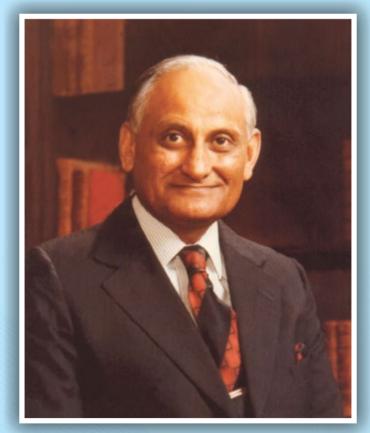


Shri B.M. BirlaFounder of the Institute



Shri G.P. BirlaFormer Chairman of the Board of Governors



Shri C. K. BirlaChairman of the Board of Governors

ANNUAL REPORT

वार्षिक प्रतिवेदन

2021-22



BIRLA INSTITUTE OF TECHNOLOGY

बिरला प्रौद्योगिकी संस्थान

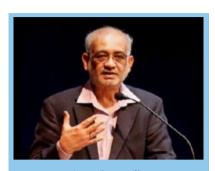
(Deemed to be University) Mesra, Ranchi - 835 215, Jharkhand

CONTENTS

	Page
Vice Chancellors Report	1
ntroduction	15
Department	33
Department of Architecture & Planning	34
Department of Bioengineering and Biotechnology	43
Department of Chemical Engineering	51
Department of Chemistry	62
Department of Civil and Environmental Engineering	70
Department of Computer Science and Engineering	90
Centre for Quantitative Economics and Data Science	108
Department of Electronics and Communication Engineering	112
Department of Electrical and Electronics Engineering	129
Department of Hotel Management and Catering Technology	141
Department of Management	147
Department of Mathematics	158
Department of Mechanical Engineering	162
Department of Pharmaceutical Sciences & Technology	170
Department of Physics	180
Department of Production and Industrial Engineering	186
Department of Remote Sensing	192
Department of Space Engineering and Rocketry	207
BIT Off Campus Deoghar	215
BIT Off Campus Jaipur	234
BIT Off Campus Lalpur	253
BIT Off Campus NOIDA	262
BIT Off Campus Patna	279
University Balanahaia	007

BIT Dispensary	307
National Cadet Corps	310
National Service Scheme	314
Environmental Initiatives	322
The Entrepreneurship Development Cell	325
Creative Arts	331
Institutions Innovation Council	332
Students Club Activities	340
Physical Education & Sports	350
Value Education Cell	354
राजभाषा प्रकोष्ठ	356
Sanshray (Rekindling Hope)	358
Training and Placement	359
Central Instrumentation Facility	370
Central Library	376
Annexure-I : List of Deans and Associate Deans	380
Annexure II : Board of Governors	382
Annexure III : Academic Council	383
Annexure IV : Finance Committee	386
Annexure V : Building Works Committee	387
Annexure VI : List of Heads / In-charges of Departments	388
Annexure VII : Addresses of off Campuses of BIT Mesra	389
Annexure VIII : Internal Complaint Committee	390

Vice Chancellors Report



Vice Chancellor

Professor Indranil Manna

Birla Institute of Technology, Mesra, Ranchi founded by the philanthropist, industrialist Late Shri B.M. Birla in 1955, attained the status of a Deemed to be University in the year 1986. BIT Mesra is not only one of the oldest Institutes of Technology in the country but also is a pioneer in initiating disciplines like Space Engineering and Rocketry, Remote Sensing, and recently Quantitative Economics and Data Sciences. BIT Mesra was a pioneer in the country to have established the first Science and Technology Entrepreneurship Park in the country, the process of which started in 1974. BIT Mesra has consistently been ranked amongst the leading Technological Universities of the country. The Institute offers academic programs in all major disciplines of Engineering and allied Sciences with over 600 faculty members and over 10,000 students spread across various campuses

covering all three levels of tertiary education.

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. It also enforces quality assurance initiatives like academic audits, examination reforms and research reviews conforming to the rules and norms of the regulatory bodies, pre and post accreditation assessments, collaborative initiatives, and ranking and ratings of the Institute.

The global pandemic due to COVID-19 caused a dark spell over the entire world lasting for nearly 2 years. BIT Mesra was no exception. The pandemic nearly brought the entire academic activities of this institute to a grinding halt at least on two occasions during the peaks in Mid-2020 and early 2021. Shear determination, grit and dedication helped us make variant effort to recover from this threat and resume academic activities in the normal way. By God's grace, BIT Mesra managed to conduct the Spring 2022 in hybrid mode and MO2022 onwards entirely in the usual physical mode. The institution recorded significant rise in admission, conduct of seminars, conferences and various student activities. Placement record touched a new height. A number of important visitors paid us visits on various occasions. The student activities saw a major upward swing and finally, BIT Mesra was on track.

I would now like to take this opportunity to present a brief report of the salient activities of the Institute, undertaken during the academic year 2021–22.

BIT Mesra is a constantly evolving Institution eager to introduce new academic programs, adopt new methodology in teaching, pursue new research avenues, augment its civil and digital infrastructure, introduce progressive administrative measures and implement all decisions of the Board and Regulatory Bodies proactively.

Key Decisions of The Board of Governors:

- » The Department of Architecture has been renamed as the Department of Architecture and Planning
- » The AICTE IDEA (Idea Development, Evaluation & Application) Laboratory has been established in an area of around 5000 sq.ft. with a funding support of ₹1.06 crores from AICTE and BIT Mesra.
- » Policies to encourage Innovation, Incubation, and Entrepreneurship is introduced through adoption of "Start Up Policy", "Innovation, Incubation and Entrepreneurship policy", and "Benevolent Fund Policy".
- » BITMAA (BIT Mesra Alumni Association) has been founded and registered with IG registration.
- The existing RIE office has been renamed as Research and Development Cell.

- » Renewal of registration under foreign contribution (regulation) Act 2010 and renewal of FCRA account has been initiated.
- » Hindi cell (Rajyabhasha Prakosht) has been established.
- » Ordinances of UP, PG and PHD programmes have been revised.
- » Academic Council recommended to start new BTech courses in Artificial Intelligence and Machine Learning and a Certificate program in Game Design and Development.
- » Rearrangement of increase/reduction in seats, course name change, course merger, and course closure for uploading the rearrangements in AICTE Portal have been completed.
- 3 offer of appointments for Assistant Professors and 22 Adjunct Professors were made in Academic Year 2021–22 through very rigorous 3-stage peer review process.
- » "Visiting scholar Programme" between BIT Mesra and North Eastern University College of Engineering, Boston, Massachusetts has been initiated.

Several eminent visitors and speakers presented, discussed, and shared their ideas and expertise with students and faculty. Some of the distinguished visitors were:

Distinguished Visitors

- » Shri Sanjay Chawla, Director General, Aeronautical Quality Assurance, Department of Defence Production, Ministry of Defence, Govt. of India, New Delhi, India visited in September 2021.
- » Dr. A.K. Saraf, Professor, Department of Earth Science, IIT Roorkee visited in December 2021.
- » Dr. L. V. M. Reddy, President Indian Technology Congress Association and ISRO Council Member visited in March 2022.
- » Dr. Sudebkumar Prasant Pal, Professor, IIT Kharagpur visited the campus.
- » Dr. Anirban Chakraborty, Associate Faculty, Hosei University, Japan visited in December 2021.
- » Shri Ram Mohan Chattopadhyay, Former Chief General Manager (Civil & Structural division), SAIL visited in December 2021.
- » Prof. K. D. P. Nigam, Retd. Professor from IIT Delhi Visited in September 2021.
- » Prof. Purnendu Ghosh, Executive Director, Birla Institute of Scientific Research, Jaipur visited the campus in April 2022.

Speakers like Mr. Ankit Rastogi, Mr. Karan Bajaj, Mr. Harish Uthayakumar, Mr. Vijay K. Srivastava & Mr. Rajive Sinha, Mr. Satish Ray, Mr. Nitin Jain (Founder and CEO, Indibni), Mr. Vijay Aggarwal, Mr. Vatsal Kanakiya, Mr. Raj A. Kapoor, and Mr. Satish Krishnan presented discussed and shared their ideas and expertise with students and faculty.

Mr. Ankit Rastogi	-	Chief Product Officer, Angel One.
Mr. Karan Bajaj	-	Founder & CEO, WhiteHat Jr/BYJU's FutureSchool Author
Mr. Harish Uthayakumar	-	Co-founder, bluelearn.in
Mr. Vijay K. Srivastasva	-	Global Founder & Social Imagineer, Asean Academy of Entrepreneurship and Employability
Mr. Rajive Sinha	-	COO, U2CA Consultants PVT. LTD., Co- Founder & Member Governing Board, Indian Academy Of Entrepreneurship

Mr. Satish Ray	-	Youtuber & Standup Artist
Mr. Nitin Jain	-	Founder & CEO, INDIBNI
Mr. Vijay Aggarwal	-	CTO, BharatPe
Mr. Vatsal Kanakiya	-	CTO, 100X.VC
Mr. Raj A. Kapoor	-	Founder, Indian Blockchain Alliance
Mr. Satish Krishnan	-	MD, Financial Markets, Standard Chartererd Bank.

