswar-751010, Odisha.	Internship & Placement Purposes	Till Terminated
8.	Morling Global Pvt. Ltd. Noida, Uttar Pradesh 201301.	Internship & Placement Purposes	Till Terminated
9.	Internshala (Scholiverse Educare Pvt. Ltd.), Haryana-18.	Internship & Placement Purposes	Till Terminated
10.	YBI Foundation, Delhi-59.	Internship Purposes	Till Terminated

**SECTION- 6**

**Activities/Faculty Members/DOS/DAS**

**6.1 Institute Students' Activities:**

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
	UTTHAAN-24	Shivani Kumari, Ishika Rai	Dr. Asha Sharma	16.03.2024 to 18.03.2024
	Decoration of the Institute during UTTHAAN-24	Shruti Thakur	Dr. Nilesh Kumar Rajalwal	15.03.2024 to 17.03.2024
	UTTHAAN-24	Jeet Chakraborty, Kumar Gaurav, Shruti Thakur, Nandini Singh, JayPrakash, Tanya	Dr. Sutapa Mondal, Dr. Amit Kumar	15.03.2024 to 17.03.2024
	Shiv Vivah Periodic Play and a Comedy Play on Utthaan'24	Hrishav Choudhary, Neeraj Verma, Harsha Priyambda Singh, Abhijeet, Kritik, Devashish	Dr. Payal Bhardwaj	15.03.2024 to 16.03.2024
	Micromouse, (IEEE Student Branch, BIT Mesra Off Campus Deoghar)	Keshav Jha, Muddana Ganesh	Prof. Vikash Sharma	15.03.2024









Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
	Sanitary Napkin Distribution Camp	Ali, Manas Parashar, Anupriya, Sona Sharma		07.09.2023
	Coverage of Student Induction Program 2023	Akshat Ishan, Utkarsh Jha	Prof. Mahendra Das	01.09.2023 to 22.09.2023
	Hexacopter drone demonstration	Vishal, Shubham Kumar	Dr Gopisetti Srinivasarao	28.08.2023
	Info Session, BIT Mesra - Off Campus Deoghar	Arunima Ambastha	Dr. Sounak Paul	23.08.2023
	Patriotic play on Independence Day	Anish Verma		15.08.2023
	Plantation Drive		Dr. Payal Bhardwaj	15.08.2023
	Independence Day photography	Utkarsh Jha	Prof. Mahendra Das	15.08.2023
	Tarang	Sonal Honey	Dr. Sutapa Mondal	15.08.2023
	Hexacopter drone construction, Robotics Lab	Vishal, Shubham Kumar Vishesh Choudhary	Dr. Gopisetti Srinivasarao	09.08.2023
	Drawing competition in the adopted village	Shreya, Priya, Harsha Priyambada, Devashish, Abhijeet, Ayush Kashyap	Dr. Sridhar Chintala	08.07.2023
	Sketching competition during the Student Induction Program	--	Dr. Nilesh Kumar Rajalwal	06.07.2023

## 6.2. List of Faculties as on 30.6.2024:

Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Dr. Aruna Jain	GEN	Director, BIT Off Campus Deoghar	Web Engineering, Computer Network and Security, Data Mining and Soft Computing	PhD, M.Tech., MSc.	01.11.1990
	Dr. Sounak Paul	GEN	Assistant Professor & In-Charge, CSE	Cyber Security, Cloud Computing	M.Tech, Ph.D	18.01.2002
	Dr. Kamta Nath Mishra	GEN	Assistant Professor	Distributed and Cloud Computing	MCA, MS, Ph.D	08.08.2009
	Ms. Anita Kushwaha	GEN	Assistant Professor	Intelligent Computing	MCA	06.02.2018



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Mr. Rayees Ahamad	GEN	Assistant Professor	Operating System AI and Soft Computing	M.Tech (CSE) Pursuing PhD	23.08.1999
	Mr. Arbind Kumar Choudhary	OBC	Assistant Professor	Object Oriented Programming Language, Software Engineering	M.TECH	14.08.2001
	Mr. Balaram Mandal	SC	Assistant Professor	Computer Networks, Data Communication, System Programming	M.E(IT) Pursuing PhD	20.01.2011
	Mr. Raja Ram Dutta	GEN	Assistant Professor	Data Mining, Machine Learning and Big-Data Analytics	MCA, M. Tech, M.Phil., Pursuing PhD	03.08.2012
	Dr. Soumya Ray	GEN	Assistant Professor	Big Data Security in M-health System	Ph.D.	02.08.2010
	Dr. Pravas Ranjan Bal	GEN	Assistant Professor	Data Science, Machine Learning	PhD (CSE)	01.06.2023
	Dr. Nishi Kant Kumar	OBC	Associate Lecturer	Software Engineering, Database Management System, Software Reliability, Software Project Management, Machine Learning	Ph.D. In Computer Science & Engineering	24.01.2009
	Mr. Saswata Mukherjee	GEN	Associate Lecturer	Data Structure, C Programming, Computer Graphics	MCA	10.03.2007
	Mr. Swapan Kumar Borat	GEN	Associate Lecturer	Automata Theory, Compiler Design	MCA	01.11.2007



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Ms. Neena Jha	GEN	Associate lecturer	PPS (Programming for Problem Solving), Data structure, Fundamental of computers, WEB Application of Business, Unix, and shell programming, Office automation tools	B. Tech (CSE)	08.09.2008
	Dr. Rajesh Kumar Lal	GEN	Associate Professor & In-Charge ECE	Optoelectronic Devices, VLSI, QWIP	Ph.D.	16.05.2005
	Dr. Mainak Mukhopadhyay	GEN	Associate Professor	Digital Signal Processing	Ph.D.	25.05.2020
	Dr. Chinmay Chakraborty	GEN	Assistant Professor	Wireless Communication	Ph.D.	23.08.2011
	Mr. Vikash Sharma	GEN	Assistant Professor	Wireless Communication Microstrip Antennas	Ph.D. (Thesis submitted)	24.11.2004
	Dr. (Mrs.) Payal Bharadwaj	GEN	Assistant Professor	Electronic Devices, Microstrip Antennas, Microwaves, Biomedical Applications.	Ph.D.	01.04.2015
	Dr. (Mrs.) Sutapa Mondal	GEN	Assistant Professor	Wireless Communication, Electric Vehicles	Ph.D.	12.07.2009
	Mr. Akash Kumar Gupta	GEN	Assistant Professor	Biomedical Signal Processing	Ph.D. (Thesis submitted)	13.09.2011
	Mr. Akhilesh Kumar Roy	GEN	Assistant Professor	VLSI Design, Microelectronics	MTech	23.06.2003



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Mr. Mahendra Das	SC	Associate Lecturer	Optoelectronic Devices, Instrumentation, VLSI, Semiconductor Devices, Fiber Optics	Ph.D. (continuing)	04.07.2004
	Dr. Piyush Kumar Ojha	GEN	Assistant Professor	Power Electronic Converters, Grid integration, and Electric Vehicles	Ph. D	20.07.2009
	Dr. Prabhat Kumar Ranjan	GEN	Assistant Professor	Power Electronics and Power System	Ph. D	11.01.2011
	Dr. Nilesh Kumar Rajalwal	GEN	Assistant Professor	Power System Protection	Ph. D	01.06.2015
	Dr. Sonal	GEN	Assistant Professor	Power System Reliability and Resilience	Ph. D	25.06.2024
	Dr. Ram Krishna Sarkar	GEN	Assistant Professor	Theoretical nonlinear optics	Ph.D. (Physics) M.Sc. (Physics)	04.04.2008
	Dr. Soumen Karmakar	GEN	Assistant Professor	Experimental plasma physics, nanoscience, and nanotechnology	Ph.D. (Physics) M.Sc. (Physics)	22.04.2009
	Dr. Manoj Kumar Dutta	GEN	Assistant Professor	High-speed optical communication, image processing and culture study	Ph.D. (Electronics) M.Tech. (Radio Physics and Electronics) M.Sc. (Electronic Science)	22.12.2012
	Dr. Shyam Sundar Majhi	GEN	Assistant Professor	Frontal Polymerization, Chemical Kinetics, Oscillatory Reaction, Non-equilibrium Crystallization	Ph.D, (Science)	02.12.1999



Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Dr. Ashish Chandra Singh	GEN	Assistant Professor	Adsorption, Polymer (Synthesis and applications of ion- exchange and chelating Polymers for toxic metal removal), Water Quality Monitoring and Control	Ph.D, (Science)	03.02.2004
	Dr. Ranjan Chattaraj	GEN	Assistant Professor	Elastodynamics	Ph. D	15.07.2004
	Dr. Bishnu Kumar	GEN	Assistant Professor	Mathematical Modelling (Oceanography)	Ph. D	16.08.2012
	Dr. Amit Kumar	GEN	Assistant Professor	Fluid Mechanics	Ph. D	29.10.2007
	Dr. Arbind Kumar	GEN	Professor & In Charge Mechanical Engg.	Materials Technology	PhD	01.08.2018
	Dr. Ashis Kumar Chakraborty	GEN	Associate Professor	Machine Design	PhD	24.11.2011
	Dr. Ritesh Kumar Upadhyay	GEN	Assistant Professor	Heat Power Engineering	PhD	01.08.2009
	Dr Gopiseti Srinivasarao	GEN	Assistant Professor	System Dynamics and Control	PhD	24.02.2010
	Dr. Anil Kumar Sharma	GEN	Assistant Professor	Multidisciplinary	PhD	02.09.2005
	Prafulla Kumar Manoharan	GEN	Assistant Professor	Multidisciplinary	M.Tech, PhD (pursuing)	02.10.2007
	Dr. Sandip Ghosh Hazra	GEN	Assistant Professor & In-Charge H&M	Marketing, Services Marketing, Consumer Behaviour	PhD	05.12.2011
	Dr. Sunit Prasad	GEN	Visiting Assistant Professor	Finance, SMEs Finance, Entrepreneurship	PhD	05.09.2022





Sr. No.	Name	Category (GEN/SC/ST/OBC/PVTG/PH)	Designation	Expertise Area	Qualification	Date of Joining
	Ms. Rashmi Kumari	ST	Visiting Assistant Professor	HRM, Organization Behaviour, Industrial Relations, Sustainability, Research	PhD (HR)-Ongoing, MBA (HR & Marketing), B. Tech (CSE)	05.09.2022
	Dr. Kankan Das	SC	Assistant Professor	English Language Teaching, Language Assessment, Reading Disorder, Multilingual Studies	PhD	05.03.2024

### 1.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
	Dr. Sounak Paul	Faculty Representative, BoS, CSE from BIT Deoghar	Internal member from BIT Deoghar
	Dr. S. S. Solanki Professor,	HoD, ECE	Chairman (Ex-Officio)
	Dr. (Mrs). P. P. Dash (Member Secretary)	Assistant Professor, Dept. of ECE, BIT Mesra	Internal Member
	Dr. N. Gupta	Professor, Dept. of ECE, BIT Mesra	Internal Member
	Dr. V. R. Gupta	Professor, Dept. of ECE, BIT Mesra	Internal Member
	Dr. S. Pal	Professor, Dept. of ECE, BIT Mesra	Internal Member
	Dr. V. Nath	Associate Professor, Dept. of ECE, BIT Mesra	Internal Member
	Dr. Kartik Mahto Mesra	Assistant Professor, Dept. of ECE, BIT	Internal Member
	Dr. S. K. Rout	Professor, Department of Physics, BIT Mesra	Internal Member
	Dr. T. Ghosh	Professor, Department of EEE, BIT Mesra	Internal Member
	Dr. Shahimddin	Assistant Professor, In charge, Dept. of ECE, Jaipur	Internal Member



Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
	Dr. R. K. Lal	Associate Professor, In charge, Dept. of ECE, Deoghar	Internal Member
	Mr. Ankur Agarwal	Assistant Professor, In charge, Dept. of ECE, Patna	Internal Member
	Dr. Manoj Kumar Meshram	Professor, IIT, BHU	External Member
	Dr. Goutam Saha	Professor, IIT, Kharagpur	External Member
	Dr. Brajesh Kumar Kaushik	Professor, IIT, Roorkee	External Member
	Dr. Nandita Dasgupta	Professor, IIT, Madras	External Member
	Dr. Suvra Sekhar Das	Associate Professor, G.S Sanyal School of Telecommunication, IIT, Kharagpur	External Member

## SECTION- 7

## OTHER INFORMATION

### 7.1 Student Entrepreneurship activities/Start-ups, if any:

Sr. No	Name of Student	Source of Funding	Title of Startup	Short Description
	Priyam Raj, BTECH – CSE - BTECH/60035/20	Self/ external	Tube Magic LLC	A suite of online tools designed to help users to succeed with YouTube. Including AI titles, descriptions, tags, and scripts designed to help the user.
	Priyam Raj, BTECH – CSE - BTECH/60035/20	Self/ external	Priyam Ventures Private Limited	Software Development, etc.
	Sourabh Kumar – BE - IT –BE/6157/16	Self/ external	Stable Money	A fixed-return investment platform
	Amit Sah – BE – Mechanical – BE/6164/09	Self/ external	Zoplar	A global one-stop B2B procurement solution for hospitals/clinics and doctors for all their medical needs. The platform will be enabled with SaaS-based products. Zoplar simplifies medical supply procurement with a tech-enabled one-stop platform for all your hospital requirements.



## 7.2 Achievements of Students:

Sr. No	Name of Student with Roll Number	Achievement/Position/Award etc	Organised by	Date and Venue
	Shivam Deep, BTECH/60314/21	Certificate of Internship completion from Defence Research and Development Laboratory (DRDL), Hyderabad.	DRDL/DRDO	02.05.2024 to 28.06.2024 DRDL, Hyderabad.
2.	Ankan Sarkaar BTECH/60094/22	Certificate of Completion for Training Program on Power Plant Familiarization	TPSDI-Maithon	28.05.2024, TPSDI-Maithon
3.	Ankan Sarkaar BTECH/60094/22	Certificate of Achievement for Training Program on SCGJ: Solar PV Installer-Electrical	TPSDI-Maithon	13.05.2024 to 27.05.2024, TPSDI-Maithon
4.	Kumar Ayush, BTECH/60309/22	Certificate of Achievement for Training Program on SCGJ: Solar PV Installer-Electrical	TPSDI-Maithon	13.05.2024 to 27.05.2024, TPSDI-Maithon
5.	<u>Basket Ball Team List:</u> Om Prakash BTECH/60141/20 Sandeep Suman Marandi BTECH/60154/20 Aman Kumar BTECH/60139/20 Astik Kamal BTECH/60151/20 Aditya Pandey BTECH/60081/23 Vishal Kumar Singh BTECH/60071/23 Prem Kumar BTECH/60054/20	Winners Trophy/First	BIT Patna	18.03.2024 to 20.03.2024 Basket Ball Court, BIT Patna.
6.	<u>Chess Players List:</u> Anshul Raj BTECH/60025/22 <u>Mixed Double:</u> Apoorv Vivek BTECH/60042/21 Shivam Kumar BTECH/60112/22	Runners-Up Trophy/ Second Position  Winners Trophy Runners Up Trophy	BIT Patna	18.03.2024 to 20.03.2024 and Activity Room, BIT Patna
7.	<u>Volley Ball Players list:</u> Abhay Kumar BTECH/60046/22 Sandeep Suman Marandi BTECH/60154/20 Om Prakash BTECH/60141/20 Aman Kumar BTECH/60139/20 Pranjal Parmar BTECH/60168/23 Bharat S BTECH/60171/23 Allen Joshua BTECH/60001/23 Shivam Mumur BTECH/60061/21	Runners Up Trophy/ Second Position	BIT Patna	18.03.2024 to 20.03.2024, Volley Ball Court, BIT Patna.





Sr. No	Name of Student with Roll Number	Achievement/Position/Award etc	Organised by	Date and Venue
13.	Satarupa Deb, BTECH/60115/20	Internship at BARC's Laser & Plasma Technology Division	--	05.01.2024 to 15.05.2024, BARC, Mumbai.

### 7.3 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)

Bachelors		Masters		PhD	
Name, Roll Number	Organisation	Name, Roll No.	Organisation	Name, Roll No.	Organisation
RAKHI KUMARI, BTECH/60001/20	Taazaa	----	----	----	----
AKASH DIP, BTECH/60002/20	Zoplar	----	----	----	----
DIKSHA SINGH, BTECH/60003/20	Global Logic: A Hitachi Group Company	----	----	----	----
RAJ KUMAR, BTECH/60004/20	Academor	----	----	----	----
PUSHKAR RAJ, BTECH/60007/20	Academor	----	----	----	----
SAUMYA RANI, BTECH/60008/20	Sigmoid Analytics	----	----	----	----
SUKRITI SINHA, BTECH/60009/20	Academor	----	----	----	----
ROSHAN KUMAR PANDEY, BTECH/60010/20	Skolar	----	----	----	----
ASHTJA PRASAD, BTECH/60011/20	Zoplar	----	----	----	----
NAWPRIT SAINI, BTECH/60012/20	Elucidata-PPO	----	----	----	----
RAJ AAYUSH, BTECH/60014/20	Codeyoung	----	----	----	----
ABHIJEET VISHWAKARMA, BTECH/60015/20	Global Logic: A Hitachi Group Company	----	----	----	----
ANMOL DEEP, BTECH/60016/20	Talentserve	----	----	----	----
RUCHI DEO, BTECH/60017/20	Indifi-PPO	----	----	----	----
SAAD MISBAH WARIS, BTECH/60018/20	Academor	----	----	----	----







Bachelors		Masters		PhD	
Name, Roll Number	Organisation	Name, Roll No.	Organisation	Name, Roll No.	Organisation
KUNAL KUMAR, BTECH/60046/20	Teachnook	----	----	----	----
ANWESHA TIWARY, BTECH/60049/20	Academor	----	----	----	----
NEHA JHA, BTECH/60050/20	Genpact	----	----	----	----
ANUPRIYA, BTECH/60051/20	Academor	----	----	----	----
MEGHA SINGH, BTECH/60052/20	Sigmoid Analytics	----	----	----	----
SARJIL AHMED KHAN, BTECH/60053/20	Academor	----	----	----	----
AMAN PANDEY, BTECH/60055/20	Sigmoid Analytics	----	----	----	----
SHASHANK DANIEL LAKRA, BTECH/60057/20	Global Logic: A Hitachi Group Company	----	----	----	----
NIKITA HANSDAH, BTECH/60058/20	Academor	----	----	----	----
ADITI ATULYA, BTECH/60060/20	PWC	----	----	----	----
ADITYA RAJ, BTECH/60066/20	Zoplar	----	----	----	----
AMEYA SUBHASH, BTECH/60082/20	Talentserve	----	----	----	----
SNEHA KUMARI, BTECH/60083/20	Dixon Technologies	----	----	----	----
RIDHIMA GUPTA, BTECH/60089/20	Academor	----	----	----	----
NAMRATA SHARMA, BTECH/60091/20	Global Logic: A Hitachi Group Company	----	----	----	----
HIMANSHU SHEKHAR, BTECH/60107/20	Intellipaat	----	----	----	----
ANAND RAJ, BTECH/60109/20	Teachnook	----	----	----	----
AMAN VERMA, BTECH/60110/20	Incture	----	----	----	----
AMAN KUMAR, BTECH/60139/20	Talentserve	----	----	----	----



Bachelors		Masters		PhD	
Name, Roll Number	Organisation	Name, Roll No.	Organisation	Name, Roll No.	Organisation
OM PRAKASH, BTECH/60141/20	Talentserve	-----	-----	-----	-----
JAY VARDHANAM, BTECH/60149/20	Academor	-----	-----	-----	-----
RAMYA RAJ, BTECH/60307/20	Academor	-----	-----	-----	-----
PRATIK KUMAR, BTECH/60309/20	Academor	-----	-----	-----	-----
MILEE KUMARI, BTECH/60065/20	Tecture	-----	-----	-----	-----
SHASHI SIDHANT PRASAD, BTECH/60075/20	High-Technext Engineering & Telecom Pvt. Ltd.	-----	-----	-----	-----
PRANJAL SINHA, BTECH/60078/20	PedalStart Technology Private Limited	-----	-----	-----	-----
AMISH RAJ, BTECH/60133/20	Academor	-----	-----	-----	-----
ISHA SACHAN, BTECH/60146/20	Global Logic: A Hitachi Group Company	-----	-----	-----	-----
TANU SHREE, BTECH/60071/20	Talentserve	-----	-----	-----	-----
RAVI KUMAR, BTECH/60073/20	Global Logic: A Hitachi Group Company	-----	-----	-----	-----
AMRIT RAJ, BTECH/60076/20	Androsonic	-----	-----	-----	-----
RIYA RAJ, BTECH/60077/20	Academor	-----	-----	-----	-----
VINAY KUMAR, BTECH/60087/20	High-Technext Engineering & Telecom Pvt. Ltd.	-----	-----	-----	-----
PRATYASHA KUMAR, BTECH/60096/20	Androsonic	-----	-----	-----	-----
RAVI KANT JHA, BTECH/60097/20	Academor	-----	-----	-----	-----
RAMYA JHA, BTECH/60098/20	Topsdraw	-----	-----	-----	-----
PRASHANT KUMAR, BTECH/60099/20	Edu-versity	-----	-----	-----	-----



Bachelors		Masters		PhD	
Name, Roll Number	Organisation	Name, Roll No.	Organisation	Name, Roll No.	Organisation
DIBYANSHU PATHAK, BTECH/60100/20	Skolar	----	----	----	----
ANU PRIYA, BTECH/60101/20	Academor	----	----	----	----
AMAN KUMAR, BTECH/60103/20	Academor	----	----	----	----
AARYAN RAJ, BTECH/60106/20	PedalStart Technology Private Limited	----	----	----	----
AYUSH PANDEY, BTECH/60116/20	Academor	----	----	----	----
YUVRAJ KUNWAR, BTECH/60117/20	Academor	----	----	----	----
TANMAY UPADHYAY, BTECH/60118/20	Talentserve	----	----	----	----
ROUNAK VATS, BTECH/60127/20	Global Logic: A Hitachi Group Company	----	----	----	----
ARPIT ANAND, BTECH/60131/20	Academor	----	----	----	----
HARSH ADITYA, BTECH/60134/20	Teachnook	----	----	----	----
HARSH KUMAR, BTECH/60135/20	Planetspark	----	----	----	----
NIKHIL RAJ, BTECH/60143/20	PedalStart Technology Private Limited	----	----	----	----
SHREYANSH TIWARI, BTECH/60152/20	High-Technext Engineering & Telecom Pvt. Ltd.	----	----	----	----
SUPRIYO ROY, BTECH/60153/20	High-Technext Engineering & Telecom Pvt. Ltd.	----	----	----	----
MANISHITA PRASAD, BTECH/60156/20	Talentserve	----	----	----	----
ABHISHEK KUMAR ROY, BTECH/60074/19	TASA Micro SPM Pvt. Ltd.	----	----	----	----
VISHAL KUMAR GUPTA, BTECH/60111/19	Talentserve	----	----	----	----
ABHIJEET CHANDRA, BTECH/60120/20	TASA Micro SPM Pvt. Ltd.	----	----	----	----







Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Ritwik Raj BE/6128/16	IIT (ISM) Dhanbad	----	----	----	----
Chandrika Deb BE/6008/16	Master's Degree in Business Administration and Management, IIM Rohtak	----	----	----	----
Tanusha Majumdar BE/6019/16	Master's Degree in Business Administration and Management, ESSEC, Paris, France	----	----	----	----
Harsh BBA/60006/20	Master's Degree in Business Administration, BIT Mesra, Ranchi.	----	----	----	----
Anni BBA/60001/20	Master's Degree in Business Administration, BIT Mesra, Ranchi	----	----	----	----
Sital Choudhary BBA/60005/20	Master's Degree in Business Administration, BIT Mesra, Ranchi	----	----	----	----

### 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Shubhanshu Shekhar Shukla, Zell Education - Assistant Vice President- Business Growth; DRISTI - Co-Founder	04.03.2024	



## 7.6 List of Distinguished Alumni (Choose 5 only)

Sr.No	Name, Batch and Affiliation	Short Description
	Ms. Tanya Ambastha Batch 2016, BE-CSE	Ms. Tanya Ambastha completed her B.E. from the Department of Computer Science and Engineering in 2016. She qualified in the UPSC 2019 examination with AIR 237. She was selected as an IA&AS Officer Trainee in the Indian Audit and Accounts Department by the Govt. of India.
	Mr. Nitin Kamal Batch 2015, BE-CSE	Mr. Nitin Kamal completed his B.E. from the Department of Computer Science and Engineering in 2015. He co-founded Data Monk, a company dedicated to providing the best analytics and data science, emphasising data analysis, business analysis, and data engineering. He is also working as Business Intelligence in Ola. Previously, he worked in various positions in the field of data science in OYO and Mu Sigma.
	Mr. Vijay Prakash Batch 2012, BE-CSE	Mr. Vijay Prakash completed his B.E. from the Department of Computer Science and Engineering in 2012. He is presently working as Chief Architect at Pocket Aces Pictures. He also worked in various positions in Phone Warrior, NuvoEx, and Audio Compass.
	Mr. Amit Srivastava Batch 2011, BE-CSE	Mr. Amit Srivastava completed his B.E. from the Department of Computer Science and Engineering in 2011. He is presently working as a Principal Software Engineer at Amazon. Previously, he worked as a system software engineer at HP R&D and joined Amazon in 2013 as a software development engineer.
	Ms. Rameshwari Kumari Batch 2011, BE-CSE	Ms. Rameshwari Kumari completed her B.E. from the Computer Science and Engineering Department in 2011. He is presently working as an SDE at Amazon Web Services. She also worked as a Sr. Associate at JP Morgan Chase & Co. and as a Senior Technical Associate at Sears Holdings Corporation. Before that, she was in various positions at Deutsche Bank and ATOS India Pvt. Ltd.
	Nandita Goel Batch 2007, BE– ECE	Principle Data Scientist of Applied AI, Walmart Global Tech, Sunnyvale, California, U S A
	Niladri Saha Batch 2007, BE – ECE	Head of Creator Partnerships, YouTube Americas, California, U S A

## 8. Infrastructure Development:

- BIT Mesra Off Campus Deoghar has installed a Fire Hydrant System in the Main Academic Building, followed by procurement of Fire NOC from the State Fire Office, Jharkhand.
- Library: The NDLI Club of BIT Deoghar has been recognised by the National Digital Library of India Project as one of Jharkhand's top-performing clubs. This accolade grants our students exclusive access to an extensive digital library.
- BIT Mesra Off Campus Deoghar's CSE department has developed a new IOT Lab for embedded system design.
- Street lights on the connecting road of the campus have been installed successfully with the help of local authorities.



## 9. Any other relevant information:

### ● Literary Society Event:

**AAKSHAR**, the literary society at BIT Off Campus Deoghar, orchestrated an enriching event to celebrate language diversity and nurture critical thinking skills. Under the guidance of the faculty in charge, Dr. Soumen Karmakar, the event occurred on 03.02.2024. Participants were immersed in stimulating activities, including debates encouraging thought-provoking discussions, a lively quiz to test their literary and general knowledge, and an on-the-spot paragraph writing competition that sparked creativity.



Figure: Literary Society Event: AAKSHAR

With each sub-event designed to inspire and challenge, the event served as a platform for students to explore the intricacies of language and cultivate their analytical and expressive abilities. Dr Mainak Mukhopadhyay, Dr Bishnu Kumar, and Dr Sunit Prasad hosted as the judges in different sub-events, adding expertise and insight to the proceedings. The following events were organised as follows:

- A debate competition on 15.08.2023 on the tourism perspective in Lakshadweep.
- Extempore and fun activities on 11.09.2023.
- A multi-competition event on the thought-provoking debate, quiz on current affairs and an on-the-spot paragraph writing competition on 03.02.2024.
- Various literary events (e.g., debate, quiz, JAM, speel bee, etc.) during AAGHAZ '23 and

UTTHAAN '24.

### ● The Fit India Freedom Run 4.0:

Organised by NSS, BIT Off Campus Deoghar on 31.10.23, Director, NSS coordinator, Dr Payal Bhardwaj, Ms Sutapa Mondal, Dr Ranjan Chattaraj, and other distinguished guests honoured the event with their presence, symbolising the institution's commitment to promoting a culture of fitness and wellbeing.



Figure: Fit India Freedom Run 4.0

Their attendance inspired active engagement from all students of the 2023 batch, with Anand Kumar, Roshan Raj, Gairik Sarkar, and Tanishqa leading the charge, showcasing collective enthusiasm towards the cause.

- A list of activities conducted under the Fit India Freedom Campaign and Certificates were distributed to first, second and third positions.
- Fit India Freedom Run 4.0 was organised on 31.10.2023
- Drawing Competition on 27.10.2023
- Quiz Competition on 18.10.2023

## 10. Special Initiatives, If any:

### ● Hygiene Awareness Drive:

The NSS volunteers from BIT Off Campus Deoghar undertook a commendable initiative to raise awareness about personal hygiene and sanitation at nearby Ratanpur Village, adopted by BIT Deoghar, and distributed sanitary napkins to young girls and women on 07.09.2023. The entire BIT Deoghar fraternity contributed



donations for this noble cause, demonstrating their collective commitment to improving the community's well-being.



Figure: Hygiene Awareness Drive

- **Shramdaan for Swachhata:**

The NSS unit of BIT Deoghar organised a one-hour Shramdaan as part of the Swachhata program on 01.10.2023. Students from the 2022 and 2023 batches enthusiastically participated in this cleanliness drive, diligently cleaning the campus and its surroundings towards a solid commitment to maintain cleanliness and hygiene in the community.



Figure: Shramdaan for Swachhata

- **Plantation Drive:**

BIT Off Campus Deoghar in collaboration with an NGO – “Vasundhara Foundation”, Deoghar meticulously planted 101 shade and fruit-bearing trees across the campus on 15.08.2023, resonating with a collective pledge to nurture environmental sustainability and instil a sense of community responsibility.



Figure: Plantation Drive

- **EmpowHer (Nukkad Natak):**

The NSS unit of BIT Deoghar organised a Nukkad Natak at the Book Fair, B.Ed College, Deoghar on 18.01.2024. The event was orchestrated by NSS coordinator Dr. Payal Bhardwaj and Semester Coordinator Dr. Amit Kumar. Student coordinators Hrishav Choudhary, Neeraj Verma, and Anish from the 2021 Batch played pivotal roles in ensuring the program's success.

- **Village Youth Outreach:**

The NSS unit of BIT Deoghar organised a series of engaging activities for the children on 03.03.2024 at Ratanpur Village, Jasidih, and Madhyamik School in Kunjisar Village, Jasidih. The event included exciting competitions such as the Spoon Race, Paper Art, Quiz, and Drawing Competitions, allowing young minds to showcase their talents and creativity.

- **Ram Mandir Pran Prathishta Utsav:**

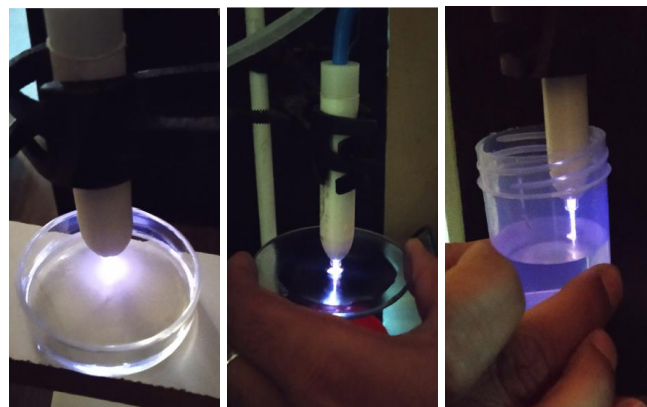
On January 22nd, BIT Deoghar commemorated the Ram Mandir Pran Prathishta Utsav with great enthusiasm. The Institute radiated with the glow of diyas during the Deepotsav, followed by a graceful performance of Ramlila. Students, faculties, and staff members joined their hands together in this celebration, fostering a sense of unity and devotion.



## OFF-CAMPUS: JAIPUR

### SECTION 1

### DEPARTMENTAL PROFILE



- Off Campus:** Birla Institute of Technology, Jaipur Off-Campus was established in 1995. The focus of the institute is to provide quality education in Engineering, Applied Sciences, Management and Animation and Multimedia through innovative programmes & practices. With excellent performance, progressive mind set and good will earned, it is today one of the leading institutes in the field of Engineering, Applied Sciences and Management. The campus is well located in the southern-east part of the city which is an upcoming hub of important installations and development activities in residential, institutional and business areas. The campus is within 5-7 km reach from the airport, railway station and bus stand.

**Vision:** To become a Globally Recognised 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 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.

**1.1 Brief Description of High-end Equipment:** Cold Plasma Jet & 3D printer

**1.2 Established Year:** 1995

**1.3 Courses Offered and Approved Intake:** BTech - CSE, ECE, EEE & Artificial Intelligence (240), MCA (60), BCA (60), BBA (60), M.Sc. Bioinformatics and Computational Biology (15), MSc Animation & Design (10), B.Sc. Animation & Multimedia (45)

**1.4 Thrust Areas of the Campus:** Ensure Quality Education and Academic Excellence

**1.5 Number of Faculties:** 46

**1.6 Number of Projects in the Last Five Years:** 05







creation process.

- **Industrial Visit to Bhamasha State Data Centre: DOIT, Government of Rajasthan, Jaipur**

Department of Computer Science, Birla Institute of Technology Mesra, Jaipur Campus organised an Industrial Visit to Bhamasha Technohub, Country's Largest Startup Incubation hub for Bachelor of Computer Application (BCA) students on 2nd April 2024.

- **World Animation Day Celebration**

World Animation Day was enthusiastically celebrated on October 28, 2023, in partnership with TASI, BIT Jaipur, and other institutions. Notable animation experts delivered lectures and case studies, and faculty and students from the Department of Animation & Multimedia actively participated. The event was so successful that it was decided to make it an annual tradition.

- **Launch of Graphic Novels on Road Safety**

Muskaan Foundation hosted a Road Safety Program at Jawahar Kala Kendra, with Dr. Peeyush Tewari, Director, as the Guest of Honor. The event featured the unveiling of graphic novels created by students from Jaipur's top schools, attended by school principals, faculty, and students.

- **Inauguration of Graphic Novel - Chai Pe Croissant, Designed by Animation &**

### **Multimedia Dept. BIT Jaipur**

The event, attended by school principals, faculty, and students, marked the beginning of a collaboration between BIT Jaipur's Animation & Multimedia Department and these schools to animate the comics. The comic book project was planned by Mr. Sandeep Sethi and Dr. Peeyush Tewari, Centre Director, and designed by Dr. Vibhuti Pandya, along with faculty and students from BIT Jaipur.

- Interaction with Professor Pam and the Team Members of Colombia University, USA regarding the development of animation short film on trash burning.
- Campus organised International Conference on Contemporary Trends in Multidisciplinary Research and Innovation (ICCTMRI-2023). Invited key note speaker (online) Mr. Sunil Dutta from D-Neg Studio from London, delivered lecture on Recent Trends of Animation.
- Summer Training 2024 (8th July-23rd July): 80 students of Polytechnic Collage Jaipur, Government of Rajasthan were trained for required skilling and use of technological tools in the fields of Microcontrollers, Web-Designing, communication and Entrepreneurship.
- Online training on Quantum Computing were provided to 36 students from all over India from 1st June to 30th June 2024 in collaboration with NIMBUS India.