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

New Initiatives undertaken and Grants Related Information

In the year 2021–2022 several MOUs were signed with various Govt., and Private Institutions and Industries, some of the important ones are as follows:

- » MOU was signed with CRPF's Central Training College (CTC Telecom & Information Technology), Ranchi. Three short-term training programmes (funded by CRPF) were conducted for CRPF officer trainees at BIT.
 - > Training on "Digital and Modern Communication" (32 people, 4 days)
 - > Training on "Antenna Training" (20 people for 4 days)
 - > Training on "Artificial Intelligence and Internet of Things" (20 people for 4 days)
- » MOUs was signed with Jharkhand State Pollution Control Board (Jamshedpur & Ranchi). BIT is identified as Institute of Repute under the National Knowledge Network for NCAP programme.

List of MOUs

S. No.	Date	Organization	Duration
1.	04-08-2021	BiOZEEN Bangalore Biotech Labs Pvt Ltd.	01 Year
2.	04-08-2021	Nano Temper Technologies, Bangalore, India	03 Years
3.	20-08-2021	Cognizant Technology Solutions India Pvt. Limited	02 Years
4.	31-08-2021	Sabita Engg. Works, Hatia, Ranchi	02 Years
5.	18-10-2021	Indian Trust for Rural Heritage and Development (ITRHD)	05 Years
6.	22-10-2021	National Institute of Urban Affairs, New Delhi, India	03 Years
7.	01-12-2021	Cambridge Assessment English, UK	01 Year
8.	02-02-2022	Artificial Computing Machines Pvt. Ltd, Ranchi	02 Years
9.	30-11-2021	M/s Cyber Guru-Kolkata	Till Terminated

10.	30-11-2021	Schooglink Pvt. Ltd., Patna	Till Terminated
11.	30-12-2021	Korawan India Multiventure Limited-Patna	Till Terminated
12.	10-01-2022	M/s 1 Ansah Technology Pvt. Ltd. Lucknow	Till Terminated
13.	05-02-2022	YBI Foundation-Delhi	Till Terminated
14.	14-02-2022	NSE Academy LtdMumbai	03 Years
15.	25-03-2022	ERLDC, POSOCO- Kolkata	03 Years
16.	04-06-2022	Ram Krishna Dharmartha Foundation (RKDF) University, Ranchi	03 Years
17.	30-06-2022	Dronesabha Research Organisation OPC Pvt. Ltd., Dhanbad	03 Years
18.	29-07-2021	Advance Tech India Pvt Ltd.,Punjab	03 Years
19.	02-02-2022	Artificial Computing Machines	02 Years
20.	14-02-2022	NSE Academy Ltd., Mumbai	03 Years
21.	29-03-2022	Crypto University, Mumbai	Till Terminated
22.	05-02-2022	BIT Patna has signed MOUs with Korawan India Multiventure Ltd, M/s 1 Ansha Technologies, Lucknow, Schooglink Pvt Ltd., Cyber Guru, and YBI Foundations.	Till terminated

Patents

BIT Mesra has taken several initiatives towards innovation and Intellectual Property (IP) generation. IPR Cell BIT Mesra has been working to support and encourage faculty members to protect their research and innovation by filing patents, copyright, trademarks, etc. In 21–22, BIT Faculty members filed 12 patents, 4 patents were granted, 6 patents were published, and others are under process.

A total of 36 new grants were sanctioned: 25 (research projects) and 6 (training/workshop/conference) during 1st April 2021 to 31st March 2022 by external sponsoring agencies (DST-SERB, CRG, ISRO, AICTE, ICMR, DRDO, DAE etc.) with a total sanctioned budget of ₹8.98 Crore.

- » A total of 3 consultancy projects were sanctioned with a funding of ₹16.78 Lacs during 21-22.
- » Revenue of ₹62.067 Lacs was generated from the use of Central Instrumentation Facility (CIF) during 2021–2022.

In total 71 different equipment costing ₹1.44 Crore were ordered under various research projects.

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

Externally Funded Projects:

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

- » A total of 36 new research grants were sanctioned during 1st April 2021 to 31st March 2022 by external sponsoring agencies (DST-SERB, ISRO, AICTE, ICMR, DRDO, DAE etc.) with a total sanctioned budget of Rs.8.98Crore.
- » A total of 3 consultancy projects were sanctioned with funding of Rs. 16.78 Lakhs during 21–22.

Revenue of Rs. 62.067 Lakhs was generated from the use of Central Instrumental Facility (CIF) during 2021-2022.

BIT Mesra has always been keen to promote the culture of interaction with industry and academia. Recent initiatives in this direction are:

Seminars and Conferences Organized

- » International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021)" funded by IINRG, Ranchi; IIAB, Ranchi; CTR&TI, Ranchi, DBT GOI, CSIR New Delhi (October 27–30, 2021)
- » Advanced Instrumental Techniques in Chemistry and Materials Sciences (AITCMS22), funded by DST-STUTI (09th – 15th May 2022)
- » IEEE International Conference on IoT and Blockchain Technology ICIBT-2022, funded by IEEE (6-8th May, 2022)
- » International Network for Economics Research (INFER) funded by INFER and Politehnica University of Timisoara (9.06.2022)
- Short term training programme (STTP) of SASI (T) cum RM Grade-I Sl. No. 7 and GO's Technical Course Sl. No. 35 of CTC, CRPF, Ranchi funded by CRPF (14-18 Feb 2022)
- » ATAL FDP on Trends in Measurement and control for System Automation funded by AICTE (28.06.21-02.07.21).
- » One-week Hands-on Training Workshop on "Preparation and Characterization of Oral Solid Dosage Form" funded by DST-STUTI Programme of Indian Institute of Technology (ISM) Dhanbad, funded by DST-Govt. of India. (10.06.22–16.06.22)

Students take part in various activities including Inter college competitions, hackathons, design challenges and many other events which bring laurel to the University by winning awards and recognitions.

Student Activities and Awards

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Sarvagya Kulshreshtha IED/10019/21	Guinness World Record-Fastest time to solve a Rubik's cube on a bi-cycle	Guinness World Record	30 th June 2022 Gurgaon, Haryana, India
2.	Nishi Prakash Tiwari PHD/BE/10059/19	1 st Best Poster award at during "International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021)"	Department of Bioengineering and Biotechnology BIT Mesra in association with, Ranchi; IINRG Ranchi; IIAB Ranchi; CTR&TI Ranchi	27 th – 30 th October 2021 BIT Mesra

3.	Priyanshi Shrivastava (BTECH/10414/19)	MITACS Globalink Research Internship Award 2022	MITACS Globalink	May – July 2022 University of British Columbia, Vancouver, Canada
4.	Dipansh Sha, Adarsh Akash & Sritej Kumar (BArch: 10019/19, 10017/19, 10033/19)	First Prize, NATCON	Indian Institute of Architect	Nov 2021
5.	Uttaksh Anand, Slok Maskara, Harsh Singh, Shubham Sinha, Samridhhi Khanna (BArch: 10014/20, 10012/20, 10003/20, 10008/20, 10019/20	ANWESHAN – Short Film Trophy - 2022	Annual NASA	January 2022
6.	Saurabh Gupta (BTech/10490/20)	3rd position at college level	Smart India Hackathon - preliminary	27 th May 2022
7.	Satyam (Team Captain) BTech/10115/19	Team Firebolt Racing won three podium prize in BAJA SAE India 2022 in sales presentations, Accreralation event and Raftaar.	Soc. Of Automotive Engineers, India	12 th April 2022
8.	Ashutosh Bhaduria, Team Avion Racing BTech/10495/19	e-BAHA SAE India 2022. 7 th in Endurance event	Soc. of Automotive Engineers, India	15 th May 2022
9.	Somya Garg Team TAEVAS BTech/10554/19	1st position in the Best Aerodynamic Analysis	SAE INDIA	1st -3rd Sept 2021
10.	Mr. Nahar Jainam, BTECH/10153/21	First position in the state of Gujarat in National Inter College Crossword Expedition 2022	NICE-22	April 2022
11.	Mr. Sarvagya Kulshreshtha IED/10019/21	Solving a rotating puzzle cube on a bicycle in a Fastest Time	Guinness World Record	29 th January 2022

Civil Infrastructure Schemes Initiated

In continuation with previous year's renovation, up-gradation of existing infrastructure, during this financial year 2022–23, around ₹40 (Forty)crores has been approved for various construction activities, as follows:

On-going Projects:

- » Vertical expansion of a few academic buildings, to provide an additional space of around 24000sft. area.
- » Vertical expansion of a few hostel buildings, to increase an additional capacity of total 480 Boys and 158 Girls.
- » As amenities & facilities as a new Canteen for staff at 1st floor of existing Students' canteen & student Activity Space over existing Music room.
- » Renovation works at various academic departments.

Initiated Projects:

- » Addition of a new wing at existing Girls' Hostel 8 to increase an additional capacity of 240 students.
- » Hard & soft Landscaping of Lower Lawn to incorporate some open seating, jogger's path, walkway etc.
- » Lift at Bio-Engineering building
- » New Academic Tower with a total floor area of approximately 1.5 lakh sft.
- » New Residential Tower for 120 quarter units.
- » Sewerage treatment plant (STP)

Constructed Projects:

- » 2 (two) nos. of Food courts at different locations
- » Old Guest house has been renovated with 5 suite rooms & 8 double bed rooms.
- » Composter Shed.
- » Idea Lab
- » FireFighting Services in Main Institute Building
- » Lift installation at few Academic buildings
- » RO water services in all Hostels
- » Renovation of Main Entrance Lobby, Visitors' Lounge and Ladies' Lounge at Main Institute Building

This Infrastructural up-gradation is not only being implemented in our Main Campus but at Institute's other Campuses also.

Our faculty members routinely receive awards and accolades from various agencies, conferences and institutions for their research, administrative and academic contributions.

Awards/Recognitions by Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation
1.	Dr. Indrajit Roy	Invited lecture to Pennsylvania State University, USA	Pennsylvania State University, USA
2.	Dr. Tanushree Bhattacharya	Nodal Officer for Ranchi, NCAP	SPCB, RMC, Gol
3.	Dr. Kirti Avishek	Member of the Monitoring committee under National Green Tribunal (NGT) to evaluate the status of Illegal sand mining in Garwa	National Green Tribunal, Gol
4.	Dr. Praveen Srivastava	Gold Award in BLM2-ICAM4, International Joint E-Conference	Taylor University, Malaysia, and University of Kelaniya, Srilanka
5.	Dr. Seshadev Padhi	Adrosonic Golden Applied Award	Adrosonic pvt. Ltd, Mumbai
6.	Dr. Saurav Chakraborty	ASME Best Reviewer award for the Journal of Thermal Science and Engineering Progress	American Society of Mechanical Engineers
7.	Dr. Priyank Kumar	Invited Talk: Wind Tunnel & their Applications on the PM eVidya Channel	NCERT, New Delhi
8.	Dr. Upasna Sumanta	Proud Indian Innovative Teacher Award-2022	The International Multidisciplinary Research Foundation, Vijayawada, Andhra Pradesh

Faculty Development Related Activities

- » Faculty Development training was conducted (12 Sessions for 35 faculty members) on "Changing the Mindset: Importance of Entrepreneurship and Startup Culture using Design Pedagogy."
- » Student Training Programme was conducted (12 Sessions for 60 students and 5 faculty observers) on "Design Driven Innovation and Entrepreneurship Programme for Startup Creation."
- » 16 New faculty applied for fund under SEED MONEY SCHEME of BIT. Their proposals were evaluated by a team of experts, and a total of ₹56.65 Lacs was sanctioned for carrying out their research over 2 years period.
- » Worldwide Innovation Network (WIN) Software (500 user licenses) was procured to promote Innovation and Entrepreneurship. Training sessions were conducted for faculty and student.
- SERB International Research Experience (SIRE) grant was received for 2 faculty members namely Dr. Sumit Mishra, Of Dept. of Chemistry and Dr. Muthu Kumar of Department of Bio Engineering and Bio Technology, They will be going abroad for few months to accelerate their research and international experience.

- » Intellectual Property Right (IPR) cell was re-constituted to make it dynamic. Following Webinars were conducted to promote understanding and Importance of Patent and IPR in Academic Setup
 - > "Intellectual Property Rights Awareness Programme" by Kolkata Patent General (23rd March, 2022)
 - > A Talk on "Commercialization of Technologies" by Dr. Sanjeev Kr. Mazumdar, Manager, NDRDC (2nd March 2022)

BIT Mesra has always been keen to promote the culture of innovation and entrepreneurship. Recent initiatives in this direction are:

Innovation and Entrepreneurship Related Activities

- » The existing Institute Innovation Council (IIC) team was re-constituted with more dedicated faculty team to enhance BIT's contribution towards the objectives of MoE's Nations Innovation Mission.
- "Center of Excellence in Drone Technologies" was formed which is First among Private Universities to have such Centre for Drone and MOU signed with DRONEBAZAAR Pvt. Ltd. They will be funding for establishing "Center of Excellence in Drone Technologies" under ECE.
- » MOU signed with ADROSONIC Pvt. Ltd. They will be funding for establishing "Digital Innovation Lab" in CQEDS.
- » Institute Innovation Council (IIC) activities were appreciated in the recent regional meet at Kolkata.
- » BIT's Performance Rating Has Improved from 1 to 3.5 Star in 2021.
- » Two New Entrepreneurship related Policies were formulated: (a) Startup Policy and (b) Innovation, Incubation & Entrepreneurship Policy.
 - > to promote faculty's involvement in Startup creation and Mentoring.
 - > to encourage Students to think and create innovative solutions/products/startup.
 - > 18 different Webinars were conducted under IIC. Different Mega Events (like BIT-NISHAN, QUIZANCE, ENIGMA, Internal Hackathon, Strategic Finance) were conducted.
- » A New initiative of Innovation Contest called BIT-NISHAN was started in which students were evaluated for their innovative ideas.
- » One of the team SHEO-Bike (Hybrid EV Cycle) selected under NISHAN got many appreciations from various Govt. agencies.

Interesting Entrepreneurship related Notable Events

GULF OF ENTREPRENEURS event was organized on 21 Aug 2021 on the occasion of world entrepreneurs' day. A case study event with prize money of ₹3000 was distributed among the winners.

Virtual Stock Simulation (VSS) event organized from 25th Oct to 15th Nov 2021. An amount of ₹10,000 was distributed among the winners.

E-SUMMIT'22 events were organized from 11th to 13th of March 2022. Following events were conducted as a part of this summit.

- » Unicorn League the participants have to develop unique ideas for futuristic startups.
- » **Bizalytics** This event included case studies revolving around historical business decisions, investments, customer optimization, mergers, and implementation decisions. The decisions were judged based on how effective it was for the company.

- Winder Pressure In this event, real-life crisis scenarios were presented, and risks were to be minimized and right decisions were to be evaluated in the face of disasters in given time.
- **PENTAGON** A case study event in which the actual problem faced by Angel One was presented before the participants in the presence of Angel One personnel.
- » IPL Auction A thrilling event where contestants were supposed to bid for cricket players and form a team according to the field conditions given to each of them; the team with the most suitable and relevant players won the event.

Other Notable Events Conducted

- » BIT was selected to host a Prestigious Science Festival called Vigyan Sarvatra Pujyate during Science Day, 2022 The festival was conducted at 75 locations across India at the same time through which a total of 75 Expositions, 75 Lectures, 75 Films, 75 Radio Talks, 75 Science Literary activities, 75 books, 75 Posters, 75 Awards, events were conducted through hybrid mode.
- The event was conducted in BIT with full vigour and enthusiasm as a part of Azadi ka Amrit Mahotsav in the 75th Independence Year. Various events were conducted like Cultural and Scientific Programmes, Visit of School Children, Interaction with Industry Experts, Panel Discussion during 22nd to 28th February 2022. A total funding of `10.00 Lacs was provided by the Government for this purpose.
- » National Innovation Foundation (NIF) Mentor Workshop was conducted at BIT (on 22nd March 2022) to felicitate the school students from Jharkhand whose innovative idea has been selected for National Round under the INSPIRE Award MANAK (Million Minds Augmenting National Aspirations and Knowledge), being executed by DST with NIF, India. A fund of `1.25 Lacs was provided by NIF.

Calendar and Annual Events

Despite the challenging year 2021–2022, due to an unprecedented pandemic situation, we could maintain academic activities as per the scheduled academic calendar.

Academic Achievement and Scholarships

The Centre for Quantitative Economics and Data Science was established in the year 2021–2022 with the aim to provide fundamental knowledge and problem-solving skills in the area of Quantitative Economics and Data Sciences. The centre offers Integrated-5-year M.Sc. program in Quantitative Economics and Data Science.

GP BIRLA Scholarship worth Rupees 34261050.00/- was provided to students of the BIT Mesra including all off campuses and University Polytechnic.