## SECTION 2

## RESEARCH PROJECTS

## 2.1 Sponsored Projects (Research and Consultancy)

## a) Ongoing Projects :

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Duration of the Project
1.	Design Innovation Centre under National Initiative for Design innovation 3.0	Krishna Mohan Medicherla (PI), Pooran Singh Solanki (PI), KVR Rao (collaborator, University of Rajasthan, Jaipur)	Dept. of Higher Education, GOI	30 <sup>th</sup> September, 2021	1,00,00,000	5 years
2.	Registry of Genetic Polymorphisms associated with hormonal and Metabolic Disorders in Asian Indians	Krishna Mohan Medicherla (P.I) Pooran Singh Solanki (Co-PI) Sandeep K Mathur (collaborator, SMS Medical College, Jaipur)	Metabolism and Molecular Research Society, Rajasthan	27 <sup>th</sup> March, 2022	22,00,000	years

## b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	GIS Mapping of Microbial Population for their Geographical Position, Geological and Geochemical Habitats to Explore Oil and Gas Reservoirs in Jaisalmer Sub-Basins of Thar Desert	R K Gothwal (Co-PI)	ST-NGP, Govt. of India	03.03.2021	48,46,664	31.03.2024



**C) Consultancy Projects carried out/ongoing**

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	A base line assessment to find structural deficiencies of the SJE portal and Suggest remedies based on model tools such as AI & ML	The Social Justice & Empowerment Department of Govt. of Rajasthan	June 2024	May 2025	As per actual expenses	CSE Department	Ongoing

**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	International Conference on Innovations in Computing and Applications	Dr. Shripal Vijayvargiya Dr. Deepak Verma	SERB	22-05-2024 To 23-05-2024
2	International Conference on Contemporary Trends in Multidisciplinary Research and Innovation (ICCTMRI-2023)	Dr. Anju Sharma	Union Bank of India	27-07-2023 To 28-07-2023
3	Short Term Training Programme on VLSI Design using CADENCE Tool	Dr. Jyoti Sharma	BIT Mesra, Jaipur Campus	20-02-2024 To 21-03-2024
4	National Science Day (Seminar and Science Exhibition)	Dr. Anand Kumar Srivastava and other faculty members of sciences	BIT Mesra, Jaipur Campus	28-02-2024
5	1st Phase- (Story & Script Writing) Workshop on Development of Animated Short Films on Critical Life Skills and Development of Resource Material	Dr. Peeyush Tewari & Dr. Vibhuti Pandya	By NCERT- Cell for National Centre for Literacy, New Delhi	13-09-2023 To 15-09-2023
6	2nd Phase- (Pre-production) workshop on the Development of Animated Short Films on Critical Life Skills	Dr. Peeyush Tewari & Dr. Vibhuti Pandya	By NCERT- Cell for National Centre for Literacy, New Delhi	30-10-2023 To 03-11-2023
7	3rd Phase- (Development of Animatics) Workshop on the Development of Scripts for Animated Short Films on Critical Life Skills	Dr. Peeyush Tewari & Dr. Vibhuti Pandya	By NCERT- Cell for National Centre for Literacy, New Delhi	18-12-2023 To 22-12-2023



Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
8	4th Phase- (Production & Post Production) Workshop on the Development of Scripts for Animated Short Films on Critical Life Skills	Dr. Peeyush Tewari & Dr. Vibhuti Pandya	NCERT, New Delhi	08-01-2024 To 19-01-2024
9	Animation Workshop on Road Safety for Children of around 14 reputed School of Jaipur participated with their faculty members	Dr. Vibhuti Pandya and Mr. Gaurav Chaudhary	Muskaan Foundation, Jaipur	11-10-2023
10	World Animation Day Celebration	Dr. Vibhuti Pandya & Mr. Gautam Goswami	The Animation Society of India (TASI) & BIT Jaipur	28-10-2023
11	Six Month Course on Computer Aided Drug Design, under DIC Project	P S Solanki, Krishna Mohan Medicherla, Raj Kumar Gothwal	Dept of Higher Education, MoE, GOI	15-09-2023 to 02-03-2024
12	6-Months Project Training Programme	R K Gothwal	BISR	01-01-2024 to 30-06-2024
13	6-Months Dissertation/Project Training (UG and PG students)	Alok Kumar Varshney	BISR	01-01-2024 to 30-06-2024
14	Summer Training (Module 2 - Molecular Biology I)	R K Gothwal	BISR	10-06-2024 to 14-06-2024
15	Summer Training - 2024 (Module 3 - Molecular Biology II)	Alok Kumar Varshney	BISR	17-06-2024 to 21-06-2024
16	Summer Training - 2024 (Module 4 - Fermentation, Protein extraction & Estimation)	Alok Kumar Varshney	BISR	24-06-2024 to 28-06-2024
17	Summer Training - 2024 (Module 5 - Bioinformatics and drug design)	P S Solanki	BISR	01-07-2024 to 05-07-2024

### 3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Santosh Kumar Agarwal	International Conference on "Data Modelling, Applications and Their Security Challenges" (COMPUTATIA –XI)	Vivekananda Global University Jaipur	Vivekananda Global University Jaipur	Vivekananda Global University Jaipur	07-12-2023 To 08-12-2023





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
2	Santosh Kumar Agarwal	ATAL Faculty Development Programme Course on "Building Advanced Data Analytics Application with Cloud",	AICTE	Under NextGen Employability Programme of AICTE.	Online	25-09-2023 To 29-09-2023
3	Vishwambhar Pathak	AICTE Recognized Faculty Development Programme/Short Term Course on "Artificial Intelligence and Cognitive Learning"	NITTTR Chandigarh	Computer Science & Engineering Department, NITTTR Chandigarh	NITTTR Chandigarh	15-01-2024 To 19-01-2024
4	Vivek Gaur	One week FDP / Short Term Training Programme on Cloud Computing and HPC	NITTTR Kolkata	Computer Science & Engineering Department, NITTTR Kolkata	NITTTR Kolkata	05-02-2024 To 09-02-2024
5	Alok Pandey	AI & Cloud – Workshop on Responsive AI in the Cloud	AICTE	Microsoft and SAP	Online	18-09-2023 To 22-09-2023
6	Alok Pandey	Ethical Hacking and Cyber Security	IIT Madras	Edux Labs, Chennai	Online	28-02-2024 To 15-03-2024
7	Alok Pandey	Block Chain and Applications	BIT Noida	BIT Noida	Online	24-06-2024 To 28-06-2024
8	Madhavi Sinha	AI and Cloud: Workshop on Responsive AI in the cloud : Leveraging Generative power in the cloud	AICTE	Microsoft and SAP	Online	18-09-2023 To 22-09-2023
9	Madhavi Sinha	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	25-09-2023 To 29-09-2023
10	Bimalendu Pathak	ATAL Faculty Development Programme Course on "Building Advanced Data Analytics Application with Cloud",	AICTE	Under NextGen Employability Programme of AICTE.	Online	25-09-2023 To 29-09-2023



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
11	Seema Gaur	Inculcating Universal Human Values in Technical Education-II	AICTE	AICTE	Online	03-06-2024 To 08-06-2024
12	Seema Gaur	FDP-Training Program On "R Programming for Budding Data Analysts	Research Foundation of India	Research Foundation of India	Online	09-06-2024 To 18-06-2024
13	Dr. Seema Gaur	Emerging Trends and Technologies in Library and Information Centres (Three-Day Summer Training)	Central Library, BIT Mesra	Central Library, BIT Mesra	Online	19-06-2024 To 21-06-2024
14.	Dr. Archana Bhatnagar	Inculcating Universal Human Values in Technical Education-II	AICTE	AICTE	Online	03-06-2024 To 08-06-2024
15	Dr. Piyush Gupta	International Conference on Deep Learning, Artificial Intelligence and Robotics, (ICDLAIR) 2023	AICTE	NIT, Kurukshetra	Online	07-12-2023 To 09-12-2023
16	Dr. Piyush Gupta	International Conference on Information and Communication Technology in Business, Industry and Government (ICTBIG-2023), Indore	DST	Symbiosis University of Applied Sciences, Indore	Online	10-12-2023 To 12-12-2023
17	Dr. Piyush Gupta	National Conference on Recent Trends in Space Technology, RTST -2024	MNIT, Jaipur	MNIT, Jaipur	Offline	20-03-2024 To 21-03-2024
18	Dr. M. M. Agarwal	Artificial Intelligence & Data Science: Perspectives, Pedagogy and Practices	Atal FDP, AICTE	JIO Institute of Technology, Navi Mumbai	Offline	21-08-2023 To 25-08-2023



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
19	Dr. Jyoti Sharma	International Conference on Power Electronics, Intelligent Control and Energy Systems	IEEE	Department of Electronics and Communication Engineering	Delhi Technological University	26-04-2024 To 27-04-2024
20	Dr. Jyoti Sharma	National Conference on Recent Trends in Space Technology (RTST- 2024),	ISRO	ISRO Regional Academic Centre for SPACE and MNIT Jaipur	MNIT, Jaipur	20-03-2024 To 21-03-2024
21	Dr. Jyoti Sharma	27th International Springer Symposium on VLSI Design and Test (VDAT-2023), Rajasthan	Springer	Birla Institute of Technology & Science, Pilani, Rajasthan	Birla Institute of Technology & Science, Pilani, Rajasthan	29-09-2023 To 01-10-2023
22	Dr. Jyoti Sharma	International Springer Conference on Computational Intelligence and Smart Technologies in Electrical Engineering (CISTEE 2023)	Springer	NIT, Durgapur	NIT, Durgapur	16-12-2023 To 17-12-2023
23	Dr. Jyoti Sharma	UHV-II Course on Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	25-03-2024 To 30-03-2024
24	Dr. Jyoti Sharma	UHV-II Course on Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	04-12-2023 To 08-12-2023
25	Dr. Jyoti Sharma	FDP workshop on Recent Trends in MEMS for 6G Communications (RTMC-2023)	CSIR-CEERI, Pilani	CSIR-CEERI, Pilani	Jaipur	17-08-2023 To 18-08-2023
26	Dr. Jyoti Sharma	One-week workshop on VLSI to System Design: Silicon to End Application Approach	AICTE, Arm Education and ST Microelectronics	AICTE, Arm Education and STMicroelectronics	Online	31-07-2023 To 04-08-2023
27	Snehanshu Shekhar	Machine Vision & Augmented Intelligenceset datafile separator	NIT Patna	NIT Patna	Online	24-11-2023 To 25-11-2023



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
28	Dr. Purvi Mathur	International Conference on Contemporary Trends in Multidisciplinary Research” (ICCTMR 2023)	“COVID-19 Transformed the Indian Teenagers’ Psycho Landscape towards Sustainability Requiring Technology emendation in Context to Online Food Application”	Birla Institute of Technology, Mesra, Jaipur Campus	Birla Institute of Technology, Mesra, Jaipur Campus.	27-07-2023 To 28-07-2023
29	Dr. Purvi Mathur	Immersive Technology and Experiences: Implications for Business and Society	“Clustering the Indian Teens to Study their Psycho-Orientation to Measure Satisfaction and Attachment towards Online Food Application”	MICA, Ahmedabad	MICA, Ahmedabad	18-01-2024 To 20-01-2024
30	Dr. Roopali Sharma	Inculcating Universal Human Values in Technical Education (UHV I)	AICTE	AICTE	Online	25-09-2023 To 29-09-2023
31	Dr. Priyanshu Sharma	The rise of Digital Currency: A bibliometric evolution and future research	74 <sup>th</sup> All India Commerce Conference	University of Delhi	O P Jindal Global University, Sonipat Haryana.	13 <sup>th</sup> 13-12-2024 To 15-12-2024
32	Dr. Priyanshu Sharma	Cross Channel Marketing Optimization Using AI: Achieving Consistency and Coherence Across Platforms	2 <sup>nd</sup> IEEE International Interdisciplinary Humanitarian Conference for Sustainability	Sri Venkatesh-wara College of Engineering, Bengaluru	Sri Sri Venkateshwara College of Engineering, Bengaluru	03-11-2023 To 04-11-2023
33	Dr. Priyanshu Sharma	Inculcating Universal Human Values in Technical Education (UHV II)	AICTE	AICTE	Online	03-06-2024 To 08-06-2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
34	Dr. Jyoti Kumar Chandel	International Conference on Innovative Research in Science, Management and Technology	BIT	Jai Narain Vyas University, Jodhpur	Jai Narain Vyas University, Jodhpur	05-01-2024
35	Dr. Jyoti Kumar Chandel	Professional Development Workshop on Digital Creativity Skills	Adobe Express and AICTE	Adobe Express and AICTE	Online	July 2023
36	Dr. Anand Kumar Srivastava	Universal Human Values-II FDP	AICTE	AICTE	Online	27-05-2024 To 01-06-2024
37	Dr. Anand Kumar Srivastava	Workshop on "Environmental and Health Applications of Pulsed Power and Cold Plasmas	SERB, DST	Department of Physics, IIT Jodhpur	Online	15-06-2024
38	Dr. Ravindra Kumar	International Conference on (RTES-24)	BIT Mesra	BIT Mesra	BIT Mesra (Hybrid Mode)	29-03-2024 To 30-03-2024
39	Dr. Ravindra Kumar	International Conference on contemporary trends in multidisciplinary research and innovation (ICCTMRI – 2023)	BIT Mesra	BIT Mesra, Jaipur Campus	BIT Mesra, Jaipur Campus	27-07-2023 To 28-07-2023
40	Dr. Ranjana Agarwal	Universal Human Values-I FDP	AICTE	AICTE	Online	04-10-2023 To 08-10-2023
41	Dr. Ranjana Agarwal	Universal Human Values-II FDP	AICTE	AICTE	Lucknow	16-01-2024 To 20-01-2024
42	Mrs. Nidhi Singh	UHV II	AICTE	AICTE	Shri Ram-shwaroop Memorial College of Engineering and Management, Lucknow	16-01-2024 To 20-01-2024
43	Mrs. Nidhi Singh	UHV I	AICTE	AICTE	Online	25-09-2023 To 29-09-2023







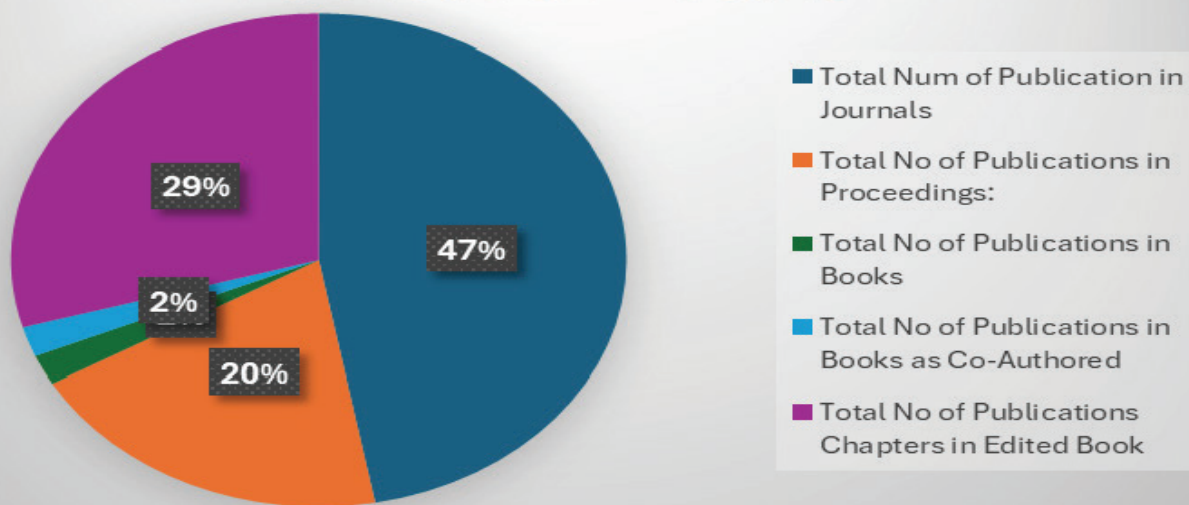
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
51	Dr. M. Krishna Mohan, Dr. Raj Kumar Gothwal, Dr. Pooran Singh Solanki, Dr. Alok Kumar Varshney	One day workshop on Earth Observations for Climate Services	NICES	National Information System for Climate and Environment Studies (NICES)	BISR, Jaipur	12-11-2023

**SECTION- 4**

**RESEARCH PUBLICATIONS**

Sr.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	24	10	01	1	15

### 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	Santosh Kumar Sharma	“Shiksh Ratn Award”	Taxshila Business School, Jaipur	State	Dec 2023
2	Dr. Piyush Gupta	Member, Academic Council	Greater Noida Institute of Technology, Noida	National	March 2024
3	Dr. Anand Kumar Srivastava	Invited Talk entitled, “Environment-Friendly DBD Based Cold Plasma Sources for Bio-Medical Applications” during Workshop on Environmental and Health Applications of Pulsed Power and Cold Plasmas	IIT Jodhpur	National	June 2024
4	Dr. Ravindra Kumar	Best Paper Presentation Award in International Conference on Recent Trends in Engineering and Sciences (RTES-24)	BIT Mesra	International	March 2024
5	Dr. Dheeraj Bhardwaj	Certificate of world scientist ranking 2024	AD scientific index	International Level	2024



### 1.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
1	Mr. Santosh Kumar Sharma	Artificial Intelligence and Machine Learning in Healthcare Application	202311026115	April 2023	Published
2	Mr. Puneet Sharma	A pdms-based graphene/pani/graphene (g-p-g) sandwich transparent conducting flexible sensor device and its fabrication method therefore	202411037200	May 2024	Published

### 5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	The Social Justice & Empowerment Department of Govt. of Rajasthan	To Collaborate for the common objectives of the betterment of society and people of Rajasthan.	One Year
2.	SS Jain Subodh College Jaipur	To bridge the gap between Academic Deliveries, Collaborative research, organise seminars and conferences and student exchange programmes	One Year

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Workshop on Unlocking Web development	Palash Chatterjee	Subhash Chand Gupta, Santosh Kumar Agarwal	March 21, 2024
2	Workshop on Computer Networks and Practical Aspects	Aditya Arya	Dr. Alok Pandey	March 22 2024
3	Fundamentals of Machine Learning using Python, R, and Perl	Raunak Janu	Dr. Seema Gaur	1 <sup>st</sup> July – 31 <sup>st</sup> July , 2024
4	Robotics workshop	Swayam Kumar Yadav	Dr. Archana Bhatnagar	30 <sup>th</sup> Sept 2023.
5	A Java workshop for java skill development	Rohil Krishna	Dr. Archana Bhatnagar	5 <sup>th</sup> -7 <sup>th</sup> March 2024.



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
6	AI/ML workshop	Aditya Arya	Dr. Shripal Vijayvargiya	6 <sup>th</sup> -7 <sup>th</sup> March 2024.
7	A Generative AI workshop	Sumya Upadhaya	Dr. Piyush Gupta	9th March 2024
8	Industrial Visit of BCA Students	Navanash Khandelwal	Dr. Seema Gaur Dr. Piyush Gupta	2nd April 2024.
9	IETE Foundation Day-Intra College Debate Competition	Lakshya Khandelwal	Snehanshu Shekhar	3 <sup>rd</sup> Nov, 2023
10	Infographic Competition -2024	Surmai Sharma, Kushagra Bhaktiani, Kritarth Awasthi and Astitva Kumar.	Dr. Roopali Sharma & Dr. Priyanshu Sharma	22 <sup>nd</sup> March 2024
11	Workshop on Financial Education in association with National Institute of Securities Market (NISM ) as an Educational initiative of SEBI in collaboration with Kotak Securities	Surmai Sharma and Kartik Sharma	Dr. Roopali Sharma & Dr. Priyanshu Sharma	11 <sup>th</sup> -12 <sup>th</sup> September 2023
12	Scientific Model Display, Oral Presentation, Poster Presentation and Science Quiz during National Science Day Celebration	Kartik Sharma	All Faculty members of Department of Sciences	28 <sup>th</sup> February 2024
13	Artist of the Month	Rachna Ragupati	Dr. Rishika Sharma & Mr. Obed Longvah	August - December 2023
14	Lab Safety Measures	Sharmishtha Bharti, Vishishta Pandit, Neha Ganeriwal	Dr. P S Rathore	21 <sup>st</sup> Aug 2023
15	Pinnacle	Neha Ganeriwal and Vishishta Pandit	Dr. P S Rathore	2 <sup>nd</sup> -3 <sup>rd</sup> Nov 2023
16	Vibration	Sharmishtha Bharti, Vishishta Pandit, Neha Ganeriwal	Dr. Rajni Agarwal	11 <sup>th</sup> Feb 2024
17	Speaking tree	Sharmishtha Bharti, Vishishta Pandit, Neha Ganeriwal	Dr. Rajni Agarwal	11 <sup>th</sup> -12 <sup>th</sup> Feb 2024





6.2. List of Faculties

Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
<b>Department of Computer Science &amp; Engineering</b>						
1	Dr. Shripal Vijayvargiya	GEN	Associate Professor	Soft Computing	PhD, MTech	08-03-2003
2	Subhash Chand Gupta	GEN	Assistant Professor	Machine Learning	MTech, B.E.	20-01-2005
3	Santosh Kumar Agarwal	GEN	Associate Lecturer	Computer Architecture	MCA	08-02-2005
4	Vishwambhar Pathak	GEN	Assistant Professor	Machine Learning	PhD, MCA, M Sc	16-09-2005
5	Dr. Vivek Gaur	GEN	Assistant Professor	Cloud Computing	PhD, M.E.	04-03-2002
6	Dr. Alok Pandey	GEN	Assistant Professor	Computer Networks, IoT Cyber Security	PhD, MBA, BE	01-01-2005
7	Dr. Madhavi Sinha	GEN	Associate Professor	Artificial Intelligence	Ph.D.	01-08-2007
8	Bimalendu Pathak	GEN	Assistant Professor	Data Mining, Machine Learning	PGDCA, MCA	18-11-2000
9	Prem Kumar Sharma	GEN	Assistant Professor	Simulation and Modelling	M.Tech (CS)	01-01-2002
10	Dr. Anju Sharma	GEN	Assistant Professor	Networking, Distributed Databases	M.Tech (CS), Ph.D.	22-07-2005
11	Dr. Seema Gaur	GEN	Assistant Professor	Data Science, Computer Graphics	M.Tech (CS), Ph.D.	04-07-2005
12	Dr. Archana Bhatnagar	GEN	Assistant Professor	Software Engineering	MCA, Ph.D.	01-07-2003
13	Mr. Santosh Kumar Sharma	GEN	Assistant Professor	Software Engineering, Machine Learning	B. Tech (CS), M. Tech (IT), MBA	25-02-2009
14	Dr. Piyush Gupta	GEN	Assistant Professor	Cloud Computing	PhD, MCA	09-09-2003
15	Dr. Madan Mohan Agarwal	GEN	Assistant Professor	Mobile Ad Hoc Networks, System Programming	PhD, M. Tech, B.E.	09-09-2008
<b>Department of Electronics &amp; Communication Engineering</b>						
1	Dr. Jyoti Sharma	GEN	Assistant Professor	VLSI Design	PhD, M.Tech., B.E.	18-03-2010





Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
2	Dr. Dheeraj Bhardwaj	GEN	Assistant Professor	Design of Microstrip Patch Antenna and various Applications	PhD	15-09-2010
3	Dr. Ravindra Kumar	GEN	Associate Lecturer	Plasma Based Surface modification process	PhD	01-09-2008
4	Dr. Gurminder Singh	GEN	Associate Professor	Heat and Mass transfer in boundary layer flows	PhD	01-07-2004
5	Dr. I K Dadheech	GEN	Assistant Professor	Fluid Dynamics	PhD	06-01-2006
6	Dr. Bhawana Agarwal	GEN	Assistant Professor	Fluid Dynamics	PhD	21-03-2009
7	Dr. Ranjana Agarwal	GEN	Assistant Professor	Water Analysis and Environmental Pollution	PhD	01-04-2009
8	Mrs. Nidhi Singh	GEN	Associate Lecturer	Water Pollution and Bioaccumulation	M.Sc.	08-05-2006
<b>Department of Animation &amp; Multimedia</b>						
1	Dr. Vibhuti Pandya	General	Asst. Professor	Digital Animation	PhD, Masters of Drawing & Painting	04-01-2006
2	Mr. Gautam Kumar Goswami	General	Asst. Professor	Digital Sculpting	Master of Fine Arts	05-11-2007
3	Mr. Gaurav Choudhary	General	Asst. Professor	Digital Art	Master in Animation Design	24-06-2026
4	Mr. Manish Kumar	OBC	Asst. Professor	Digital 3D Modeling & Texturing	Master in Animation Design	06-01-2009
5	Dr. Rishika Sharma	General	Asst. Professor	Digital Graphics	PhD, Masters of Drawing & Painting	04-04-2009
<b>Department of Biotechnology</b>						
1	Dr. Krishna Mohan Medicherla	GEN	Professor	Medical Genomics, NGS	MSc, PhD	01-08-2009



Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
2	Dr. Raj Kumar Gothwal	GEN	Assistant Professor	Microbial Biotechnology, Plant Microbial Interactions, Microbial Bioprospecting	MSc, PhD	01-08-2009
3	Dr. Pooran Singh Solanki	GEN	Assistant Professor	Bioinformatics, Structure based adaptive evolution, Genome & Proteome Analysis	MSc, PhD	01-08-2009

### 1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any (between 1st July 2023 to 30th June 2024)

Sr. No.	Name	Category	Designation	Affiliation
1.	Dr. Shaan Ghular	GEN	Visiting Faculty	Visiting Faculty
2.	Mr. Sheetal Kumar Sharma	GEN	Visiting Faculty	Visiting Faculty

### Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1.	Dr. Madhavi Sinha	Member, Department of Computer Applications, Vivekanand Global University, Jaipur	External Member
2.	Dr. Madan Mohan Agarwal	Member, Department of CSE, Vivekananda Global University, Jaipur	External Expert
3	Dr. Piyush Gupta	Member, Greater Noida Institute of Technology	Academic Council Member
4	Dr. Raj Kumar Gothwal	Member, JNU Jaipur	External Member
5	Dr. PS Solanki	Member, JNU Jaipur	External Member



**SECTION- 7**

**OTHER INFORMATION**

**7.1 Student Entrepreneurship activities/Start-ups if any:**

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Aman Goyal	Self	Jouls EcoTech Pvt. Ltd.	Jouls is dedicated to the development and production of eco-smart technologies. Our current focus is on building highly efficient and optimized electric vehicle chargers for residential use. Through innovative design, we aim to expand the capabilities of our EV chargers to enhance the user experience. Our overarching objective is to offer products that support sustainable living and align with our vision of inspiring individuals to transition towards more sustainable practices.
1.	Mohit Patwa	Self	The III Eye Impressions	Deals with services related to professional photography, cinematography, drone piloting, video editing and graphics designing
2.	Harsh Badaya	Self	Grapholic	Graphic Designing   Animation   Digital Marketing   E-learning   Web Development

**7.2 Achievements of Students:**

Sr. No	Name of Student with Roll Number	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Ashmit Jain (BTECH/25021/21)	ICPC Regionals 2022, 11 <sup>th</sup> position.	Association of Computing Management (ACM)	01/04/23-03/04/23 Amritapuri, Kerela
2.	Krish Agrawal (BTECH/25012/21)	Awarded 1st in the Model Presentation at the RTST ISRO-2024 conference, MNIT, Jaipur.	ISRO	20/3 to 21/3/ 2024, MNIT Jaipur.
3.	Krish Agrawal (BTECH/25012/21)	Achieved 1400 Rank out of 35k+ competitors in the Leetcode Weekly Contest.	LEETCODE	March 2024
4.	Urshita Tandon MAD/25004/23	Best Student Project Award (for Animated Short Film)	10th Pink City International Short Film Festival, 2023	20.09.2023 Central Spine, Vidyadhar Nagar, Jaipur





## 7.3 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)

Bachelors		Masters	
Name, Roll Number	Organization	Name, Roll Number	Organization
Aditi Shah BTECH/25004/20	Persistent Systems	Rachna Ragupati MAD/25001/22	Ihub Drishti IITJ
Ashish Dixit BTECH/25103/20	Taaza Tech		
Bhavesh Jain BTECH/25006/20	KMK		
Charvi Keswani BTECH/25018/20	Taaza Tech		
Chirag Sharma BTECH/25009/20	Robo MQ		
Harsh Sharma BTECH/25027/20	KMK		
Kaustubh Bhargava BTECH/25100/20	KMK		
Kushagra Bhatnagar BTECH/25097/20	Taaza Tech		
Mansi Vashistha BTECH/25038/20	Robo MQ		
Rajat Singh BTECH/25015/20	BlackNGreen		
Sarthak Pathak BTECH/25024/20	Taaza Tech		
Tanya Khandelwal BTECH/25104/20	Persistent Systems		
Ayush Agarwal BAM/25001/21	Brainrig Studios		
Anuj Chaudhary BAM/25002/21	Brainrig Studios		
Aarushi Sharma BAM/25003/21	Brainrig Studios		
Harshit Munot BAM/25004/21	Conceptify		
Harshwardhan Rathore BAM/25005/21	NHSRC, New Delhi		
Rachit Mathur BAM/25007/21	Adzonique		
Divya Bhutani BAM/25010/21	MTX		


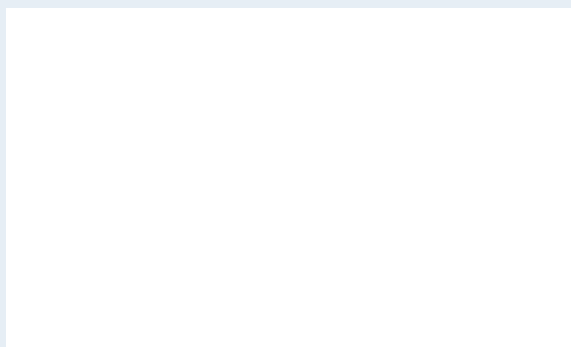




Bachelors		Masters	
Name, Roll Number	Organization	Name, Roll Number	Organization
Sakshi Tiwari BAM/25012/21	NHSRC, New Delhi		
Arpit Verma BAM/25013/21	Brainrig Studios / Ihub Drishti IITJ		
Kritika Lavania BAM/25014/21	Ethnic Flavors event		
Pratishtha Sharma BAM/25016/21	Ethnic Flavors event		
Saransh BAM/25017/21	Brainrig Studios / The brand chapter		




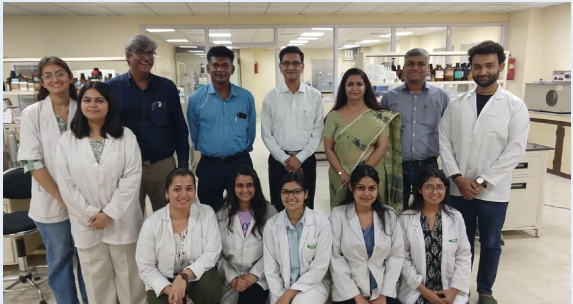

#### 7.4 Students Gone for Higher Studies

Bachelors		Masters	
Name, Roll Number	Organization	Name, Roll No.	Organization
Prerna Mittal BAM/25003/16	National Institute of Design, Ahmedabad	Sameer Balkhi BTech/25028/18	IIT Jodhpur
Ashi Methi BAM/25002/19	Savannah College of Art & Design, USA	Taranjot Bahl BE/25031/17	ISDM, Noida
Ananya Jain BAM/25010/17	Rochester Institute of Technology, USA	Aryaman Chaudhary BE/25062/17	IIFT Kolkata
Ayush Pandey BAM/25024/18	Bournemouth University, London	Aditya Arsh BE/25039/17	NIT Agartala
Archee Vijayvargia BAM/25009/18	TU Delft, Netherlands, UK	Vaibhav Jain BE/25059/16	Technical University of Munich
Arpit Deb BAM/25001/19	University of London	Rohan Sardana BE/25082/16	New York University
Elvira Mishra BAM/25010/18	University of Glasgow, Scotland, UK	Megha Singh Panwar BE/25030/16	IIM, Kashipur

## 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Dr. Muridul Bhasin Founder, Muskaan Foundation of Road Safety, Jaipur	11.10.2023	
2.	Mr. Sandeep Sethi Director-Education, City Palace Museum, Jaipur	21.11.2023	
3.	Dr. Pam Factor Professor of Epidemiology at CUMC Associate Dean for Research Resources Mailman School of Public Health, Columbia University USA	13.12.2023	
4.	Mr. Shiv Makavana Renowned Independent Animation Film Maker, Mumbai & Hyderabad Mr. Mohammad Rafik Animation Expert & Academician, Banasthali Vidyapeeth, Tonk Mrs. Yachna Gupta Member of CNCL Cell, NCERT, New Delhi Mr. M. Shah Alam Member of CNCL Cell, NCERT, New Delhi	19.01.2024 To 19.01.2024	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
5.	Mr. Subhra Chakraborty, Director- Animatezone Studios, Kolkata, Mr. Aditya Chari from Pune, Mr. Anand C'kar from Mumbai Mr. Vaibhav More from Mumbai (Renowned Independent Animation Artists from Animation Industry)	28.10.2023	
6	Dr. Arun Goyal, Professor & Former Head, IIT Guwahati	Feb 9, 2024	
7	Dr. Gulshan Wadhwa, Scientist-G, DBT, New Delhi	May 3, 2024	
8	Shri V. Saravana Kumar, Secretary, DST, Rajasthan	May 8, 2024	
9	Dr. Vinod Kumar Nigam, Professor, Bioengineering & Biotechnology Department, BIT, Mesra	June 12-13, 2024	







## BIT Off Campus: Lalpur

### SECTION 1

### DEPARTMENTAL PROFILE



#### 1. About the Department/Off Campus : (In Brief)

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. are being offered by the institute.

#### About the Department of Computer Science:

##### 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 develop and maintain state of art research infrastructure and facilities for our students and staff with mutually beneficial collaborations with leading universities, industries and research bodies across the globe to continually improve the quality of education and research.

#### About the Department of Management:

##### Vision

The department of Management, BIT Mesra, Lalpur strives relentlessly to develop and maintain its recognition as a frontrunner in contemporary management education in the country and contribute positively towards nation-building through



excellence in education, research and development activities.

## Mission

1. To educate students across under graduate, post graduate and doctoral levels with a view to equip them with the requisite skills for emerging as successful managers, leaders, entrepreneurs and researchers in the modern era.
2. To provide excellent research and development facilities for faculty and students to undertake contemporarily relevant theoretical and applied research.

### 1.1 Established Year

### 1.2 Courses Offered and Approved Intake

### 1.3 Thrust Areas of the Department

The Department focuses on cutting-edge research in Artificial Intelligence and Machine Learning, Data Science and Big Data Analytics, and Cybersecurity and Network Technologies. These thrust areas aim to advance knowledge and innovation in critical domains of computer science and engineering. Through these efforts, the Department strives to address contemporary challenges and contribute to technological advancements.

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### 1.4 Number of Faculties: 19+21+02+06=48

Management: 19

CSE : 21

### Visiting Faculty:

Management: 02

CSE : 06

### 1.5 Brief Description High-end Lab Facilities

The Department boasts high-end lab facilities equipped with the latest technology to support advanced research and development. These labs include state-of-the-art computer systems, specialized software, and tools for Artificial Intelligence, Data Science, and Cybersecurity. Designed to foster innovation and hands-on learning, the facilities provide students and researchers with an environment conducive to cutting-edge experimentation and project work.

The high-end lab facilities at BIT Mesra (Lalpur Campus) are designed to provide a secure and innovative environment for hands-on learning, research, and technical skill development. These facilities include multiple computer labs equipped with up-to-date software and high-speed internet, catering to the academic and administrative needs of students and staff. The labs support a collaborative learning space with specialized equipment and trained personnel, including lab assistants, a system analyst, and a network manager. The facility emphasizes maintaining a safe and organized environment, adhering to strict operating hours and lab conduct rules.

### Detailed Information about the Computer Labs at BIT Mesra (Lalpur Unit):

#### Lab I(A):

1. Floor: First

2. Student Intake: 60

#### Lab I(B):

1. Floor: Under-construction

2. Student Intake: 50

#### Lab II(A+B):



1. Floor: First

2. Student Intake: 66

Lab III(A):

1. Floor: Second

2. Student Intake: 60

Lab III(B):

1. Floor: Second

2. Student Intake: 56

**Other IT-Related Consolidated Details:**

- Server: 2
- Printer: 1
- Laptop: 1
- UPS (Lab) [6 KVA]: 8
- UPS (Lab) [5 KVA]: 3
- UPS (Lab)[20 KVA]: 2

**Software Details installed in Lab as per subject requirement:**

Linux 6 Enterprise Edition (Server Edition), Windows Server 2003, Windows 10 OS, Antivirus (BIT Defender), Oracle 10g. Enterprise Edition for windows, MS- Office 2010, Adobe Photoshop suit, Libre Office 7.3, Scilab, Argo (UML Tool), Matlab, GIMP, Tally (Education Package), C Compiler (Borland C++), Spyder, SSH Client (Putty), CFree

**Remark:**

- Each lab is managed by an assigned lab assistant.
- Additionally, a System Analyst and a Network Manager support each lab.
- Each lab is equipped with a first-aid box and a fire extinguisher.
- All labs are furnished with the necessary software installed on the systems for the smooth functioning of lab sessions.

- Each lab has a notice board displaying the Standard Operating Procedures (SOP) of the lab, the routine timetable, and the required lab manual for the subjects assigned to the lab.
- During the lab session, the concerned faculty members, along with the support staff, conduct the session and address any queries raised by the students.

### 1.6 Brief Description of High-end Equipment

The high-end equipment in the department's labs includes advanced computing systems with powerful processors and ample memory, specialized servers for handling big data and complex computations, and high-resolution monitors for detailed visualization work. Additionally, the labs are equipped with state-of-the-art software for artificial intelligence, machine learning, data analytics, and cybersecurity. This cutting-edge technology enables precise experimentation, efficient processing, and innovative research, facilitating a superior educational and research experience.

At BIT Mesra( Lalpur unit) , we are committed to providing our students with state-of-the-art facilities to enhance their learning experiences across various courses, including BCA, BBA, MBA, and MCA. Our campus is equipped with high-end equipment and technology to support diverse academic and practical training needs.

1. **Advanced Computing Labs:** Our computing labs are outfitted with high-performance desktops and workstations, essential for practical sessions in programming, data analysis, and computer graphics. Each lab is equipped with the latest software tools and applications, ensuring students have access to current industry standards.
2. **Smart Classrooms:** We have 18 lecture halls, all equipped with whiteboards and touch screen monitors. Out of these, 16 lecture halls also





Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
2	Organizing member at Five-Day Short-Term Training Programme on 'Decision Making with Business Analytics' DMBA 2023	Dr.T.k.Banerjee, Dr. Mahua Banerjee	B i r l a Institute of technology, Mesra	31st July to 4th August 2023

**2.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/ FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
1.	Dr. Pranab Kumar	International Conference on Machine Intelligence Applications	BIT Meara	BIT Mesra (Lalpur)	Ranchi	7-8 December 2023
2.	Onima Tigga, Jaya Pal and Debjani Mustafi	International Conference on Machine Intelligence with Applications (ICMIA 2023)	Birla Institute of Technology, Mesra	Birla Institute of Technology, Mesra , Off Campus Lalpur, Ranchi, India	Birla Institute of Technology, Mesra , Off Campus Lalpur, Ranchi, India	07-08, December 2023.
3	Soumitro Chakravarty	Critical Analysis of CSR initiatives adopted by selected Indian Corporates	Self	International Conference organized by the Soil Institute of Business Design in association with Royal Roads University, Canada	Online	8-12-2023 & 9-12-2023
4	Soumitro Chakravarty	Seeding Sustainability: Machine Learning Applications in Agricultural Climate Change Adaptation Strategies	Self	One Day Multidisciplinary International E-Conference on "Science, Technology and Society: A Global Perspective (IESTSGP-2023)" Organized by the Shahajiraje Mahavidyalaya and Internal Quality Assurance Cell (IQAC), Shivaji University, Kolhapur	Online	28- 12 -2023







Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/ FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
9	Umesh Prasad	Factors influencing Retention cognitions among knowledge workers: A Data-Driven Analysis	Self	2 <sup>nd</sup> International conference on Latest Trends in Business Management Innovation Technology and Sustainability, GITAM School of Business, Bengaluru.	GITAM School of Business, Bengaluru.	15-03-2024 & 16-03-2024
10	Umesh Prasad	"Factors Affecting employment predicament among college graduates in Jharkhand: A study in the Post-Pandemic era	Self	International Conference on Management Research Sahrdaya -SIMS 24 (ICMRS'24)	Sahrdaya Institute of Management Studies (SIMS), Kodakara	6-06-2024 & 7-06-2024
11	Dr. Siba Mitra	International Conference on Machine Intelligence with Application 2023 (ICMIA 2023)	INTERNAL	BIT, MESRA (LALPUR)	BIT, MESRA (LALPUR)	07-DEC-2023 to 08-DEC-2023
12	Siva Surya Narayana Chintapalli	International Conference on 6G Communications Networking and Signal Processing (SGCNSP)	Self	NTU Alumni, Singapore	Singapore	December 27-30, 2023
13	Siva Surya Narayana Chintapalli	2 <sup>nd</sup> International Conference on 6G Communications Networking and Signal Processing (SGCNSP-2024)	Self	Sharnbasva University, Kalaburagi	Kalaburagi	13th July 2024
14	Siva Surya Narayana Chintapalli	Malaviya Mission Teacher Training Programme (MM-TTP)	Free	University of Hyderabad (MMTTC-UoH)	Hyderabad	23rd May to 31 <sup>st</sup> May 2024
15	Amrita Sarkar	Paper presented at International Conference on Machine Intelligence with Application (ICMIA 2023)	Birla Institute of Technology, Mesra	Department of CSE and Management	Birla Institute of Technology, Mesra, Lalpur Campus	7th -8th December 2023.



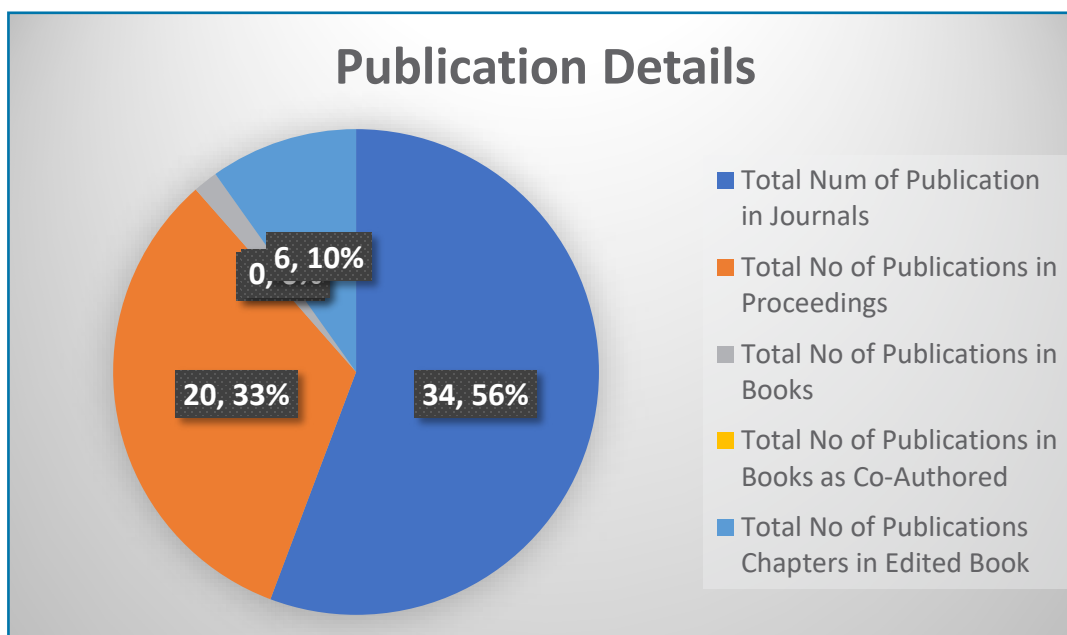


Sr. No.	Name of the Faculty	Title of the Conference/ Seminar/ FDP	Funding Agency	Organizers	Venue	Date (dd. mm.year)
24	Vijaya Lakshmi Sarraju	DST PURSE Workshop	DST	BIT, Mesra, Ranchi	Mesra	11 <sup>th</sup> December to 15 <sup>th</sup> December 2023

**SECTION- 3**

**RESEARCH PUBLICATIONS**

Total Num of Publication in Journals	Total No of Publications in Proceedings	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
34	20	01	00	06





## SECTION- 4

## AWARD/PATENT/COLLABORATIONS

### 1.1 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.	Srabani Mukhopadhyaya	Best Paper Award in the category of Emerging Techniques	International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA), 2024	International	April, 2024

### 1.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent (Max 50 words)
1.	Professor G P Mishra & others	A system and method for managing and accessing Digital content	Patent Application No.] TEMP/E-1/41401/2023-MUM	2023	The patent refers to the technical field of controlling devices and in specific, relates to a system that manages and gains access to digital content through multiple interfaces
2	B K Sharma, Vijay K Yadav	Prediction of Stock price using Statistical and Ensemble Learning Models	202431040228 A	2024	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.
3	B K Sharma, Vijay K Yadav	Prediction of Stock price using Statistical and Ensemble Learning Models	202431040228 A	2024	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.