Session	Number of Beneficiaries	Total Amount
MO 21	300	₹ 1,68,068,90.00
SP 22	313	₹ 1,74,541,60.00

Institute Research Fellowships				
Existing Institute Research Fellows (IRFs) upto SP 2021	:	116		
New Institute Research Fellows (IRFs) MO 2021 & SP 2022	:	19		
Total	:	135		
Budget for the IRFs in the Financial Year 2022–23 ₹466.32 Crores				

Foundation Day Celebration and Distinguished Alumni Award

Birla Institute of Technology, Mesra hosted a grand event "Foundation Day" to celebrate the past, present and the future on 14th & 15th July '2022.

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 its 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 Distinguished Teacher's Award.

Categories of Award:

BIT Mesra proposes to offer Distinguished Alumnus and Alumna awards to its most illustrious alumni for commendable contributions in any one of the following categories:

Category 1: Contributions to Engineering, Technology and Entrepreneurship -

Mr. Vijay Kumar

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

Category 2: Leadership in Corporate World, Industry, Academia and Research Institutions – one award annually (alumnus or alumna)

Mr. Amit Chadha

B.E (Electrical and Electronics Engineering) (1992 – 1996)

Category 3: Excellence in Teaching and Research in Engineering and Technology – one – one award annually (alumnus or alumna)

Dr. Gopalan Jagadeesh

M.E (Heat Power Engineering, Mechaical Engineering) (1990–1992)

Category 4: Service to Society in India and abroad including support to the alma mater – one award annually (alumnus or alumna)

Mr. Sanjeeva Kumar Singh

B.E (Mechanical Engineering) (1983 - 1987)

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

Ms. Sohini Roychowdhury

B.E (Electronics & Communication Engineering) (2003 –2007)

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

Mr. Nitin Jain

M.Sc (Animation) (2009-12) Jaipur Campus

Distinguished Teacher Award for contribution towards academic excellence in teaching and research

- 1. Prof. A.K. Chatterjee
- 2. Prof. Dinakar Sasmal
- 3. Prof. K. Roy Chowdhury
- 4. Prof. Bhuwan Mohan Karan
- 5. Prof. A P Singh
- 6. Prof. Dipak Jairath

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 this year on 10th of January 2022. The PAN card and bank account is also operational. The process to apply for 12A and 80G Certificate is under process.

Alumni Interactions:

- 1. A webinar on Germany as an emerging destination for higher studies by Dr. Ashish Sridhar on 24th July 2021
- 2. Rahul Kumar, BIT Mesra Alumnus from the batch of 2006, interacted with the students and faculties on the topic 'How AI and Internet of Things are transforming B2B Industries in India" on 4th September 2021.
- 3. Professor Siddhartha Bhattacharya (1996 Graduate of ECE Department at BIT Mesra), Director of Master of Science in Business Analytics addressed the students and faculties on the topic 'Roles of Business Analytics and Data Science' on 2nd October 2021.
- 4. Faculty Webinar Series, Organised by BITMAA-NA (BIT Mesra Alumni Association North America Chapter), by Professor Anijo Punnen Mathew (2000 Graduate of the Architecture Department at BIT Mesra) on 27th November 2021.
- 5. Mr. Romit Maulik, Assistant Computational Scientist in the MCS Division at Argonne National Laboratory and a Research Assistant Professor in the Department of Applied Mathematics at the Illinois Institute of Technology, Chicago, addressed the students and faculties on the topic 'Scientific machine learning: Research at the intersection of mathematics, computing, and data' on 29th January 2022.
- 6. Miss Sohini Roychowdhury delivered a webinar on "Career Pathways on Al: Academia, Industry and Entrepreneurship" on 5th February 2022 for the faculties and students.
- 7. Prof. Ganesh Halade gave a webinar on 'Interaction of Heart and Fat on Heart Failure' on 26th February 2022
- 8. Webinar by Prof. Rajkumar Verma on 'the Role of Purinergic Receptor P2X4 in Neuroinflammation after Ischemic Stroke' on 11th March 2022.
- 9. Prof. Jitendra Bajpai (1965 1970), Civil Engineer from BIT Mesra is an adjunct faculty at School of Professional Studies and Graduate School of Architecture, Planning and Preservation of Columbia University, New York, USA, delivered a talk on 'Next Generation of Infrastructure' on 16th April 2022

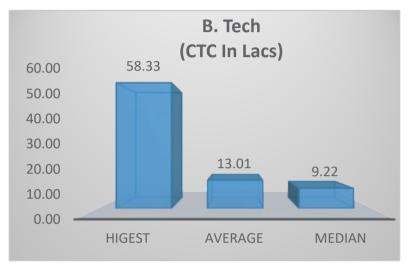
ISRE (Immersive Summer Research Program)-2022

After 6th Semester, selected students of Engineering are being sent to top US Universities for pursuing their summer research experience for around 8 weeks. The program is termed as Immersive Research Experience Program.

This year a total of 15 students participated in ISRE: (9 visited US for their research + 2 Pursued Online research) carried out their research at Illinois Institute of Technology, Chicago, 2 students (Both at US) carried out their research at North Eastern University, Boston and 2 students pursued their research online from Carnegie Mellon University, Pittsburgh.

Placement Summary:

In the Campus Recruitment Programme of 2021–22, around 232 recruiters from different sectors visited for full time recruitment and internship, achieving an overall target of 925 job offers. The Mesra campus boasts of an average package of ₹13.01 lacs per annum and the highest national salary of ₹ 58.33 lacs per annum for BE Programme.



Degrees Awarded:

In the 31st Convocation a total of 3069 degrees were awarded

31st Convocation						
S. No.	Center	Course			Total	
3. 140.	Center	Ph.D	PG	UG	Diploma	IOtal
1	Mesra	23	441	814	0	1278
2	Patna	3	11	411	0	425
3	Deoghar	1	0	162	0	163
4	Allahabad	4	0	0	0	4
5	Lalpur	2	158	384	0	544
6	Noida	3	18	145	0	166
7	Jaipur	2	14	191	0	207
8	University Polytechnic	0	0	40	219	259
TOTAL					3046	

Role of BIT in implementing NEP 2020:

National Education Policy 2020 is the new hallmark and guideline for education in the country. BIT Mesra is an active member not only to implement within the Institute but also in the State and National level:

- » To ensure that the National Education Policy is implemented in BIT Mesra premises, various seminar and conferences has been organized in recent past.
- » Webinar on Completion of 1 year of Transformative Reforms under National Education policy, 2020 was organized from 29th July'21 to 10th Aug.'21 by BIT Mesra and Ministry of Education.
- Faculty members were also encouraged to participate in the seminar, conferences and webinar related to National Education Policy. Faculty members attended State Level Workshop on Implementation of National Education Policy 2020 organised by Department of Higher and Technical Education, Govt. of Jharkhand on 9th Dec.'21.
- » Prof. Indranil Manna, Vice Chancellor of BIT, Mesra and the President of Indian National Academy of Engineering (INAE) organized a panel discussion (on 20th April 2022) comprised of Dr. K. Kasturi Rangan, Directors of IITs, leading academicians and industry experts deliberated on opportunities and challenges of implementation of National Education Policy (NEP) 2020 for engineering disciplines and profession.

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

Besides maintaining its reputation of as a nationally acclaimed center of engineering education and research, BIT Mesra has always made serious efforts to remain connected with the neighborhood by providing humanitarian support including employment opportunities, entrepreneurial training and medical aid wherever possible.

- The health center of BIT Mesra played a major role in the COVID-19 vaccination drive and a total of 13,630 person were vaccinated which include individuals from nearby areas. BIT also have a rural dispensary to ensure that the neighboring village can get the benefit of the medical services.
- » Ministry of Education sponsored projects under Unnat Bharat Abhiyaan have been implemented in the nearby villages for their employment generation through technological intervention and for creation of self-help groups and woman empowerment programs.

We are dedicated to continuing the rich tradition of our Institute and will keep working to realize the goals set forth by our founding fathers in accordance with the highest international standards for higher technical education.

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 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 campus 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.



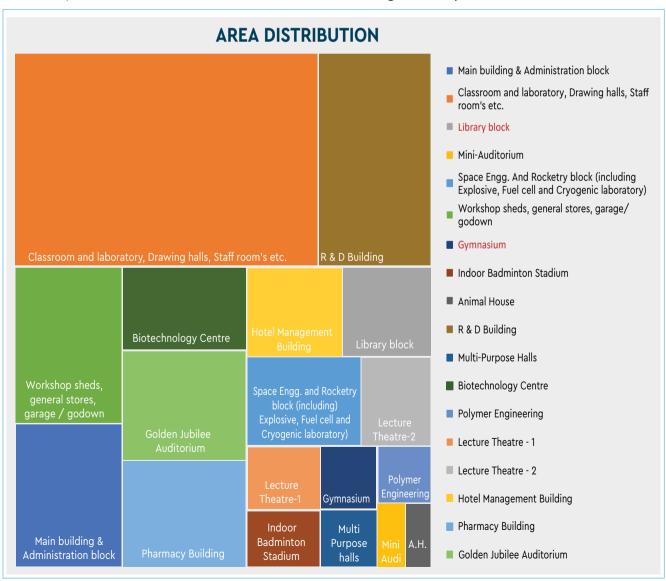


The G.P. Birla Auditorium

Institute Building	(Sq Mtrs.)
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)	
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.