### 1.3 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)

### SECTION- 5

### Activities/Faculty Members/DOS/DAS

#### 5.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Voter awareness Campaign	Hritika, Smita, Salini, Aishwarya, Sakshi Jain, Shakshi, Aprajita, Abhishek	Dr.A.R.Srivastava	4 <sup>th</sup> March,2024
2.	Old age home Visit	Hritika, Sakshi Jain, Nehab, Aishwarya, Ritik, Abhishek	Dr.A.R.Srivastava	17 <sup>th</sup> February 2024
3	Saraswati Pooja	Nikita, Anish	Dr.A.R.Srivastava	14 <sup>th</sup> February,2024
4.	Republic day (Nukkad Natak, Patriotic Song, Prabhat-Pheri, Musical Performance)	Ayushi Kumari Aditya Gupta, Ayushi Dikshit	Dr.A.R.Srivastava Dr. S.N.Sahdeo Dr.Pradeep Munda	26 <sup>th</sup> January, 2024
5.	Vigilance Awareness Week in association with CCL	Nikita Aditya Gupta Hritika, Ayushi, Simran	Dr.A.R.Srivastava Dr. S.N.Sahdeo	2 <sup>nd</sup> - 4 <sup>th</sup> November, 2024
6.	Plantation drive in Campus	Nikita, Ayushi Kumari	Dr.A.R.Srivastava Dr. S.N.Sahdeo Dr.Pradeep Munda	13 <sup>th</sup> October, 2023
7.	NSS Talent Show	Nikita, Ayushi Dikshit	Dr.A.R.Srivastava Dr. S.N.Sahdeo Dr.Pradeep Munda	14 <sup>th</sup> September, 2023
8.	Teachers day event	Nikita	Dr.A.R.Srivastava Dr. S.N.Sahdeo Dr.Pradeep Munda	5th September 2023



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
9.	Independence day (Nukkad Natak, Patriotic Song, Musical Band Performance)	Nikita, Ayushi Dikshit	Dr.A.R.Srivastava Dr. S.N.Sahdeo	15 <sup>th</sup> August 2023
10	Digital Lockdown: An Escape Room Challenge	1. Aditya Mishra (BCA/40574/22) 2. Manish Kumar Singh (BCA/40572/22) 3.Rishi (BCA/40560/22) 4.Md. Haris (BCA/40562/ 22)	Dr P S Bishnu Dr A Sarkar	14 <sup>th</sup> March 2024 12:00 PM To 4:00 PM
11	Attire Clique	Ms. Nimisha (BCA/40011/21) Ms. Aditi Sahay (BCA/40005/21)	Dr. Amrita Priyam Dr.Mahua Banerjee	14 <sup>th</sup> March, 2024; 4 Hours
12	Eureka Summit: A Codefest	1. Brishti Dey (BCA/40058/21) 2. Smriti Choubey (BCA/40057/21) 3. Kumari Komal (BCA/40005/22) 4. Ruchika Lohani (BCA/40042/22) 5. Pallavi Sinha (BCA/40043/22) 6. Mantasha Ahmad (BCA/40015/22) 7. Riya Kumari (BCA/40006/22) 8. Sneha Singh (BCA/40040/22) 9. Anjali Kumari (BCA/40004/22) 10.Mahi Kumari (BCA/40044/22) 11 Akriti Shankar (BCA/40045/22)	Dr. P S Bishnu Dr A Sarkar	13 <sup>th</sup> & 14 <sup>th</sup> March 2024 11:00 Am To 3:00 Pm
13	Biz-IQ	Nihal Verma (BBA/40568/22) Mahi Prashar (BBA/40103/22)	Dr P Munda Dr Swati Minz	14 <sup>th</sup> March, 2024; 3 Hrs
14	Venture Nexus	Shreeparna (BBA/40074/22) Arpita Kriti (BBA/40036/22)	Dr P Munda Dr Swati Minz	14 <sup>th</sup> March, 2024; 3 Hrs
15	Youth Parliament	Muskan Shukla (BCA/40045/23) Ayushi Kumari (BBA/40027/22)	Dr P Munda Dr Swati Minz	13 <sup>th</sup> March, 2024; 3 Hrs
16	Kolam	Ms. Nimisha (BCA/40011/21) Ms. Aditi Sahay (BCA/40005/21)	Dr. Amrita Priyam Dr.Mahua Banerjee	13 <sup>th</sup> March, 2024; 3 Hours
17	The Voice Arena	Ms. Nimisha (BCA/40011/21) Ms. Aditi Sahay (BCA/40005/21)	Dr. Amrita Priyam Dr.Mahua Banerjee	13 <sup>th</sup> March, 2024; 3 Hours



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
18	Innovation Station: A Treasure Hunt	1. Shubhangi Raj(BCA/40020/23) 2. Khushi Kumari(BCA/40046/23) 3. Nandini Prasad(BCA/40012/22) 4. Pragya Singh(BCA/40013/23) 5. Jiya Chourasia (BCA/40020/22) 6 Sanjana Soni (BCA/40018/23) 7. Chahak Jain (BCA/40040/23) 8. Rishi (BCA/40560/22) 9. Manish(BCA/40572/22) 10. Aditya(BCA/40574/22) 11. Shardul Raj Kakkar (BCA/40566/22) 12.Anshul Kumar(BCA/40557/22)	Dr P S Bishnu Dr A Sarkar	13 <sup>th</sup> March 2024 2:30 PM TO 4:30 PM
19	Mock Boardroom	Sushant Pandey(BBA/40538/21) Ayushi Dixit (BCA/40027/21)	Dr P Munda Dr Swati Minz	16 <sup>th</sup> February, 2024; 3 Hrs
20	Product Pinnacle	Aditya Gupta (BBA/40526/21) Aditya Chawla(BBA/40528/21)	Dr P Munda Dr Swati Minz	16 <sup>th</sup> February, 2024; 3 Hrs
21	Pixel Pitch	1. Aditya Mishra BCA/40574/22 2. Aditya Kumar BCA/40512/21 3. Sidharth Raj BCA/40552/21 4. Aaruni Vaidya BCA/40560/21 5. Ritik Prasad BCA/40587/21 6. Govind Mandal BCA/40606/21 7.Anish Uddaw BCA/40530/21	Dr. P S Bishnu Dr A Sarkar	15 <sup>th</sup> February 2024 2:30 PM To 4:30 PM
22	Bet Or Debt	1.Riya Saha BCA/40042/21 2. Brishti Dey BCA/40058/21 3. Smriti Choubey BCA/40057/21 4. Shristy Bhattacharjee BCA/40023/21 5. Drishti Bhatt BCA/40025/22 6. Abhimanyu Mishra BCA/40514/22 7. Kumar Punit BCA/40539/21	Dr P S Bishnu Dr A Sarkar	15 <sup>th</sup> February 2024 2:30 Pm To 5:30 Pm
23	Phone-Case Design	Ms. Nimisha (BCA/40011/21) Ms. Aditi Sahay (BCA/40005/21)	Dr. Amrita Priyam Dr.Mahua Banerjee	9 <sup>th</sup> February, 2024; 75 Minutes
24	Waste-To Art Sculpture	Ms. Nimisha (BCA/40011/21) Ms. Aditi Sahay (BCA/40005/21)	Dr. Amrita Priyam Dr.Mahua Banerjee	9 <sup>th</sup> February, 2024; 90 Minutes
25	Model United Nation	Sai Aditi Verma	Dr.G.P. Mishra Ms. Anupma Sahai	Date:14 <sup>th</sup> March, 2024 Duration: 10 a.m. onwards





Sr. No.	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
4	Dr. Arun Kumar Singh	GEN	Assistant Professor	Optimization, Operations Management, Data Analysis, Research methodology, Finance	BE(CIVIL), M.TECH (IEM) IIT-ISM, PhD. IIT-ISM (Mgmt)	01-07-2004
5	Dr.Ashutosh Mishra	GEN	Assistant Professor	Economics & General Management	Ph.D., MBA,	04-09-2006
6	Ms . Anupma Sahai	GEN	Assistant Professor	Organizational Behaviour & Human Resource Management	MBA, MIS-IT, MPWE	01-07-2004
7	Dr.Sandeep Nath Sahdeo	GEN	Assistant Professor	Marketing	MBA, Ph.D	01-07-2004
8	DrSomnath Mukherjee	GEN	Assistant Professor,	Marketing (Marketing communication & Brand Management)	M.Sc., MBA, PhD	01-07-2004
9	Dr. Tanmoy Kumar Banerjee	Gen	Assistant Professor	Optimisation, Decision Science, Data Analytics, Coal Mine Management	PhD, MBA (Systems & Operations), M.Sc. (Math)	10-03-2003
10	Dr. Syed Anis Haider	GEN	Assistant Professor,	Industrial Psychology, Organizational Behavior, HRM	MBA (HR), MSC(Psychology), PhD	19/09/2006
11	Dr. Mili Dutta	GEN	Assistant Professor,	Employer Branding , Talent Aquisition and neuromarketing	MBA, NET, Ph.D	03-04-2007
12	Mr Amitabh Chandan	Gen	Assistant Professor	Human Resource Management	MBA	2007
13	Pradeep Munda	ST + PH	Assistant Professor	Finance and Accounts	Ph.D., MBA,	
14	Dr. Avinash Kumar Sinha	GEN	Assistant Professor,	Finance and Accounts	M.Com., PGDBA., Ph.D	01-09-2006
15	Dr. Soumitro Chakravarty	PH	Assistant Professor,	Business Research, Multidisciplinary Studies, General Management, IT	PhD (BIT Mesra), MBA (BIT Mesra), PGDM(Information Management, XISS, Ranchi)	01-12-2005







Sr. No.	Name	Designation	Qualification	Date of Joining
19	Mr. Hareshwar Prasad	Associate Lecturer	M. Tech (CS)	01.01.2009
20	Mr. Khalid Ashraf	Associate Lecturer	MCA, M. Tech.	21.09.2000
21	Dr.Partha Paul	V. Assistant Prof.	Ph.D.	1.4.2024

### 5.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any

Sr. No.	Name	Category	Designation	Affiliation
1.	Dr Swati Minz	ST	Visiting Assistant Professor	Human Resource Management, General management
2.	Dr Mahua Banerjee	GEN	Visiting Assistant Professor	Ph.D.
3.	Dr. Mansi Gupta	GEN	Visiting Assistant Professor	Ph.D.
4.	Mr. Shubhojeet Paul	GEN	Visiting Assistant Professor	MCA
5.	Mrs.Mamata Pandey	GEN	Visiting Assistant Professor	M. Tech.
6.	Mr. Dhananjay Kumar	GEN	Visiting Assistant Professor	M. Tech.
7.	Mr. Devesh Kumar Upadhyay	GEN	Visiting Assistant Professor	M. Tech.
8.	Mr. Abhishek Kumar	GEN	Visiting Assistant Professor	MCA

## SECTION- 7

## OTHER INFORMATION

### 7.1 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SWASTIKA NAHA BCA/40002/21	SAP Labs	VARNIKA CHHAVI MCA/40009/22	TCS		
ESHIKA SINGH BCA/40003/21	SAP LABS	SNEHA LAXMI MCA/40011/22	Adrosonic		
AKANKSHA SINHA BCA/40024/21	DELOITTE	SUSHANT RAJ MCA/40013/22	Adrosonic		
SAI ADITI VERMA BCA/40031/21	Deloitte	ASTHA SINHA MCA/40016/22	RoboMQ		







Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SHRUTI NATH BCA/40041/21	-Do-				
RIYA SAHA BCA/40042/21	-Do-				
PRIYA GHOSH BCA/40043/21	-Do-				
ANSHU RAJPUT BCA/40044/21	-Do-				
SURBHI KUMARI BCA/40045/21	-Do-				
YASHASWI BHARADWAJ BCA/40046/21	-Do-				
RIMI MUKHERJEE BCA/40047/21	-Do-				
ESHITA KUMARI BCA/40048/21	-Do-				
SWATI KUMARI BCA/40049/21	-Do-				
ADITI KUMARI BCA/40050/21	-Do-				
TANISHA RANJAN BCA/40052/21	-Do-				
SUMBUL FARHEEN BCA/40053/21	-Do-				
SHILPA KUMARI BCA/40054/21	-Do-				
SHREYASI KARAN BCA/40055/21	-Do-				
SMRITI CHOUBEY BCA/40057/21	-Do-				
BRISHTI DEY BCA/40058/21	-Do-				
PRERNA SINHA BCA/40059/21	-Do-				
JYOTI KUMARI BCA/40060/21	-Do-				
SHUBHRA SHIVANGI BCA/40061/21	-Do-				
JIGYASHA BCA/40062/21	-Do-				





Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SIYA PATHAK BCA/40063/21	-Do-				
ADITI ANGEL BAGE BCA/40065/21	-Do-				
SURBHI PRIYA BCA/40066/21	-Do-				
SUPRIYA BCA/40068/21	-Do-				
ANSHIKA PRIYA BCA/40069/21	-Do-				
SHUBHAM KUMAR JHA BCA/40501/21	-Do-				
RISHI RAJ CHOUDHARY BCA/40502/21	-Do-				
ROHAN SINGH BCA/40503/21	-Do-				
SATYAM KUMAR BCA/40504/21	-Do-				
ROHIT RAJ BCA/40505/21	-Do-				
SHEKHAR KUMAR SINGH BCA/40506/21	-Do-				
BALA SHIVAM BCA/40508/21	-Do-				
ANURAG KUMAR BCA/40509/21	-Do-				
RAJDEEP SINGH BCA/40510/21	-Do-				
ADITYA KUMAR BCA/40512/21	-Do-				
SACHIN KUMAR TIWARI BCA/40513/21	-Do-				
PRATYUSH TIRTH BCA/40514/21	-Do-				
ADITYA AAKASH KUMAR BCA/40515/21	-Do-				
HARSH KUMAR VERMA BCA/40516/21	-Do-				



Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SUBHAM KUMAR BCA/40517/21	-Do-				
SADASHIV MAHTO BCA/40518/21	-Do-				
RAHUL MUNDA BCA/40522/21	-Do-				
ALOKIT WILSON TOPPO BCA/40523/21	-Do-				
RISHABH MINZ BCA/40524/21	-Do-				
NIKHIL SHARMA BCA/40526/21	-Do-				
ANAND RAJ BCA/40527/21	-Do-				
MANISH ANAND BCA/40528/21	-Do-				
ANISH UDDAW BCA/40530/21	-Do-				
SHUBHAM BHARDWAJ BCA/40534/21	-Do-				
KUMAR UTSAV BCA/40536/21	-Do-				
KUMAR PUNIT BCA/40539/21	-Do-				
SHUBHAM KUMAR SINHA BCA/40540/21	-Do-				
AAYUSH GUPTA BCA/40541/21	-Do-				
ALOKIT CHARLES TOPPO BCA/40543/21	-Do-				
ARJIT PRAKHER BCA/40545/21	-Do-				
AAYUSH PAL BCA/40546/21	-Do-				
KRISHNANSHU SHARMA BCA/40547/21	-Do-				
ANURAG TIWARI BCA/40548/21	-Do-				



Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SYED EHTESHAM HUSSAIN BCA/40549/21	-Do-				
SIDHARTH RAJ BCA/40552/21	-Do-				
ARYAN SINHA BCA/40553/21	-Do-				
ANIKEATH NIKHIL EKKA BCA/40554/21	-Do-				
RISHI BOSE BCA/40555/21	-Do-				
SURAJ KUMAR BCA/40557/21	-Do-				
ANUBHAV KUMAR BCA/40558/21	-Do-				
ANIKET KUMAR BCA/40559/21	-Do-				
AARUNI VAIDYA BCA/40560/21	-Do-				
SHEKHAR KUMAR BCA/40561/21	-Do-				
KAUSHIK KUMAR TIRKEY BCA/40562/21	-Do-				
HARSH RAJ BCA/40563/21	-Do-				
PRANAY KUMAR BCA/40564/21	-Do-				
AYUSH KUMAR BCA/40566/21	-Do-				
RAHUL DEV SAHU BCA/40568/21	-Do-				
ANKIT KUMAR BCA/40570/21	-Do-				
SANYAL KUMAR BCA/40571/21	-Do-				
PIYUSH KUMAR BCA/40572/21	-Do-				
AYAN BANERJEE BCA/40573/21	-Do-				
ASHISH KUMAR BCA/40575/21	-Do-				



Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
SUMIT TOPPO BCA/40576/21	-Do-				
JUNAID AKHTAR BCA/40577/21	-Do-				
SHIB SHANKAR BANERJEE BCA/40580/21	-Do-				
PRATEEK KUMAR BCA/40581/21	-Do-				
SUMIT KUMAR BCA/40585/21	-Do-				
RITIK PRASAD BCA/40587/21	-Do-				
RAHUL KUMAR BCA/40588/21	-Do-				
MANISH KUMAR SHARMA BCA/40589/21	-Do-				
SAMPRATI BCA/40590/21	-Do-				
AYAN DAS BCA/40591/21	-Do-				
ROUSHAN KUMAR TIWARI BCA/40592/21	-Do-				
SUJASH KUMAR BCA/40593/21	-Do-				
UMAR FAROOQUE ZAMAN BCA/40596/21	-Do-				
SURYANSHU KUMAR BCA/40597/21	-Do-				
AADITYA KUMAR SINGH BCA/40600/21	-Do-				
GOUTAM RAJ BCA/40602/21	-Do-				
PRIYANSHU KUMAR BCA/40603/21	-Do-				
GOVIND MANDAL BCA/40606/21	-Do-				
AMAN SINGH BCA/40607/21	-Do-				



Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
PRATYUSH KUMAR BCA/40608/21	-Do-				
PRATHAM KUMAR BCA/40609/21	-Do-				
BHAWESH KUMAR BCA/40611/21	-Do-				
HARSH RAJ BCA/40614/21	-Do-				
PRINCE KUMAR BCA/40616/21	-Do-				
ADITYA PRAKASH BCA/40617/21	-Do-				
AYUSH ANAND BCA/40618/21	-Do-				
ABHISHEK KUMAR BCA/40619/21	-Do-				
ANAND RAJ BCA/40620/21	-Do-				
ABHINAW ANAND BHARDWAJ BCA/40621/21	-Do-				
DEO RANJAN BCA/40622/21	-Do-				

### 7.3 Best Thesis Project (UG/PG)

SN	Project Name (UG)	Students Name	Roll	Guide Name
1	Deepfake Detection Model	Akshay Mukund Sidharth Raj Anubhav Kumar Aditya Prakash Ayush Anand	BCA/40551/21 BCA/40552/21 BCA/40558/21 BCA/40617/21 BCA/40618/21	Dr. Manshi Gupta
2	Analysis of Automatic Speech Recognition (ASR) systems in Indian Languages	Eshika Singh Astha Kumari Sai A Verma	BCA/40003/21 BCA/40014/21 BCA/40031/21	Mr S Paul
3	IoT-Enhanced Machine Learning for Precise Crop Disease Detection and Sustainable Agriculture	Sonu Kumar Suman Vivek Singh	MCA/40026/22 MCA/40023/22	Dr U Prasad





## 8. Infrastructure Development-

### Library

1. KOHA Software installed on 5/1/2024 for library automation.
2. Barcode Label Printer - 1Nos.
3. Barcode Scanner.- 1Nos.
4. Dell Power Edge T20 Server- 1
5. Desktop Computer – 4Nos.

## 9 Any other relevant information

- **Academic Curriculum** – NEP-2020 for BBA and BCA has been implemented. More elective papers were added and offered to the students. New syllabi were designed according to Industry requirement and Vocational courses were introduced in BBA and BCA syllabi according to NEP 2020.
- **Infrastructure:**
  1. New Academic building was constructed / renovated at BIT Lalpur and all the staff and classes were moved to new building.
  1. A new entrance gate has been constructed.
  2. Two new lab facility created including one Research lab; Smart class facility

created; infrastructure for different administrative departments were created and separate well-furnished cabins for all faculty members.

3. Capacity expansion of internet facility and digital cameras around the campus has done.
  4. Two lifts were installed with ramp facility at all required locations.
- **Recruitment** – Visiting Assistant Professors and Faculty members were recruited to meet the urgent faculty shortage at BIT Lalpur.
  - **Student admission**– Student admissions in most of the programs have increased.



## Department: Management

The Department of Management was established in the year 1998 to serve growing need for qualified management professionals and meet the industry's requirements in the competitive and dynamic business environment. The department has continuously strived to achieve this aim by maintaining the highest standards in the offered programme.

The strategic location of BIT Noida Campus provides an added advantage to its management students. Due to its prime location in the commercial hub of Noida and proximity to Delhi, the students have easy and quick access to the industry, which fulfills their need for continuous industry interaction.

### BATCH PHOTOS:



MCA 2022-24



MBA 2022-24



BCA 2021-24



BBA 2021-24



BAM 2021-24





### 1.1 Established Year: 1997

### 1.2 Courses Offered and Approved Intake

Bachelor of Computer Applications (Hons.) – 4 years	60
Bachelor of Business Administration (Hons.) – 4 years	60
B.Sc in Animation & Multimedia (Hons.) – 4 years	40
Master of Computer Application – 2 years	30
Master of Business Administration – 2 years	30

### 1.3 Thrust Areas of the Department

#### Department: Animation and Multimedia

Graphic Design, 2D-3D Animation, Film Making, Visual Effects (VFX), Game Design

#### Department: Computer Science & Engineering

- **Artificial Intelligence (AI) and Machine Learning (ML):** Research and development in AI and ML, including deep learning, natural language processing, computer vision, and reinforcement learning.
- **Cybersecurity:** Protection of systems, networks, and data from cyber threats. This includes cryptography, network security, and ethical hacking.
- **Data Science and Big Data:** Techniques for analyzing and interpreting large datasets, including data mining, statistical analysis, and data visualization.
- **Software Engineering:** Methodologies and tools for software development, including agile practices, software design patterns, and testing techniques.
- **Networks and Distributed Systems:** Design and management of networked systems, including cloud computing, distributed databases, and network protocols.
- **Computational Theory:** Foundations of computation, including algorithms,

complexity theory, and formal languages.

- **Computer Architecture and Embedded Systems:** Design and optimization of computer hardware, including processors, memory systems, and embedded computing devices.

#### Department: Management

The Department provides cutting-edge education and research in key areas like Marketing, Finance, Human resources, Operations, Strategic management, Information Technology, Business Analytics, and Digital Marketing. Responding to the requirements of market dynamics and the latest developments in the domain and also to enhance the productivity and sustainability of management research scholars, the research thrust areas are developed and regularly updated. It also emphasizes on aligning with peer institutions, industry trends, and interdisciplinary areas to enhance collaborative research.

### 1.4 Number of Faculties: 34

### 1.5 Brief Description High-end Lab Facilities

- **Computer Lab:** BIT Off-Campus Noida has state-of-the-art computer labs with the latest configuration systems and Software. All the computer systems are connected by LAN and have internet connectivity for the benefit of students.
- **Animation Lab:** The Institute equips a high-end Animation Lab with the latest versions of graphics, 3D modeling, animation, video editing, and game design software, and pen tablets for digital painting.
- **Drawing Lab:** A 2D lab for drawing with 40 light boxes, a line-testing facility, dummies, and mannequins. Sufficient resources are available for a professional level short or animation movie.
- **Film Studio:** A studio with professional







direct exposure to students in order to bridge theoretical learning and practical experience [06].

- Technical quiz competitions were organized for students to showcase problem-solving skills [02].
- Various cultural and sports activities were conducted to promote and celebrate the diverse cultural heritage and talents within

the institute [07].

- Entrepreneurship Cell organized activities to support and encourage entrepreneurial skills and opportunities among students [02].
- NSS Club organised a blood donation camp and a visit to Pehchaan street school to promote community service and social responsibility among students [02].

**SECTION 2**

**RESEARCH PROJECTS**

**2.1 Sponsored Projects (Research and Consultancy)**

**a) Ongoing Projects:**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount <i>in INR</i>	Duration of the Project
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

**b) Projects Completed**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount <i>in INR</i>	Date of completion of the Project
1	Impact of Green Brand Image on Green Brand Equity and Green Purchase Intention in Indian Banking Sector	Dr. Meenakshi Sharma	ICSSR	01.01.2021	Rs. 16 lakhs	17.07.2023



Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
2	The Rural youth from Enrollment to Employment: Role of New National Education Policy-2020 in Re-Imagining Vocational Education with Experiential Learning through Higher Education Institutions	Prof. (Dr.) S.L. Gupta and Dr. Arun Mittal	Mahatma Gandhi National Council for Rural Education	21.09.2021	Rs. 5.5 lakhs	30.09.2023
3	Role of Women Entrepreneurship in Holistic Empowerment of Women: An Empirical study of Semi-urban and Urban women Entrepreneurs	Dr. Arun Mittal & Prof. (Dr.) S. L. Gupta	ICSSR	12.03.2022	Rs. 7.5 lakhs	30.06.2024

### C) Consultancy Projects carried out/ongoing:

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co-Investigator	Ongoing / Completed*
			from	to			
1.	Digital Marketing Consultancy	Noida Lok Manch	01.05.2023	30.04.2024	Rs. 1.44 Lakhs	Dr. Arun Mittal	Completed

## SECTION- 3

## SEMINAR/CONFERENCE

### 3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1	FDP on Blockchain Technology & Applications	Dr. Vibha K. Raina & Ms. Soma Sircar	Self-financed	24.06.2024 – 28.06.2024
2	FDP on Design Thinking	Prof. (Dr.) S. L. Gupta & Dr. Monika Bisht	Self-financed	24.06.2024 – 28.06.2024
3	FDP on Game Design and creativity	Dr. Niket Mehta & Mr. Lalit M. Bhatt	Self-financed	10.06.2024 – 14.06.2024
4	FDP on Data Analytics using Machine Learning	Dr. Charu Wahi & Ms. Seema Sharma	Self-financed	03.06.2024 – 07.06.2024



Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
5	FDP on Qualitative and Quantitative Research Methods	Prof. (Dr.) S. L. Gupta, Dr. Arun Mittal, Dr. Niket Mehta & Dr. Chanpreet Kaur	Self-financed	20.05.2024 – 31.05.2024
6	Seminar on International Summer Internship Program – 2024	Dr. Swati Prasad	Self-financed	21.03.2024
7	FDP on Qualitative and Quantitative Research Methods	Prof. (Dr.) S. L. Gupta, Dr. Arun Mittal, Dr. Niket Mehta & Dr. Chanpreet Kaur	Self-financed	04.12.2023 – 15.12.2023

**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Charu Wahi	Hands on AI-Tools: Elevate your Creative Research writing	Self	RITE Bhubaneswar	Virtual	17.06.2024 – 21.06.2024
2	Dr. Smitha Jha	Data Analytics using Machine Learning	Self	BIT Noida	Virtual	03.06.2024 – 07.06.2024
3	Ms. Sheetal Sehgal	FDP on Autonomous AI for Sustainable development	Self	Jaypee Noida	Virtual	03.06.2024 – 08.06.2024
4	Ms. Priti Sharma	Programming Essentials in Python	NA	ICT Academy	Virtual	21.05.2024 – 25.05.2024
5	Ms. Muntaha Ahmad	Tensorflow for Machine Learning	NA	ICT Academy	Virtual	06.05.2024 – 11.05.2024
6	Ms. Muntaha Ahmad, Ms. Seema Sharma	FDP on Generative AI	Self	D Y Patil College of Engineering & Innovation	Virtual	01.04.2024 – 06.04.2024
7	Ms. Preety Bajaj	6-week Industrial Training on Machine Learning and Artificial Intelligence	Self	EduLakes in association with IIT Roorkee	Virtual	12.02.2024 – 22.03.2024
8	Dr. Vibha K. Raina	FDP on Blockchain for Industry 4.0: Future Industrial Revolution in Decentralized Manufacturing	Self	OP Jindal University	Virtual	15.01.2024 – 19.01.2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
9	Prof. Asha Prasad	Technology entrepreneurship in Indian healthcare industry: Opportunity and challenges	BIT Mesra	ISDSI –Global Conference – IIM Ranchi	Virtual	26.12.2023 – 29.12.2023
10	Mr. Lalit M. Bhatt	13 <sup>th</sup> CII National Higher Education Summit	CII	CII in association with AICTE	India Habitat Centre, New Delhi	16.12.2023
11	Mr. Lalit M. Bhatt	CII 23rd India Design Summit & Awards 2023	CII	CII	Hotel The Lalit, Delhi.	14.12.2023
12	Dr. Smitha Jha	Internal Conference on Machine Intelligence with Applications	Nil	BIT, Noida	BIT, Lalpur, Ranchi	08.12.2023
13	Dr. Arun Mittal	5th Global International Conference 2023	Self	Nepal Global College, Kathmandu	Nepal Global College, Kathmandu – 31, Nepal	07.12.2023 – 08.12.2023
14	Seema Sharma, Preety Bajaj	Quantitative and Qualitative Research Methods	Self	BIT Noida	Virtual	04.12.2023 – 15.12.2023
15	Prof. Asha Prasad	FDP on Digital Transformation	BIT Mesra	BIT Mesra, Ranchi	Virtual	04.12.2023 – 08.12.2023
16	Ms. Priti Sharma	Geo Data Sharing and Cyber Security	Self	ISRO	Virtual	28.11.2023 - 11.12.2024
17	Ms. Rachana Pratik, Ms. Seema Sharma, Dr. Niket Mehta	ICT Academy Bridge 23 Summit	NA	ICT Academy	Hyatt, New Delhi	16.10.2023
18	Mr. Lalit Mohan Bhatt	AI India Conclave 2023	NA	ICT & New Age Technologies Division, FICCI	FICCI, Delhi	31.08.2023
19	Dr. Arun Mittal	Digital Transformation for Business Sustainability and Growth (DTBSG)	NA	Mittal School of Business, Lovely Professional University, Punjab	Virtual	18.08.2023
20	Mr. Lalit Mohan Bhatt	4th CII AVGC SUMMIT FX @ Hotel Le Meridien, New Delhi	CII	CII	Hotel Le Meridien, New Delhi	08.08.2023 – 09.08.2023

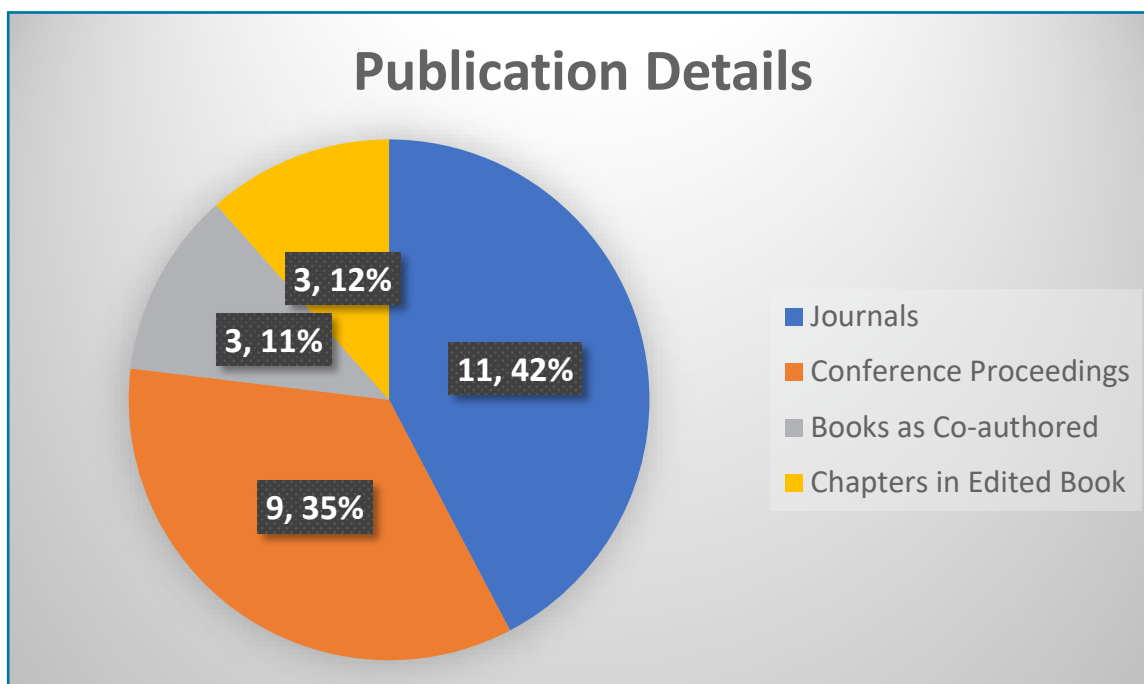


Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
21	Dr. Charu Wahi	6 weeks FDP on “AI, Machine Learning, Deep Learning, Computer Vision, NLP & Chat GPT with Python”	Self	Eduxlabs in association with Mechanica IIT Madras	Virtual	31.07.2023 – 19.09.2023

**SECTION- 4**

**RESEARCH PUBLICATIONS**

S.No.	Total No of Publication in Journals	Total No of Publications in Proceedings	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
1	11	9	--	3	3









Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent
3	Dr. Monika Bisht	Cardiovascular Health Care Management System	Design number: 6304573	2023	Class 24 - MEDICAL AND LABORATORY EQUIPMENT Sub Class 02 - MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE

### 5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1	Gamitronics, Hyderabad	Gaming	2021-ongoing
2	Daddy 3D, Delhi	3D Modeling	2021-ongoing
3	Digital Jalebi, Ghaziabad	ARVR	2021-ongoing
4	Digital Agents, Delhi	ARVR and Gaming	2021-ongoing

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Annual Prize distribution ceremony, 2024	Manas, Aayush, Oshin, Silvi	Dr. Charu Wahi, Ms. Pramila Joshi, Dr. Niket Mehta, Dr. Umair Ujala, Ms. Sheetal Sehgal	16.04.2024
2	Guest Lecture on Experiential Marketing		Ms. Rachana Pratik	10.04.2024
3	Online Workshop on Role of Design Thinking in UX Designing		Mr. Partha Acharya	09.04.2024
4	Students Visit to Pehchan Street School	Radhika, Sakshi, Aayushi, Sarthak, Harshit, Shreya	Dr. Charu Wahi	06.04.2024
5	Industry Visit of BBA IV students to Britannia Industries, Ghaziabad		Mr. Amit Nindrajog, Dr. Umair Ujala	04.04.2024
6	Seminar on Data Science		Mr. Anurag Joshi, Ms. Seema Sharma	04.04.2024
7	National Symposium on Marketing Strategies		Dr. Arun Mittal, Dr. Monika Bisht	03.04.2024
8	Workshop On Visual Effects		Mr. Partha Acharya, Mr. Lalit M. Bhatt	02.04.2024



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
9	Industrial trip to River Engg.		Ms. Priti Sharma, Ms. Seema Sharma	20.03.2024
10	BIT Patna sports trip		Dr. Umair Ujala, Ms. Sheetal Sehgal	16.03.2024 – 20.03.2024
11	Industrial visit to Britannia Industries		Dr. Abhishek Singh	16.03.2024 – 19.03.2024
12	BIT Xtreme 24 - Cultural Fest	Manas, Aayush, Piyush, Koyana, Aditya, Mangalam, Yash, Shreya, Ameya, Shresth	Ms. Pramila Joshi, Dr. Niket Mehta, Dr. Charu Wahi	14.03.2024 – 15.03.2024
13	Annual Sports Day		Dr. Umair Ujala, Ms. Sheetal Sehgal	12.03.2024
14	National seminar on Financial Well-Being		Dr. Monika Bisht	08.03.2024
15	High Value Lecture on Study Abroad Programme in Europe		Dr. Suparna Dutta, Dr. Chanpreet Kaur	07.03.2024
16	Special Guest Lecture on GST: Registration and Compliance for Startups		Dr. Chanpreet Kaur	06.03.2024
17	Online Workshop on Unleashing the Power of Personal Branding through LinkedIn		Dr. Monika Bisht	02.03.2024
18	High Impact Guest Lecture – Role of Digital Technology for Future Job opportunities		Dr. Chanpreet Kaur, Dr. Niket Mehta, Ms. Priti Sharma	21.02.2024
19	Guest Lecture on Marketing Strategies		Dr. Arun Mittal	19.02.2024
20	National Innovation Day		Dr. Vibha Kaw Raina, Dr. Swati Prasad, Dr. Smita Jha, Mr. Aruna Malik	16.02.2024
21	Session on Higher Studies Opportunities in Abroad		Dr. Niket Mehta	07.02.2024
22	Session on Women Health Awareness		Dr. Abhishek Singh	07.02.2024
23	Research Guidance Session: 1 on Topic Finalisation and Abstract Writing		Dr. Monika Bisht	02.02.2024
24	High Impact Guest Lecture – Making Global Higher Education Accessible		Ms. Priti Sharma, Dr. Chanpreet Kaur, Dr. Niket Mehta	31.01.2024
25	Workshop on Data Visualization using Tableau		Dr. Abhishek Singh	25.01.2024



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
26	High Impact Guest Lecture – Next Big Digital Marketing Trend: The Metaverse		Dr. Niket Mehta, Ms. Priti Sharma, Dr. Chanpreet Kaur	24.01.2024
27	Alumni Meet 2024		Ms. Rachana Pratik, Dr. Charu Wahi, Dr. Niket Mehta, Dr. Umair Ujala	20.01.2024
28	High Impact Guest Lecture – Decode, Impress, succeed: Sharpening Your Interview Skills		Ms. Priti Sharma, Dr. Chanpreet Kaur, Dr. Niket Mehta	17.01.2024
29	Workshop on 3Cs to Ace Interviews		Dr. Monika Bisht, Dr. Meenakshi Sharma, Ms. Seema Sharma, Dr. Arun Mittal	11.01.2024
30	High Impact Guest Lecture – Digital transformation		Dr. Chanpreet Kaur, Dr. Niket Mehta, Ms. Priti Sharma	10.01.2024
31	Special Guest Lecture on Managerial Competencies for ChatGPT times		Dr. Monika Bisht, Dr. Arun Mittal	08.01.2024
32	Industry Workshop		Mr. Partha Acharya	07.12.2023
33	Deep-Utsav: Cultural Programme on Diwali	Yash, Shreya, Shubha, Bhavya	Dr. Niket Mehta, Ms. Pramila Joshi, Dr. Charu Wahi	09.11.2023
34	Cricket Tournament	Ayush, Kaustubh, Aryan	Dr. Umair Ujala, Ms. Sheetal Sehgal	07.11.2023
35	Case Study Competition	Koyana, Piyush, Amrit, Kushal, Pragati	Prof. (Dr.) S. L. Gupta, Dr. Monika Bisht	03.11.2023
36	A workshop on “How to do well in Case Study?”		Dr. Rachana Pratik	30.10.2023
37	Blood Donation Camp	Prashant, Aditya, Mangalam	Dr. Charu Wahi	27.10.2023
38	Nukkad Natak	Aditya, Mangalam, Avneesh, Ritika, Yash, Shreya, Shubha, Nidhi, Prashant	Dr. Charu Wahi, Dr. Niket Mehta, Ms. Pramila Joshi	26.10.2023
39	Research Talk series – Qualitative Research Methods and Research Paper Writing		Dr. Chanpreet Kaur	25.10.2023
40	IOCL vigilance Awareness Week Celebration - Elocution Competition	Prashant Jha, Oshin	Dr. Rachana Pratik	18.10.2023



Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
41	Cinema of the World International Film Festival	Meraj, Keshav, Ayush, Sounya, Shresth, Vivek, Japjot	Dr. Niket Mehta, Mr. Lalit M Bhatt	11.10.2023
42	Trip to Jim Corbet		Mr. Abhishek Singh, Mr. Anurag Joshi	07.10.2023
43	Toast Master 1st National Convention		Dr. Suparna Dutta	07.10.2023
44	MCA students' visit to CETPA, Noida		Ms. Priti Sharma, Ms. Seema Sharma	05.10.2023
45	B.Sc. A&M students' visit to National gallery of Modern Art		Mr. Lalit M Bhatt	05.10.2023
46	Research Talk Series - Research Paradigms		Dr. Chanpreet Kaur	03.10.2023
47	High impact guest lecture on "Elevator Talk: Opening Doors to Possibilities"	Yash, Nidhi, Sneha, Kushi	Ms. Preety Bajaj, Dr. Niket Mehta, Ms. Priti Sharma	28.09.2023
48	G20 University Connect Programme	Pankaj, Priyanshu, Amitesh, Adarsh	Dr. Charu Wahi, Dr. Asha Prasad, Dr. Niket Mehta	26.09.2023
49	High Impact Guest Lecture - Art of Mind Control		Ms. Priti Sharma, Ms. Preety Bajaj, Dr. Niket Mehta	20.09.2023
50	Workshop on the topic "How to Write a Research Paper" for MCA I and MCA III students		Ms. Seema Sharma Ms. Sheetal Sehgal	19.09.2023
51	B.Sc. A&M students' visit to National Crafts Museum & Hastkala Academy, Pragati Maidan, New Delhi		Mr. Lalit M Bhatt	14.09.2023
52	High Impact Guest Lecture – Campus to Corporate: The Road Ahead		Ms. Priti Sharma, Ms Preety Bajaj, Dr. Niket Mehta	14.09.2023
53	Quiz on "successful landing of Chandrayan - III on the south pole of the moon"	Aditya Ranjan, Sarvesh Agarwal, Shashwat Kashyap	Dr. Vibha K. Raina, Dr Swati Prasad, Mr. Aruna Malik, Dr. Smita Jha, Mr. Rahul Dora	13.09.2023
54	Tech Odyssey - Tech Quiz for BCA and MCA students	Rupen, Ujjwal, Shreya, Shubha, Shashwat	Ms. Seema Sharma, Ms. Priti Sharma	12.09.2023
55	Shoe Donation Drive	Kinshuk, Mansi	Dr. Suparna Dutta	11.09.2023 -17.09.2023





Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
56	Research Talk Series - Literature Review: An Art of Writing a Good Research Paper		Dr. Chanpreet Kaur	08.09.2023
57	High Impact Guest Lecture – Boss of GD, Master of Interview		Dr. Niket Mehta, Ms. Priti Sharma, Ms. Preety Bajaj	06.09.2023
58	Industry Visit of MBA I and MCA I students to Amul India, Faridabad		Dr. Abhishek Singh	26.08.2023
59	BSc Animation & Multimedia students' visit to Kiran nadar Museum of Arts, Saket		Mr. Lalit M Bhatt	24.08.2023
60	Workshop on The Art of Storytelling: A film-making workshop		Dr. Niket Mehta	23.08.2023
61	High Impact Guest Lecture – How Digital Era has transformed Marketing, Technology & Future Jobs Skills		Ms. Preety Bajaj, Ms. Priti Sharma, Dr. Niket Mehta	23.08.2023
62	Entrepreneurship Day	Shashwat Kashyap, Bhavya, Kinshuk, Aditya Ranjan, Sarvesh Agarwal	Dr. Vibha Kaw Raina, Dr. Swati Prasad, Dr. Smita Jha, Mr. Aruna Malik	21.08.2023
63	A film screening on Water Conservation to promote Jal Shakti Abhiyan of Ministry of Jal Shakti		Mr. Lalit N Bhatt, Mr. Anurag Joshi, Dr. Niket Mehta	17.08.2023
64	BIT Noida Orientation Programme 2023	Group of BBA and BAM Students	Ms. Seema Sharma, Ms. Rachana Pratik, Dr. Niket Mehta, Mr. Lalit M. Bhatt, Mr. Anurag Joshi	01.08.2023 - 07.08.2023
65	Industry Visit to Mother Dairy		Ms. Rachana Pratik, Ms. Pramila Joshi, Ms. Seema Sharma, Dr. Abhishek Singh	05.08.2023
66	Pre-Placement Activity: Mock Interviews with Alumni		Ms. Muntaha Ahmad, Ms. Seema Sharma, Ms. Sheetal Sehgal, Dr. Charu Wahi	26.07.2023 – 28.07.2023
67	Workshop on Interview skills and Personality Development		Ms. Seema Sharma, Dr. Charu Wahi, Ms. Muntaha Ahmad, Ms. Sheetal Sehgal	24.07.2023





Sr. No.	Name	category	Designation	Expertise Area	Qualification	Date of Joining
14	Ms. Muntaha Ahmad	GEN	Assistant Professor	Theory of computation, Data structures, Analysis of computer Algorithm, AI, NLP	M.Tech. (CS), MCA	20.07.2005
15	Ms. Pramila Joshi	GEN	Assistant Professor	Data Science, DBMS Big Data, R, Tableau Data mining	M.Tech. (CS), MCA	05.08.2005
16	Mr. Aruna Malik	GEN	Assistant Professor	Principle of Programming Languages, Web Technologies, & Theoretical Computer Science	M.Tech. (CS)	05.08.2005
17	Ms. Preety Bajaj	GEN	Assistant Professor	Human Resource Management And Business Communication	M.Phil (Management)	08.08.2005
18	Mr. Rahul Dora	ST	Technical Superintendent	Illustration, Storyboarding. Pre-production.	B.Sc (Multimedia)	01.06.2006
19	Dr. Charu Wahi	GEN	Assistant Professor	Computer Science (Machine Learning, Computer Networks, Network Security, Data Mining, Computer Architecture, Logic Design, Statistics, Data Analysis)	Ph.D, M.Tech	19.06.2006
20	Prof. (Dr.) Shankar Lal Gupta	GEN	Professor	Research Methodology & Strategic Management	Ph.D, M.Com	27.07.2006
21	Mr. Lalit Mohan Bhatt	GEN	Editor	Experimental Animation, Film Direction, Video Editing, Photography, Video Compositing, Graphics Design	M.Sc. (Multimedia)	01.07.2006
22	Mr. Kiran Ashok Shetti	GEN	Senior Animation Trainer	Classical Animation & Applied Art	B.F.A in Commercial Art	01.07.2006
23	Dr. Meenakshi Sharma	GEN	Associate Professor	Marketing	Ph.D, MBA	04.09.2006
24	Mr. Rakesh Singh	GEN	Associate Lecturer	Cloud Computing & Operation Mgmt.	MCA, B.E.	07.09.2006
25	Ms. Priti Sharma	GEN	Assistant Professor	Data Communication & Computer Networks, IOT	Ph. D (Pursuing), M.Tech	15.12.2006



Sr. No.	Name	category	Designation	Expertise Area	Qualification	Date of Joining
26	Mr. Manoj Kumar	GEN	Animator	3D Technology, Animation and Motion Graphics	M.A. in Mass Comm. and Journalism	07.02.2007
27	Mr. Partha Acharya	GEN	Assistant Professor	Graphic Designing, 2D Animation	Master in multi-Media	01.08.2007
28	Dr. Arun Mittal	GEN	Assistant Professor	Business Law, Entrepreneurship, Marketing, Marketing Research	Ph.D, M.Phil., MBA	14.08.2007
29	Dr. Swati Prasad	GEN	Assistant Professor	Speaker Identification, Speech Emotion Recognition	Ph. D (Aarhus University, Denmark)	20.08.2007
30	Dr. Monika Bisht	GEN	Assistant Professor	HR, OB	Ph.D, PGDBM, MA (Sociology)	01.08.2008
31	Dr Abhishek Singh	GEN	Assistant Professor	Accounting & Finance	Ph.D, M.Com	12.01.2009
32	Dr. Umair Ujala	GEN	Assistant Professor	Mathematics and CS	Ph.D	20.04.2009
33	Ms. Seema Sharma	GEN	Assistant Professor	Software Engineering, Database, Programming Languages	MS (Software Engineering), B.E. (CS)	20.07.2009
34	Dr. Chanpreet Kaur	GEN	Assistant Professor	Accounting & Finance	Ph.D, M.Com	17.07.2023

### 6.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any (between 1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024)

Sr. No.	Name	Category	Designation	Affiliation
1.	Ms. Prema Sinha	GEN	Visiting Faculty	Freelancer

### 6.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
1	Dr. Supratim Biswas	Professor & HOD – Computer Science & Engineering, BIT Mesra	Chairman
2	Dr. Peeyush Tewari	Director, BIT Jaipur Centre	Internal Member
3	Prof. (Dr.) S.L. Gupta	Director, BIT Noida Centre	Internal Member
4	Prof. Chinmay Mehta	Retd. Prof. & Dean- Faculty of Fine Arts, University of Rajasthan, Jaipur	External Member



Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
5	Mr. Chandra Shekher	Industry Expert (Expertise in Documentary Films, Media & Communication)	External Member
6	Mr. Praveen Chrispugg	Industry Expert (Expertise in Animation & Visual Effects)	External Member
7	Mr. Sandeep Nandi	Industry Expert (Expertise in UI/UX Design)	External Member
8	Mr. Rajiv Chilaka	Industry Expert (Expertise in TV Children Content, Storytelling & Animation Cartoon Series)	External Member
9	Mr. Ajay Joshi	Industry Expert & Course Adviser (Expertise in TV Broadcast, Animation, Gaming, Visual Effects & New Media technologies)	External Member
10	Dr. Madhvi Sinha	Associate Professor, BIT Jaipur Centre	Internal Member
11	Dr. Vibhuti Pandya	Assistant Professor, BIT Jaipur Centre	Internal Member
12	Mr. Lalit Mohan Bhatt	Editor, BIT Noida Centre	Internal Member
13	Dr. Niket Mehta	Assistant Professor, BIT Noida Centre	Internal Member
14	Mr. Gautam Kumar Goswami	Assistant Professor, BIT Jaipur Centre	Internal Member

**SECTION- 7**

**OTHER INFORMATION**

**7.1 Student Entrepreneurship activities/Start-ups if any:**

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Ms. Abha Mahto	Self	Identicube.com	Identicube LLP is a dynamic and forward-thinking design studio dedicated to creating exciting visual solutions that connect with consumers across the construction industry.







**7.3 Students Placed for the Academic Years (1st July 2023 to 30th June 2024)**

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Lakshya Gupta, BCA/45028/21	Deloitte	Vivek Sen, MCA/45011/22	NyKinSky & Company		
Shashwat Kashyap, BCA/45026/21	TCS	Divyanshu Jain, MCA/45013/22	NXT Interactive		
Aradhya Sharma, BAM/45005/21	OneStage	Ashi Jain, MCA/45041/22	NyKinSky & Company		
Avneesh Dubey, BAM/45008/21	Happy People AI	Jay Panchal, MCA/45030/22	NyKinSky & Company		
Priyanshu Singh, BAM/45009/21	Metageeks Technologies Pvt Ltd, Graph Animation Studios	Ashutosh Shukla, MCA/45031/22	NyKinSky & Company		
Harshal Bansal, BAM/45013/21	Vector Vibe Studio, Chennai	Sarthaka, MCA/45032/22	NyKinSky & Company		
Ameya Agrawal, BAM/45016/21.	all-yt-team: Youtube Channel: suree	Kumar Ashutosh, MCA/45037/22	Adrosonic		
Adarsh Kumar, BAM/45017/21	Nodwin Games	Devanshi Dogra, MCA/45038/22	Haleform Technology Solutions (OPC) Pvt Ltd		
Rohit Kumar, BAM/45018/21	Beehive Systems	Swati Paliwal, MCA/45044/22	NyKinSky & Company		
Fardeen Saifi, BAM/45019/21	Tagglabs, Inout Creatives	Mahi Kashiv, MCA/45001/22	Haleform Technology Solutions (OPC) Pvt Ltd		
Kunal Bardhan, BAM/45023/21	Pocket Fm	Prashant Kumar Jha, MCA/45007/22	AppVista Corporation Ltd.		
		Pankaj, MCA/45005/22	Tanaashi Technologies(P) Ltd		
		Sandeep kumar, MCA/45025/22	Tanaashi Technologies(P) Ltd		
		Vishal Yadav, MCA/45035/22	Tanaashi Technologies(P) Ltd		
		Raghuveer Gurjar, MCA/45029/22	Tanaashi Technologies(P) Ltd		





Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
		Amit Ranjan, MBA/45024/22	JLL		
		Ariba Azim, MBA/45025/22	AU Small Finance		
		Anusha Prashad, MBA/45027/22	Bharti sales		
		Sparsh Kumar, MBA/45011/22	British Airways		
		Prerna Raj, MBA/45003/22	software Ltd		
		Divyansh, MBA/45021/22	ID Mia		

#### 7.4 Students Gone for Higher Studies for the last five years

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Varun Joshi, BAM/45007/21	M.Sc. Marketing Management with Advertisement, University of Leeds, UK	Rahul Mittal, MCA/45012/19	MCSC, University of New Brunswick, Canada		
Puru Bhardawaj, BAM/45010/18	The Design School, Arizona State University				
Sameer Yashashwee BAM/45011/19	M.Sc in Human Computer Interaction, University College, Dublin, Ireland				
Aryaman Singh, BCA/45006/20	MS Data Science, University of Colorado, Colorado, US				

## 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1	Dr. Abhishek Singh, Head – National Operations (Inbound), Britannia Industries Ltd.	01.08.2023	
2	Mr. Deepak Behl Founder & CEO Astra Protection Group & Astra Training Academy	02.08.2023	
3	Mr. Subhajit Bhattacharya AVP - Intelligent Automation ACCENTURE	04.08.2023	
4	Dr. Sanjeev Mittal, Professor, School of Management, GGSIJU, New Delhi	19.02.2024	
5	Mr. Vikas Sharma Pest Shields India Pvt. Ltd.	21.08.2023	
6	Dr. Shikha Garg Adjunct Faculty, Southern New Hampshire University, USA	22.02.2024	
7	Dr. Arup Roy Choudhury Ex- Chairman & Managing Director NTPC	16.02.2024	




Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
8	Dr. Rohit Dwivedi Associate Professor IIM Shillong	08.01.2024	
9	Mr. Yash Goyal Founder- KRUVVY	16.02.2024	
10	Dr. Jaspreet Kaur Associate Professor Vivekanand Institute, New Delhi	25.10.2023	
11	Mr. Satyendra Singh HDFC AMC	27.02.2024	
12	Dr. Pramod Kumar Tech Mahindra	21.02.2024	
13	Prof. Pawan Mishra Mendel University, Czechia	07.03.2024	
14	Dr. Raj Agarwal Director AIMA-CME	11.03.2024	

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
15	Mr. Saurabh Jain Founder- Fun2Do Labs	03.04.2024	
16	Dr. Sandeep Jain Founder & CEO Medical Technologies	03.04.2024	
17	Mr. Narendra Singh CEO & Co-founder TOURISH ACADEMY	03.04.2024	
18	Dr. Sanjay Rajput Senior Assistant Director SARC	03.04.2024	
19	Ms. Roopali Arora, UI and UX Designer	03.05.2024	
20	Mr. Harsh Chaturvedi, CG lead at The Mill, Technicolor Creative Studios, Bangalore, and training lead at Technicolor Academy	02.04.2024	
21	Ms. Samta Goyat, School Teacher	02.04.2024	





Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
22	Mr. Vipul Jha Founder & Ideator - Tectix India	10.04.2024	

### 7.6 List of Distinguished Alumni (Choose 5 only)

S.No	Name, Batch and Affiliation	Short Description
1	Saurabh Piyush MCA 2010	Working as a Technical Lead at Thales
2	Sanchit Magan BCA 2014	Working as a Senior Software Engineer at Wasoko.
3	Deepak Kumar MCA 2019	Working as a Software Engineer at Genpact
4	Saurabh Purwar, BAM 2009	founder, Happypeople AI
5	Abha Mahto, BAM 2019	founder Identicube.com

### 7.7 Best Thesis Project (UG/PG)

RollNo	Name	Project Title
MCA/45007/22	Prashant K. Jha	Consumer churn prediction model with machine learning and artificial data
MCA/45022/22	Priyansh Kakani	Image classification project: Plant disease detection
MCA/45031/22	Ashutosh Shukla	Object detection and identification using Deep learning
MCA/45042/22	Tanisha Modi	Dimensionality reduction and Classification on Hyper spectral Images
MCA/45046/22	Shubham K. Singh	Research paper recommendation and summarization
MBA/45021/22	Divyansh Sharma	A study on the Concern Based Adoption Model in Education 5.0
MBA/45023/22	Pallavi Srivastava	Redefining recruitment through AI: A study of IT organisations
MBA/45011/22	Sparsh Kumar	Financial Analysis of Automobile Companies in India
MBA/45012/22	Sneha Gupta	Role of Sensory Marketing in Consumer Purchase Intent in Indian Quick Service Restaurants
MBA/45008/22	Mehul Bhatnagar	Perception towards ESG Investing: An exploratory study of Delhi-NCR investors

## 8. Infrastructure Development.

The ongoing construction project is set to enhance our infrastructure to improve our academic environment and accommodate the growing needs of students, faculty 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





## BIT Off Campus: PATNA

### SECTION 1

### DEPARTMENTAL PROFILE



#### 1. About the Department/Off Campus :

Birla Institute of Technology Patna Campus came into existence in the year 2006 with the initiative of Government of Bihar with a vision to provide quality education for the students of Bihar who wishes to pursue their career in technical education. By far, BIT Patna is one of the best equipped, technically sound professional colleges in the state of Bihar. The campus is well networked. The infrastructure includes 25 Acres of academic space. BIT Patna is committed to provide state-of-the-art facilities to its students.

BIT Patna Campus seeks to attract the best students from diverse background and offer them an excellent educational experience. It offers more flexibility and choice to the students in the academic programmes, option of extra- and co-curricular activities, personality development, life-skills and career planning as the part of holistic development.

The Campus strives to achieve excellence in Teaching, Research and Consultancy by creating an environment in which the faculty and students share a passion for creating, sharing and applying knowledge to continuously improve the quality of education. To keep abreast with latest pedagogy the Institute organizes various International and National

Seminar/conferences/ workshops/ FDP/ Short term courses/ Guest lecture etc from time to time.

#### Programmes Offered at BIT Patna Campus:

BIT Patna provides Four Years Bachelor of Technology (B.Tech.) in 05 disciplines, namely EEE, ECE, CSE, MECHANICAL & CIVIL Engineering. Admission in the B.Tech. programme is done through JOSAA/CSAB counselling process.

BIT Patna also provides Three Years Bachelor of Business Administration (BBA), Bachelor of Computer Applications (BCA).

It also provides Two Years Masters of Business Applications (MBA), Masters of Technology (M.Tech.) in CSE & ECE (Wireless Communications) and Ph.D. Programme in Science, Engineering and Management.

#### Vision

Empowering Innovators and Leaders for a Sustainable Tomorrow

#### Mission

To cultivate a dynamic learning environment that seamlessly integrates engineering and management disciplines. We are committed to nurturing the next generation of innovative engineers and visionary leaders who possess the technical prowess and





**b) Projects Completed**

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount in INR	Date of completion of the Project
1.	SMOG FILTER: An intense field dielectric based anti-smog outdoor design to regulate air quality index	Dr. Md Asif Hasan	Department of Biotechnology	10.4.23	4.0 Lakhs	10.4.23-30.6.24
2.	Energy Audit of 11 KV feeder under PESU area	Dr. Kumar Nikhil (Co-ordinator/ Consultant)	BREDA	2012	4.75 Lakhs	2024 (Report Submitted)

**c) Consultancy Projects carried out/ongoing :**

Sl. No.	Title of Project	Funding Agency	Duration		Grant mobilized (Rs. lakhs)	Principal Investigator / Co- Investigator	Ongoing / Completed*
			from	to			
1.	Material testing & Concrete Mix Design	Infrastructure Development Authority, Gandhi Maidan, Patna	10.04.2024	---	1.13	PI - Dr. Anish, Co PI- Bandana Mahto, Dr. Angshuman Mandal, and Dr. Kumari Sweta	Ongoing
2	Material testing & Concrete Mix Design	Infrastructure Development Authority, Gandhi Maidan, Patna	18.06.2024	-	1.1505	PI - Dr. Anish, Co PI- Bandana Mahto, Dr. Angshuman Mandal, and Dr. Kumari Sweta	Ongoing

**SECTION- 3**

**SEMINAR/CONFERENCE**

**3.1 Seminar / Conferences / Short – Term Courses/FDP Conducted :**

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Ansys Tech Day Workshop	Dr. Nidhi Mishra	BIT Mesra and Ansys	3 <sup>rd</sup> May 2024



## 3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Anish	International Conference on Innovation in Engineering & Management (ICIEM 2023)	-	Birla Institute of Technology Noida, Uttar Pradesh	Online Mode	01.06.2023-02.06.2023
2	Dr. Anish	Structural Engineering Convention (SEC 2023)	BIT Mesra	Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India	Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India	07.09.2023-09.09.2023
3	Dr. Anish	International conference on 'Advancement in Natural Sciences	-	Sri Ramaswaroop Memorial University, Lucknow	Online Mode	24.06.2024-25.06.2024
4	Bandana Mahto	Open Classroom Online Lecture Series on Satellite Meteorology	-	South Asian Meteorological Association (SAMA) and Department of Remote Sensing, Birla Institute of Technology Mesra, Ranchi	Online Mode	02.09.2024-20.01.2024
5	Bandana Mahto	International Conference on Advancement in Natural Sciences: Vedic to Modern Era (ICANSVME - 24)	-	Shri Ramswaroop Memorial University, Lucknow, U.P.	Online Mode (Paper-I)	22.02.2024-24.02.2024
6	Bandana Mahto	International Conference on Advancement in Natural Sciences: Vedic to Modern Era (ICANSVME - 24)	-	Shri Ramswaroop Memorial University, Lucknow, U.P.	Online Mode (Paper-II)	22.02.2024-24.02.2024





Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
7	Bandana Mahto	International Conference on Recent Trends in Engineering and Sciences (RTES – 2024)	-	Birla Institute of Technology Mesra, Ranchi, Jharkhand.	Online Mode	29.03.2024-30.03.2024
8	Dr. Angshuman Mandal	International Conference on Contemporary Trends in Multidisciplinary Research and Innovation (ICCTMRI-2023)	-	Birla Institute of Technology Mesra Jaipur Campus, Rajasthan	Online Mode	27.07.2023-28.07.2023
9	Dr. Angshuman Mandal	International Conference on Contemporary Trends in Multidisciplinary Research and Innovation (ICCTMRI-2023)	BIT Mesra	Birla Institute of Technology Mesra Jaipur Campus, Rajasthan	Online Mode	27.07.2023-28.07.2023
10	Dr. Kumari Sweta	NBA Accreditation and SAR Preparation	BIT Patna	National Institute of Teachers' and Technical Training (NITTR)	BIT Patna	13.05.2024 to 17.05.2024
11	Dr. Sweta Kumari	NBA Accreditation & SAR preparation		NITTR, Kolkata	BIT Patna Campus	13/05/2024 to 17/05/2024
12	Dr. Sweta Kumari	“Empowering the future GaN Semiconductor for a sustainable society: From qubits to front-end electronics and MOSFET physics”	SERB sponsored	CMR institute of technology, Banguluru	online	12/06/2024 to 14/06/2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
13	Dr Shipra	14 <sup>th</sup> International Conference On "Science And Innovative Engineering – 2024" (ICSIE – 2024)		ORGANIZATION OF SCIENCE AND INNOVATIVE ENGINEERING & TECHNOLOGY (OSIET) Chennai, India.	Prince Dr. K. Vasudevan college of Engineering and Technology Medavakkam Mambakkam Road, Ponmar, Chennai – 600 127	27-04-2024 to 28-04-2024
14	Dr. Shipra	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
15	Dr. Ritesh Kumar Badhai	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
16	Dr. Priyadarshi Suraj	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
17	Dr. Atul Kumar Pandey	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
18	Dr. Nilay Pandey	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
19	Mr. Rajeev Ranjan	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
20	Dr. Umer Ashraf	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
21	Dr. Naren Das	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
22	Dr. Shiv Kumar Choubey	NBA Accrediation and SAR Preparation	BIT Patna Campus	National Institute of Technical Teachers' Training and Research (NITTR) Kolkata	BIT Mesra off Campus Patna	13-05-2024 to 17-05-2024
23	Dr. Kumar Nikhil	A One-Week In-House FDP on "NBA Accreditation and SAR Preparation"	BIT Mesra, Patna Campus	NITTTTR-Kolkata Campus	BIT Patna Campus	13.05.2024 to 17.05.2024
24	Dr Adhishree	MACHINE LEARNING: CONCEPTS & IMPLEMENTATION	RAMAN LAB, MNIT Jaipur	EE Department, MNIT Jaipur	MNIT Jaipur	04-08 March, 2024
25	Dr. Shradha Kishore	Online Short-Term Course (STC) cum Faculty Development Programme (FDP) on "Applications of Machine Learning Techniques in Sustainable Technologies (AMLST-2024)"	self	NIT Rourkela	Online	24.01.24 to 28.01.24,
26	Dr. Shradha Kishore	A One-Week In-House FDP on "NBA Accreditation and SAR Preparation"	BIT Mesra, Patna Campus	NITTTTR-Kolkata Campus	BIT Patna Campus	13.05.2024 to 17.05.2024
27	Dr. Shradha Kishore	Contact Mode FDP on Medical Instrumentation (CU38B)	BIT Mesra, Patna Campus	NITTTTR-Kolkata Campus	NITTTTR-Kolkata Campus	27.05.2024 to 31.05.2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
28	Dr. Nidhi Mishra	ATAL FDP "Electrifying the Future: A Comprehensive FDP on Electric Vehicles"	COEP-PUNE and BIT Mesra	BIT Mesra	COEP, Pune	8/1/24 to 13/1/24
29	Dr. Nidhi Mishra	<b>2024 10th International Conference on Power Electronics Systems and Applications</b>	IEEE and The Hong Kong Polytechnic University	The Hong Kong Polytechnic University	The Hong Kong Polytechnic University	5/6/24 to 7/6/24

## SECTION- 4

## RESEARCH PUBLICATIONS

S.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
	7	9	0	0	7

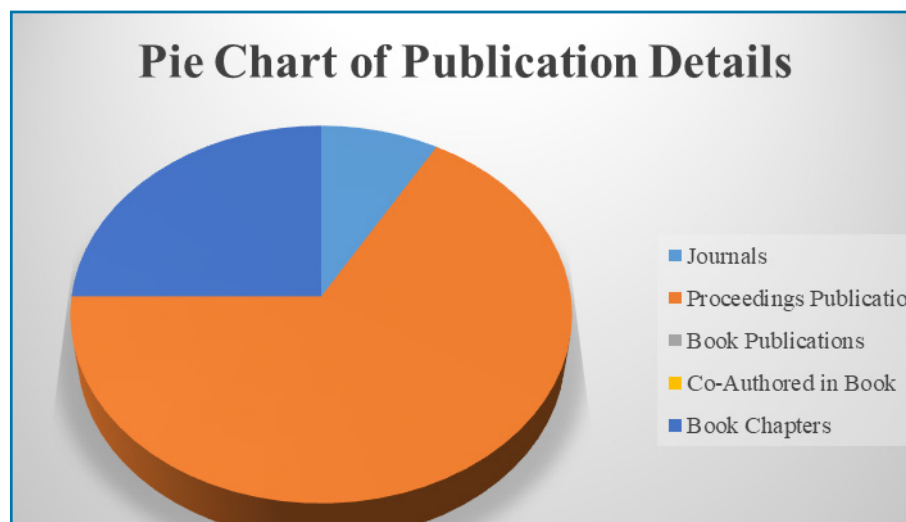


Figure. Pie Chart of Publication Details



## SECTION- 5

## AWARD/PATENT/COLLABORATIONS

## 1.1 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. Shradha Kishore	<b>Session Chair</b> in IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation (SEFET-2023) for Regular Session 15: Theme 4: EV Charging Systems and Applications	Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India during 9th –12th August, 2023	International	10th August 2023
2.	Dr. Nidhi Mishra	Global Distinguished Young Scientists Awards	IEEE	International	2023
3.	Dr. Nidhi Mishra	Tutorial Speaker and Competition Chair at IEEE PESA Conference	The Hong Kong Poly University, 2024 10th International Conference on Power Electronics Systems and Applications (PESA)	International	2024



## 1.2 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the Patent(Max 50 words)
1.	Sweta Kumari, Subrat Kumar Swain, S.S.Sahu, SudhanshuMishra, Mayank singh	A piezoelectric based energy harvesting system and method thereof	202331057064	13/10/2023	An energy harvesting system comprises of a piezoelectric based energy source, boost converter connected to the piezoelectric based energy source for receiving the input voltage, and a closed loop controller connected to an output terminal of boost converter. SSHI based model and lead compensator method employed to make the system stable by finding its gain margin & phase margin by providing global stability irrespective of uncertainties.
2.	Md Asif Hasan	AN INTENSE FIELD DIELECTRIC CUBOID SHAPE AIR FILTRATION SYSTEM	202431054770 A	2024	An intense field dielectric cuboid shape air filtration system, comprises a cuboid housing defining an air inlet and an air outlet; a pre-filter to capture large airborne particles; an IFD system comprising a dielectric filter layer having a mesh structure operable to apply a potential difference between the first and second sets of wires to capture charged airborne particles from the electric field
3.	1. Mukhopadhyay, Dr. Kunal 2. Afreen, Uzma 3. Kour, Dr. Paramjit 4. Kumar, Dr. Manish	A method for synthesizing silica nanoparticles from waste plant matter	2024310227046	1/04/2024	The proposed invention provides details on the novel <b>nanotechnology</b> employed to create nanocrystalline silica from rice husk with a primary focus on its role as a potent intra nuclear drug delivery carrier in plants within the field of <b>plant molecular biotechnology</b> .





### 1.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	The Hong Kong Polytechnic University	2024 10th International Conference on Power Electronics Systems and Applications (PESA)	5-7th June 2024

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1 Departmental Students' Activities

(Please arrange in reverse chronological order: Latest first)

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Debate Competition	Mahi Sharan, Madhuri Raj Himanshu Raj, Prachi Krishna	Dr. Anish	08/08/2024-10/08/2024
2	OPEN-MIC	Madhuri Raj, Yuvraj Singh	Dr. Anish	20/08/2023
3	Soul Enlighters	Himanshu Raj, Prachi Krishna, Subhanshu Raj Himanshu Raj, Pankaj Kumar	Dr. Anish	04/09/2024-05/09/2024
4	Teachers' Day Celebration	Madhuri Raj, Himanshu Raj IndraVijay Singh		05/09/2023
5	EDIFICE	Arpit Kumar, Saurav Kumar, Priyanshu Kumar, Anuskha Gupta, Swati Kumari	Dr. Anish	03/11/2023-05/11/2023
6	Release of Departmental Newsletter "SANWAD"	Vivek Kumar Singh	Dr. Kumari Sweta	11/03/2024
7	Release of Magazine "SWADHAYA"	Himanshu Raj, Subhanshu Raj	Ms. Bandana Mahto	11/03/2024
8	INGeniEUX (Technical and Esport event)	Mihir Kumar	Dr. Ritesh Kumar Badhai	7-9 April 2024
9	Internal Smart India Hackathon	Sidharth singh	Dr. Ritesh Kumar Badhai	29- Sep. 2023



## 6.2. List of Faculties

Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
1	Sudeshna Chakravarty	Civil Engg.	GEN	Professor	Geotechnical Engg.	PhD	05.07.2000.
2	Anish	Civil Engg.	GEN	Assistant Professor	Structural Engineering	PhD	21.08.2009
3	Bandana Mahto	Civil Engg.	GEN	Assistant Professor	Water Resources & Environmental Engineering	M.Tech.	01.09.2012
4	Angshuman Mandal	Civil Engg.	GEN	Assistant Professor	Structural Engineering	PhD	04.01.2017
5	Kumari Sweta	Civil Engg.	SC	Visiting Assistant Professor	Transportation Engineering	PhD	14.08.2023
6	Prof. Vishnu Priye	ECE	GEN	Director, Professor	Fiber optics communication, waveguide	Ph.D.	02-01-2024
7	Dr. Ritesh Kumar Badhai	ECE	OBC	Assistant Professor	Antenna Design, RF Circuit Design, Computational Electromagnetics & EMI/EMC	Ph.D.	13-0-2009
8	Dr. Atul Kumar Pandey	ECE	GEN	Assistant Professor	Wireless sensor Networks, M2M Communication & IoT	Ph.D.	13-07-2009
9	Dr. Priyadarshi Suraj	ECE	GEN	Assistant Professor	Wideband Antenna, Wireless Communication, MIMO antenna	Ph.D.	19.09.2011
10	Mr. Rajeev Ranjan	ECE	GEN	Assistant Professor	Nano Semiconductor Material	M.E.	09-08-2004
11	Dr. Sweta Kumari	ECE	GEN	Assistant Professor	Control system design, Energy Harvesting model, IOT based models, AI/ML, Analog VLSI design	Ph.D.	16.08.2010
12	Dr. Nilay Pandey	ECE	GEN	Assistant Professor	Molecular and Nanoscale Communications	Ph.D.	02-09-2021
13	Dr. Shipra	ECE	GEN	Assistant Professor	Speech recognition	Ph.D.	15-07-2009
14	Dr. Umer Asharaf	ECE	GEN	Assistant Professor	Intelligent Reflecting Surfaces, NOMA, UAV's	Ph.D.	12-03-2024



Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
15	Dr. Naren Das	ECE	SC	Assistant Professor	Electrical Sensors, Semiconductor Devices	Ph.D.	01-04-2024
16	Dr. Kumar Nikhil	EEE	Gen	Assistant Professor	Control System	Ph.D.	06.12.2000
17	Mr. Sanjay Kumar	EEE	Gen	Assistant Professor	Power Electronics & Drives	M.Tech.	08/07/2008
18	Dr. Mayank Singh	EEE	Gen	Assistant Professor	Power system	Ph.D	02-02-2010
19	Dr. Shradha Kishore	EEE	Gen	Assistant Professor	Control System, Optimization, Machine Learning, Bio Medical Instrumentation, Technical Edu Reform.	Ph.D	01-09-2012
20	Md Asif Hasan	EEE	Gen	Assistant Professor	Power system and drives	Ph.D.	29.6.2015
21	Mr. Raj Kumar Mishra	EEE	Gen	Assistant Professor	Instrumentation & Control System	M.Tech.	13-08-2009
22	Dr Adhishree	EEE	Gen	Assistant Professor	Power System	Ph.D.	01.07.2016
23	Dr. Nidhi Mishra	EEE	Gen	Assistant Professor	Power Electronics	Ph.D.	12/09/2021
24	Dr. Sheel Shalini	CSE	Gen	Assistant Professor	IOT, Data Mining, Machine Learning	Ph.D.	01.05.2008
25	Mr. Subho Chaudhuri	CSE	Gen	Associate Professor	Distributed Systems, Real-Time Systems, Big Data (Performance and Fault Tolerant Issues)	ME	01.10.2001
26	Mr. Sujit Kumar Chatterjee	CSE	Gen	Asst. Professor	Machine Learning, Data Clustering Algorithms, Pattern Recognition	M.Sc (Physics), MCA	05.09.1997
27	Mr. Madhup Kumar	CSE	OBC	Associate Lecturer	Software Egg., DBMS, Machine Learning	M.Tech., MCA	06.09.2007
28	Mr. Adnan Mahmood	CSE	Gen	Associate Lecturer	Computer Graphics, Multimedia	MCA	12.09.2009



Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
29	Dr. Ravi Shanker Pandey	CSE	Gen	Assistant Professor	Networks, Internet of Things, Web Services, Object Oriented Modeling, Artificial Intelligence	Ph.D.	21.07.2000
30	Dr. Subhash Chandra Pandey	CSE	Gen	Assistant Professor	Data Mining, Soft Computing, Bio-Inspired Computation, AI and ML, Networking & Security	Ph.D.	25.06.2008
31	Dr. Ajit Kumar Keshri	CSE	Gen	Assistant Professor	Parallel and Distributed Computing, Computer Architecture, Wireless Network, DBMS & Object-Oriented Programming	Ph.D.	01.07.2004
32	Dr. Ratnesh Mishra	CSE	Gen	Assistant Professor	Computer Network Security, Cryptography, IOT, Cloud Computing	Ph.D.	01.12.2007
33	Mr. Shridhar Kumar	CSE	Gen	Assistant Professor	Computer Networks, Data Structure, COA, OOAD, OS, Web Tech.	MCA	18.01.2010
34	Dr. Upendra Kumar	CSE	Gen	Assistant Professor	Cryptography & Network security, Machine Learning, IoT & Data Mining	Ph.D.	30.07.2012
35	Dr. Ayan Kumar Das	CSE	Gen	Assistant Professor	Wireless Sensor Network, Internet of Things, Machine Learning	Ph.D.	08.04.2015
36	Dr. Amit Prakash	CSE	Gen	Assistant Professor		Ph.D.	13.07.2012
37	Dr. Hazique Aetesam	CSE	OBC	Assistant Professor	Low Level Computer Vision, Remote Sensing, Biomedical Imaging, Model and Data Driven Methods	Ph.D.	01.03.2023



Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
38	Dr. Shree Prakash Lal	MECH	Gen	Professor	Manufacturing Technology	Ph.D.	01.09.1999
39	Dr. Anand Kumar	MECH	Gen	Assistant Professor	Metal matrix Composites	Ph.D.	08.09.2004
40	Dr. Sudipta Kishore Pradhan	MECH	Gen	Assistant Professor	Design, Solid Mechanics, Engg. Mechanics	Ph.D.	28.06.2006
41	Dr. Soumen Mandal	MECH	Gen	Assistant Professor	Fluid Mechanics & Machinery, Thermal Engineering, Heat Transfer, Manufacturing	Ph.D.	03.04.2007
42	Dr. Chandan Kumar	MECH	Gen	Assistant Professor	Thermal Engineering, Heat transfer, Engineering Mechanics and Mesh-less approach to analyze Composite materials	Ph.D.	18.08.2008
43	Dr. Ravi Shankar Anand	MECH	OBC	Assistant Professor	Computer Aided Design analysis and manufacturing	Ph.D.	16.07.2010
44	Dr. Amit Kumar	MECH	Gen	Assistant Professor	Machine Design, Mechanics of Solids, Non Destructive Testing, Smart materials, Energy harvesting	Ph.D.	01.09.2011
45	Mr. Vijay Kumar Mandal	MECH	Gen	Associate Lecturer	Design and Manufacturing	B.E.	30.07.2007
46	Mr. Kapil Deo Prasad	MECH	Gen	Assistant Professor	Manufacturing Processes, Metrology	M.E.	29.01.2007
47	Dr. Sanjay Kumar Sinha	Physics	Gen	Associate Professor	Advance Materials, PZT, Lithium Titanate, Zeolite material, Application of plasmam Phase Change Material	Ph.D.	09.04.2002



Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
48	Dr. Kamala Pati Tiwary	Physics	Gen	Assistant Professor	Material Science, Semiconductor Materials ( II-VI compounds), Plasma Processing and Technology	Ph.D.	11.09.2007
49	Dr. Paramjit Kour	Physics	Gen	Assistant Professor	Nanomaterials Nano-composite Multiferroic Applied Plasma Physics Hydrogen storage	Ph.D.	07.08.2008
50	Dr. Binay Bhushan	Physics	Gen	Assistant Professor	Nonlinear Optics, Laser, Electronics	Ph.D.	02.01.2009
51	Dr. Shambhu Sharan Kumar	Chemistry	Gen	Assistant Professor	Nano-Coatings and Corrosion Protection	Ph.D.	01.09.2003
52	Dr. Kaushlendra Sharma	Chemistry	Gen	Assistant Professor	Environmental Chemistry, Polymer Chemistry	Ph.D.	01.07.2006
53	Dr. Gyan Kumar Agarwal	Chemistry	Gen	Assistant Professor		Ph.D.	07.04.2004
54	Dr. Prakash Chandra Srivastava	Maths.	Gen	Assistant Professor	Functional Analysis and Numerical Analysis	Ph.D.	24.08.2005
55	Dr. Premlata Singh	Maths.	Gen	Assistant Professor	Hydrodynamics Dispersion, Groundwater Contamination, MHD, Water Pollution	Ph.D.	31.08.2012
56	Dr. Akmal Raza	Maths.	Gen	Assistant Professor		Ph.D.	03.04.2023
57	Dr. Sunil Kumar Pandey	Management	Gen	Assistant Professor	HRM Organisation Learning & Development Business Ethics & Law	Ph.D.	23.07.2005





Sr. No.	Name	Department	Category	Designation	Expertise Area	Qualification	Date of Joining
58	Dr. Adhip Kumar Mahanty	Management	Gen	Assistant Professor	Economics	Ph.D.	01.04.2005
59	Dr. Vijay Agrawal	Management	Gen	Associate Professor	Financial Management, Corporate Finance and Corporate Accounting	Ph.D.	03.07.2002
60	Dr. Iftekhar Ahmad	Management	Gen	Assistant Professor	Marketing Management, Strategic Management, Human Resource Management, Materials Management, Logistics & Supply Chain Management	Ph.D.	01.07.2002
61	Dr. Sweta	Management	Gen	Assistant Professor	Organisational Behaviour, HRM, IR	Ph.D.	17.11.2006
62	Dr. Ashish Mohan Dubey	Management	Gen	Assistant Professor	Human Resource Management. Public Administration & Public Affairs. Public Private Partnership. Organizational Learning.	Ph.D.	27.04.2009
63	Dr. Sohini Ghosh	Management	Gen	Assistant Professor	Performance Management, HSE Measures, Green Human Resource Management	Ph.D.	02.08.2010
64	Dr. Amit Raghuvanshi	Management	Gen	Assistant Professor	French Language	Ph.D.	26.11.2012
65	Dr. Sushil Kumar	Management	Gen	Assistant Professor	Marketing Management Advertising Management Consumer Behaviour Marketing Research	Ph.D.	01.10.2005





Sr. No	Name of Student <i>with Roll Number</i>	Achievement/Position/ Award etc	Organised by	Date and Venue
7	Priyanshu Kumar (BTECH/15065/20)	Bob The Builder (1 <sup>st</sup> )	TECHNIKA (BIT PATNA)	17-20 March 2024, BIT Patna
8	Subhanshu Raj (BTECH/15072/20)	Bob The Builder (1 <sup>st</sup> )	TECHNIKA (BIT PATNA)	17-20 March 2024, BIT Patna
9	Himanshu Raj (BTECH/15071/20)	Bob The Builder (1 <sup>st</sup> )	TECHNIKA (BIT PATNA)	17-20 March 2024, BIT Patna
10	Sumit Kumar (BTECH/15238/20)	Badminton (1 <sup>st</sup> )	PRAKRIDA (BIT PATNA)	18-20 March 2024, BIT Patna
11	Vivek Kumar Singh (BTECH/15217/20)	Lawn Tennis (Collegiate Category) (2 <sup>nd</sup> )	PRAKRIDA (BIT PATNA)	18-20 March 2024, BIT Patna
12	Saurav Kumar (BTECH/15066/20)	Football (2 <sup>nd</sup> )	PRAKRIDA (BIT PATNA)	18-20 March 2024, BIT Patna
13	Kumar Aniket (BTECH/15054/20)	Cricket (1 <sup>st</sup> )	PRAKRIDA (BIT PATNA)	18-20 March 2024, BIT Patna
14	Mohit Kumar (BTECH/15055/20)	Journal Publications	International Research Journal on Advanced Engineering Hub	-
15	Ayush Kumar Choudhary (BTECH/15075/20)	Journal Publications	International Research Journal on Advanced Engineering Hub	-
16	Prachi Krishna (BTECH/15058/20)	Conference Publication	International Conference on Advancement in Natural Sciences: Vedic to Modern Era (ICANSVME - 24)	22 – 24 February 2024, Online Mode
17	Mahi Sharan (BTECH/15070/20)	Conference Publication	International Conference on Advancement in Natural Sciences: Vedic to Modern Era (ICANSVME - 24)	22 – 24 February 2024
18	Md. Farhad (BTECH/15078/20)	Conference Publication	International Conference on Advancement in Natural Sciences: Vedic to Modern Era (ICANSVME - 24)	22 – 24 February 2024





Bachelors	
Name, Roll Number	Organization
Shourya Ranjan BTECH/15222/20	Skillwinner
Aayush Anand BTECH/15087/20	Zen Trades
Rohit Kumar Poddar BTECH/15098/20	Namedays
Anupam Kumar Jha BTECH/15083/20	ORC Engineering Pvt. Ltd.
Piyush Kumar Singh BTECH/15091/20	ORC Engineering Pvt. Ltd.

#### 7.4 Students Gone for Higher Studies

Bachelors		Masters		PhD	
Name, Roll Number	Organization	Name, Roll No.	Organization	Name, Roll No.	Organization
Utkarsh Deep Kamal	BIT Patna				PhD, IIT Bombay
Arpan Singh, BTECH/15255/15	BIT Patna	2020710001	IIIT Hyderabad	37-237290	University of Tokyo, Japan
Jeet Sharan,			IIT Patna		IIT Roorkee
Archisha BE/15252/17	BIT Patna	23MT0070	IIT Dhanbad		
Manish Kumar BTECH/15004/18	BIT Patna	23210054	IIT Gandhinagar		
Md. Farhan BTECH/15171/18	BIT Patna		NIT Patna		
Pushkar Raj BTECH/15279/18	BIT Patna	24563005	IIT Roorkee		
Himanshu Ranjan, BTECH/15209/18	BIT Patna	24210040	IIT Gandhinagar		
Sumit Kumar, BTECH/15189/18		2311CE23	IIT Patna		
		SANYA SINHA (BTECH/15108/20)	Imperial College London	HARSHIT NAMAN (BTECH/15253/18)	Purdue University
		Shreya Kumar, BE/15065/14	Arizona State University	Kunal Shankar, Btech/15280/19	Washington State University
				Anushka Sharma, BTECH/15200/20	Arizona State University

## 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt. organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1.	Er. Jainendra Singh (Retired Superintendent Engineer Water Resource Department Government of Bihar	24.08.2023	
2.	Er. Santosh Kumar, Chief Engineer, Building Construction Department, Patna, Bihar	13.02.2024	

## 7.6 List of Distinguished Alumni (Choose 5 only)

Sr.No	Name, Batch and Affiliation	Short Description
	Er. Saurav Batch: 2014	Medishala Start Up
	Er. Rituraj Batch: 2014	Medishala Start Up
	Er. Arpan Singh Batch: 2015	Pursuing MS from IIIT-Hyderabad
	Er. Shamsheer Alam Batch: 2016	Faculty at PhysicsWallah
	Er. Nihar Ranjan Batch 2017	Junior Engineer, Govt. of Jharkhand
	Er. Sparsh Bharadwaj Batch 2010	IRSE (Indian Railways)
	Ankur Dhanuka , 2006 Batch	Works in senior position in BARC.
	Dr. Adhishree, 2008 Batch	Distinguished Faculty ,BIT, Mesra, Off Campus Patna, India

## 7. Best Thesis Project (UG/PG)

## 8. Infrastructure Development.

### Dept. of Civil Engg.

- Procurement of Instruments like
  - Deformation of Frame with
  - Mounting frame
  - Rs 6.7 lakhs (approx.)
  - Ductility Test Apparatus Rs. 80,000 (approx.)





- Deep Freezer  
Rs. 3 lakhs (approx.)
- Jaw Crusher  
Rs. 1.3 lakhs (approx.)
- 10 Desktops (for Civil CADD lab)

#### 9. Any other relevant information

1. Global distinguished young scientist award from IEEE GlobCONHT 2023 Conference at 11-12 March 2023, Maldives.
2. IEEE Senior Member Grade Elevation
3. Education Committee for IEEE PESA 2022 conference at The Hong Kong Polytechnic University, Hong Kong (20th-22nd Sep, 2022)
4. Tutorial Speaker and Competition Chair Committee for IEEE PESA 2024 conference at The Hong Kong Polytechnic University, Hong Kong (5TH-7TH June, 2024)
5. BIT Mesra is one of the collaborators for IEEE PESA 2024 Conference at The Hong Kong Polytechnic University, Hong Kong (5TH-7TH June, 2024)
6. Session Chair at IEEE ICIDEA conference 2023, NIT Manipur
7. Conference Organizing Committee: 1) Track Chair: IEEE ITEC-INDIA 2023, Chennai, India  
·Special Session Organizer in IECON 2020 Conference  
· Special Session Organizer in ECCE Asia 2021 Conference
8. The library houses a large collection of reading materials such as more than 46000 books in print form and more than 1.5 lakhs e-books. More than 400 project reports of UG and PG Students good collection of magazines and newspapers. Good collection of Thesis is also available in the library. The central library has automated all its routine activities through library software called LIBSYS 10 on cloud.

#### 10. Special initiatives if any:

##### **New Centre of Excellence on Smart Electric Vehicles establishment with Phase wise:**

**Phase 1:** Comprises of EV Powertrain/Drivetrain, EV Battery, Cell, BMS, EV Charging Infrastructure and EV Real time HIL Research and Training Setup

**Phase 2:** Comprises of EV Digital Twin Training and Research Setup, EV Driveline Emulator Advanced Research Test-bed Setup and EV Design, Innovation & Research Bundle (Software Suite)

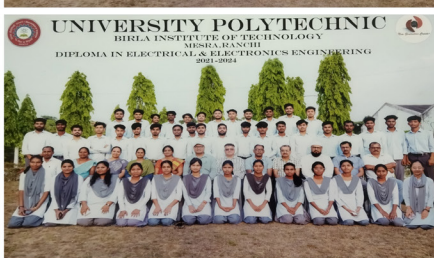
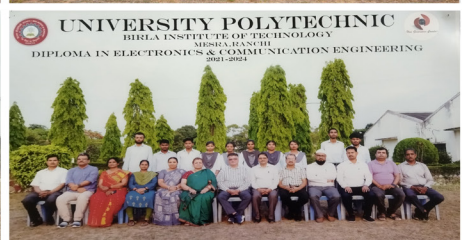
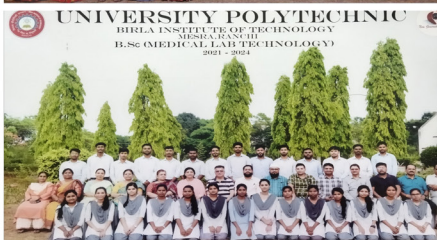
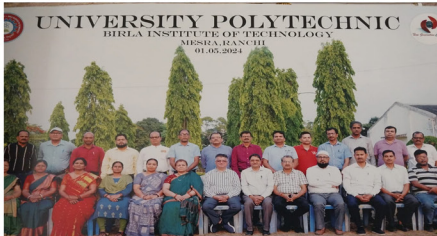
Asst. Registrar- Academic  
Coordinator; Annual Report  
BIT Patna



# University Polytechnic

## SECTION 1

## DEPARTMENTAL PROFILE



**ELECTRONICS LAB**



**CHEMISTRY LAB**



**AUTOMOBILE LAB**



**COMPUTER LAB**



**MECHANICAL LAB**





### 1. About the Department/Off Campus :(In Brief)

University Polytechnic, BIT Mesra, was established on November 12, 2001, through a Memorandum of Understanding (MoU) between Birla Institute of Technology (BIT) Mesra, Ranchi, and the Welfare Department of the Government of Jharkhand. This initiative, a flagship project of the Government of Jharkhand, aims to provide technical education to students from Particularly Vulnerable Tribal Groups (PVTGs), Scheduled Tribes (ST), Scheduled Castes (SC), Other Backward Classes (BC1 and BC2), and other students of Jharkhand. The goal is to impart technical knowledge to individuals at the lowest rungs of the social ladder. Located on the premises of BIT Mesra, Ranchi, the University Polytechnic spans an area of 8.04 acres. For infrastructure development, the Government of Jharkhand provided Rs. 415 lakhs in three installments of 50%, 30%, and 20%, respectively.

#### PROGRAM OFFERINGS

The project began in 2001 with diploma programs in Automobile Engineering and Electronics Engineering, each admitting 25 students. In 2002, two additional branches were introduced: Computer Engineering and Manufacturing Engineering, each also admitting 25 students. In 2005, a BSc in Medical Laboratory Technology was added, with an intake of 50 students. In 2010, two more diploma programs were introduced in Mechanical Engineering and Electrical Engineering, each with an intake of 30 students.

Currently, there are 270 students pursuing diplomas in the following disciplines:

- Automobile Engineering: 60 students
- Computer Engineering: 30 students
- Electronics and Communication Engineering: 30 students
- Electrical and Electronics Engineering: 60 students

- Mechanical Engineering: 90 students

#### Vision:

To emerge as a leading technical training institution in the country, serving the nation and the engineering profession with distinction by developing highly skilled human resources through comprehensive and modern training and skill sets in selected engineering disciplines and trades.

#### Mission:

1. To administer a technical training institute with the highest standards of education and training aligned with modern engineering practices.
2. To offer technical diploma and certificate courses that address the contemporary demands and relevance of the engineering industry.
3. To adopt and implement a modern curriculum for technical education and training.
4. To continuously upgrade the infrastructure required for practical training, incorporating new and contemporary machines and methods.
5. To arrange job training and internships for students and staff members, with proper supervision.
6. To liaise with industries for internships and collaborations, as well as to arrange periodic reviews of infrastructure and training methods, and to modernize the teaching and training curriculum.
7. To create special programs for the youth of Jharkhand to help them acquire entrepreneurial and managerial skills, manufacturing capabilities, career advancement training, and professional confidence.

#### 1.1 Established Year 2001.

#### 1.2 Courses Offered and Approved Intake

- Diploma in Computer Engineering - 30
- Diploma in Electronics and Communications Engineering - 30



- Diploma in Mechanical Engineering - 90
- Diploma in Electrical and Electronics Engineering - 60
- Diploma in Automobile Engineering - 60
- B.Sc. programme in Medical Lab Technology - 30

### 1.3 Thrust Areas of the Department:

- Diploma in Computer Engineering encompasses a wide range of topics, with specialized fields tailored to industry demand and emerging technologies. The key focus areas of our program include: Computer Hardware and Network, Computer Networking, Database Management Systems, Software Development, Internet of Things, Artificial Intelligence & Machine Learning, Cloud Computing. These focus areas equip students with specialized skills in various domains of computer engineering, enhancing their employability and expertise in the industry.
- The Diploma in Electronics and Communication Engineering program emphasizes several key areas to equip students with essential technical skills. The core areas include communication systems fundamentals, basic VLSI and embedded systems, signal processing, and an introduction to IoT and smart devices. Students also gain knowledge in robotics and automation, power electronics and renewable energy, digital signal processing, and wireless sensor networks.

Currently, we are focused on strengthening industry collaboration and enhancing practical skills through internships, workshops, and hands-on projects. We also emphasize entrepreneurship and innovation, encouraging students to develop entrepreneurial skills and engage in small-scale projects that foster creativity and practical problem-solving. These focus areas

are designed to improve employability and prepare students for real-world challenges in the ECE field.

- Mechanical Engineering refers to specialized fields of research and study that are focused on solving specific problems or developing new technologies. Some of the thrust area in mechanical engineering includes, Robotics and Mechatronics (Deals with design and development of intelligent system with enhanced automation and precision), Energy and Environmental Engineering (Focuses on sustainable energy solution, pollution control and environmental conservation), Engineering Materials (Explores the development of new materials and its application in various fields), Manufacturing Science and Technology (Focuses on manufacturing process and product development), Thermal Engineering (Study of heat transfer, fluid mechanics and thermodynamics for efficient energy utilization).
- Electrical and Electronics Engineering is a fundamental branch of engineering that focuses on the design, installation, maintenance, and production of electrical equipment, renewable energy systems, automation systems, and more. The future of electrical engineers is set to be promising, especially with the advancements in solar power systems and electric vehicle technology. Electrical engineers have a wide range of career opportunities in various sectors, including Government Organizations: PGVCL, Railways, Power Grid, NTPC, etc. Multinational Companies (MNCs): ABB, Schneider, Siemens, L&T, Start-ups: Solar, Electrical Contracting/Consulting, Energy Auditing, etc.
- Diploma in Automobile Engineering emphasizes hands-on experience in the Engine Testing Facility, Driving Test Facility,



Repair and Maintenance Facility, and New Product Facility. The department is equipped with a two-stroke engine dynamometer and a four-stroke multi-point fuel injection engine dynamometer for testing, tuning, and calibrating various engine parameters. Additionally, the department has an 8,000 sq. ft. area dedicated to a wide range of servicing facilities. It also features a unique three-dimensional projection-type simulator with a full cabin, providing a realistic driving experience. Every year, the department introduces a variety of new products designed and manufactured by final-year student.

#### 1.4 Number of Faculties..... 31

#### 1.5 Brief Description High-end Lab Facilities

##### 1.5.1 Computer Hardware and Network Lab:

These facilities enable students to meet market demands by providing hands-on experience in tasks such as wireless network installation, managed switch configuration, and troubleshooting PC and network issues. This practical training prepares our students for the industry. Both students and faculty members can observe various parameters, such as the relationship between voltage and screen resolution, the effect of voltage on screen background, and the impact of different voltage levels and signals on a PC. This data can be used for research purposes.

In the .NET Lab, students and faculty members utilize software like MySQL, XAMPP, VB .NET, and ASP .NET.

##### 1.5.2. The Automobile lab is equipped with following equipment:

- Hyundai i20 car for training purposes.
- A two-post hydraulic lift.
- A cut-section.
- AC compressor.

- An engine stand.
- A cut-section clutch plate.
- A strut assembly plate and an electric Power Steering.

#### 1.6 Brief Description of High-end Equipment

##### 1.6.1 The following equipment have been added to the computer lab:

- Seventeen PCs,
- Four no. of PC Hardware Trainer
- One server
- One managed switch equipment for Computer lab upgraded.

##### 1.6.2 The following equipment have been added to the Automobile lab:

- Hyundai i20 car for training purposes.
- A two-post hydraulic lift.
- A cut-section.
- AC compressor.
- An engine stand.
- A cut-section clutch plate.
- A strut assembly plate and an electric Power Steering.

#### 1.7 Number of Projects in the Last Five Years. ....01

#### 1.8 Achievement of the Department in the last three years. (In Brief)

1. The Diploma in Computer Engineering and Diploma in Electronics and Communication Engineering are NBA Accredited on September 15, 2023. This accolade positions the institute among an elite cadre of institutions nationwide, with only 17 colleges in India boasting NBA-accredited diplomas in Electrical and Electronics Engineering and just 19 in Computer Engineering.
2. Hyundai supported lab.
3. Two student groups received seed money for their Innovation Project.







Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop /FDP	Coordinator	Funding / Sponsoring Agency	Date of Event
9	Lean Start-up and Minimum viable product. Speaker: Mrs.Jyoti Agrawal, Specialist in Finance and Production	Dr. Sandhya Rani	Institute	23.08.2023
10	Workshop on Value Proposition Fit by Mr. Manish Piyush, Co-Founder & Director, Puresh Daily Foods Pvt.Ltd.	Dr. Sandhya Rani	Institute	22.08.2023
11	Student Induction Programme	Dr. Satish Kumar, Dr. Trilok Parashar, Ms.Rekha Kumari	Institute	14.08.2023-03.09.2023

**3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes/FDP attended by Faculty Members:**

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
1	Dr. Md Maqubool Hosain	Latest Research On Optimization Based Machine Learning & Telehealth Systems	Educare Taiwan.	Educare Taiwan.	Online	19.07.2024
2	Dr. Md Maqubool Hosain	Higher Study Opportunity & Applications of spatial AI Include ROBOT Navigation, Self Driving Cars, Computer	Yuan Ze University (YZU) & Educare Taiwan.	Educare Taiwan with Yuan Ze University (YZU), Taiwan.	Online	14.07.2024
3	Mrs Nirupam	FDP on Universal Human Values-III	AICTE	IIT, Kanpur	IIT, Kanpur	06.07.2024-13.07.2024
4	Dr. Sandhya Rani	FDP on Universal Human Values-II	AICTE	IIT, Kanpur.	Online	03.07.2024
5	Dr. Meena Singh	FDP on Universal Human Values-II	AICTE	IIT, Kanpur.	Online	03.07.2024
6	Dr. Anubha Singh	FDP on Universal Human Values-II	AICTE	IIT, Kanpur.	Online	03.07.2024
7	Dr. Md. Maqubool Hosain	Mitigation of Electromagnetic Interference and Electromagnetic Compatibility Issues In Wearable IoT Devices”	DST-SERB-POWER SSR	Department of Electronics & Communication Engineering, BIT MESRA	Seminar Hall -I R&D Building, BIT Mesra	30.05.2024-31.05.2024
8	Dr Sumana Kumari	Mitigation of Electromagnetic Interference and Electromagnetic Compatibility Issues in Wearable IoT devices” under DST-SERB “POWER”	DST-SERB-POWER SSR	Department of Electronics & Communication Engineering, BIT MESRA	Seminar Hall -I R&D Building, BIT Mesra	30.05.2024-31.05.2024



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
9	Mr Abhay Kumar	Innovation and Intellectual Property Right.	Institute	IPR Cell and IIC, BIT Mesra	CAT, BIT, Mesra	15.04.2024
10	Dr Sumana Kumari	International Workshop on Technical Writing using LaTeX	Self	School of Electronics Engineering (SENSE) and Technically Co-Sponsor by VIT-AP IEEE SB and MTT SBC, at VIT-AP University, Amaravati, India	Online	30.03.2024-05.04.2024
11	Mr Abhay Kumar	Integrating Geospatial Data and Machine learning(AI/ML) for Natural Resources	Institute	Deptt of Remote Sensing, BITMesra, Ranchi	Dept of Remote Sensing, BIT-Mesra, Ranchi	18.03.2024-22.03.2024
12	Mr Abhay Kumar	SAR Data Processing and its Application	Institute	BIT, Mesra. Ranchi	Dept. of Remote Sensing. BIT, Mesra, Ranch	29.02.2024-03.03.2024
13	Dr Naveen Trivedi	Workshop on Inculcating Universal Human Values in Technical Education	AICTE	Central University of Jharkhand, Ranchi	Central University of Jharkhand, Ranchi	01.01.2024-03.02.2024
14	Ms Rekha Kumari	Short Term Course on Manufacturing Process Technology I&II.	MoE, Govt.Of India.	NPTEL	Online	January-April 2024
15	Dr Sumana Kumari	Live Workshop Chat GPT and AI Tools	Self			
16	Dr Sumana Kumari	Basics of Intellectual Property Rights Course	Self	4	National Science Day.	Shivaang Kumar, Ishika Pathak
17	Dr. Md. Maqubool Hosain	Innovations in Solar Cell Technologies, Flexible Substrate Devices & Computing for VR & Graphics	Self	Educare Taiwan with Yuan Ze University Taiwan.	Online	01.12.2023

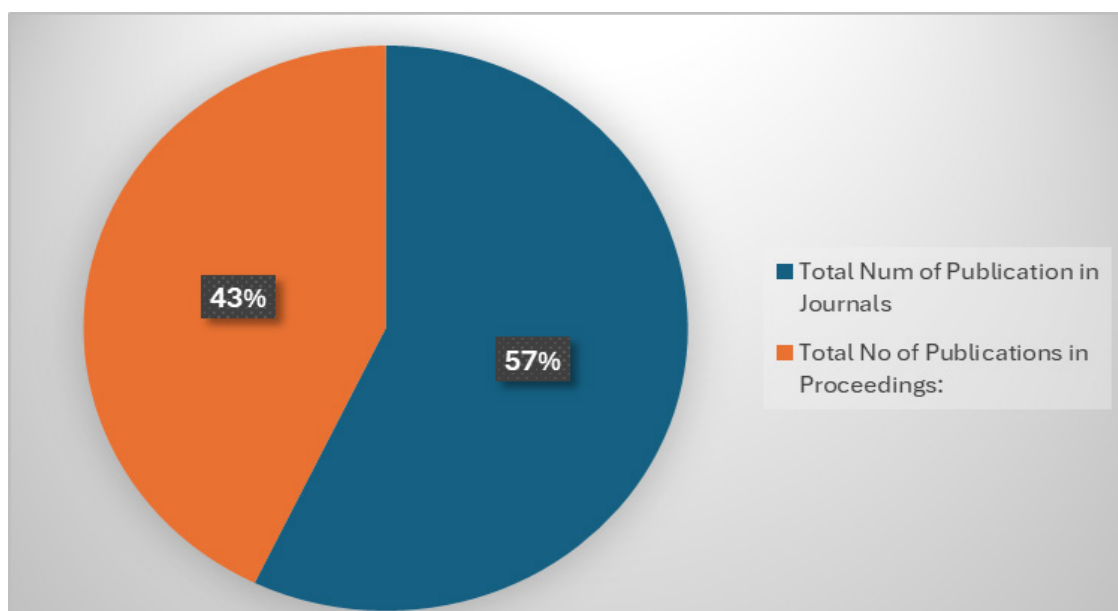


Sr. No.	Name of the Faculty	Title of the Conference/ Seminar /FDP	Funding Agency	Organizers	Venue	Date
18	Dr Sumana Kumari	Workshop on OBE/ Graduate Attributes/ CO-PO	BIT Mesra.	IQAC, BIT Mesra.	Institute Conference Hall, BIT Mesra	17.11.2023-18.11.2023
19	Dr. Satish Kumar	PFAS groundwater remediation	Self	Remtech Europe	Online	21.09.2023
20	Dr. Satish Kumar	Ecological Risk Assessment: risk refinements save time and money	Self	Remtech Europe	Online	18.09.2023
21	Dr Sumana Kumari	National Workshop on ADVANCED Chat GPT for INNOVATION	Self	Founder of TURNIP Innovations	Online	18.08.2023
22	Mrs Rekha Kumari	Applied machine Learning: Unleashing its Real-world Potential	Siksha 'O'Anusandhan		Online	31.07.2023-04.08.2023

SECTION- 4

RESEARCH PUBLICATIONS

S.No	Total Num of Publication in Journals	Total No of Publications in Proceedings:	Total No of Publications in Books	Total No of Publications in Books as Co-Authored	Total No of Publications Chapters in Edited Book
	4	3	0	0	0







### 5.3 MoUs / Collaborations :

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	MOU between University Polytechnic, BIT Mesra and Hyundai has been established for Centre on January 15, 2024.	Professional Development Centre. The following items has been arranged by Hyundai company for purpose: A Hyundai car i20 for the training purpose Hydraulic lift (Two posts) Smart class AC compressor (Cut Section) Tool box 6. Engine stand 7. Clutch plate (Cut Section) 8. Plate (Strut Assembly) 9. Electric Power Steering	15.01.2024

## SECTION- 6

## Activities/Faculty Members/DOS/DAS

### 6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1	Industrial visit to SNL Bearing, Ratu, Ranchi	Prince Kumar Yadav, Shivani Kumari	Dr. Satish Kumar, Dr. Anubha Singh, Dr. T K Parashar	27.04. 2024
2	Annual Athletic Meet-2024	Shivam Kumar, Piyush Kumar, Roshan Soni, Aditya Kumar Gupta, Prince Kumar Yadav, Shivani Kumari	Mr. Narendra Kumar Singh	18.01.2024
3	Innovation 2024 by BITOSA Kolkata on 14/01/24, IGNITE	Manish Sharma and Sangam Pandey	Dr. Anubha Singh , Asst. Professor, (Chemistry Dept.)	14.01.2024
4	"Smart Walking Stick" for Innovation Contest, BIT ,NISHAN – 23	Manish Sharma and Sangam Pandey	Dr. Anubha Singh , Asst. Professor, (Chemistry Dept.)	15..12.2023
5	Golden Year Nurture Foundation (Smart Adult Emotional care and Recreation centre), NISHAN – 23	Ishika Pathak Shivang Kumar Aditya Gupta	Dr. Sandhya Rani Asst. Professor, (Chemistry Dept.)	15..12.2023
6	Exhibition on G20 Events.	Shivaang Kumar, Sakshi Ishika Pathak	Dr. Sandhya Rani Asst. Professor, (Chemistry Dept.)	12.08.2023
7	Aagman Of New Horizon. (Fresher-23 cum Farewel of 21Batch)	Shivaang Kumar, Sakshi Ishika Pathak, Pallavi Singh, Nishu Kumari	Dr. Sandhya Rani Asst. Professor, (Chemistry Dept.)	30.11.2023



## 6.2. List of Faculties

S N	Name	Category	Designation	Expertise Area	Qualification	Date of Joining
1	Prof. (Dr. Vinay Sharma)	General	Director	Advance Manufacturing	Ph.D.	26.02.1999
2	Mr. Rajendra Mahto	OBC	Assistant Professor	Computer Science & Engineering	MCA, Ph.D (Persuing)	01.04.2001
3	Mr. Abhay Kumar	General	Assistant Professor	Computer Science & Engineering	M.Tech (Comp.Sc.), Ph.D. Persuing	01.07.2004
4	Mr. Ramnish Sinha	General	Assistant Professor	Computer science	M.Tech, Persuing Ph.D.	07.08.2004
5	Dr. Naveen Trivedi	General	Associate Lecturer	Data Mining and Languages	MTech, Ph.D.	17.03.2007
6	Mr. Niraj Kumar	General	Assistant Professor	Computer Engineering	M.Tech, Ph.D(Persuing)	01.03.2008
7	Mr. Prashant Pandey	General	Lecturer	Power Electronics & Devices	M.Tech..	09.10.2000
8	Dr.(Mrs.) Sumana Kumari	General	Assistant Professor	Antennas in Wireless, IoT based antenna & lung disease detection	Ph.D.	02.01.2003
9	Dr.(Mrs.) Meena Singh	ST	Assistant Professor	ECE	M.Tech., Ph.D.	28.02.2007
10	Mrs. Nirupam	OBC	Assistant Professor	Instrumentation, IOT based Antenna	ME, Pursuing Ph.D.	26.07.2009
11	Dr. Md. Maqubool Hosain	OBC	Lecturer	Antenna & RF circuit Design	Ph.D.	27.07.2009
12	Mr Raghvendra Kumar	General	Lecturer	Microwave Engg	Ph.D.	10/28/2013
13	Mr. N. K. Mukherjee	General	Assistant Professor	Electrical Engineering	B.E.	12.06.2002
14	Mr. Surendar Kr. Mahto	OBC	Associate Lecturer	Power System	Ph.D. (Perusing)	01.07.2007
15	Mr. Pradeep Toppo	ST	Assistant Professor	Heat Power	M.Tech, Ph.D. (Pursuing)	01/11/2001
16	Mr. Ram Kishore Prasad		Sr. Superintendent	Mechanical-(CAD & CAM)	M. Tech	15/07/2003
17	Mr. Rakesh	OBC	Assistant Professor	CAD/CAM	B.E, Ph.D(Persuing)	12.03.2004





18	Mr. Prabhat Ranjan Mahto	OBC	Teaching Assistant	Bond Graph modeling & Design of Mechanical System	Ph.D. (Perusing)	13.10.2014
19	Mr. Manoj Kumar	General	Assistant Professor	CFD & Heat Transfer	M Sc., Ph.D.	30.09.2013
20	Mrs. Rekha Kumari	OBC	Assistant Professor	Production	M.Tech, Ph.D.(Persuing)	02.03.2009
21	Mr. Shankar Kumar	General	Teaching Assistant	Automobile & Electrical Vehicle	M.Tech.	24.09.2013
22	Dr. Neeru Singh	General	Assistant Professor	Microbiology	M Sc, Ph.D.	6.10.2007
23	Dr. Mohd. Neyaz Ahsan	OBC	Assistant Professor	Pharmaceutics	M.Pharma, ,Ph.D.	16.08.2013
24	Dr. Chanchal Kumar Mishra	General	Assistant Professor	Pharmacology	M.Pharm, Ph.D.	10.09.2013
25	Mr. Sanjay Jha	General	Teaching Assistant	Pharmacognosy	M.Pharm, Ph.D.(Pursuing)	07/10/2013
26	Dr. Anubha Singh	General	Assistant Professor	Bio Medical Instrumentation	Ph.D.	10.09.1997
27	Dr. Satish Kumar	General	Assistant Professor	Water Quality monitoring & Water Purification	PGDCAQM, M.Phil, Ph.D.	03.02.2004
28	Dr. Sandhya Rani	General	Assistant Professor	Organic Chemistry	MSc., B.Ed., Ph.D.	16.07.2010
29	Dr. T. K. Parashar	General	Assistant Professor	Physics	Ph.D.	04.02.2004
30	Dr. R.K Chatterjee	General	Assistant Professor	Image processing & Machine Learning	Ph.D.	25.07.2006
31	Mr. N. K. Singh	General	Physical Training Instructor	Sports & Games	M.Phil. Ph.D. (Perusing)	08.05.2009

**1.3 List of Adjunct Faculties/ Visiting Professor/ Professor of Practise/ Others if any**

Sr. No.	Name	category	Designation	Affiliation
1.	Dr Dibya Mahendru	GEN	Visiting Faculty	
2.	Ms Namita Pandey	GEN	PhD Research Scholar	
3.	Mr Lalan Kumar	OBC	PhD Research Scholar	
4.	Mr Indrajeet Kumar Das	OBC	PhD Research Scholar	
5.	Mr Shwet Kashyap	OBC	PhD Research Scholar	
6.	Ms Shagufta Paraveen	OBC	PhD Research Scholar	
7.	Ms Sonal Bharti	GEN	vising Faculty.	