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



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)

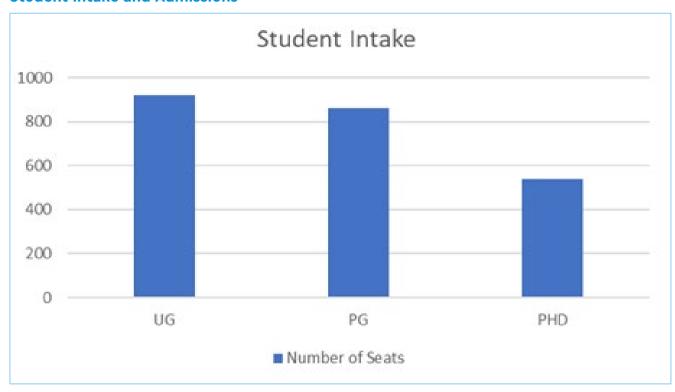
Shopping Centre

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-to-day 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 have internet facility. Boarders 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 2021-22 (Mesra Campus)

Sr. No.		Course	No of Seats	Received Application Form	Numbers of Admissions
1.	B.Tech*	JOSAA			
		NRI	780	*	700
		EBC/OBC	+ NRI		788
		GOI (J&K)			
2.	B.Arch*	JOSAA	40		36
		NRI	+	*	
		EBC/OBC	NRI		
3.	B. Pharm.		60	184	58
4.	ВНМСТ		40	88	25
Total:			920	272	907

^{*}Data Not Available since admission to these programmes is through JoSAA/CSAB.



Details of UG Admission at Mesra Campus:

Sr. No.	Branch	Numbers of Admissions
1	Bachelor of Architecture	36
2	B.Tech Biotechnology	22
3	B.Tech Chemical Engineering	116
4	B.Tech Civil Engineering	64
5	B.Tech Computer Sc. & Engineering	142
6	B.TechElectronics& Communication Engg.	131
7	B.Tech Electrical & Electronics Engg.	67
8	B.Tech Mechanical Engineering	131
9	B.Tech Information Technology	72
10	B.Tech Production Engineering	43
11	Bachelor of Pharmacy	58
12	Bachelorof Hotel Management & Catering Technology	25
	Total:	907

Admission in PG Programmes 2021–21 (Mesra Campus)

Sr. No.		Course	No of Seats	Numbers of Admissions
1	МВА		120	100
2	MCA		60	48
3	M. Tech Automated Manufacturing	g Systems	12	00
_	M. Tank Civil Faminancian	a). Soil Mech. & Found	12	1/
5	5 M. Tech Civil Engineering	b). Structural Engg.	12	16
6	M. Tech CAAD		12	06
		a). Power Elect.	18	
7	M. Tech - EEE	b). Control System	12	15
		c). Power System	12	
		a). Wireless Comm.	18	
8	M. Tech - ECE	b). Microwave	12	19
		c). Instrumentation & Control	12	

Sr. No.		Course	No of Seats	Numbers of Admissions
9	M. Tech Mechanical Engineering	a). Heat Power	12	07
		b). Design of Mechanical Equipment	12	07
10	M. Tech – SER	a). Aerodynamics	12	20
	M. IECH - SEK	b). Rocket Propulsion	12	20
11	M.Tech Bio- Technology		18	13
12	M.Tech Computer Science & Engir	neering	16	12
13	M.Tech Information Security		18	03
14	M.Tech Information Technology		18	06
15	M.Tech Energy Technology		12	03
16	M.Tech Env. Science & Engg.		18	11
17	M.Tech Remote Sensing			07
18	M.Sc. Chemistry		15	05
19	M.Sc. Mathematics		15	06
20	M.Sc. Physics			06
21	M.Sc. Biotechnology		30	19
22	M.Sc. Geo – Informatics		20	09
23	M.Pharm		75	55
24	MUP		20	16
25	Integrated M.Sc. Chemistry			02
26	Integrated M.Sc. Physics			18
27	Integrated M.Sc. Mathematics			56
28	Integrated M.Sc. Food Tech.			05
29	Integrated M.Sc. QE and DS		30	29
Total			848	512

Admission in Ph.DProgramme - 2021 (Session MO-2021)

Sr. No.	Departments	Admitted Candidates
1	Architecture	05
2	Bio - Engineering	09

3	Computer Science.& Engineering	16
4	Chemistry	05
5	Chemical Engineering	02
6	Civil & Environmental Engineering	05
7	Electrical and Electronics Engineering	03
8	Electronics and Communication Engineering	07
9	Mechanical Engineering	06
10	Mathematics	04
11	Management	02
12	Production Engineering	02
13	Physics	05
14	Pharmaceutical Science & Technology	04
	Total:	75

Admission in Ph.D Programme - 2021 (Session SP-2022).

Sr. No.	Department	Admitted Candidates	
1	Architecture	01	
2	Bio Engineering	05	
3	Computer Science & Engineering	02	
4	Chemistry	02	
5	Civil & Env. Engineering	03	
6	EEE	02	
7	ECE	04	
8	Mathematics	01	
9	Management	01	
10	Physics	04	
11	Pharmaceutical Sc. & Tech.	06	
12	Remote Sensing	04	
13	SER	01	
	Total:	36	

Convocations, Results and Gold Medalist

LIST OF ELIGIBLE CANDIDATES FOR THE AWARD OF GOLD MEDAL

Sr. No.	ROLL NO.	NAME	CGPA	CENTER			
1	Bachelor of Architecture						
	BARCH/10026/15	SHIVANGI SINGH	9.05	MESRA			
2	Bachelor of Engineering (Biotechno	logy)					
	BE/10059/16	GYANDEEP	8.66	MESRA			
3	Bachelor of Engineering (Chemical)						
	BE/10381/16	SWATI PRIYA	9.25	MESRA			
4	4 Bachelor of Engineering (Chemical-Plastics and Polymer)						
	BE/10610/16	VIJYA LAXMI	8.34	MESRA			
5	Bachelor of Engineering (Civil)						
	BE/10557/16	AMAN UJJWAL	9.36	MESRA			
6	6 Bachelor of Engineering (Computer Science)						
	BE/10396/16	CHANDRALA JESHWANTH KUMAR	9.29	MESRA			
7	Bachelor of Engineering (Electrical and Electronics)						
	BE/10547/16	SAHARSH	9.11	MESRA			
8	8 Bachelor of Engineering (Electronics and Communication)						
	BE/10337/16	SAI YASWANTH DIVVELA	9.09	MESRA			
9							
	BE/10232/16	AAKRITI KEDIA	9.20	MESRA			
10	Bachelor of Engineering (Mechanical)						
	BE/10202/16	BALAJEE SURYAVANSHI	9.42	MESRA			
11	Bachelor of Engineering (Productio	n)					
	BE/10110/16	ITOYL	8.85	MESRA			
12	12 Bachelor of Hotel Management and Catering Technology						
	BHMCT/10008/16	BANTI MODAK	8.17	MESRA			
13	Bachelor of Pharmacy			1			
	BPH/10049/16	PRIYAMBADA RAI	8.87	MESRA			
14	Bachelor of Business Administration	n		1			
	BBA/15094/17	AROHI RAJ	9.51	PATNA			
15	Bachelor of Computer Applications			1			
	BCA/40511/17	AKSHAT VED	9.39	LALPUR			
16	Bachelor of Science (Animation and	·					
	BAM/25003/17	JYESTHA ARORA	9.19	JAIPUR			
17	Bachelor of Science (Medical Lab Technology)						
	BMLT/14/17	MEGHLAL SAW	9.70	UNIV. POLY.			