Sr. No.	Name of the Member	Designation	Role (Chairman/ Internal or External Member)
7	Mr. Surendra Kr. Mahto	Associate Lecturer, Department of Electrical and Electronics Engineering, University Polytechnic, BIT Mesra	Internal
8	Prof. Anoop Kr. Sood	Department of Mechanical & Manufacturing Engineering, National Institute of advanced manufacturing Technology, Hatia 834004 Ranchi	External
9	Er. Debasish Guha	Sr. Manager, Tata motors Pvt Ltd Jamshedpur,	External
10	Mr. Aditya Raj Mahto	Final-year Student Roll No.: D030/21, Diploma in Automobile Engineering, University Polytechnic, BIT Mesra	Internal

SECTION- 7

OTHER INFORMATION

7.1 Student Entrepreneurship activities/Start-ups if any:

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Manish Sharma and Sangam Pandey	Institute & Finance Club.	Smart Walking Stick	<ul style="list-style-type: none"> <li>• Awarded ₹1 lakh in the Innovation Contest at BIT NISHAN 2023 on December 16, 2023.</li> <li>• Won first prize of ₹50,000 in the IGNITE Innovation 2024 competition, organized by BITOSA Kolkata, on January 14, 2024. The product was designed with the elderly in mind, particularly those suffering from Alzheimer's or Parkinson's disease, as well as visually impaired and handicapped individuals.</li> <li>• Team member Sangam Pandey was interviewed live at Doordarshan Kendra, Ranchi, on April 26, 2024.</li> </ul>



Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
2.	Shivang Kumar Ishika Pathak Aditya Gupta	Institute Finance Club	Golden Year Nurture Foundation (Smart Adult Emotional care and Recreation centre), NISHAN – 23	 <p>Smart adult care centre will provide requirement-based services to old age person who are unable to walk, do not want to leave their home. The facility like library entertainment, gardening, games, requirement-based foods, massage and attendant will be available for adult emotional care and recreation.</p>

## 7.2 Achievements of Students:

Sr. No	Name of Student with Roll Number	Achievement/ Position/ Award etc	Organised by	Date and Venue
1	Riya Nayak (BMLT008/23)	1 <sup>st</sup> Position in the Debate Competition in the People's Education Program	MSME, Government of India & IIC, BIT Mersa	04.03.2024-05.03.2024 BIT, Mesra
2	Kashish Shrivastava (D124/21)	2 <sup>nd</sup> Position in the Essay Writing Competition in the People's Education Program	MSME, Government of India & IIC, BIT Mersa	04.03.2024-05.03.2024 BIT, Mesra

## 7.3 Students Placed for the Academic Years

SL	NAME	ROLL NO.	Organization
1	Manish Kumar Mahto	DL17/22	Timken Ltd. , Subros, Mrs Bearing, Igsspl
2	Shivang Kumar	D125/21	Timken Ltd. , Subros, Hindalco- Odisha, Igsspl
3	Vivek Kumar Mahto	D030/21	Timken Ltd.
4	Ishank Raj Oraon	D126/21	Timken Ltd. , Subros
5	Harsh Sharma	D146/21	Timken Ltd. , Subros, Mrs Bearing
6	Amit Kujur	DL10/22	Timken Ltd., Subros
7	Nitesh Kumar	D073/21	Timken Ltd. , Subros, Hindalco- Odisha, Igsspl
8	Amrit Raj	D033/21	Timken Ltd. , Subros, Hindalco- Odisha, Igsspl
9	Uday Anurag Verma	D099/21	Timken Ltd. , Subros, Mrs Bearing
10	Tilak Kumar	D089/21	Timken Ltd., Subros, Igsspl
11	Uttam Kumar Mahto	DL23/22	Timken Ltd. Subros, Mrs Bearing
12	Chintamani Das	D071/21	Timken Ltd., Subros, Igsspl





SL	NAME	ROLL NO.	Organization
13	Lawkesh Yadav	D088/21	Timken Ltd. , Igsspl
14	Vishal Bandhu	D140/21	Timken Ltd. , Subros, Acym-Bhiwadi
15	Rajnish Prakash	D122/21	Timken Ltd. , Igsspl
16	Rohit Kumar	D026/21	Timken Ltd., Subros, Acym-Bhiwadi
17	Ashutosh Nandan	D032/21	Subros, Mrs Bearing, Igsspl, Acym-Bhiwadi
18	Prince Kumar Yadav	D021/21	Subros, Mrs Bearing, Igsspl, Acym-Bhiwadi
19	Prince Raj	D018/21	Subros, Igsspl, Acym-Bhiwadi
20	Goutam Kumar	D010/21	Subros, Mrs Bearing, Igsspl, Acym-Bhiwadi
21	Anurag Sinha	D052/21	Subros, Mrs Bearing, Acym-Bhiwadi
22	Shiwani Kumari	D082/21	Subros, Tata Hitachi, Daipl, Chakan, Pune
23	Nikita Kumari	D127/21	Subros, Mrs Bearing
24	Paritosh Oraon	D027/21	Subros, Mrs Bearing, Igsspl
25	Kaif Ansari	DL15/22	Subros, Mrs Bearing
26	Tapeshwar Mahto	D111/21	Subros, Mrs Bearing
27	Sardesh Kumar Mahto	D057/21	Subros, Mrs Bearing
28	Ganesh Nayak	D106/21	Subros, Mrs Bearing
29	Amit Kumar Mahto	D148/21	Subros, Mrs Bearing
30	Suraj Kumar Munda	D104/21	Subros, Mrs Bearing
31	Ashutosh Kumar	D055/21	Subros, Mrs Bearing
32	Rajeev Ranjan Saw	D083/21	Subros, Mrs Bearing, Igsspl
33	Himanshu Mahto	DL01/22	Subros, Mrs Bearing
34	Ashish Kumar	DL11/22	Subros, Mrs Bearing, Igsspl
35	Ishika Pathak	D024/21	Hindalco, Muri, Daipl Chakan
36	Anshu Kumari	D098/21	Subros, Daipl Chakan
37	Ankita Mallick	D047/21	Subros, Daipl Chakan
38	Siddhi Kumari	DL21/22	Subros, Daipl Chakan
39	Ragni Kumari	D112/21	Subros, Daipl Chakan
40	Pallawee Mahto	D060/21	Subros, Daipl Chakan
41	Divya Kumari	D031/21	Subros, Daipl Chakan
42	Purnima Kumari	D063/21	Daipl Chakan
43	Puja Oraon	DL28/22	Subros, Daipl Chakan
44	Anisha Ekka	D049/21	Subros, Daipl Chakan
45	Nisha Kumari	D037/21	Subros, Daipl Chakan
46	Komal Oraon	D040/21	Daipl Chakan
47	Neha Rajshree Tirkey	D081/21	Subros, Daipl Chakan
48	Riya Kumari	D054/21	Subros, Daipl Chakan
49	Manit Kumar Sahu	D149/21	Igsspl
50	Ranjit Kumar	D023/21	Igsspl
51	Sahil Nayak	D064/21	Igsspl
52	Sunil Mahto	D008/21	Igsspl
53	Kuldip Das	DL13/22	Igsspl
54	Mahesh Pradhan	DL18/22	Igsspl
55	Abhijeet Toppo	D119/21	Igsspl
56	Vishal Kumar	D159/21	Subros



SL	NAME	ROLL NO.	Organization
57	Vivek Kumar	D012/21	Subros
58	Sushil Oraon	D103/21	Subros
59	Prity Kachhap	D138/21	Subros
60	Guru Gaurav	D050/21	Hindalco, Muri, Subros
61	Kashish Shrivastwa	D124/21	Hindalco, Muri, Subros
62	Aditya Prakash	DL16/22	Subros
63	Syed Sibtain Ahmad	DL27/22	Subros
64	Sweety Oraon	D034/21	Subros
65	Vivekanand Singh	D086/21	Subros
66	Stephee Xalxo	D011/21	Subros
67	Anand Kumar Ravi	D155/21	Subros
68	Suraj Kumar Das	D161/21	Subros
69	Prashant Bhuiyan	DL06/22	Subros, Igsspl
70	Abhimanyu Kumar	D051/21	Subros
71	Rima Kumari	D062/21	Subros
72	Amit Kumar Mahto	D065/21	Subros
73	Shilkesh	D117/21	Subros
74	Rohit Kumar	D130/21	Hindalco, Muri, Subros
75	Himanshu Mahto	DL01/22	Subros
76	Tannu Tirkey	DL03/22	Subros
77	Manish Kumar Mahto	DL09/22	Subros
78	Sandeep Bediya	D069/21	Subros
79	Anupam Khakha	D072/21	Subros
80	Vivek Dhan	D074/21	Subros
81	Ashish Amit Minj	D090/21	Subros
82	Aditya Gari	D109/21	Subros
83	Ankesh Hurduwar Munda	D110/21	Subros
84	Roshan Kumar Mahto	D114/21	Subros
85	Rohit Kumar Mahto	D115/21	Subros
86	Vikash Kumar	D154/21	Subros
87	Niranjan Kumar	D160/21	Subros
88	Deepak Kumar	DL05/22	Subros
89	Subham Kumar Karmali	DL26/22	Subros
90	Suraj Munda	D045/21	Subros
91	Ayush Kumar Singh	D080/21	Subros
92	Salathiel Malto	D092/21	Subros
93	Abhay Kumar	D156/21	Subros
94	Mukesh Kumar Mahto	DL08/22	Subros
95	Pankaj Kumar Mahto	DL12/22	Subros
96	Shiv Raj Karmali	DL14/22	Subros
97	Ritesh Puran	DL19/22	Subros
98	Zahid Anwar	DL20/22	Subros
99	Ajay Kumar Mahto	D035/21	Hindalco, Odisha, Subros
100	Ashok Kumar	D070/21	Subros



SL	NAME	ROLL NO.	Organization
101	Aniket Kerketta	D076/21	Subros
102	Utkarsh Ekka	D128/21	Hindalco, Muri, Subros, Lnt
103	Amit Kumar	D006/21	Subros
104	Aniket Kumar	D022/21	Subros
105	Md Faizan Raza	D056/21	Subros
106	Ajay Munda	D068/21	Subros
107	Ashutosh Toppo	D087/21	Subros
108	Tejash Kumar	D093/21	Subros
109	Mohit Kumar	D096/21	Subros
110	Chandan Oraon	D102/21	Subros
111	Shafi Mehran	D121/21	Subros
112	Ajay Kumar	D013/21	Mrs Bearing, Subros
113	Sumit Mondal	D139/21	Hindalco, Muri
114	Priya Kumari	D053/21	Gabriel India Ltd, Gurgaon
115	Riya Kumari	D123/21	Gabriel India Ltd, Gurgaon
116	Ritu Kumari	D061/21	Gabriel India Ltd, Gurgaon
117	Rima Kumari	D062/21	Gabriel India Ltd, Gurgaon
118	Stephee Xalxo	D011/21	Gabriel India Ltd, Gurgaon
119	Tannu Tirkey	DL03/22	Gabriel India Ltd, Gurgaon
120	Sweety Oraon	D034/21	Gabriel India Ltd, Gurgaon

**Company visited for placement:**

IGSSPL-Inalfa Gabriel Sunroof System Private Limited, Chennai

SubrosLtd,( Gurgaon), DA IPL Chakan (Pune), ACYM, Bhiwadi(Rajasthan), MRS Bearing(Gujrat),



Hindalco-Aditya Birla( Muri), L&T- Larsen & Toubro, Timken Ltd. (Jamshedpur), Tata Hitachi, (Dharwar), Gabriel India Ltd. (Gurgaon)

**7.4 Students Gone for Higher Studies for the last five years.**





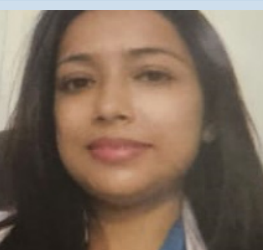

ROLL No.	NAME	ORGANISATION
D/087/20	Nitesh Kumar Singh	Iter, Bhubaneswar
D/037/20	Pranav Sharma	Jindal University
DI/037/21	Pintu Oraon	Bit, Sindri
DI/035/21	Mantosh Kumar Mandal	O P Jindal University
DI/001/21	Ayaan Hussain	Sarla Birla University
DI/12/21	Rishu Kumar	Synergy Institute Of Technology, Indore
D/025/20	Namrata Ekka	O P Jindal University
D/017/20	Ambika Mishra	O P Jindal University
DI/024/21	Nirupam Baxla	BIT, Sindri
DI/021/21	Vikash Kumar	O P Jindal University
D/076/20	Anisha Bharti	O P Jindal University
D/075/20	Priti Kumari	O P Jindal University

D/071/20	Mohit Kumar Shukla	Sarla Birla University
D/036/20	Simple Baraik	O P Jindal University
D/108/20	Abhishek Kumar Bedia	Bit, Sindri
D049/19	Shadab Sarwar	Jamia Milia
D112/19	Sakshi Arya	Ymc, Hariyana
D119/19	Shalvi Snehit	Ymc, Hariyana
D126/19	Anupriya Choudhary	Techno India University
D192/19	Shivani Kumari	Bit, Deoghar
DI11/20	Seema Kumari	Bit, Deoghar
DI15/20	Kishan Kumar Sah	Bit Sindri
DI11/20	Seema Kumari	Bit, Deoghar
D138/19	Manish Kumar	Sarla Birla University
D144/19	Manisha Sharma	Maryland Institute Of Technology And Management, Jamshedpur.
DI026/19	Abhijeet Nath Tandan	Ranchi University (Bca)
DI015/19	Aman Raj	Bit, Deoghar
D018/18	Arju Hasan	Rvs College Of Engineering And Technology
D136/18	Damini Kumari	Sarla Birla University
D154/18	Md Kaif	Cit Tatisilwai Ranchi-(B.tech)
D029/18	Nitish Rana	Ld College Of Engineering (Be)
D013/18	Praphul Kumar	Greater Noida Institute Of Technology
D111/18	Sumir Kumar Das	Cambridge Institute Of Technology Tatisilwai Ranchi
D036/18	Vishakha Gupta	Lovely Professional University (B-Tech)

## 7.5 Distinguished Visitors from Industry/Academia/Research/Govt./Non-Govt.organisations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
1	Mr. Ambalavanan Ranchandran Chief Employment Officer Employability Bridge, Chennai	07.03.2024	
2	Mr. Balasubramanian A DGM Operation, Inalfa Gabriel Sunroof Systems Pvt. Ltd. Chennai	07.03.2024	



Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
3	Mr. Dibyath Gautam, Founder of Exotic Fruits in Jharkhand	03.11.2023	
4	a) Mr. S D Singh, President of BIT Alumni, Heritage Ambassador of Rural Tradition of Indian Trust for Rural Heritage and Development Organization. b) Mr. Surendra Sahoo, Investor, Advisor, Philanthropist of Siksha Foundation (Ohio State University Chicago, Illinois, US)	23.02.2024	
5	Ms. Jyoti Agrawal, MBA with dual Specialization in Finance and Production from BIT, Mesra Ranchi. Awardee TECH-Entrepreneur-Nari year 2022-2023 of Jharkhand	23.08.2023	
6	Mr. Adarsh Agrawal, Director Comptroller of Audit General.	09.04.2024	
7	Dr Aarti Jyoti, MBBS (Gold Medalist), MD OBS and GYNE	19.03.2024	
8	Mr. Shankar Rao, Ex-President and COO, Thrively Los Angeles Metropolitan area. Presently Chief Operating Officer, (Center for Leadership, equity and research) Los Angeles, California, United State	23.02.2024	



## 7.6 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1	Sarita Kumari-D46/14	Principal, District Institute of Education & Training, Koderma, Govt of Jharkhand
2.	Gautam Kr Sahu-D 01/10	District Superintendent of Education, Latehar
3.	Kumar Budhiraj-D 84/07	Executive, SMS India Pvt Ltd Gurugram
4.	Kavita Bharti-D 153/18	Jr Engineer Team Leader, DA IPL Pune
5.	Mayank Pahan-D/02/2007	Sr Tech Lead, Nath Corp Pvt Ltd, Ranchi

## 8. Infrastructure Development.

- Two new electrical lab and two class room have been constructed in new Building for Electrical and Electronics Department.
- Seven number of LCD Projector (Make: Epson Model:Eb-X49) have been purchased on May 07, 2024.
- Three pieces of Online UPS 7.5 kVA, (Make: Uniline Model: Maxipower192) have been purchased on May 17, 2024.
- Forty-eight number of 65AH Batteries Exide (For UPS) has been purchased on May 17, 2024.
- One Digital Storage Oscilloscope (100MHz 1G S/S) has been purchased on July 08, 2024.
- One Soldering Reworks Station has been purchased on July 08, 2024.

## 9. Any other relevant information

- Dr Satish Kumar served as National level Reviewer to review the ideas/innovations under the INSPIRE Awards-MANAK for the year 2022-23 organized by National Innovation Foundation-India, Autonomous Body of Department of Science and Technology, Govt. of India.
- Dr Satish Kumar served as JURY MEMBER in State Level program INSPIRE AWARD MANAK SCHEME (Science exhibition) organized by Dept. of Science & Technology, Govt. of India and Education dept. at Ranchi on December 15, 2023.
- Dr Satish Kumar, delivered an Invited Lecture as a Resource Person in the People's Education Program organized by MSME, Government of India & IIC, BIT Mesra, Ranchi on March 4-5, 2024.
- Dr. Chhaya Yadav and Mrs. Mridula Pathak attended 3 days summer training programme on "Emerging trends and technologies in Library and Information centers" organized by BIT, Mesra Ranchi from June 19-21, 2024.
- Dr Sandhya Rani, President of BIT ladies Club, (Oct 2021 to November 2023).
- Dr Sandhya Rani, Jury member at Navodaya Vidyalaya in Regional level National Children Science Congress-2023 on Nov 29, 2023.
- Dr Sandhya Rani, Chief Guest at Surender Nath Centenary School on the occasion of World Youth Skill Day on July 15, 2024.
- Dr. Sandhya Rani organized Science Exhibition at Kishlay Vidya Mandir, Feb 12, 2024
- Dr Sandhya Rani delivered a lecture at Navodaya Vidyalaya, BIT Mesra, on the topic 'Role Model Interaction with the Students of Vigyan Jyoti' on July 29, 2023.

## 10. Special Initiatives, if any:

Release of second volume of e-Magazine "SPANDAN", Editor: Dr Satish Kumar, Co-editor: Dr Neeru Singh, Students Editorial Committee 1. Shivam Kumar, 2. Rohan Soni, 3. Piyush Kumar, 4. Aditya Kr. Gupta





## BIT DISPENSARY



The present BIT Dispensary is 20 bedded including 8 bedded two isolation wards fully functional Health Care Centre providing facilities to BIT Students, Faculties, their families and staff members & their families plus Villagers around the Campus. The Dispensary is functioning in all the 3 shifts (Round the clock 24x7) including Sunday & Holidays attending all OPD and IPD & Emergency Cases. Presently it is manned by 4 Allopathic & 1 Homeopathic Doctor put in shift/General shift and about 20 paramedical staff.

We have Dentist , Physiotherapist & psychiatrist as visiting specialist every week for health care service. The workforce, as per the need and work-

load is quite insufficient and we are in the process of appointing and adding up few more Doctors & Paramedics to give our services in a better way. The dispensary is functioning essentially as a primary health centre and patients who need specialized treatment or hospitalization are referred to multi specialty hospitals.

All students and staff members & their two dependent children are covered under Mediclaim policy by ICICI Lombard insurance .The Health Centre is equipped with 4 Ambulances, available in all the 3 shifts fitted with Oxygen Cylinders & first aid kits.

### Details of Dispensary Staffs

S.N	Medical officers	Contact No
1.	Dr. Mona Deepa	7763855564
2.	Dr. Anju Kumari	7319905831
3.	Dr. Madhu Pramanik	9546745091
	<b>Visiting Specialist</b>	<b>Specialization</b>
1.	Dr. Rishi Raj	Dentist
2.	Dr. Promod Kumar	Phsiotherapist
3.	Dr. Subhodh Kumar	Psychiatrist
	<b>Homeopathy Physician</b>	
1.	Dr. P.Mohanty	9430118376
	<b>Name of Pharmacist</b>	<b>Name of Store Keeper</b>
1.	Mr.A.K.Tarun	Mr.Rajeev Ranjan
2.	Mr.B.P.Yadav	
3.	Mr.Umesh Prasad	
	<b>Nursing Staff</b>	<b>X-Ray Technician</b>





## 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 the 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:
K21 – 64	K21 – 14	K21 – 50
K22 – 72	K22 – 10	K22 – 62
K23 - 65	K23- 13	K23- 52
Total Students – 201		

### 4. Achievements of NCC:

- 52 number of students cleared B certificate Exam 2024.
- 33 number of students cleared C certificate Exam 2024.
- 01 cadet from K21 SD – SUO Priyanshu attended and was also the Camp Senior of National Trekking Camp January 2024, - in Imphal.
- 01 cadet from K21 SW- SUO Aayushi Prasad awarded Commendation Card- Certificate of Excellence from ADGNCC Bihar and Jharkhand - Major General AS Bajaj in May 2024.

### 5. EVENTS CONDUCTED

#### ➤ Blood Donation Camp (17th July 2023)

In-Charge: SUO Aayushi Prasad (2021 batch) & UO Aakash Deep Singh Soodan (2022 batch)

THIS BLOOD DONATION CAMP CONDUCTED BY 3 JHAR CTC NCC PROVIDED AN OPPORTUNITY TO OUR CADETS AND CIVILIAN VOLUNTEERS TO LEND A SELFLESS HELPING HAND TO ALL THOSE WHO ARE FACING VARIOUS HEALTH AILMENTS





## ➤ International Yoga Day (21st June 2024)

In-Charge: SUO Aayushi Prasad (2021 batch) & SGT. AkashDeep Singh (2022 batch)



International yoga day is celebrated worldwide on June 21st each year, bringing people together to honour the ancient practice of yoga. This day serves as a reminder of the immense benefits that yoga offers for physical, mental, and spiritual well-being.

## ➤ Group Commander Brigadier VS Yadav Visit 23rd June 2023

No. of participants: 72

Batch- 2022

In-Charge: SUO Aayushi Prasad (2021) & UO Akash Deep Singh Soodan (2022)







➤ **Independence Day 15th August 2023**

Number of Participants: 135

Batches: 2021 and 2022

Parade Commander: SUO Aayushi Prasad (2021 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.



➤ **Swachh Bharat Abhiyaan 1st October 2023**

Cadets actively supported the Swachh Bharat Mission by wholeheartedly participating in the campaign and fulfilling their duties, contributing significantly to its goals.

No. of Participants: 30

Batches: 2021 and 2022





## ➤ 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: 2021 and 2022

Camp In-Charge: SUO Aayushi Prasad (2021 batch)



## ➤ Puneet Sagar Abhiyaan 21st January 2024

NCC cadets actively participated in the Puneet Sagar Abhiyaan, demonstrating their commitment to environmental conservation. This initiative helps cadets develop a sense of responsibility and teamwork while also contributing to cleaner water bodies and a healthier environment.

Number of participants: 50

Batches: 2022 and 2023

In-Charge: SUO Aayushi Prasad







➤ **Republic Day 26th January 2024**

Number of Participants: 120

Batches: 2021, 2022 and 2023

Parade Commander: SUO Aayushi Prasad (2021 batch)



➤ **Blood Donation Camp 2nd March 2024**

Number of Participants: 110

Batches: 2022 and 2023

In-Charge : SUO Aayushi Prasad (2021 batch)

NCC cadets enthusiastically participated in the blood donation camp, which was well-promoted across the campus. As a result, a large number of students and faculty members turned up for the event, showcasing their commitment to community service. This initiative not only helps cadets cultivate compassion and social responsibility but also contributes to saving lives through their donations.



## ➤ Women's Day and Free Health Check-Up Camp 9th March 2024

Number of Participants: 100

Batches: 2021, 2022 and 2023

In-Charge : SUO Aayushi Prasad (2021 batch)

On Women's Day, NCC cadets actively participated in a special event that included a session on women's health by doctors from Care and Care and Samford Hospital to educate cadets on important health issues. A free basic health check-up was also provided for all attendees. Additionally, all women doctors at the BIT Dispensary were honored by DAAC Dr. Sudip Das in recognition of their dedicated service.





## NATIONAL SERVICE SCHEME

### 1. Har Ghar Tiranga – 11.08.23

NSS, BIT Mesra organised a campaign 'Har Ghar Tiranga', that aimed at encouraging every household to proudly display the national flag of the country. The campaign signifies the spirit and importance of unity, pride and responsibility that defines a nation. Har Ghar Tiranga is an initiative that values and symbolises the shared aspirations and dreams that bind a diverse population together, reminding everyone of their duty to uphold and enhance the legacy of the country.



### 2. Panch Pran Pratigya – 11.08.23

On the auspicious event of Freedom Day, NSS executives and volunteers gathered not just as individuals but as a harmonised community bound by the essence of liberty and advancement. We at BIT Mesra stood strongly with the principles that our magnificent nation upholds – wisdom, ingenuity and solidarity.





### 3. Prabhat Pheri on Independence Day – 15.08.2023

NSS, BIT Mesra organised the event 'Prabhat Pheri' on the auspicious occasion of 'Independence Day'. All the students with volunteers including the president of NSS Mr. Dhruv Khandelwal helped in making the event more remarkable and memorable. After the successful ending the flag was hoisted at the Upper Lawn. The flag hoisting came to an end with an energetic parade performed by the NCC candidates. The energy and enthusiasm from the youth and parade made the day special for all of us. The NSS executives were there throughout the event and made the day remarkable for everyone.



### 4. Cleanliness drive- 02.10.2023

On 2<sup>nd</sup> October, 2023, NSS students at BIT Mesra took part in a Cleanliness Drive, where they joined hands together to clean the college campus. By their active participation, they were able to not only better the aesthetic appeal of the areas, but also promoted a sense of civic responsibility and duty towards the nation and society. It was an inspiration for all students to keep their surroundings clean for public health, as well as learn the values of teamwork, leadership and environmental awareness.



### 5. Blood Donation Camp- 04.11.2023

NSS BIT, MESRA had organised a Blood Donation Camp at the BIT Dispensary on 4<sup>th</sup> of November, 2023. The Camp was successfully conducted by the Chief Guest VC Indranil Manna and AGM Bikram Mishra of the Bank of India. Four hospitals Maa Rampyari, Raj, Medanta, Sevasadan in collaboration with the Blood Bank of India visited for the collection of blood. Students were checked if they were healthy to donate blood or not, and brought volunteers if they weren't.





### 6. Constitution Day- 26.11.2023

On 26<sup>th</sup> November, 2023, NSS BIT Mesra students gathered with the purpose of pledging allegiance to the principles enshrined in our Constitution's Preamble.



### 7. Prabhat Pheri on Republic Day – 26.01.2024

On the occasion of republic day, NSS, BIT MESRA organised Prabhat Pheri to enliven the spirit of patriotism and national pride. The students walked around the campus and cheered slogans.





## 8. Voting Awareness Drive- 05.03.2024

NSS, BIT Mesra conducted a compelling voting awareness drive on 5<sup>th</sup> March, which was committed to civic responsibility. They organised informative sessions and engaging activities to highlight the importance of voting.



## 9. Yog Diwas – 21.06.2024

NSS, BIT Mesra organised 'Yoga Day' on 21 June 2024. The goal of Yoga Mahotsav 2024 is to propel Yoga into a widespread movement, with a special emphasis on promoting women's well-being and advancing global health and peace. Many volunteers, Dean of Student Affairs and Dean of Post-Graduate Studies performed different Yoga poses. All the student volunteers including the executives helped in making the drive more remarkable and successful. The NSS executives were there throughout the event and made the event a successful one.







## ENVIRONMENT PROTECTION AND AWARENESS CLUB (EPAC)

**Faculty advisor:** Dr Neeta Kumari,  
Assistant Professor,  
Civil and Environmental Engg.  
**President:** Shivam  
BTECH/10363/21

### Introduction

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, improving 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.

### Annexure-VI: Format for Event Report Submission

#### NAME OF EVENT: JUNGLE JOUST

Organized under Program/ Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Room 233A , 231
Duration 1 Day	On 8th September 2023
No. of Student Volunteers	15
No. of Participants/ Beneficiary/etc.	200 participants
No. of Certificates/Award Distributions (If Any)	3 – First three winners.

### PHOTOGRAPHS/MEDIA(FB/Twitter/ LinkedIn/Press) REPORT (WITH LEGEND/ ABOUT PHOTOGRAPH):



Participants engaged in the match, striving for victory, fueled by determination and skill.



In the thrilling arena of competition, competitors engage in an electrifying match.

### DESCRIPTION:

In the thrilling arena of competition, competitors engage in an electrifying match, each displaying their prowess and resilience, captivating spectators with every move and strategy. In BGMI (Battlegrounds Mobile India), match rounds typically consist of players parachuting onto a large map where they scavenge for weapons, equipment, and resources while simultaneously evading danger from other players and a shrinking play zone. The winner of each match round is determined by the last player or team alive, earning them the coveted "Winner Winner Chicken Dinner" title.

## Annexure-VI: Format for Event Report Submission

### NAME OF EVENT: PLANTATION DRIVE

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Inner Hostels
Duration 1 Day	16th November 2023
No. of Student Volunteers	35
No. of Participants/Beneficiary/etc.	35 participants
No. of Certificates/Award Distributions (If Any)	N/A

### PHOTOGRAPHS/MEDIA (FB/Twitter/LinkedIn/Press) REPORT (WITH LEGEND/ABOUT PHOTOGRAPH):



On the occasion of Plantation drive EPAC Representatives conducting a plantation drive.



On the occasion of Plantation drive EPAC's general secretary Shivam presented a plant to the Club Faculty Advisor Dr. Neeta Kumari Ma'am.

### DESCRIPTION:

On the account of Plantation drive, EPAC organised tree plantation drive in the BIT campus to preen our campus with green. EPAC also encouraged BITians and their families to plant more trees in their living area to make it a point to live with other species in harmony rather than forcefully claiming their habitat.

### NAME OF EVENT: : JUMANJI 6.0

Organized under Program/Bodies/Club/etc.	Environment Protection and Awareness Club, EPAC
Venue/Place/Visit	Room no. 216, 217
Duration 1 Day	On 16th March 2024
No. of Student Volunteers	12
No. of Participants/Beneficiary/etc.	184
No. of Certificates/Award Distributions (If Any)	3- First three winners

### PHOTOGRAPHS/MEDIA (FB/Twitter/LinkedIn/Press) REPORT (WITH LEGEND/ABOUT PHOTOGRAPH):



A picture of club representatives during the event.



A picture of participants playing 1st round..

#### DESCRIPTION:

JUMANJI was a super exciting event that was organized during Bitotsav'24. BIT featured a variety of puzzles, games, and brain teasers designed to test your mental agility and critical thinking. It was a 4 round event. The first Round was the balloon and chair game. A balloon was filled and placed on

the chair by the participants and it had to be busted by sitting on it. Whoever bust the most qualifies for the next round. Then few clues were provided. According to the clue the 2nd round was started. The 2nd round consists of lemon and spoon game. The participants were given a lemon on the spoon and whoever finishes first gets the next clue for the 3rd round. The 3rd round consists of the glass pyramid game. In this round the pyramid was made from glasses and it was hit with a ball. The team that drops the most glass qualifies in the last round. The last round is puzzle solving round. In this participants had to solve the puzzle of Jumanji. That was a time based round. The teams were required to solve this puzzle faster to win the Jumanji title.



## Entrepreneurship Development Cell

Established in 2007, EDC is a launchpad for students ready to dive into the world of entrepreneurship. We empower future innovators, providing the expertise and connections with venture capitalists and angel investors to bring their ideas to life. But that's not all—EDC is where entrepreneurial spirit thrives. Through dynamic workshops, competitions, seminars, and engaging events, we create the perfect environment where innovation meets opportunity.

### Major Events :

**Inventor's Forge (August 2023):** A two-round event testing marketing and innovation skills. The first round, "Marketing Spin-Off," challenged teams to identify brands through logos and taglines. The event concluded with "Innovate-A-Thon," where participants developed product ideas for the agriculture sector.

**Marketing Maestro & The Marketers (October 2023):** An event focused on enhancing marketing skills through interactive sessions, workshops, and competitions. Led by industry experts, students tackled real-world marketing challenges, fostering creativity, strategic thinking, and practical application.

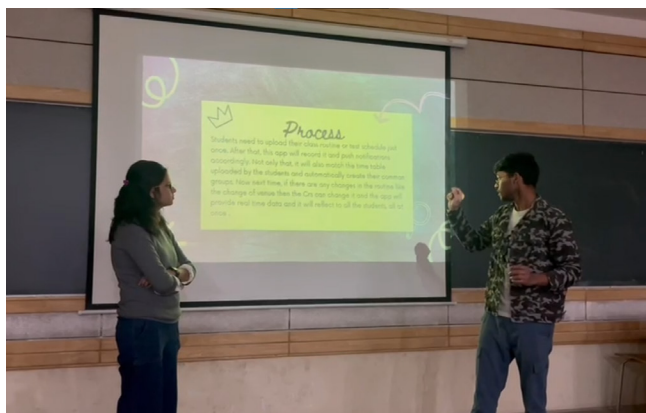
**E-Summit (January 2024):** A summit designed to foster innovation and entrepreneurship through workshops, panel discussions, and pitch sessions. Students gained insights into the startup ecosystem, engaged with industry leaders, and explored new business opportunities.

**Investor Hat & Fantasy Start (March 2024):** "Investor Hat" allowed participants to act as investors, analysing potential startups. "Fantasy Start" simulated the startup process, offering hands-on experience from ideation to pitching. Both events enhanced entrepreneurial and investment skills.

**Trading & Pitching Sessions (May 2024):** Students learned stock market fundamentals, real-time trading, and portfolio management. The pitching session honed entrepreneurial skills, focusing

on crafting compelling business pitches and understanding investor perspectives.

**LinkedIn Profiling & Cold Mailing (June 2024):** A workshop to build strong LinkedIn profiles and master cold emailing techniques. Students learned personal branding, networking, and strategic communication to enhance career opportunities.





## Special Features of Innovation @ BIT MESRA

Under the Chief Mentorship of our Honorable Vice Chancellor Prof. Indranil Manna, the Research and Development Cell under the Dean of Research, Innovation, and Entrepreneurship (DRIE) has been promoting and funding diverse innovation related activities for faculty members and students in BIT Mesra. The following list of Schemes, Grants, Policies, Competitions and Funding Support have actively been carried out in BIT Mesra.

1. Seed Money Scheme
2. Research Promotion Grant
3. Implementation of National Innovation and Start-up Policy
4. Funding Support for Startups under I & E promotion
5. Funding for Innovative Product Development
6. Business Plan Competition
7. BIT Nishan -Innovation Contest
8. Funding Support for Patents through IPR Cell
9. AICTE IDEA Lab
10. Entrepreneurship Development Cell (EDC)
11. Institution's Innovation Council- Numerous Innovation Activities

- **Seed Money Scheme**

Seed Money Scheme (SMS), sponsored by Birla Institute of Technology, Mesra, Ranchi, aims to promote research and innovation amongst newly joined young faculty. Seed funding scheme is to be used to initiate/continue the research work of the new faculty. The objective of the scheme is to develop cutting edge new innovative idea and to accelerate the possibility to receive the financial support from external agencies in future which may also help in publishing high quality papers in the least of the purpose. The

funding support under this scheme will be up to Rs. 5,00,000/- (for 2 years).

- **Research Promotion Grant (RPG)**

It is a fundamental duty of every Faculty of the university to carry out research work through sponsored project grants from various funding agencies, in addition to regular academic activities. In order to encourage the faculty to get projects and to appreciate their efforts, 30% of the overhead money from the sponsored project is allotted to the Principal Investigator for his/her own spending under the Research Promotion Grant (RPG) scheme. PI can use this RPG to attend conference, workshop, buy any minor equipment, Laptop, or send their own research scholars or students to any training for promoting innovation. If there are more than one investigator is involved in the project then 60% will go to the Principal Investigator, and remaining 40% will go to co-investigator. If there are more than 2 investigators are involved, then they can mutually decide their share as per their level of contribution, and inform the R&D cell for RPG fund distribution.

- **Implementation of National Innovation and Start-up Policy (NISIP)**

As per Ministry of Education's (MoE) mandatory requirement, every HEI is required to have NISIP for promoting student driven innovations & start-ups and to engage the students and faculty in innovation and start up activities in campus. In order to implement this requirement, BIT has created two policies: (a) Innovation, Incubation and Entrepreneurship policy, (b) Startup policy. These policies aims to build, streamline and strengthen the innovation and entrepreneurial ecosystem in campus and will be instrumental in leveraging the potential of student's creativity, problem solving and entrepreneurial mind-set, and promoting a strong intra- and





inter-institutional partnerships with ecosystem enablers and different stakeholders at regional, national and international level. These policies provide a framework and facilitates students and faculty to take-up innovation and entrepreneurship activities along with their academic activities.

- **Funding Support for Startups under I & E promotion**

There is a dedicated funding support for creating a sustainable environment to promote student and faculty members to create a new startup. This policy will lead the academic ecosystem at Institute with excellence through new innovative idea, new product development, Institute-Industry relation, employability, along with social responsibility. In this policy the funding support providing Rs. 50,000 per startup (up to 10 startups) under Innovation & Entrepreneurship (I&E) promotion.

- **Funding Support for Innovative Product Development**

There is a separate funding ear marked for converting any innovative idea of a faculty into a product. Under this funding scheme, faculty can apply for funding with their proposal which will be evaluated by an expert committee through many iterations of discussions and presentations. Finally, if the faculty's proposal is found suitable and recommended by the committee then they will be funded to create their innovative product. This funding support is open throughout the year.

- **Business Plan Competition**

The Institution's Innovation Council (IIC-BIT Mesra as per MoE) organizes a "Business Plan Competition" every year in the months of August and September. This business plan competition aims to identify the innovative entrepreneurial bent of mind of BIT students in different domains of business and allied disciplines where they present their business idea plans. In this event

students will showcase their innovative business plan idea and present their idea in front of Jury members. The Business plan event is a Pre-Qualifier event of BIT -NISHAN -an innovation contest. In this business plan competition students will get financial support of Rs 10,000 for up to 15 teams for initial market survey expenses and to make a prototype product and demonstrate their innovation product in the final round of BIT NISHAN.

- **BIT NISHAN -Innovation Contest**

BIT NISHAN is an Innovation Contest where NISHAN stands for Neoteric-Indigenous-Scientific-Harmonious-Ambitious-Novel. BIT-NISHAN aims to identify potential startup-idea and to ensure that no idea from BIT with the potential to excel shall go unnoticed and untested due to lack of opportunity, resources and capital. BIT NISHAN event will help to promote the culture of entrepreneurship & innovation amongst students and faculty in BIT. This event's major goal is to draw angel investors while also encouraging innovation and entrepreneurship among students from other underfunded colleges in Jharkhand. Students who participate in this innovation competition will get Rs. 1 lakh (One Lakhs) funding to help them create their innovative product and register their new startup company for implementation and commercialization for their product.

- **Funding Support for Patents through IPR cell**

BIT has established a dedicated Intellectual Property Rights Cell to promote patenting activities amidst students and faculty. This cell organizes training, workshops, brain storming discussions, interaction with Patent Attorneys on regular basis in the campus. A dedicated funding support is also provided for registration and processing of patent applications from faculty and students, throughout the year.



### ● AICTE IDEA Lab

BIT has established a dedicated Lab called AICTE – IDEA (Idea Development, Evaluation and Application) Lab funded by both AICTE and BIT. This lab is available for students around 24x7. This IDEA lab encourages students to practically apply Science, Technologies, Engineering and Mathematics (STEM) fundamentals towards enhanced hands-on experience i.e., learning by doing. A dedicated Faculty Coordinator is managing this lab and its fund along with a dedicated student's team. Under this facility, many advanced instruments and software are procured, and is available freely to all students. This lab also provides training, hands on practical knowledge, and expert interaction to both students from BIT and from outside BIT as well as from schools.

### ● Entrepreneurship Development Cell (EDC)

The Entrepreneurship and Development Cell (EDC) at Birla Institute of Technology, Mesra, operates under the esteemed guidance of the Dean of Research Innovation and Entrepreneurship. The EDC is dedicated to fostering an entrepreneurial spirit among students by cultivating a culture of innovation and creativity. Its primary aims are to inspire young minds to explore their entrepreneurial potential, providing them with the resources and support needed to turn their ideas into successful ventures. Additionally, the EDC focuses on increasing its market presence to establish itself as a leading brand in the entrepreneurial landscape. Through strategic initiatives, workshops, and networking opportunities, the EDC strives to build a strong, recognizable platform that encourages collaboration, showcases entrepreneurial achievements, and drives meaningful impact within the BIT community and beyond.

### ● Institution's Innovation Council

#### ➤ VISION

To create a vibrant local innovation ecosystem and start-up supporting mechanism in BIT. Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework. Establish Functional Ecosystem for Scouting Ideas and Pre-incubation of Ideas. Develop better Cognitive and Design Thinking Ability for Technology Students.

#### ➤ FUNCTIONS

1. To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
2. Identify and reward innovations and share success stories.
3. Organize periodic workshops/seminars/interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
4. Network with peers and national entrepreneurship development organizations.
5. Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
6. Organize Hackathons, Idea Competition, Mini Challenges etc. with the involvement of industries.

### Numerous Innovation Activities

BIT Mesra organizes numerous Innovation related activities funded under Institution's Innovation Council. BIT Mesra conducted events regularly at each quarter as per the mandatory requirement of Ministry of Education Innovation Cell, New Delhi. A total of 51 events were conducted during July 2023 to June 2024. Details of events are mentioned below.