Degree Awarded

	31st CONVOCATION (MESRA)								
1	Doctor of Philosophy				Total				
	Doctor of Philosophy (Engineering)				14				
	Doctor of Philosophy (Management)				4				
	Doctor of Philosophy (Science)				2				
	Doctor of Philosophy (Technology)				3				
			Total		23				
2	Post-Graduate Degrees	ID	ı	Ш	Total				
	Integrated Master of Science (Chemistry)	1	7	1	9				
	Integrated Master of Science (Food Technology)	3	4	0	7				
	Integrated Master of Science (Mathematics and Computing)	22	24	4	50				
	Integrated Master of Science (Physics)	4	9	4	17				
	Master of Business Administration	0	87	1	88				
	Master of Computer Applications	0	43	0	43				
	Master of Pharmacy	0	57	0	57				
	Master of Science (Biotechnology)	0	20	0	20				
	Master of Science (Chemistry)	0	7	0	7				
	Master of Science (Geo-Informatics)	0	13	0	13				
	Master of Science (Physics)	0	5	0	5				
	Master of Technology (Automated Manufacturing Systems)	0	1	0	1				
	Master of Technology (Biotechnology)	0	9	0	9				
	Master of Technology (Chemical)	0	2	0	2				
	Master of Technology (Computer Aided Analysis and Design)	0	2	0	2				
	Master of Technology (Civil Engineering)	0	18	0	18				
	Master of Technology (Computer Science and Engineering)	0	12	0	12				
	Master of Technology (Electronics and Communication Engineering)	0	11	0	11				
	Master of Technology (Electrical Engineering)	0	22	0	22				
	Master of Technology (Energy Technology)	0	2	0	2				
	Master of Technology (Environmental Science and Engineering)	0	7	0	7				
	Master of Technology (Information Security)	0	2	0	2				
	Master of Technology (Information Technology)	0	7	0	7				
	Master of Technology (Mechanical Engineering)	0	7	0	7				
	Master of Technology (Remote Sensing)	0	10	0	10				
	Master of Technology (Space Engineering and Rocketry)	0	2	0	2				
	Master of Urban Planning	0	11	0	11				
			Total		441				

3	Under-Graduate Degrees	ID	I	Ш	Total
	Bachelor of Architecture	22	8	1	31
	Bachelor of Engineering (Biotechnology)	22	1	0	23
	Bachelor of Engineering (Chemical)	35	13	1	49
	Bachelor of Engineering (Chemical-Plastics and Polymer)	21	4	0	25
	Bachelor of Engineering (Civil)	45	6	1	52
	Bachelor of Engineering (Computer Science)	105	24	2	131
	Bachelor of Engineering (Electrical and Electronics)	41	15	0	56
	Bachelor of Engineering (Electronics and Communication)	92	23	2	117
	Bachelor of Engineering (Information Technology)	51	10	2	63
	Bachelor of Engineering (Mechanical)	101	17	0	118
	Bachelor of Engineering (Production)	36	2	0	38
	Bachelor of Hotel Management and Catering Technology	10	14	2	26
	Bachelor of Pharmacy	39	4	2	45
	Bachelor of Science (Major in Chemistry)	4	0	0	4
	Bachelor of Science (Major in Food Technology)	1	0	0	1
	Bachelor of Science (Major in Mathematics and Computing)	11	0	0	11
	Bachelor of Science (Major in Physics)	22	2	0	24
	Total				814
		Gı	rand Tot	:al	1278

*ID: First Class with Distinction

I : First Class
II : Second Class

31st CONVOCATION (DEOGHAR)						
1	Doctor of Philosophy			_	Total	
	Doctor of Philosophy (Engineering)				1	
	Total				1	
2	Under-Graduate Degrees	ID	I	II	Total	
	Bachelor of Engineering (Computer Science)	17	24	3	44	
	Bachelor of Engineering (Electronics and Communication)	13	18	5	36	
	Bachelor of Engineering (Electrical and Electronics)	12	14	10	36	
	Bachelor of Engineering (Information Technology)	1	4	1	6	
	Bachelor of Engineering (Mechanical)	19	15	6	40	
	Total				162	
	Grand Total				163	

31st CONVOCATION (ALLAHABAD)								
1	Doctor of Philosophy	Total						
	Doctor of Philosophy (Engineering)	2						
	Doctor of Philosophy (Management)	1						
	Doctor of Philosophy (Science)	1						
	Total	4						

	31st CONVOCATION (LALPUR)				
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Management)				1
	Doctor of Philosophy (Technology)				1
				Total	2
2	Post-Graduate Degrees	ID	I	II	Total
	Master of Business Administration	0	89	1	90
	Master of Computer Applications	13	50	4	67
	Master of Tourism Management	0	0	1	1
			Total		158
3	Under-Graduate Degrees	ID	ı	II	Total
	Bachelor of Business Administration	136	39	2	177
	Bachelor of Computer Applications	146	51	10	207
			Total		384
		Grand T	otal		544

	31st CONVOCATION (NOIDA)				
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				2
	Doctor of Philosophy (Technology)				1
			Tot	al	3
2	Post Graduate Degrees	ID	I	II	Total
	Master of Business Administration	0	11	1	12
	Master of Computer Applications	0	3	2	5
	Master of Technology (Computer Science and Engineering)	0	1	0	1
			Tot	al	18
3	Under-Graduate Degrees	ID	ı	II	Total
	Bachelor of Business Administration	41	25	5	71
	Bachelor of Computer Applications	20	14	6	40
	Bachelor of Science (Animation and Multimedia)	29	5	0	34
			Tot	tal	145
		(Grand To	tal	166

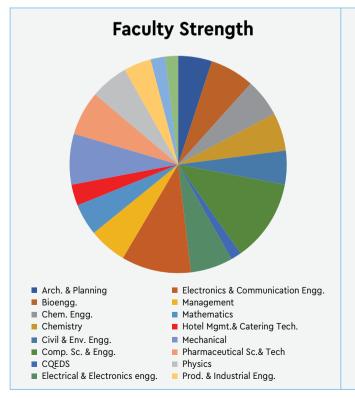
	31st CONVOCATION (JAIPUR)				
1	Doctor of Philosophy				Total
	Doctor of Philosophy (Engineering)				1
	Doctor of Philosophy (Management)				1
				Total	2
2	Post Graduate Degrees	ID	ı	II	Total
	Master of Animation Design	0	4	0	4
	Master of Computer Applications	3	5	2	10
				Total	14
_					_
3	Under-Graduate Degrees	ID	I	II	Total
3	Under-Graduate Degrees Bachelor of Business Administration	1 D	3	3	Total
3			-		
3	Bachelor of Business Administration	13	3	3	19
3	Bachelor of Business Administration Bachelor of Computer Applications	13 15	3 17	3	19
3	Bachelor of Business Administration Bachelor of Computer Applications Bachelor of Engineering (Computer Science)	13 15 35	3 17 12	3 3 3	19 35 50
3	Bachelor of Business Administration Bachelor of Computer Applications Bachelor of Engineering (Computer Science) Bachelor of Engineering (Electrical and Electronics)	13 15 35 16	3 17 12 13	3 3 3 2	19 35 50 31
3	Bachelor of Business Administration Bachelor of Computer Applications Bachelor of Engineering (Computer Science) Bachelor of Engineering (Electrical and Electronics) Bachelor of Engineering (Electronics and Communication)	13 15 35 16 15	3 17 12 13 24	3 3 3 2	19 35 50 31 40

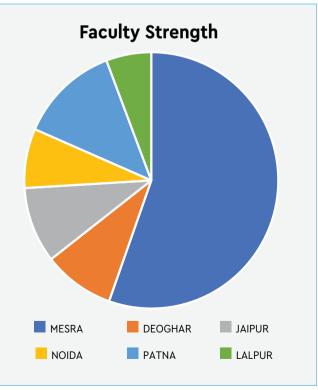
	31st CONVOCATION (UNIVERSITY POLYTECHNIC)						
1	Under-Graduate Degrees	ID	ı	II	Total		
	Bachelor of Science (Medical Lab Technology)	21	17	2	40		
	Total				40		
2	Diploma	ID	I	II	Total		
	Diploma in Automobile Engineering	12	44	17	73		
	Diploma in Computer Engineering	14	7	9	30		
	Diploma in Electrical and Electronics Engineering	18	15	1	34		
	Diploma in Electronics Engineering	6	13	7	26		
	Diploma in Manufacturing Engineering	8	10	9	27		
	Diploma in Mechanical Engineering	14	13	2	29		
			Total		219		
		Gra	nd Total		259		

31st Convocation (Pass out from March 2020 to April 2021)									
S. No.	Contor		Course						
5. NO.	Center	Ph.D	PG	UG	Diploma	Total			
1	Mesra	23	441	814	0	1278			
2	Patna	3	11	411	0	425			
3	Deoghar	1	0	162	0	163			
4	Allahabad	4	0	0	0	4			
5	Lalpur	2	158	384	0	544			
6	Noida	3	18	145	0	166			
7	Jaipur	2	14	191	0	207			
8	University Polytechnic	0	0	40	219	259			
					TOTAL	3046			

Faculty Strength:

The faculty percentage in terms of total sanctioned post for last five years is presented in the following chart. The faculty segregation based on gender and regular / contractual TEQIP Faculties are also presented in the next figure. Finally, a Department wise faculty distribution is provided. A total of 318 faculties are present in Mesra (as on 30.06.2022)





DEPARTMENT

Department of Architecture & Planning

SECTION 1

DEPARTMENTAL PROFILE



1.1 About the Department:

The Department of Architecture & Planning was established at BIT Mesra in the year 1993, in keeping with the multifarious scope of Architecture & Planning as the art and science of designing spaces and adding value to a meaningful, built environment. It is a subject which is a combination of faculties of engineering, science as well as 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 in the contemporary domain, by

- > Providing innovative professionals who will contribute wholesomely to nation building.
- > Providing individuals who can make significant contribution to the advancement of the 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. The programme through its pedagogy which is heuristic and responsive to technological, cultural, and social environments, seeks to offer a diverse, interdisciplinary and rigorous curriculum that will promote personal development and professional excellence.