## IIC-ACTIVITIES


SI No.	Description	Total
1	IIC Webinar, Workshop & Event Conducted	52

SI No.	Name of The Event	Date	Evidence
Event List			
1	<p>G20-S20 Poster Exhibition titled "Disruptive Science for Sustainable Development"</p> <p>This poster exhibition was inaugurated by His Excellency Shri C.P. Radhakrishnan, Honorable Governor of Jharkhand. Chief Minister of Jharkhand Shri Hemant Soren also visited this exhibition.</p>	15th July 2023.	
2	<p>Seminar on Robotics, Tech &amp; Entrepreneurship by Mr. Rohit Anand, Founder &amp; CEO, ROSA TECH Pvt. Ltd, Jamshedpur and Mr. Saket Anand, Co-Founder ROSA TECH Pvt. Ltd, provided a transformative experience for participants, offering a glimpse into the future of technology and its intersection with entrepreneurship.</p>	12th August 2023	





Sl No.	Name of The Event	Date	Evidence
3	Independence Day'23 Celebration Activities (a) Painting competition (b) Dance and singing competition and (c) Extempore.	15th August, 2023	
4	ATL Mentee School Students Lab Visit by Institution's Innovation Council (IIC) BIT Mesra. School 1: DAV Gandhi Nagar Ranchi School 2: DAV Hehal Ranchi School 3: Jawahar Navodaya Vidyalaya Mesra Ranchi	18th August 2023	
5	Innovate-A-Thon Product Development Innovate-A-Thon aimed at product development and pushing the participating teams to their limit to innovate and thus apply their knowledge to solve real world problems. The total 10 teams were participated for this Innovative product development.	19th August 2023	

Sl No.	Name of The Event	Date	Evidence
6	World Entrepreneurship Day Startup Quiz Competition Institution's Innovation Council BIT Mesra in collaboration with EDC organized Startup Quiz competition on the occasion of world Entrepreneurship Day.	21st August 2023.	
7	VERVE'23 Society for Industrial Management and Engineering, unfolded as a captivating and motivating event, leaving an indelible impact on all in attendance.	25th August 2023	
8	“Web 3.0 Technology and Opportunity of Startups in Blockchain Space” by Mr. Abhishek Sagar, the visionary CEO of Zuraverse; Mr. Arpan Mondal, the trailblazing CEO of MegaVerse DeFi, and Mr. Subham Surana, the ingenious Founder of DEVs Dungeons.	26th August 2023	





Sl No.	Name of The Event	Date	Evidence
9	Chandrayaan-3 Mahotsav Event organized Institution's Innovation Council BIT Mesra Ranchi in collaboration with Rocketry and Space Engineering Department BIT Mesra Ranchi organized the Chandrayaan-3 Mahotsav in G.P. Birla Auditorium of BIT Mesra, Ranchi, Jharkhand.	4th- 8th Sep 2023	
10	Internal Hackathon for Smart India Hackathon, BIT Mesra, Ranchi-23 Total 32 teams registered for the event. Each team was given a 15-20 mins for presentation and then evaluated (Max Marks-50) based on the presentation skills (10), Tools and Methodology (10), Novelty (20) and Implementation (10).	28th -29th Sep 2023	
11	Expert Talk on "Research Areas of Polymer in Defense Sector" by Dr. Debdatta Ratna, Scientist GNMRL, DRDO organized by Department of Chemical Engineering, BIT Mesra in collaboration with Institution's Innovation Council (IIC-BIT)	9th Oct 2023	



Sl No.	Name of The Event	Date	Evidence
12	<p>“Business Plan Competition Pre-Qualifier event of BIT NISHAN”</p> <p>Institution’s Innovation Council (IIC-BIT) in association with Finance Club (FC) &amp; Entrepreneurship Development Cell (EDC) are organized a “Business Plan Competition” -23</p>	14th Oct 2023	
13	<p>Celebration of Institution’s Innovation Day (Dr APJ Abdul Kalam Birth Anniversary)</p> <p>15th October 2023</p>	15th Oct 2023	
14	<p>Amrit Kaal Vimarsh Vikasit Bharat @2047</p> <p>Expert Talk on “Innovation and Next Practices in Agritech.”</p> <p>by Dr. Rahul Mirchandani CMD, Aries Agro Limited, Mumbai.</p>	30th Oct, 2023	



Sl No.	Name of The Event	Date	Evidence
15	Exhibition Cum Workshop on “Employment Generation Scheme to Start your Own Business Through Technological Intervention” Chief Guest- Mr. Rajiv Malhotra, Assistant Director, KVIS	30th Oct. 2023	
16	Workshop on “Entrepreneurship & Innovation as a Career Opportunity” by Mr. Amitesh Anand CEO, Flocard-366 Pi Technologies.	2nd Nov 2023	
17	Celebration of “National Entrepreneurship Day” Seminar on Sustainable Entrepreneurship: Nurturing Innovation for a Better Future” by Mr. Vishal H. Shah Associate Dean, AIR & EDC Coordinator	9th Nov 2023	





Sl No.	Name of The Event	Date	Evidence
18	IIC-BIT Mesra Organized Field Visit to Data Centre, Jharkhand Police, Police Headquarter, Ranchi	17th Nov 2023	
19	'Eco-Innovation: From ISM to Yale and Beyond' Drawing Lessons from Academic Excellence to Drive Sustainable Change by Mr. Bipul Mayank, Senior Consultant Deloitte	23rd Nov 2023	
20	Seminar on My Story- Motivational Session by SPIC MACAY Founder by Prof. Kiran Seth, Professor Emeritus, IIT Delhi & Founder SPIC MACAY	29th Nov 2023	



Sl No.	Name of The Event	Date	Evidence
21	Celebration of National Pollution Control Day'23 Institution's Innovation Council, BIT Mesra in collaboration with Horizon Honda, organized Two-Wheeler Pollution Control Certification Camp on occasion of National Pollution Day Control held on 2nd December 2023 in BIT Mesra Campus.	2nd Dec 2023	
22	Expert Talk on Geospatial Instruments and Applications Achieving Problem – Solution Fit and Product – Market Fit by Mr. Peter Pallos Regional Manager, Teledyne Optech, Canada	6th Dec 2023	
23	Workshop On "Research to Patentable Invention: Driving Innovation at various stages of Technology Readiness Level" by Mr. Vedant Pujari, Accures Legal, Founding Partner & Mr. Shashank Raj, Patent & Design, Accures Legal	11th Dec 2023	



Sl No.	Name of The Event	Date	Evidence
24	Viksit Bharat@2047 Utsav Institution's Innovation Council, BIT Mesra (IIC-BIT), organized launching of Viksit Bharat@2047 Utsav on 11th Dec. 2023 at CAT Hall BIT Mesra Ranchi. Honorable Prime Minister Shri Narendra Modi ji had launched Viksit Bharat@2047 Utsav: Voice of Youth' through video conferencing.	11th Dec. 2023	
25	BIT NISHAN -23 Innovation Contest Institution's Innovation Council (IIC-BIT) in association with Entrepreneurship Development Cell (EDC) and Finance Club (FC) are organized an Innovation Contest named as BIT-NISHAN-23. Total 7 Teams shortlisted out of 32 Teams. Prize Money Supporting (1 Lakhs Rupees each team)	15th Dec 2023	
26	Celebration of National Energy Conservation Day (India) Institution's Innovation Council, BIT Mesra (IIC-BIT), organized a celebration of "National Energy Conservation Day (India)" on 14th December 2023 from 10:00 am onwards in CAT Hall, Birla Institute of Technology, Mesra, Ranchi.	15th Dec 2023	



Sl No.	Name of The Event	Date	Evidence
27	<p>“Inter School Chemistry Quiz Contest-2023 Department of Chemistry, BIT Mesra in collaboration with Institution’s Innovation Council (IIC-BIT) &amp; STEMED EDVOICATIONS OPC PVT Ltd, Bhubaneswar has organized One-day “Inter School Chemistry Quiz Contest-2023,”</p>	16th Dec 2023	
28	<p>Institution’s Innovation Council Regional Meet Ministry of Education Innovation Cell &amp; All India Council of Technical Education, New Delhi has organized an Institution’s Innovation Council “Regional Meet” at Sister Nivedita University Kolkata on 12th Jan 2024.</p>	12th Jan 2024	
29	<p>National Youth Day’24 Institution’s Innovation Council, BIT Mesra (IIC-BIT) in collaboration with Value Education Cell &amp; Vivekanand Study Circle organized a celebration of “National Youth Day on 12th Jan 2024. from 10:40 am onwards in CAT Hall, Birla Institute of Technology, Mesra, Ranchi.</p>	12th Jan 2024	



Sl No.	Name of The Event	Date	Evidence
30	Seminar on Investor Startups Trader Stocks Money by Mr. ABHISHEK KAR Entrepreneur Business Strategist & Renowned Youtuber, New Delhi	20th Jan 2024	
31	ENIGMA'24 A National Level Technical Case Study Competition The Finance Club in collaboration with the Institution's Innovation Council BIT Mesra conducted "ENIGMA"-24 on 20th Jan 2024 at R&D Building, Seminar Hall-1 BIT Mesra	20th Jan 2024	
32	Workshop on Intro to Web 3 Smart Contract Deployment Entrepreneurship Skill, Attitude and Behaviors Development by Mr. Shahnawaz Khan Block Chain, NFT's Developer	21st Jan 2024	





Sl No.	Name of The Event	Date	Evidence
33	Workshop on “Designing Indigenous Material and technologies for Self-Reliant India” Design Thinking, Critical Thinking and Innovation Design by Bipin Kumar Gupta Principal Scientist, New Delhi.	21st Jan 2024	
34	E-Summit'24 Organized by Entrepreneurship Development Cell in Collaboration with Institution Innovation Council BIT Mesra Ranchi.	26th Jan to 28th Jan 2024	
35	Expert Talk on Director's cut Unveiling the Entrepreneurial Journey by Mr. Akshay Maker, Founder & CEO, Climatedenza Solar & NetOlink Organized by Entrepreneurship Development Cell in Collaboration with Institution Innovation Council BIT Mesra	27th Jan 2024	



Sl No.	Name of The Event	Date	Evidence
36	Expert Talk on Entrepreneurial Elevation: Dialogues with Industry Pioneers by Mr. Pawan Kumar Rai, Co-Founder @Ditto Insurance Organized by Entrepreneurship Development Cell in Collaboration with Institution Innovation Council BIT Mesra	27th Jan 2024	
37	Start-up Mela Institution's Innovation Council (IIC-BIT), in collaboration with the Entrepreneurship Development Cell (EDC), organized "Startup Mela" on 27/01/2024 and 28/01/2024. This competition was a dynamic event centered around startup pitching, providing a vibrant platform for aspiring entrepreneurs to showcase their innovative ideas and products.	27th Jan to 28th Jan 2024	
38	Expert Talk On Innovator Insight: Fireside Chats by Mr. Vatsal Kanakiya CEO at 100x.Vc Organized by Entrepreneurship Development Cell in Collaboration with Institution Innovation Council BIT Mesra	28th Jan 2024	





SI No.	Name of The Event	Date	Evidence
39	The National Science Day Celebration'24 Celebration Theme "Indigenous Technologies for Viksit Bharat". Chief Guest Dr. Sunil Sinha Professor Director Civil and Environmental Engineering, Virginia Tech. USA	28th Feb 2024	
40	लोक शिक्षण कार्यक्रम People's Education Programme "For creating awareness among the targeted beneficiaries & employment generation scheme for starting your own business" Chief Guest Mr. Rajiv Kr. Malhotra, Assistant Director, KVIC Ranchi	4th & 5th March 2024	
41	International Women's Day Celebration Institution's Innovation Council, BIT Mesra (IIC-BIT), organized a celebration of Women's Day on 8th March 2024 from 3:00pm to 7.30 pm in CAT Hall, Birla Institute of Technology, Mesra, Ranchi.	8th March 2024	

Sl No.	Name of The Event	Date	Evidence
42	<p>Inauguration of SEMICONDUCTOR MANUFACTURING FACILITY- Viksit Bharat @2047</p> <p>With the support of AICTE, Institution's Innovation Council BIT Mesra, Ranchi has organized a Live Streaming of Inauguration of Semiconductor Manufacturing Facility by Honorable Prime Minister of India, Sri Narendra Modi on 13th March from 9.30 am to 11.30am.</p>	13th March 2024	
43	<p>ANVESHAN'24 Exhibition Cum Technical Fest</p> <p>Institution's Innovation Council (IIC-BIT) Birla Institute of Technology, Mesra, Ranchi in collaboration with University Polytechnic organized exhibition cum technical fest ANVESHAN'24 on the theme of "Science and Technology for upliftment of society"</p>	14th March 2024	
44	<p>Celebration of "World Happiness Day"</p> <p>Organized by AICTE, MoE Innovation Cell, New Delhi, through online WebEx platform.</p>	20th March 2024	



SI No.	Name of The Event	Date	Evidence
45	Two-Day workshop On "Prototype/Process Design & Development" A two-day workshop was organized under the calendar activity of Institution Innovation Council (IIC-BIT) in collaboration with AICTE IDEA lab of BIT Mesra. The topic of the workshop was Prototype/Process Design & Development"	5th & 6th April 2024	
46	One-Day Workshop on 'Innovation & Intellectual Property Rights (IIPRs) by Mr. Rahul Prakash, National Innovation Foundation (NIF) – India, Bhubaneshwar & Mr. Shantanu Braj Choubey, Assistant Professor, National University of Study and Research in Law Organized by Institution's Innovation Council, BIT Mesra (IIC-BIT)	15th April 2024	
47	Competition on "How to Plan for Start-up and Legal & Ethical Steps" Institution's Innovation Council (IIC-BIT) organized a competition on "How to Plan for Start-up and Legal & Ethical Steps" on 18th April 2024 at Seminar Hall -2 R& D Building, BIT Mesra, Ranchi.	18th April 2024	





Sl No.	Name of The Event	Date	Evidence
48	Celebration of "World Creativity and Innovation Day" Institution's Innovation Council (IIC-BIT) in collaboration with AICTE IDEA (Idea Development, Evaluation & Application) LAB organized a celebration of "World Creativity and Innovation Day"	21st April 2024	
49	Two-Day Poster Exhibition On "Patent Technology Innovative Product" Organized by Institution's Innovation Council, BIT Mesra (IIC-BIT), related to Patent Innovative Product Developed by faculty members BIT Mesra on 23.04.24 & 24.04.24 at R&D Building Seminar Hall-2, BIT Mesra, Ranchi.	23rd April to 24th April 2024	
50	Celebration of National Technology Day'24 Institution's Innovation Council, BIT Mesra (IIC-BIT), organized a celebration of National Technology Day'24 on 08.05.24 at CAT Hall BIT Mesra Ranchi. The theme of the day was "From School to Startup- Igniting Young Minds to Innovate" Total 12 School Participated and 45 Prototype Technology Model has been displayed during this event.	08th May 2024	



Sl No.	Name of The Event	Date	Evidence
51	<p>Expert Talk on "Startup Support &amp; Initiative Technology Transfer"</p> <p>Institution's Innovation Council BIT Mesra organized Industry Expert Talk in association with Software Technology Parks of India</p>	20th May 2024	
52	<p>Celebration of WORLD ENVIRONMENT DAY' 2024</p> <p>The theme of this celebration was "Our Land, Our Future - We are # Generation Restoration".</p> <p>Organized by Institution's Innovation Council BIT Mesra, Ranchi on 5th June 2024.</p>	5th June 2024	



## Institute Clubs

### List of events in session in 2023-24

1. Har Ghar Tiranga
2. Panch Pran Pratigya
3. Prabhat Pheri
4. Cleanliness Drive
5. Blood Donation Camp
6. Constitution Day
7. Republic Day
8. Voting Awareness Drive
9. International Yoga Day

### Achievements :


1. Highest record of collecting blood units in this year's Blood Donation Camp with the support of volunteers as well as involved blood banks staffs. Record was 400+ units.
2. Our 3 NSS Volunteers went to attend the NIC Camp which is held once in a year and is considered very much for presidential awards for 1 week.








UNESQUO




# UNESQUO



UNITED ENGINEERS' SPEAKING AND QUIZZING ORGANISATION

UNESQUO is critically acclaimed for hosting quality events which set examples and are indeed a class apart. Its competitions attract the brightest minds, where participants showcase their mastery in eloquence, rhetoric, and quick thinking. The organization's commitment to fostering intellectual growth has solidified its reputation as the pinnacle for those seeking to excel in these disciplines.




### OUR EVENTS

Genesis'23  
The Pantheon Quiz  
What If?  
Shipwreck  
Chandrayaan Mahostav Quiz  
BITMUN'24  
The Bitostav Quiz  
Story in a Bag  
True Lies

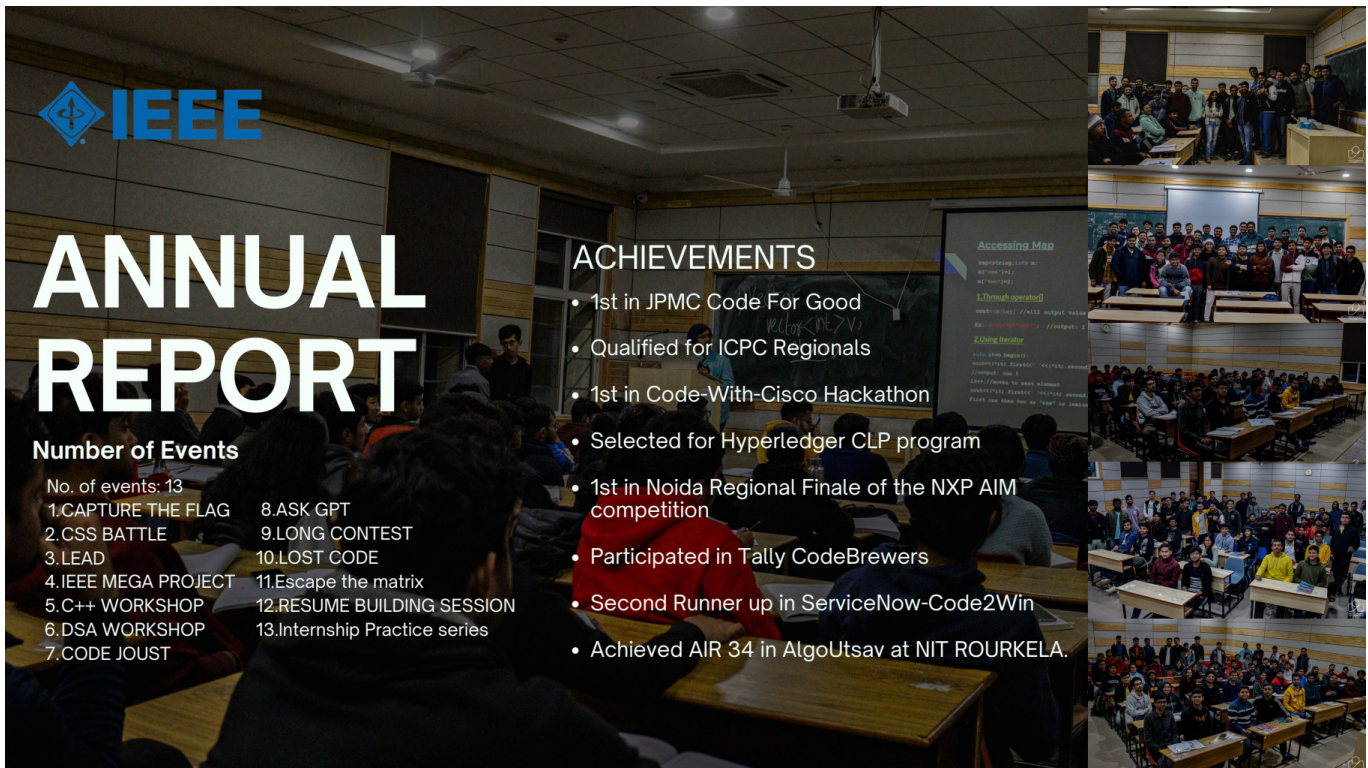
### OUR ACHIEVEMENTS

Antragni'23 - Awards in 8 events  
Kurukshetra, NUSRL - 4 Awards  
XIGYASA 3.0 - 2 Joint 2nd prizes  
IIT BBSR MUN'24 - Award in 1 Event  
IIT KGP MUN - Award in 1 Event  
IIIT Guwahati MUN - Judge for 1 event  
Mood Indigo, IITB - Award in 1 Event

IEEE



# ANNUAL REPORT



### ACHIEVEMENTS

- 1st in JPMC Code For Good
- Qualified for ICPC Regionals
- 1st in Code-With-Cisco Hackathon
- Selected for Hyperledger CLP program
- 1st in Noida Regional Finale of the NXP AIM competition
- Participated in Tally CodeBrewers
- Second Runner up in ServiceNow-Code2Win
- Achieved AIR 34 in AlgoUtsav at NIT ROURKELA.

### Number of Events

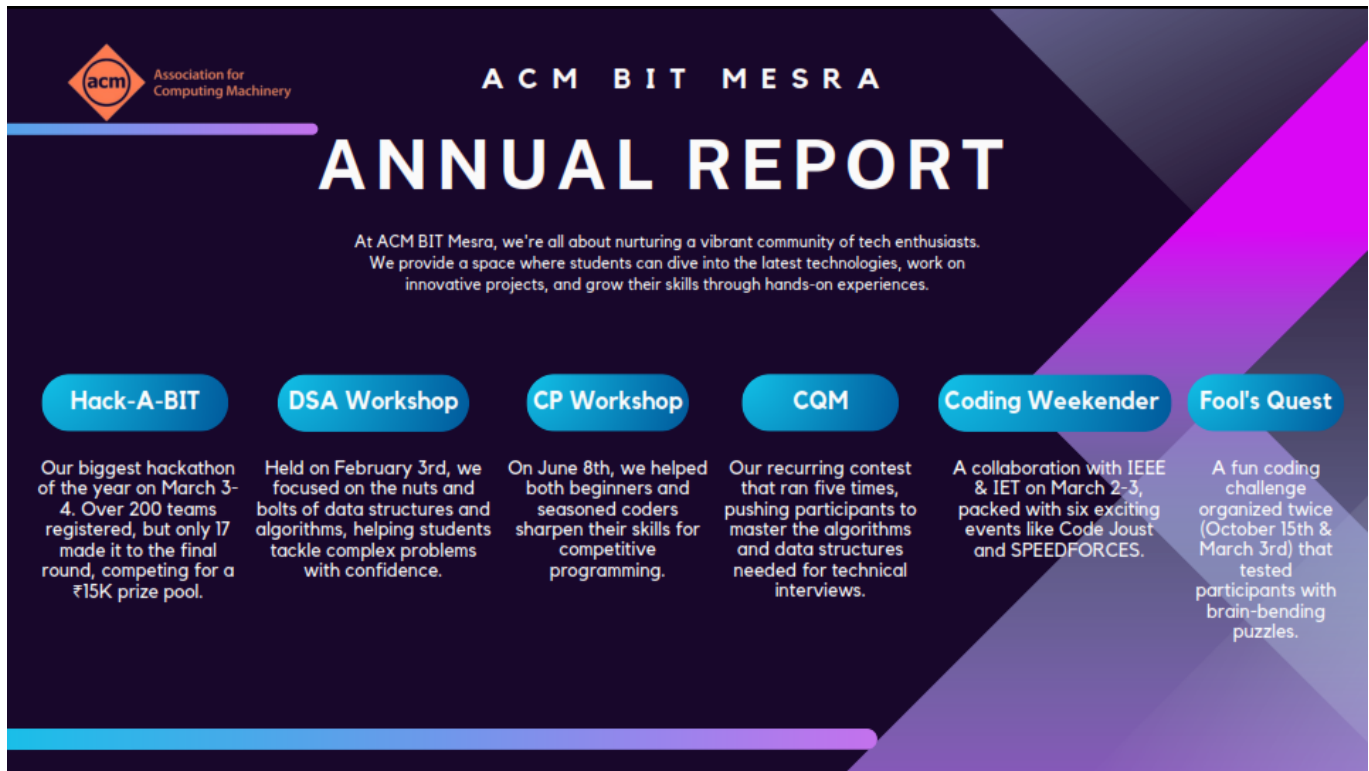
No. of events: 13

1. CAPTURE THE FLAG	8. ASK GPT
2. CSS BATTLE	9. LONG CONTEST
3. LEAD	10. LOST CODE
4. IEEE MEGA PROJECT	11. Escape the matrix
5. C++ WORKSHOP	12. RESUME BUILDING SESSION
6. DSA WORKSHOP	13. Internship Practice series
7. CODE JOUST	





## ACM



**acm** Association for Computing Machinery

# ACM BIT MESRA

# ANNUAL REPORT

At ACM BIT Mesra, we're all about nurturing a vibrant community of tech enthusiasts. We provide a space where students can dive into the latest technologies, work on innovative projects, and grow their skills through hands-on experiences.

**Hack-A-BIT**

Our biggest hackathon of the year on March 3-4. Over 200 teams registered, but only 17 made it to the final round, competing for a ₹15K prize pool.

**DSA Workshop**

Held on February 3rd, we focused on the nuts and bolts of data structures and algorithms, helping students tackle complex problems with confidence.

**CP Workshop**

On June 8th, we helped both beginners and seasoned coders sharpen their skills for competitive programming.

**CQM**

Our recurring contest that ran five times, pushing participants to master the algorithms and data structures needed for technical interviews.

**Coding Weekender**

A collaboration with IEEE & IET on March 2-3, packed with six exciting events like Code Joust and SPEEDFORCES.

**Fool's Quest**

A fun coding challenge organized twice (October 15th & March 3rd) that tested participants with brain-bending puzzles.

## IETE



**IETE** THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

# IETE BIT MESRA

**About us**


The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognised professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT.

**MAJOR EVENTS AND FOOTFALL**

1) HACKTOBERFEST	-	200+ Participants
2) DETECTIVE DAVID	-	120 Participants
3) CONNECT-O-THON	-	100 Participants
4) TOWER TUSSLE	-	100 Participants



SAC









**SPORTS & ADVENTURE CLUB**

Sports and Adventure Club of Birla Institute of Technology Mesra, Ranchi is organized and established to promote and develop the interests and skills of members in sports-related activities. We organise some of the amazing events in sports as well as for the mentorship program in college fests and conducts online events which usually has a reach to large number of participants

**MAJOR EVENTS**

75+	→	Xerolag
120+	→	Futsal'23
90+	→	Valgrind
30+	→	KICK-OFF
30+	→	Twinkle of Nostalgia
100+	→	Chess

@ f in sac.bitm

SPIC Macay






SPICMACAY (Society for the Promotion of Indian Classical Music And Culture Amongst Youth) is a vibrant community dedicated to celebrating and preserving India's rich classical traditions. Our club passionately promotes Indian classical music, dance, and art forms, offering a platform for enthusiasts to experience and engage with the profound cultural heritage of India. We goal is to allow people us to explore, learn, and appreciate the timeless beauty and depth of the classical arts.

Events & Footfalls

1. Sanskriti (quiz on Indian Culture) - 230	3. Virasat - 320+
2. Samiksha (Classical movie review competition) - 30	5. String-a-song - 70+
4. Abhivyakt (Online Art competition) - 35	7. Musical Charades - 65+
6. Vimarsh (Literary reading circle) - 35	8. Cycle with Spic Macay - 60+





Dhwani

**Major Events & Footfall**

- LIVE JAM (50+)
- NAAD'24 (100+)
- MUSIC IN A MINUTE (80+)
- JOVIAL JINGLES (50+)
- MUSIC WORKSHOPS (180+)

**Achievements**

- First in Unplugged at Kashi'yatra 24
- Second in Battle of Bands at Kashi'yatra 24
- First in Solo Instrumental at Springfest 24
- First in Battle of Bands at IIM Ranchi
- First in Battle of Bands at XISS
- Third in Unplugged at Antaragni 23

LitSoc

July'23 - July' 24

**THE LITERARY SOCIETY**

The Literary Society is not just a group of literary enthusiasts but a comfortable niche for zealots who appreciate literature in all its forms, regardless of the language, genre, or art form. Throughout the year, the club organizes many events that provide a rostrum to students to showcase their talent. The club has made its presence felt at national events as well.

**Events & Footfall**

- Rostra (250+)
- Litnight(200+)
- Kavi Sammelan (100+)
- Symposium (25+)
- Vaak Yudh (25+)
- Mic Drop (100)
- Secret Santa (300)
- Thespian (40)
- Kalam-e-e-Tahir (50+)
- Story Box (50+)
- A book a minute (30+)

**Achievements**

- Soamya Parashar secured 1st position in the event 'Madhurima' at IIT BHU.
- Mouli Banerjee secured 2nd position in the event 'Legend of Sir Speak-a-lot' at IIT BHU.
- Ayush Raj secured 3rd position in the event 'Madhurima' at IIT BHU.
- Ayush secured the 1st position in the Young Poets Competition "Kavyoday" organized by Sahityoday Sanskar Bharti, Ranchi.
- Sparsh Anand secured the 3rd position in the Young Poets Competition "Kavyoday".





LEO



The Leo Club, BIT Mesra, as the student branch of the Lions Club International, offers students a platform to take initiative, drive social change, and cultivate responsibility and teamwork. It's the shared belief in leadership, service, and making a positive impact that unites students from 140 countries worldwide into a close-knit, supportive community. In the year 2023-2024, the Leo Club hosted several engaging events. From bringing light to the campus through Deepotsav to spreading warmth with Orphanage visit and organising captivating events like Squid Game and Murder Mystery, the club has created moments that left a lasting impact.

DEEPOSAV

The flagship event, Deepotsav, by the club witnessed an overwhelming footfall of over 3,000 students. The vibrant celebration saw attendees grooving to the beats and immersing themselves in the festive spirit. The event truly captured the essence of the season, leaving everyone with joyous memories.



MURDER MYSTERY

Murder Mystery, the biggest treasure hunt-style competition ever held during Pantheon, attracted a huge participation of 250 teams. Students eagerly solved tech and wit-based clues, testing their detective skills in a thrilling challenge. This event stands as a testament to the continued innovation by LEO in its event offerings.



THE VIRAL FEVER

The Viral Fever saw 120 teams battle it out, testing their wits and knowledge of the latest trends across traditional and social media. It was an electrifying event that kept everyone on the edge of their seats.



MR AND MISS PANTHEON

Mr. and Miss Pantheon, a fun fashion show event, tested participants on confidence, style, and tech-savviness. In the thrilling finale, finalists walked the ramp and faced tough questions from the judges, adding flair and excitement to Pantheon.



ORPHANAGE VISIT AND COLLECTION DRIVE

Our flagship social event, Orphanage Visit, showcased the college community's dedication to our motto, "Working for a Cause Always." LEO volunteers spearheaded a major door-to-door collection drive, gathering essential items across campus. These donations were delivered to the Guru Nanak Dev Home for Handicapped Children, embodying our commitment to making a difference.



THE SQUID GAMES

In one of the most eagerly anticipated events, Leo hosted Squid Games, inspired by the record-breaking Netflix series. Contestants faced thrilling challenges that captured the essence of the show, marveling at Leo's creative simulation of the game-like experience. With a staggering 250 teams participating, the event was a thrilling spectacle of excitement and competition.

SIME

SOCIETY FOR INDUSTRIAL MANAGEMENT AND ENGINEERING (SIME)

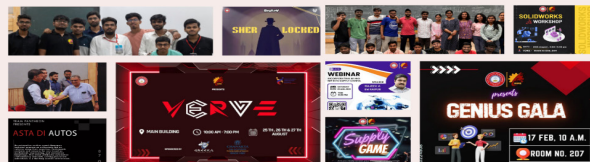
SIME which stands for "Society for Industrial Management and Engineering," is a dynamic technical club at Birla Institute of Technology, Mesra. It has been dedicated to fostering a deep understanding of industrial management and engineering principles among students and professionals. SIME serves as a platform for members to engage in activities that bridge the gap between theoretical knowledge and practical application in the fields of industrial engineering and management. It also aims to provide a platform for students and professionals interested in these areas to collaborate, learn, and innovate together.

EVENTS ORGANISED BY SIME -

- 1.SIME successfully conducted its technical fest named Verve - 2023 with 2 workshops , fun events and a case study with a total participation of more than 550 students.
2.SIME conducted two events during PANTHEON -2023 - ANVIL by SIME and "ASTA DI AUTOS" in collaboration with Team Srijan
3.SIME also conducted an innovation based event named "GENIUS GALA" where participants presented their ideas.
4.SIME also conducted an event in BITOTSAV-24 named "SHERLOCKED" and it is successfully ended with participation of more than 50 + teams .

PROJECTS COMPLETED BY SIME MEMBERS -

- 1.A project on "Air flow Analysis of Supercar" by Debanshu Banerjee
2.A project on "Bike Sharing demand Analysis using ML" by Saday Kumar Samanta
3.A project on "Handwritten Digit Classification using Machine Learning" by Vivek Kumar
4.A project on "Unveiling Key Sales Drivers: A Powerful BI Approach to Maximize Growth Opportunities Across Regions, Products, and Segments" by Ashish Nehra





## NAPS

**ACHIEVEMENTS**

- Khushii Mathur won 1st place at Connoisseur Formal Trophy at Zonal NASA Convention at Gitam University, Vizag.
- Anushka Maiti (BARCH/10011/22) has been elected as the Unit Secretary of z409, National Association of Students of Architecture, India.
- Alisha Mariyam Hussain won gold in freestyle, backstroke, breaststroke, butterfly and relay race at Bakipore club 15th annual swimming competition.
- Anant Chahal won in the singles and doubles categories of the Mumbai station open badminton championship organised by the Western Naval Command of the Indian Navy.
- Adrija Thakur won the National Poetry Slam Competition held by Quill Quest Publication in association with the author Mr. Ajay K. Pandey.
- Aryan Raj and Ambuj Mishra were the winners of Asian Parliamentary Debate at NUSRL, Ranchi.
- Himaghna Roy was the 2nd Runner Up at Asian Parliamentary Debate at NUSRL, Ranchi.

**JULY'23 - JULY'24**

The News and Publication Society is the pulse of campus life, keeping everyone in the loop about the latest happenings. From breaking college news to covering global issues, we're your go-to source. As the institute's official communication bridge between the administration and students, we make sure your voice is heard and the news you care about gets out there.

**EVENTS WE CONDUCT**

- JournoBlitz
- Teleriff
- The Journalist's Hour
- We The Bitians
- Logo Making Competition

**NEWS AND PUBLICATION SOCIETY, BIT MESRA**

## Photographic Society

**Psoc boasts a remarkable assembly of skilled photographers. We hold responsibility for curating inclusions, collections, and after films for events such as BITOTSAV and PANTHEON. Covers for various events of administration, departments and batch photography come under the wings of the Photographic Society. Our club provides numerous opportunities to propel the craft and study of photography forward. We organize a diverse array of both within the institute and on individual basis, offering the students a platform to showcase their talents.**

### EVENTS

- 1 **NO OF WORKSHOPS: 03**
- 2 **BPW: 78 APW: 47**
- 3 **YULE ENTRIES: 43**
- 4 **YAADEIN ENTRIES: 25**
- 5 **NO. OF MEMBERS: 68**
- 6 **NO. OF PHOTOWALKS: 06**

**"Making a bold statement without words since '64."**





## FINE ARTS SOCIETY

Fine Arts Society, the Art Club of Bit Mesra with the most creative and aesthetic minds, is aimed at fostering art and craft skills among the students as well as connecting people who share an ardent zeal for art and craft across the campus. Being design team of **PANTHEON** - the technical fest and **BITOTSAV**- the cultural fest, we are committed to adorn the campus and enliven the ambience.



### OUR REMARKABLE EVENTS:

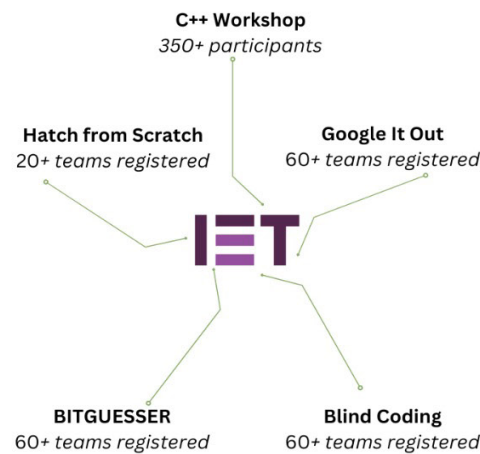
<b>BITOTSAV'24-WALL ART</b> 20+ MEMBERS	<b>BITOTSAV'24-STAIRCASE AND DECORATION</b> 25+ MEMBERS	<b>PANTHEON'23-BANNER AND STAIRCASE</b> CLUB MEMBERS
<b>SPECTRA'23</b> 70+ PARTICIPANTS	<b>CHARGAL &amp; WATERCOLOR WORKSOPS</b> 90+ PARTICIPANTS	<b>DEEPTOSAV'23</b> 20+ MEMBERS



IET ON CAMPUS, BIT MESRA IS THE ARM OF THE INSTITUTION OF ENGINEERING AND TECHNOLOGY, A GLOBAL ORGANIZATION INSPIRING, INFORMING AND INFLUENCING THE ENGINEERING COMMUNITY.

WE TEND TO LEARN AND IMPLEMENT NEW TECHNOLOGIES TO DRIVE INNOVATION. WE ARRANGE INTERACTIVE WORKSHOPS OF EVERY SOUGHT AFTER TECH-FIELD ALONG WITH THE INTERESTING TECHNICAL EVENTS. THE IET ON CAMPUS, BIT MESRA HAS BEEN AN ARDENT SUPPORTER OF THIS CAUSE, WITH ITS INDEFATIGABLE EFFORTS TO DELIVER INFORMATION TO THE MASSES ABOUT THE LATEST CUTTING EDGE TECHNOLOGIES AND SCIENTIFIC ADVANCEMENTS. AT THE SAME TIME, WE TRY TO STIMULATE AND ROUSE INNOVATION AND CURIOSITY IN THE MINDS OF STUDENTS.

## MAJOR EVENTS



## ACHIEVEMENTS

- National Winner (Code With Cisco'24)
- National Winner (JP Morgan's Code For Good'24)
- Top 75 in HackOnWithAmazon S4 on UnStop Round 1
- Second Runner-up in (ServiceNow Women Code to Win Hackathon 2024.)
- SST's National Coding League Regional Semifinals Runner Up
- National Coding League Scaler 2.0 prize Rs 100000
- Hard Hack (Robolution,BIT MESRA)
- Second at Speedforces Coding Weekender
- Third in Tech-a-thon (ECESoc)
- NXP AIM Regional (NOIDA) finale winner



# FIREBOLT RACING

FIREBOLT RACING is BIT Mesra's official off-road team, driven by 15 years of legacy. Undergrad auto enthusiasts fuel their passion for speed, creating All-Terrain Vehicles for BAJA SAE, the world's largest amateur off-road racing championship. Members span various engineering streams.

## ACHIEVEMENTS

### BAJA SAE INDIA 2024

**1<sup>ST</sup>**

SALES PRESENTATION

**4<sup>TH</sup>**

OVERALL STATIC

OC CHOICE  
AWARD

BAJA DIARIES  
CHALLENGE

**5<sup>TH</sup>**

COST PRESENTATION

**12<sup>TH</sup>**

ENDURANCE

## EVENTS

**BAJA 2024** : We engaged in Baja SAE India, a competition where engineering students manufacture ATV for diverse challenges. Firebolt Racing, a team of passionate automotive enthusiasts from varied engineering disciplines, fulfills their ATV ambitions.

**ATV Showcasing** : On 8th August, our workshop welcomed Lt. Col. Prakash Raut, faculty advisors, and professors. He inspected our ATV, proposed converting it into a two-seater with enhanced load capacity, and invited us to Defense Expo from 6th-8th September. The visit concluded with an inspiring group photo session.

**Pitstop** : The Pitstop event at BIT Mesra's Pantheon Technical Fest sounds exciting! It's great to see such a hands-on, competitive event that mirrors the high-stakes environment of Formula One racing. With over 300 participants, it's sure to be a highlight of the fest.

**AutoCAD workshop** : Team Firebolt Racing had organised its first offline workshops of the season on "Basic Automobile and CAD" which covered a vast diaspora of concept on automobile.





## DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

(1) The Final match of Inter Hostel Football Tournament played between Hostel No. 13 and 07 on 08.11.2023. Hostel No. 07 won the championship. Chief guest Hon'ble Vice Chancellor Dr. Indranil Manna of BIT Mesra distributed the prizes.



(2) BIT Mesra Institute Team Participated in Sports Fest UDGOSH at IIT Kanpur from 06<sup>th</sup> October to 08<sup>th</sup> October 2023. Team participated in four disciplines.

Sl No.	Institute Team Name	Member
1.	Football	14
2.	Basketball	10
3.	Powerlifting	01
4.	Athletics	01
5.	Coach	01
Total Member's		27

(3) BIT Mesra Institute Football Team Participated in East Zone Inter University Football (Men) Tournament 2023 – 24 at Calcutta University from 01.11.2023 to 08.11.2023.



(4) BIT Mesra Institute Basketball Team Participated in East Zone Inter University Basketball (Men) Tournament 2023 – 24 at V. B. S. P. University (UP) from 16.12.2023 to 20.12.2023.



(5) Badminton open tournament was held in the month of September 2023.

(6) Cross country race was organized on 20.01.2024 at sports complex.



(7) Weightlifting championship 2023-24 was organized on 24/01/2024.



## Boys Category

51 Kg – 59 Kg		Roll No.	59 Kg – 66 Kg		Roll No.
1.	Harsh Kumar	BTECH/10156/2022	1.	Ashish Samanta	BTECH/10194/2022
2.	Abhishek Akash	BTECH/10981/2023	2.	Kumar Lavanya	BTECH/11012/2023
3.	Vishal Kumar	BTECH/10591/2021	3.	Kumar Kushagra	BTECH/10456/2023
66 Kg – 74 Kg			74 Kg – 83 Kg		
1.	Chirag Suchadeva	BTECH/10766/2022	1.	Yash Vardhan	BTECH/10747/2022
2.	Anish Kandir	BTECH/10480/2021	2.	Nikhil Kumar	BTECH/10192/2023
3.	Namit Ranjan	BTECH/10851/2022	3.	Sujeet Kumar	BTECH/10375/2021
83 Kg – Above					
1.	Sahil Kumar	BTECH/10084/2023			
2.	Mayank Mishra	BTECH/10008/2021			
3.	Jatin Sharma	BTECH/10422/2022			

Strongmen of BIT Mesra ----- Mr. Yash Vardhan BTECH/10747/2022

## Girls Category

49 Kg – 61 Kg		Roll No.	61 Kg – 80 Kg		Roll No.
1.	Anshu Nagduwar	BTECH/10050/2021	1.	Aditi Shreya	BTECH/10052/2021
2.	Tanu Tirkey	BTECH/10745/2022	2.	Mahima Minz	BTECH/10162/2022
3.	Sanjana Kumari	BTECH/10014/2022	3.	Bipasha Chaudhary	BTECH/10005/2022

(8) The Final match of Inter Hostel Basketball Tournament played between Hostel No. 08 and Hostel No. 09 on 30.01.2024. Hostel No. 09 winner and Hostel No. 08 Runner's - up. Chief guest Dr. Seshadev Padhi (Ex- Examination Controller) distributed the prizes.



(9) The Final match Inter Hotel Cricket Tournament played between Hostel No. 07 and Hostel No. 03 on 04.02.2024. Hostel No. 03 winner and Hostel

No. 07 runners up. Chief guest Dr. Gautam shandilya distributed the prizes.

(10) 36<sup>th</sup> Annual Athletic Meet held from 09<sup>th</sup> February to 11<sup>th</sup> February 2024.



Shreyaa 2k22 Batch (ICH/10001/22) declared Individual Champion amongst Girls and overall champion in Girls Section 2k22 batch.

Individual Champion amongst Boys Arvind



Bhagat Hostel No. 01 (BTECH/10135/23) and Overall, Champion Hostel No. 07 was declared. Active Vice Chancellor Dr. Sudip Das (Dean Admission) distributed the prizes to the winners.

- (11) Inter Hostel Table Tennis Tournament 2023-24 was held on 03.03.2024 Hostel No. 11 & Hostel No. 6 at sports complex. Hostel NO. 11 won by 3/0 sets in this tournament.



- (12) Inter Hostel Basketball Tournament 2023-24 was held on 04.03.2024 Hostel No. 11 & Hostel No. 10 at sports complex won 12 points hostel 11 won the final match.



- (13) 31<sup>st</sup> Chetan Devraj Memorial East Zone Inter Technical Intuitions Cricket Tournament 2023 - 24 organised from 06/03/2024 to 10/03/2024. Seven teams took part in the tournament. NIFFT Ranchi, BIT Lalpur, BIT Mesra, BIT Patna, Usha Martin University, Sarla Birla University Ranchi, and BIT Deoghar opening chief guest Mr. Shabir Hussain and Sachin.

Winner-up – BIT Mesra, Ranchi

Runner-up – Sarla Birla University

Man of the Match – Harsh

Man of the Series– Pritam

Chief Guest – Pradeep Khanna (Ranji Trophy Players)

Dr. Bhaskar Karan Dean of Student Affairs distributed the prizes.



- (14) Participating in SANGRAM 2024 at IIT Roorkee was held on 29<sup>th</sup> March to 31<sup>st</sup> March 2024. Cricket and table tennis events.

- (15) Badminton Final Open Tournament 2023 -24 was organized from 09.4.2024. inaugurated by Dean of students affairs BIT Mesra Ranchi on 02.9.2023.



## Value Education Cell

### Conducted following activities

1. Conducted Students Induction Program (SIP) during 01<sup>st</sup> Sep to 22<sup>nd</sup> Sep 2023 in which around 1000 newly admitted UG and PG students of MO 2023 session participated actively. During the Induction Program students were introduced to the Ethos and Culture of the Institute and were imparted information on Academic Programs & Academic Activities, **Infrastructure Facilities**, Examination & Assessment Procedure, Internship & Placement, Entrepreneurship, **Career Development** & Prospects, Library & Online Resources, Security in Campus, Health & Daily Routine and Various Student Activities. The students were also exposed to various aspects of personal well-being such as Importance of yoga in mental health and happiness, aspects of uncertainties in life and coping mechanism through self-management, socio-environment sensitiveness, and Importance of extracurricular activities in self-management.





2. Celebrated Teachers Day on 05<sup>th</sup> Sep 2023



3. Celebrated National Youth Day on 12 Jan 2024



4. Organized a workshop along with Vivekanand Study Circle (VSC) on the theme of “**Enhancing the Power of Performance**” on 20 Feb 2024 aiming to help the research scholars to re-visit themselves and know their own blind spots and boundless potentials.



## 1. Weekly Meetings

Conducts weekly meetings in collaboration with the Vivekanand Study Circle (setup on 12 Jan 2023) with the following aims:

1. Propagate the ideals of Swami Vivekanand to help imbibe strength of mind, knowledge, character and spiritual values in daily living. This will help create awakened citizens.
2. Arouse the infinite vigor of our students to make worthwhile contributions in national development by deeply pursuing Study, Research, Innovation and Entrepreneurship.
3. Help students achieve work life balance to lead a happy life and create a happy society.



## राजभाषा प्रकोष्ठ



बिरला प्रौद्योगिकी संस्थान में विश्वविद्यालय अनुदान आयोग के मार्च 2021 के पत्र में दिए गए निर्देशानुसार राजभाषा प्रकोष्ठ की स्थापना की गई तथा 30 जून, 2021 को राजभाषा कार्यान्वयन समिति का गठन किया गया। कुलपति डॉ. इंद्रनील मन्ना के आदेश द्वारा राजभाषा प्रकोष्ठ का गठन किया गया है। नव गठित प्रकोष्ठ की सलाहकार समिति में विश्वविद्यालय के विभिन्न विभागों के सदस्यों को सम्मिलित किया गया है, जिसके अध्यक्ष माननीय कुलपति श्री इंद्रनील मन्ना हैं। वहीं संस्थान के कुल सचिव इस समिति के कार्यकारी सदस्य हैं। डॉ. अमित कुमार तिवारी, प्रकोष्ठ के कार्यान्वयन समिति के सदस्य सचिव हैं। राजभाषा अधिनियम 3.3 के अनुसार दस्तावेजों को हिन्दी में परिवर्तित किए बिना राजभाषा अधिनियम का अनुपालन संभव नहीं है। भारतीय संविधान में भी हिन्दी को राजभाषा का पद दिया गया है।

राजभाषा प्रकोष्ठ वेबसंगोष्ठी, हिन्दी सॉफ्टवेयर का प्रशिक्षण, हिन्दी पखवाड़ा आदि कार्यक्रम नियमित रूप से करता रहा है। राजभाषा प्रकोष्ठ द्वारा छात्र-छात्राओं को हिन्दी के प्रति सम्मान और दैनिक व्यवहार में हिन्दी के उपयोग करने आदि की शिक्षा दी जाती है। जिसमें हिन्दी निबन्ध लेखन, वाद-विवाद, हिन्दी टंकण प्रतियोगिता आयोजित की जाती है। वर्ष 2023 में राजभाषा प्रकोष्ठ द्वारा हिंदी दिवस के अवसर पर बिरला प्रौद्योगिकी संस्थान, मेसरा में डॉ० नीरज कुमार सिंह (सहायक प्राध्यापक एवं समन्वयक) के सहयोग से लिटरेरी सोसाइटी के साथ संयुक्त रूप से हिंदी पखवाड़ा का आयोजन किया गया।

बिरला प्रौद्योगिकी संस्थान के अन्य ऑफ कैम्पस लालपुर, जयपुर, पटना,

देवघर, नोएडा में भी हिन्दी दिवस पर विभिन्न आयोजन किए गए। इस अवसर पर प्रतियोगिता में कविता, व्याख्यान, हिन्दी प्रयोग, नारा लेखन आदि प्रतियोगिताओं में विजयी विद्यार्थियों को पुरस्कार वितरण भी किया गया। राजभाषा प्रकोष्ठ द्वारा 4 दिन का हिन्दी पखवाड़ा 11 सितंबर से 14 सितंबर, 2023 तक धूमधाम से मनाया गया। इस वर्ष हुए कार्यक्रम का विवरण अधोलिखित है।

1. तिथि 11 /09 /2023 - संध्या 6-7 :30 बजे - मुख्य अतिथि (डॉ. पंकज मित्र, वरिष्ठ साहित्यकार) और बिरला प्रौद्योगिकी संस्थान के अधिकारियों, कर्मचारियों की उपस्थिति में आयोजित किया गया।
2. तिथि 12 /09 /2023 - संध्या 6 -7 :30 बजे – बिरला प्रौद्योगिकी संस्थान के कर्मियों के बच्चों (कक्षा 1 - 12 तक के विद्यार्थी) एवं संस्थान के छात्र छात्राओं द्वारा कवि सम्मेलन और हिन्दी सुलेख आदि कार्यक्रमों का आयोजन किया गया।
3. तिथि 13 /09 /2023 - संध्या 6 -7 :30 बजे - बिरला प्रौद्योगिकी संस्थान के कर्मियों के बच्चों (कक्षा 6 - 12 तक के विद्यार्थी) और संस्थान के छात्र छात्राओं द्वारा परिच्छेद लेखन एवं प्रश्नोत्तरी आदि प्रतियोगिताएं संपन्न कराई गयीं।
4. तिथि 14 /09 /2023 - संध्या 6 - 7 :30 बजे – समापन समारोह

संपन्न हुआ जिसमें मुख्य अतिथि (श्री सुदीप्त चक्रवर्ती, वास्तुविद्), सम्मानित अतिथि (श्री रणेन्द्र कुमार, सेवानिवृत्त, आई. ए. स. अधिकारी एवं जन – जातीय कल्याण शोध संस्थान, रांची के निदेशक) द्वारा “हिन्दी भाषा: महत्व, प्रसार एवं प्रासंगिकता।” विषय पर उद्बोधन, बिरला प्रौद्योगिकी संस्थान के अधिकारियों व कर्मचारियों द्वारा वर्ष में हिन्दी में किये गए उत्कृष्ट कार्य के लिए प्रमाणपत्र वितरण किया गया।

इस वर्ष हिन्दी प्रकोष्ठ में कुछ नए सदस्य भी समाहित किये गए और 29 से 30 मार्च 2024 तक ‘अभियांत्रिकी एवं विज्ञान में नव प्रवृत्तियों पर अंतर्राष्ट्रीय सम्मेलन-2024’ (आर. टी. ई. एस.- 2024) का आयोजन कराया गया जिससे हिन्दी प्रकोष्ठ के उद्देश्य में एक और आयाम जुड़ गया। सम्मेलन का मुख्य उद्देश्य दुनिया भर से विज्ञान और अभियांत्रिकी के क्षेत्र में काम कर रहे शोधकर्ताओं और वैज्ञानिकों को एक साथ लाकर अपना कार्य प्रस्तुत करना और विचारों का आदान-प्रदान करना था।

राजभाषा प्रकोष्ठ समय-समय पर संस्थान के समस्त विभागों, कार्यालयों के अधिकारियों, प्राध्यापकों और कार्मिक व्यक्तियों को राजभाषा अधिनियम के अनुसार कार्य करने की सलाह देता है, साथ ही वेबसंगोष्ठियों द्वारा उन्हें शिक्षित भी करता है।



## Training and Placement

The Campus Recruitment Programme of BIT has been strengthening and nurturing value-added relationships with recruiters across a wide spectrum of industries over the years. Every year new milestones are achieved which speak for the strength of the BIT student community as well as the diversity in academic programmes. One of the key factors which bring BIT into limelight, as an institution of high repute, is its campus recruitment.

In the Campus Recruitment Programme of 2023-24, around 179 recruiters from different sectors visited for full time recruitment and internship, achieving an overall target of 607 job offers.

The Mesra campus boasts an average package of INR 12.09 lakhs per annum and the highest national salary of INR 52.00 lakhs per annum for BTECH Programme.

### List of Company and Number of Offers (Full Time)

Table below shows the student placed in various companies.

Company Name	BArch	BPharm	BTech	IMSc	MBA	MCA	MPharm	MSc	MTech
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						











Company Name	BArch	BPharm	BTech	IMSc	MBA	MCA	MPharm	MSc	MTech
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		



Recruiter Name	2 months	6 months	11 month
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	



Recruiter Name	2 months	6 months	11 month
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







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), Watsr, 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 System, (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. Printed Circuit Board (PCB), (LPKF PCB), Germany.
- 50. Ellipsometer (Se MG-VIS) Nano View Inc., Korea
- 51. Machine Fault Simulator (MFS2010), Spectraquest Inc., USA
- 52. BET Surface Area Analyser, Quantachrome Instruments, USA
- 53. Rheometer (MCR320), Anton Paar, Austria
- 54. Tribometer (TR 705), Ducom Instruments, Bangalore
- 55. Microwave Digester (Multiwave 5000), Austria

- 56. 3D Printer (FDM; F170 System), Stratasys, USA

### New Facilities added or major equipment procured:

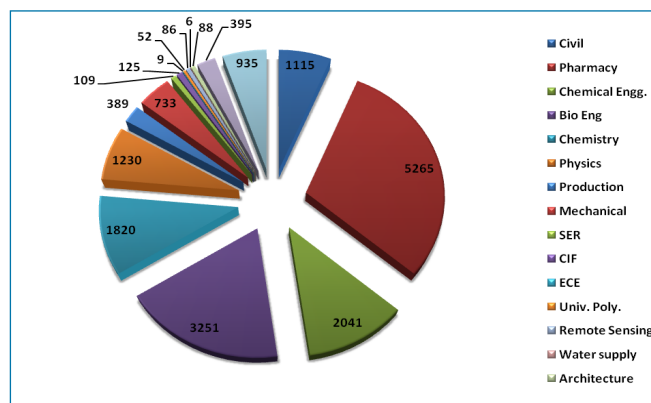
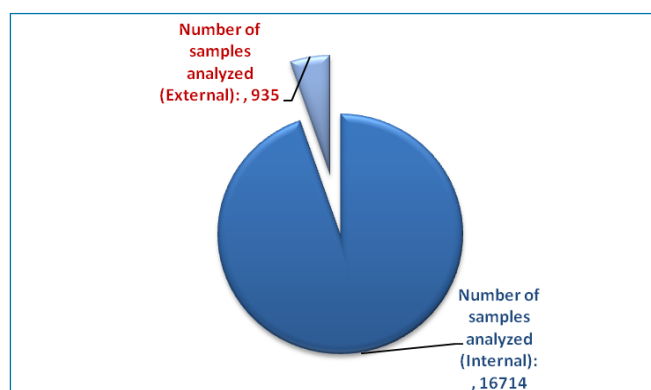
- (i) CHNSO Analyzer (Vario EL Cube), Elementar, Germany.



### New facility or major equipment under process:

- i) Powder XRD
- ii) GCMSMS
- iii) Gas Analyzer

### Total Number of Samples Analyzed (1<sup>st</sup> July 2023 to 30<sup>th</sup> June 2024):





### Outside Academic/Research/Industry used the CIF Facility :

Waxpol Industries Ltd., H. B. Road, Butty, Ranchi, BIT Sindri, Dhanbad, Central University of South Bihar, IIT (ISM) Dhanbad, Teerthanker Mahaveer College, Moradabad, Univ. of North Bengal, NIT, Patna, IFTM University, Moradabad, UP, CUJ, Ranchi, ADAMAS University Barasat, Kolkata, Ranchi University, BAU, Ranchi, SRM College of Pharmacy, SRMIST, Chennai, IASST, Guwahati, Paschim Boragaon, Garchuk, VSS University of Technology, Burla, Sambalpur, CIPT& AHS Banitabla Uleberia Howrah, Amity Institute of Technology, Ranchi, NIT Jamshedpur, School of Chemical Technology Kalinga Institute of Industrial Technology Campus 11, Patia, Bhubaneswar, BitChem Asphalt Technologies Limited, 9th Mile, Baridua, Meghalaya, Dental College, RIMS, Ranchi, Chaibasa Engg. College, RKDF University, Ranchi, NIAMT, Ranchi, The University of Burdwan, West Bengal, Vinoba Bhave University Hazaribag, CSIR-National Metallurgical Laboratory, Jamshedpur, CTR & TI, Piska Nagri, Ranchi, M.M College of Pharmacy, Mullana, Ambala, Jharkhand University of Technology, Ranchi, Centurion University of Technology and Management, Paralakhemundi, Gajapati District, Odisha, CIT, Ranchi, Mahatma Gandhi Central University, Motihari (Bihar), KKS Women's College, Balasore, Odisha, Radha Raman Engg. College, Bhopal, Circular Road, Near SBI, Lalpur, Ranchi, St. Xavier's College, Ranchi, Scientist, (Agriculture Structure & Process Engg.) ICAR- National Institute of Secondary Agriculture Namkum, Ranchi, Bengal College of Pharmaceutical Sciences & Research, Durgapur, West Bengal

### Hands-on Training Programs and Sessions conducted:

#### 1) Summer Internship Program on Sophisticated Analytical Instruments (May 15 to July 14, 2023)

Summer Internship Program on Sophisticated Analytical Instruments has been introduced in

Central Instrumentation Facility (CIF) for the first time from May 15 to July 14 2023. The Program has been divided into six sections and a section coordinator was assigned to each section. The list is given below.

S.No.	Section	Coordinator
1.	Advanced Microscopy	Dr. A.K. Singh
2.	Spectroscopy and Thermal Analysis	Dr. S.K. Saw
3.	Chromatography and Mass Spectrometry	Mr. R. Prasad
4.	Water and Waste Water Analysis	Dr. S.K. Swain
5.	X-Ray Diffraction	Dr. N. Yadav
6.	Mechanical and Rheological Analysis	Mr. S.K. Pradhan

Total 64 Applications were received. Out of 64 applicants 14 students were selected for the program. The programme was inaugurated by Dr C. Jeganathan Dean (Research, Innovation and Entrepreneurship), BIT Mesra, Ranchi on May 15, 2023 at Seminar Hall, Department of Chemical Engineering.







During the Program Theory Lectures were also organized for interns. Expert lectures were given by Dr. R K Dey, Central University of Jharkhand, Dr. Manish Kumar, Dr. A K Sen, Dr. K Kumar, Dr. Rajeev Kumar, Dr. S K Dhua, Dr. Gautam Sarkhel, Dr. Narendra Yadav, BIT Mesra. All of the lectures were followed by visit to the respective sections; thereby interns were also exposed to sections of the CIF other than their own domain. The Valedictory function of the program was held on July 14, 2023 at Seminar Hall, Training & Placement Division. Honorable Vice Chancellor Prof. Indranil Mana attended as the event's Chief Guest.

## 2) One Week Hands-on Training programme on "Method Validation and Application of HPTLC Technique (4<sup>th</sup> to 8<sup>th</sup> Dec 2023)

One-week Hands-on Training Programme on Method Validation and Application of HPTLC Techniques was organized from 4<sup>th</sup> to 8<sup>th</sup> Dec 2023 at Central Instrumentation Facility, Birla Institute of Technology Mesra, Ranchi-835215 in association with Anchrom Enterprises (I) Pvt. Ltd., Mumbai-400081 for internal students (UG/PG/PhD). The main purpose of the Hands-on Training Programme was to share knowledge about the critical understanding of HPTLC method validation, solvent optimization, hands-on experience and troubleshooting skills for HPTLC technique. The programme was organized in the Chromatography section of CIF, BIT, Mesra. The organizing team constituted for the programme is given below

1.	Dr. Sanjaya Kumar Swain	Program Coordinator
2.	Dr. Ashwini Kumar Singh	Program Co-coordinator
3.	Mr. Rammani Prasad	Program Co-coordinator
4.	Mr. Sharad Kumar	Resource Person
5.	Mr. Ravi Pratap Singh	Student Coordinator
6.	Miss Mamta Kumari	Student Coordinator

Total 33 students including 18 females and 15 males participated in the programme. The programme was inaugurated by Dr. Kunal Mukhopadhyay (Dean of Faculty Affairs), BIT, Mesra, Ranchi on December 4, 2023 at Seminar Hall, Department of Bioengineering and Biotechnology. Expert lectures were given by Dr Manish Kumar, Associate Professor, Department of Bioengineering & Bio-Technology, Dr A K Sen, Professor, Chemical Engineering, Dr Jayaram Kumar, Professor, Pharmaceutical Sciences and Technology, Dr Manik Ghosh, Associate



Professor, Pharmaceutical Sciences and Technology, Dr. Soham Chattopadhyay, Assistant Professor, Bioengineering and Biotechnology, Mr Rammani Prasad, Junior Chemist and Dr Aniket Jadhav, Application Specialist, Anchrom India Pvt Ltd.



### 3. Five Week Summer Training Program on “Advance Instrumentation Techniques for Scientific Research (May 27 to June 28 2024)

Five Week Hands on Training Programme on Advanced Instrumentation Techniques for Scientific Research was organized from 27<sup>th</sup> May to 28<sup>th</sup> June 2024 at Central Instrumentation Facility, Birla Institute of Technology Mesra, Ranchi-835215. The Summer Internship Programme has been divided into six sections with assigned section coordinators and section co-coordinators. The team constituted for the programme was:

1.	Dr. Ashwini Kumar Singh	Program Coordinator & Section Coordinator Advanced Microscopy
2.	Dr. Sanjaya Kumar Swain	Section Coordinator Water and Waste Water Analysis
3.	Dr. Sudhir Kumar Saw	Section Coordinator Spectroscopy & Thermal Analysis







- and technology to the students of Tender Heart Senior Secondary School, Ranchi on 25<sup>th</sup> July 2023.
- 8) Introduce the use of analytical tools in science and technology to the students of Calcutta Public School on 26<sup>th</sup> July 2023.
- 9) Introduce the use of analytical tools in science and technology to the students of ATL School, DAV Gandhi Nagar, DAV Hehal, Ranchi on 18<sup>th</sup> August 2024.
- 10) Introduce the use of analytical tools in science and technology to the students of Jawahar Navodaya Vidyalaya, Tenughat, Bokaro on 5<sup>th</sup> January 2024.
- 11) Introduce the use of analytical tools in science and technology to the students of Usha Martin University, Ranchi on 9<sup>th</sup> May 2024.

## 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	: 1,52,629
Total Titles	: 49,562
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	: <a href="http://bitmesra.ac.in/library/">http://bitmesra.ac.in/library/</a>
Total Books Added	: Title - 103 & Volumes – 162
Total Journals Procured	: Print - 108 & Online – 48,683+
Total Number of Membership Enrolled	: 1,880
Total Number of Books Issued	: 10,615
Total Number of Books Returned	: 10,856
Total Library Membership	: 7,506
Library Services	: Bibliographic Services

### E Document Delivery Services

- Inter Library Loan
- Language Laboratory
- Research Support Services
- Search
- New Arrivals
- News Clippings
- Off-Campus Service



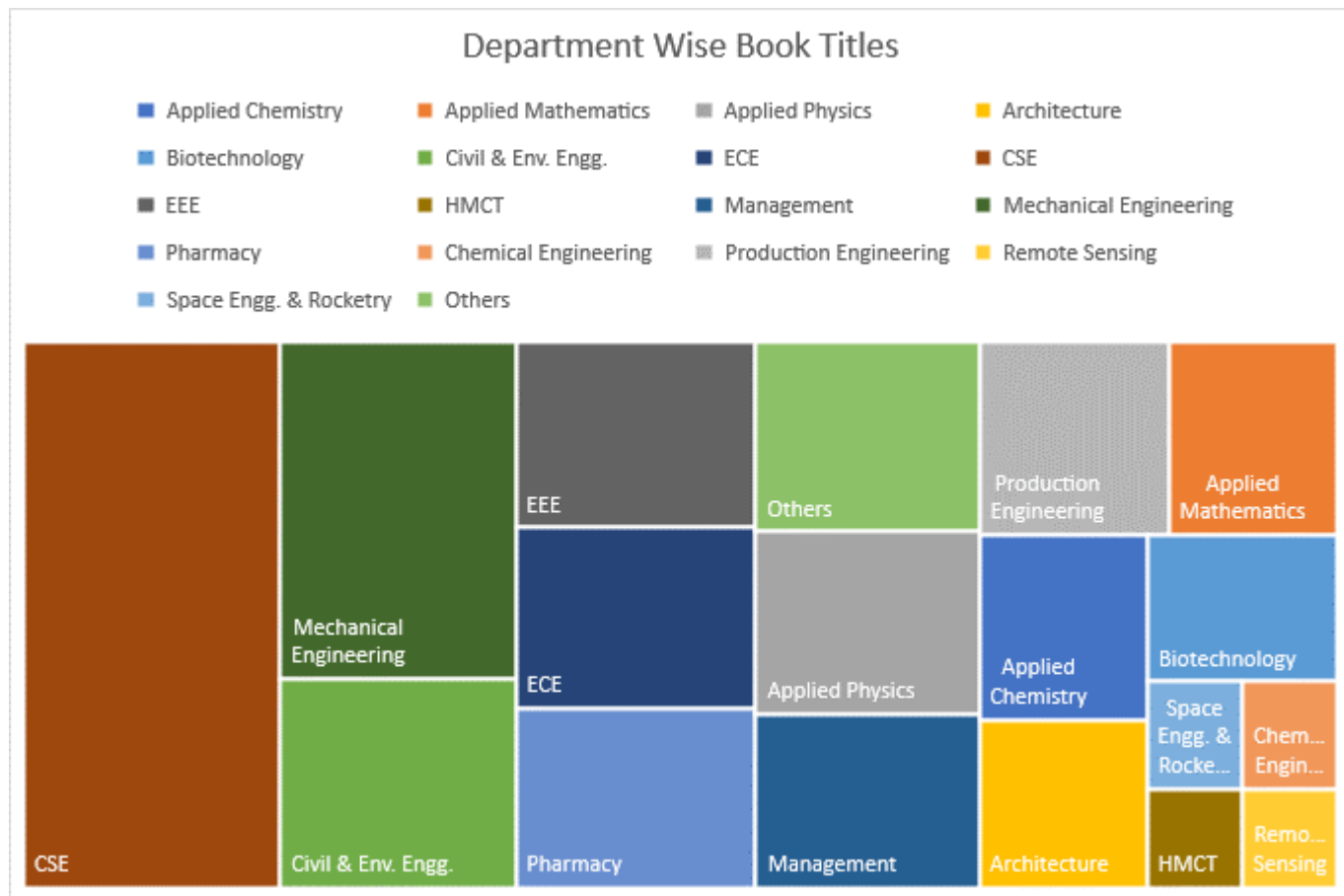
ON/Offline Database Search

Reference Service

Referral

Reprographic

The library serves more than 7,500+ members, including students, research scholars, faculty, project engineers, and staff.



Description	No. of Books	Period of Loan
Teaching Faculty	08	One Month
Non-Teaching Staff	04	One Month
All Undergraduate and Post Graduate students	05	15 Days
All Undergraduate and Post Graduate SC/ST students	10	One Semester
All Undergraduate and Post Graduate OBC student	5	One Semester
Research Scholars	05	One Month
Books from Textbook Section for All Categories	1	1 Day



## MoUs and Membership:

### Shodhganga

- MoU with Inflation to upload the PhD thesis to the repository for worldwide access.
- 172+ PhD theses have been uploaded as of Feb 2024.

### 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 600+ members are registered as of Jan 2024.

### 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)	<a href="http://search.proquest.com">http://search.proquest.com</a>
2.	American Institute of Physics	<a href="http://www.aip.org">http://www.aip.org</a>
3.	American Physical Society	<a href="http://www.aps.org">http://www.aps.org</a>
4.	Annual Reviews	<a href="http://www.annualreviews.org">http://www.annualreviews.org</a>
5.	EBSCO (e-book Academic Subscription)	<a href="http://web.ebscohost.com">http://web.ebscohost.com</a>
6.	Elsevier's Science Direct	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
7.	Chemical Engineering	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
8.	Chemistry	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
9.	Engineering	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
10.	Materials Science	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
11.	Pharmacology, Toxicology and Pharmaceutics	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
12.	IEEE/IEL Online	<a href="http://ieeexplore.ieee.org/Xplore">http://ieeexplore.ieee.org/Xplore</a>
13.	American Mathematics Society	<a href="https://mathscinet.ams.org/mathscinet/publications-search">https://mathscinet.ams.org/mathscinet/publications-search</a>
14.	Project Muse	<a href="http://muse.jhu.edu/browse">http://muse.jhu.edu/browse</a>
15.	Springer Link	<a href="http://www.springerlink.com">http://www.springerlink.com</a>
16.	Statista.	<a href="https://www.statista.com/">https://www.statista.com/</a>
17.	iThenticate ( <b>Anti Plagiarism Tool</b> )	<a href="https://www.ithenticate.com/">https://www.ithenticate.com/</a>
18.	Shodh Shuddhi Resource DrillBit ( <b>Anti-Plagiarism Tool</b> )	<a href="https://pds.inflibnet.ac.in">https://pds.inflibnet.ac.in</a>
19.	Web of Science (Bibliographic Database)	<a href="http://apps.webofknowledge.com">http://apps.webofknowledge.com</a>
20.	RemoteXs	<a href="https://bitmesra.remotexs.in">https://bitmesra.remotexs.in</a>
21.	Grammarly (Online Grammar & Spell checker)	<a href="http://www.grammarly.com/edu">http://www.grammarly.com/edu</a>





## Annexure-I : List of Deans and Associate Deans

Deans					
Dean of Faculty Affairs (DoFA)	Dr. Ashoke Sharon	0651-2276182	4554	9263005302	dofa@bitmesra.ac.in
Dean of Admission, Accreditation & Coordination (DAAC)	Dr. Sudip Das	0651-2276181	4485	9263005303	daac@bitmesra.ac.in
Dean Alumni & International Relations (DAIR)	Dr. (Mrs.) Shradha Shivani	0651-2276587	4415	9263005305	dair@bitmesra.ac.in
Dean of Student Affairs (DoSA)	Dr. Baskar Karn	0651-2276070	4419	9263005306	dosa@bitmesra.ac.in
Dean of Undergraduate Studies (DUGS)	Dr. Sanjay Kumar Jha	0651-2275338	4544	9263005307	dugs@bitmesra.ac.in
Dean of Post Graduate Studies (DPGS)	Dr. Sandeep Singh Solanki	---	4487	9263005308	dpgs@bitmesra.ac.in
Dean of Research, Innovation & Entrepreneurship (DRIE)	Dr. C. Jeganathan	0651-2275869	4835	9263005304	drie@bitmesra.ac.in
Dean of Infrastructure and Planning (DoIP)	Dr. (Mrs.) Manjari Chakraborty	0651-2275872	4625	9263005309	doip@bitmesra.ac.in
Associate Deans					
Associate Dean (Research, Inno. & Entrepreneurship)	Dr. Anand Prasad Sinha	---	---	9835127919	adrie@bitmesra.ac.in
Associate Dean (Student Welfare)	Dr. Praveen Srivastava	---	4719	8987479515	adosa-hm@bitmesra.ac.in
Associate Dean (SA)	Dr. Yogender Aggarwal	---	4731	9431991797	adosa-sa@bitmesra.ac.in
Associate Dean (Faculty Affairs)	Dr. Kirti Avishek	---	4538	8294934737	adofa@bitmesra.ac.in
Associate Dean (AIR)	Mr. Vishal H. Shah	---	4558	9471503579	adair@bitmesra.ac.in
Associate Dean (UG)	Dr. Sukalyan Chakraborty	---	4823	8521761339	adugs@bitmesra.ac.in
Associate Dean (PG)	Dr. Laxmi Narayan Pattnaik	---	---	9430731527	adpgs@bitmesra.ac.in
Associate Dean (AAC)	Dr. Abhisek Jana	---	---	9973862078	abhisekjana@bitmesra.ac.in
Director, Internal Quality Assurance Cell (IQAC)	Dr. Sudip Das	---	4485	9263005303	dir.iqac@bitmesra.ac.in







S.N.	Name	Designation	Department	As
32	Dr. Vinay Sharma	Professor	Production & Industrial Engineering	Member
33	Dr. (Mrs.) Manjari Chakraborty	Professor	Architecture & Planning	Member
34	Dr. Satyaki Sarkar	Professor	Architecture & Planning	Member
35	Mrs. (Dr.) P. Padmanabhan	Professor	Bio-Engineering & Bio-Technology	Member
36	Dr. Ramesh Chandra	Professor	Bio-Engineering & Bio-Technology	Member
37	Dr. Vinod Kumar Nigam	Professor	Bio-Engineering & Bio-Technology	Member
38	Dr. Rakesh Kumar Sinha	Professor	Bio-Engineering & Bio-Technology	Member
39	Dr. (Mrs.) Sudipta Goswami	Professor	Chemical Engineering	Member
40	Dr. Gautam Sarkhel	Professor	Chemical Engineering	Member
41	Dr. Birendra Kr. Singh	Professor	Civil & Env. Engg.	Member
42	Dr. Anand Kumar Sinha	Professor	Civil & Env. Engg.	Member
43	Dr. Sudeshna Chakravarty	Professor	Civil & Env. Engg.	Member
44	Dr. Rajeev R. Sahay	Professor	Civil & Env. Engg.	Member
45	Dr. Srikanta Pal	Professor	ECE	Member
46	Dr. S.K. Ghorai	Professor	ECE	Member
47	Dr. (Mrs.) Nisha Gupta	Professor	ECE	Member
48	Dr. (Mrs.) Vibha Rani Gupta	Professor	ECE	Member
49	Dr. T. Ghose	Professor	EEE	Member
50	Dr. (Ms.) Vijaya Laxmi	Professor	EEE	Member
51	Dr. S.K. Jain	Professor	Mathematics	Member
52	Dr. Seshadev Padhi	Professor	Mathematics	Member
53	Dr. (Mrs.) Manju Bhagat	Professor	Management	Member
54	Dr. R.N. Bhagat	Professor	Management	Member
55	Dr. A.N. Jha	Professor	Management	Member
56	Dr. R.P. Sharma	Professor	Mechanical Engg.	Member
57	Dr. Dipti P. Mishra	Professor	Mechanical Engg.	Member
58	Dr. Arbind Kumar	Professor	Mechanical Engg.	Member
59	Dr. K. Jayaram Kumar	Professor	Pharm. Sciences & Technology	Member
60	Dr. Swastika Ganguly	Professor	Pharm. Sciences & Technology	Member
61	Dr. Venkateshwan Jayaprakash	Professor	Pharm. Sciences & Technology	Member
62	Dr. (Mrs.) Sunita Keshri	Professor	Physics	Member
63	Dr. Sanjeeb Kr. Rout	Professor	Physics	Member
64	Dr. S.K. Sinha	Professor	Physics	Member
65	Dr. Nilanchal Patel	Professor	Remote Sensing	Member



S.N.	Name	Designation	Department	As
66	Dr. A.P. Krishna	Professor	Remote Sensing	Member
67	Dr. Sandip Dutta	Registrar (Offg.)	BIT	Secretary
68	Dr. Vinay Sharma	Director	University Polytechnic	Member
69	Dr. Parnab Kumar	Prof. In-charge	School of Business Admn.&Comp.Application (SBACA)	Member
70	Dr. Ganesh Prasad Mishra	Professor	Off-Campus, Lalpur Management	Member
71	Dr. (Mrs.) Aruna Jain	Director	Off-Campus, Deoghar	Member
72	Dr. Arbind Kumar	Professor	Off-Campus, Deoghar Mechanical Engg.	Member
73	Dr. S.L. Gupta	Director	Off-Campus, Noida	Member
74	Dr. Asha Prasad	Professor	Off-Campus, Noida	Member
75	Dr. Vishnu Priye	Director	Off-Campus, Patna	Member
76	Dr. Shree Prakash Lal	Professor	Off-Campus, Patna Production Engineering	Member
77	Dr. Peeyush Tewari	Director (Acting)	Off-Campus, Jaipur	Member
78	Dr. Roopali Sharma	Professor	Off-Campus, Jaipur Management	Member
79	Dr. M. Krishna Mohan	Professor	Off-Campus, Jaipur	Member

## Annexure-IV : Finance Committee

### LIST OF MEMBERS

S.No.	Name	Designation	As a
1	Shri C. K. Birla	Group Chairman CK Birla Group of Companies	Chairman (Ex-Officio)
2	Prof. Indranil Manna	Vice Chancellor	Member (Ex-Officio)
3	Shri Rohit Saboo	National Engineering Indus. Ltd.	Member (Nominee of BOG)
4	Shri Mukulesh Chandra Narain,	OSD (Judicial) to the Governor	Member (Nominee of the Chancellor)
5	Shri P.C. Agarwala	GMMCO Ltd. Kolkata	Member (Nominee of GC)
6	Prof. Jose Varghese	Prof. of Eminence Christ University	Member (Nominee of UGC)
7	Shri Y. Goenka	Treasurer Honorary	Member





## Annexure-V : List of HOD

HOD					
Architecture	Dr. Smriti Mishra	0651-2275588	4425	8084825903	hod.arp@bitmesra.ac.in
Bio-Engineering & Bio-Technology	Dr. Kunal Mukhopadhyay	0651-2276223	4424	9431382720	hod.bio@bitmesra.ac.in
Chemical Engineering	Dr. Akhil Kumar Sen	0651-2276053	4426	9431597273	hod.cme@bitmesra.ac.in
Chemistry	Dr. Sumit Mishra	0651-2276531	4844	8210629045	hod.chm@bitmesra.ac.in
Civil & Environmental Engineering	Dr. (Mrs.) Bindhu Lal	0651-2276051	4407	9431596494	hod.cee@bitmesra.ac.in
Computer Science & Engineering	Dr. Supratim Biswas	0651-2275548	4556	9431939630	hod.cse@bitmesra.ac.in
Electronics and Communication Engg.	Dr. Sanjay Kumar	0651-2275750	4660	9431386274	hod.ece@bitmesra.ac.in
Electrical and Electronics Engg.	Dr. R.C. Jha	0651-2275465	4411	9431382772	hod.eee@bitmesra.ac.in
Hotel Management & Catering Technology	Dr. Abhinav Kr. Shandilya	0651-2275648	4582	9472711951	hod.hmc@bitmesra.ac.in
Management	Dr. Utpal Baul	0651-2275233	4636	9431175061	hod.mgt@bitmesra.ac.in
Mathematics	Dr. Soubhik Chakraborty	0651-2276183	4486	9431382705	hod.mth@bitmesra.ac.in
Mechanical Engineering	Dr. Apurba Kumar Roy	0651-2275924	4470	7250582643	hod.mech@bitmesra.ac.in
Pharmaceutical Science & Technology	Dr. Papiya Mitra Mazumdar	0651-2276247	4423	9431327042	hod.pst@bitmesra.ac.in
Physics	Dr. Rajeev Kr. Sinha	0651-2275522	4479	9430195009	hod.phy@bitmesra.ac.in
Production Engineering	Dr. Joyjeet Ghose	0651-2275044	4474	9801339620	hod.pe@bitmesra.ac.in
Remote Sensing	Dr. V.S. Rathore	0651-2276003	4468	9431382641	hod.rs@bitmesra.ac.in
Space Engineering and Rocketry	Dr. Priyank Kumar	0651-2276224	4594	9470137267	hod.sr@bitmesra.ac.in
Humanity & Social Sciences	Dr. Uptal Baul			9431175061	hod.hss@bitmesra.ac.in
Centre for Quantitative Economics and Data Science	Dr. Kunal Mukhopadhyay		4409	9431382720	hoc.eds@bitmesra.ac.in



## Annexure-VI: Address of other Campuses of Bit Mesra

<b>BIT Mesra, Patna Campus</b> H3WP+6CM,Samanpura, Patna, (Bihar) PIN - 800014	<b>BIT Mesra, Jaipur Campus</b> 27, Malviya Industrial Area, Jaipur 302017 (Rajasthan)
<b>BIT Mesra, Deoghar Campus</b> P.O.- Ratanpur, Jasidih Dist. Deoghar 814142, (Jharkhand)	<b>BIT Mesra, Noida Campus,</b> A-7 Sector 1, Noida 201301 (U.P.)
<b>Birla Institute of Technology, Mesra</b> Lalpur, Ranchi – 834001 (Jharkhand)	





## Annexure-VIII: Internal Complaint Committee

The Internal Complaint Committee (ICC) is being reconstituted as under towards gender sensitization against sexual harassment of women at work place:

<b>Dr. (Mrs.) Sunita Keshri</b> Professor Department of Physics	Chairperson	
<b>Dr. (Mrs.) Manju Bhagat</b> Professor Department of Management	Member	
<b>Dr. Ramesh Chandra</b> Professor Department of Bioengineering & Biotechnology	Member	
<b>Mr. Awadhesh Kumar Singh</b> Dy. Comptroller	Member	
<b>Mrs. Ritu Agrawal Assistant</b> Professor Department of Architecture and Planning	Member	
Mrs. Ajanta Singh	NGO Representative	
<b>Mrs. Nidhi Jaiswal</b> Assistant Registrar (Legal)	Member Secretary	
<b>Three Student nominees</b>	One each from <b>Ph.D. Scholar, PG</b> student and UG student to be co-opted if matter involves students	Member







**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**

**बिरला प्रौद्योगिकी संस्थान, मेसरा, राँची**

Ph. : 0651 - 2275402, 2276052 | Fax : 0651 - 2275401

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