Studying in the Department of Architecture & Planning

Department of Architecture & Planning, BIT Mesra, a leading center for research and teaching in architecture, urban design, and sustainable design, is one of the top-ranking Architecture & Planning Department in the country. The department is noted for its meticulous teaching leading to fundamental, applied research and collaboration with leading experts from practice and industry. Since its inception

in 1993, the Department has made a substantial contribution in the national and international arena by rendering academic and professional services.

Department of Architecture & Planning, BIT Mesra ranks 8th as per India Today 2022

Department of Architecture & Planning, BIT Mesra ranks 6th as per Education World 2021 Department of Architecture & Planning BIT Mesra has been ranked 25th position in NIRF

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.

Students also get a scope to exercise the applicability of the entire course learning in the Final Year Thesis dissemination.

Architecture students find rewarding employment in planning, design and construction industries.

Many pursue higher studies in India and abroad in City Planning, Urban Design, Landscape Architecture, Conservation, Construction Management – to name a few.

SECTION 2 RESEARCH PROJECTS

2.1 Sponsored Projects (Research and Consultancy)

Ongoing Projects:

2022

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	AICTE MODROBS	PI – Dr. Satyaki Sarkar	AICTE	2021	₹8,00,000/-	2 years
2.	Rehabilitation of PAFs at ECL Rajmahal Project	PI- Dr. Manjari Chakraborty; Co-PI Dr. Rajan Chandra Sinha; Ar. Prashant Prasad; Ar. Abhinandan Bera	ECL	25 th April 2022	₹23,60,000/-	3 months
3	Developing a toolkit for assessing housing needs for scheduled tribes in urban areas	Dr. Smriti Mishra (PI) Ms. Anila S. Surin (Co- PI)	BIT, Mesra	July 2019	₹2,00,000/-	2Yrs.
4	Role of water bodies on settlement pattern: a case study of Ranchi district	Shama Parween	BIT, Mesra	24/12/2020	₹1,91,000/-	2Yrs.
5	Implications of Plot level redevelopment, A case of Ranchi	Ar. Rizwan Kazmi	BIT, Mesra	24/12/2020	₹1,95,000/-	2Yrs.
6	People -place connection: Local People's preoaration of foagship ganga riverfront case of Patna	Ar. Anjali Pathak	BIT, Mesra	24/12/2020	₹13,00,000/-	2Yrs.

7	Understanding Impact	Ar. Tiwari Pavan Kumar	BIT,	24/12/2020	₹1,90,000/-	2 Years
	of colonial urbanism		Mesra			
	and sanitary polices					
	on the contemporary					
	urban geography and					
	challenges to urban					
	sewage management in					
	Allahabad					

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1.	Technique of Design, Analysis and Retrofitting of Skyscrapers	Dr. Manjari Chakraborty, Dr. Satyaki Sarkar, Dr. Prashant Prasad	BIT, Mesra	13 th – 17 th Dec 2021
2	Mobility in Sustainable Cities	Dr. Manjari Chakraborty, Dr. Satyaki Sarkar, Dr. Prashant Prasad	BIT, Mesra	20 th - 24 th June 2022
3.	Stakeholder Interaction Session	Dr. Smriti Mishra Ar. Anila S Surin	BIT, Mesra	05 th May 2022
4.	Symposium-2022 – Journey in Architecture School & Beyond	Ritu Agrawal	BIT Mesra	08 th March 2022
5.	Alumni connect	Ritu Agrawal	BIT Mesra	09 th April 2022
6.	Seminar on Heritage Conservation & Site study by Shri S.D. Singh, ITRHD	Satyaki Sarkar	BIT Mesra	28 ^h March 2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Ar. Ritu Agrawal	Mobility in Sustainable Cities (STTP- Online)	BIT Mesra, Ranchi	Department of Architecture and Planning, BIT Mesra, Ranchi	Online	20 th -24 th June 2022
2.	Ar. Ritu Agrawal	National Research Development Workshop on 'Statistical Technique and Data Analytics' (Online)	BIT Mesra, Ranchi	Department of Management, BIT Mesra, Ranchi	Online	10 th – 14 th June 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
3.	Ar. Ritu Agrawal	Research Methods in Architecture (STTP-Online)	BIT Mesra, Ranchi	Department of Architecture and Planning, NIT Patna	Online	11 th – 15 th April 2022
4.	Ar. Ritu Quantitative Methods for Qualitative Research in Architecture and Planning(FDP – Online)	BIT Mesra, Ranchi	COA-TRC, Bhopal and IES College of Architecture, Trissur, Kerala	Online	7 th – 11 th March 2022	
5.	Ar. Ritu Agrawal	Intellectual Property Rights in Architecture and Design (FDP – Online)	BIT Mesra, Ranchi	AICTE- QIP Sponsored -MITS Gwalior	Online	21 st – 25 th Feb 2022
6.	Ar. Ritu Agrawal	Techniques of Design, Analysis, and Retrofitting of Skyscrapers (STTP – Online)	BIT Mesra, Ranchi	Department of Architecture and Planning, BIT Mesra, Ranchi	Online	13 th – 17 th Dec 2021
7.	Ar. Ritu Agrawal	Inclusive Initiatives for Sustainable Development - Need and Relevance of Interdisciplinary Research (FDP - Online)	BIT Mesra, Ranchi	Amity Business School (ABS), Amity Law School (ALS) and Amity School of Architecture and Planning (ASAP), Amity University Kolkata	Online	16 th – 21 st Aug 2021
8.	Ar. Ritu Agrawal	Addressing Livability in a Post-Pandemic World (FDP – Online)	BIT Mesra, Ranchi	Amity School of Architecture and Planning, Kolkata and Centre for Science and Environment (CSE)	Online	14 th – 20 th July 2021
9.	Smriti Mishra	Techniques of Design, Analysis, and Retrofitting of Skyscrapers	BIT Mesra, Ranchi	BIT Mesra, Ranchi	Virtual/ Online mode	13 th - 17 th Dec 2021
10.	Smriti Mishra	'Archi-Nari' – A Women's Perspective in Architectural Capacity Building	Council of Architecture	Council of Architecture and SAL School of Architecture, Ahmedabad, Gujrat	Virtual/ Online mode	8 th – 11 th March 2022
11.	Smriti Mishra	Making Indian Cities Disaster and Climate Change Resilient Towards Responsive and Actionable Urban Planning, Policy and Development" from organized by	National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India	National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with IMPRI Impact and Policy Research Institute	Virtual/ Online mode	23 rd – 25 th May 2022



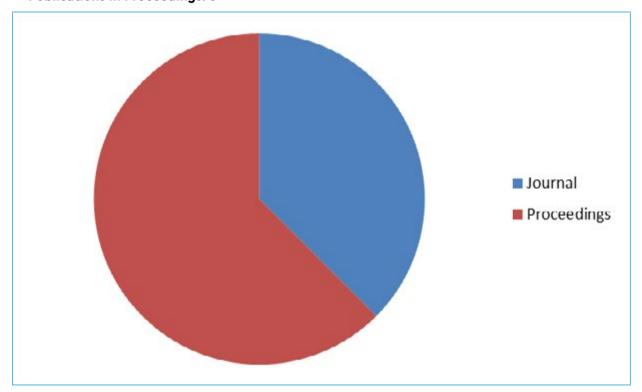
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
12.	Smriti Mishra	Training of ArcGIS Pro Essential Workflows	BIT Mesra, Ranchi	ESRI	Online mode	5 th – 7 th Jan 2022
13.	Rizwan Kazmi	Intellectual Property Rights in Architecture & Design	AICTE-QIP	Madhav Institute of Technology & Science, Gwalior	Online	21 th - 25 th Feb 2022
14.	Rizwan Kazmi	'ARCHI-NARI' – A WOMEN'S PERSPECTIVE IN ARCHITECTURAL CAPACITY BUILDING	COA-TRC Pune	COA-TRC Pune	Online	8 th – 11 th March 2022
15.	Rizwan Kazmi "Provisions of Energy Conservation Building Code"		COA in collaboration with Aayojan School of Architecture	COA & BEE	Online	4 th – 8 th April 2022
16.		Module 2: Professional Ethics & Sustainability	AICTE	National Initiative for Technical Teacher's Training	Online Course (Swayam)	September to February 2022
17.	Rizwan Kazmi	Module 3: Communication Skills, Modes & Knowledge Dissemination	AICTE	National Initiative for Technical Teacher's Training	Online Course (Swayam)	September to February 2022
18.	Rizwan RACHNA: Innovative Mazmi Construction Technologies & Thermal comfort for Affordable Housing		MoHUA	CSB Cell, GIZ, BMTPC, GoJ	Ranchi Smart City Auditorium, Ranchi	7 th April 2022
19.	Shama Parween	Intellectual Property Rights in Architecture & Design	AICTE-QIP	Madhav Institute of Technology & Science, Gwalior	Online	21 st – 25 th Feb 2022
20.			COA-TRC Pune	COA-TRC Pune	Online	8 th – 11 th March 2022
21.	Shama Parween	STTP on Mobility in sustainable Cities	Department of Architecture & Planning	Department of Architecture &Planning and NIUA	Online	20 th – 24 th June 2022
22.	Shama Parween	RACHNA: Innovative Construction Technologies & Thermal comfort for Affordable Housing	MoHUA	CSB Cell, GIZ, BMTPC, GoJ	Ranchi Smart City Auditorium, Ranchi	7th April 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
23.	Dr. Bimal Chandra Roy	Advances in Teaching and Research in the Field of Disaster Resilience and Green Technology for Sustainable Development Goals"	Ministry of Home Affairs, Govt. of India, New Delhi	National Institute of Disaster Management,	On-line	6 th – 10 th June 2022

SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals: 3

Publications in Proceedings: 5



SECTION 5

AWARD / PATENT / COLLABORATIONS

5.1 MoUs / Collaborations (between 1st July 2021 to 30th June 2022):

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	National Institute of Urban Affairs, New Delhi	Sustainable & Inclusive Urban Development	2021 (3 years)
2.	Indian Trust for Rural Heritage & Development	Rural Heritage Preservation	2021 (5 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.	Model Making Workshop	Aditi	Rizwan Kazmi & Shama Parween	16 th - 17 th -April 2022	
2.	RACHNA	-	Dr. Rajan Sinha & Rizwan Kazmi	2 nd – 22 nd July 2022	

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Dr. Manjari Chakraborty	Professor & Head
2.	Dr. Satyaki Sarkar	Associate Prof.
3.	Mrs. Ritu Agrawal	Assist. Prof.
4.	Dr. Smriti Mishra	Assist. Prof.
5.	Dr. Bimal Chandra Roy	Assist. Prof.
6.	Dr. Rajan Chandra Sinha	Assist. Prof.
7.	Mr. Anuj Kr. Toppo	Assist. Prof.
8.	Mr. Mrinal Pathak	Assist. Prof.
9.	Mr. Apurv Ashish	Assist. Prof.
10.	Ms. Anila S. Surin	Assist. Prof.
11.	Mr. Tiwari Pavan Kumar	Assist. Prof.
12.	Ms. Anjali Pathak	Assist. Prof.
13.	Mr. Rizwan Kazmi	Assist. Prof.
14.	Ms. Shama Parveen	Assist. Prof.
15.	Dr. Prashant Prasad	Assist. Prof.
16.	Ar. Abhinandan Bera	Assist. Prof.

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Ar. Sudipta Chakraborty	Adjunct Professor	Department of Architecture & Planning BIT, Mesra Ex-Chief Architect, CMPDIL, Ranchi.
2.	Prof. Chetan V. Vaidya	Adjunct Professor	Department of Architecture & Planning BIT, Mesra Ex Director School of Planning and Architecture (SPA), New Delhi

6.4 Board of Studies

Sr. No.	Name of the Member	nber Designation	
Intern			
1.	Prof. Manjari Chakraborty	Professor & HOD	Chairman
2.	Dr. Smriti Mishra	Assist. Prof., Architecture & Planning	Member
3.	Dr. Bimal Chandra Roy	Assist. Prof., Architecture & Planning	Member
4.	Prof. Akhouri Pramod Krishna Prof. & Head Dept. of Remote Sensing		Member
5.	Prof. Sudeshna Chakravarty Prof. & Head Dept. of Civil & Environment Engg.		Member
6.	In-charge	Dept. of Architecture, BIT Patna	Member
Exter	nal Member		
1.	Prof. Chetan Vaidya	Ex-Director, School of Planning and Architecture, New Delhi	
2.	Prof. Gaurav Raheja	Professor, Department of Architecture & Planning, Indian Institute of Technology, Roorkee	
3.	Ar. Sudipta Chakraborty Ex-Chief Architect, CMPDIL, Ranchi		
4.	Dr. Mini Malhotra	Research & Development Wing, Oak Ridge National Laboratory, Tennessee, USA	

SECTION 7 OTHER INFORMATION

7.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1	Uttkarsh Anand	Gold Certificate – 6 week Architectural Writing Workshop	Ar. Apurva Bose Dutta, ACEDGE	Jan-Feb 2022, Online
2	Ridhhi Sharma & Nayanthara R. & Stevenson Barla	First Runner-up NATCON	Indian Institute of Architect	Nov, 2021
3	Dipansh Sha, Adarsh Akash & Sritej Kumar	First Prize, NATCON	Indian Institute of Architect	Nov, 2021
4	Uttaksh Anand, Slok Maskara, Harsh Singh, Shubham Sinha, Samridhhi Khanna	ANWESHAN – Short Film Trophy – 2022	Annual NASA	January, 2022

7.2 Distinguished Visitors from Industry/Academia/Research organizations

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 Atanu Chakraborty, Director of PRAKALP Kolkata	13 th April 2022	
2.	Shree Deo Singh, State Head, ITRHD	28 th March 2022	

7.2 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1.	Gaurav Gupta/93 batch	ARCHLINE Design Pvt. Ltd -Noida, India Managing Director & Principal Architect
2	Mamta Uppal/93 Batch	Works at Dimensions Design Build Inc
3	Sandeep Kumar/93 batch	Sr General Manager at Salarpuria Sattva, Bengaluru
4	Roop Chanda/94 batch	Associate Director at RSP Design Consultant's INDIA Pvt Ltd Bengaluru
5	Shaon Sikta Sengupta/94batch	Edifice Consultants Pvt. Ltd
6	Biplob Nandy/94 batch	Principal Architect, Biplob Nandy & Associates, Siliguri
7	Trisha Debdas/96 batch	Head of Business Planning and Operations for Strategic Accounts at Refinitiv Greater New York City
8	Apurb Minz/96 batch	Principal Architect, Apurb & Associates, Ranchi
9	Framarz Mistry/97 batch	Director, Design Technology Mohawk Industries, Greater Atlanta
10	Dogra Gurjeet Singh/ 98 batch	PROVECTUS TECH CONSULTANTS - Business Director, Jamshedpur

7.3 Infrastructure Development

ARC GIS 3D city Engine installed under AICTE MODROBS

One new A3 colour printer installed

New furniture with displays and students work storage added to studios

Department of Bioengineering and Biotechnology

SECTION 1 DEPARTMENTAL PROFILE

1. About the Department:





Vision

The Department of Bioengineering has a vision to impart international standard quality education in the field of Bioscience, Biotechnology and Bioengineering.

Mission

- » To create state-of-the-art infrastructure for Research and Training in Biotechnology and Bioengineering.
- » To provide globally acceptable technical education in Bioscience, Biotechnology and Bioengineering.
- » To nurture graduates for innovation and creativity in the field of Bioscience, Biotechnology and Bioengineering having ethical and social concern.
- » To promote collaboration with Academia, Industries and Research Organizations at National and International level.
- » To contribute to socio-economic development through education and bioentrepreneurship.

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	Duration of the Project
1.	Identification of the most active cocoonase of sericigenous insects through molecular characterization	Dr D. M. Pandey	DBT, New Delhi	21 Feb-2018	₹ 22.93 Lacs only (CTR&TI, Ranchi; IISER, Pune; BIT Mesra with Total 71.23 Lacs)	20 th Aug 2021



Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
2.	Development of Novel Antileukemics through Structural and Functional Studies of Engineered and Chimeric Plant type Asparaginase	Co-PI	SERB (DST, Govt. of India)	January, 2022	₹ 33,66,000/	3 years
3.	In-silico design and validation of boronic acid-based molecules for the treatment of colorectal cancer: Computer aided hit to lead discovery	Dr. Alok Jain (PI)	Department of Biotechnology, India	02/07/2019	₹ 11,360,000/-	5 years
4.	Self-fitting 4D-Printed Smart Scaffolds with Efficient Bone Regenerative Potential (FILENO. CRG/2021/002179)	Dr. Sneha Singh (PI) Dr. Dilip Kr. Singh (Co-PI-BIT Mesra) Prof. Ashok Kumar (Co-PI- IIT Kanpur)	SERB-CRG	24/12/2021	₹ 70,56,808/-	03 years
5.	Development of multi-functional nano- HAP bone substitute for effective bone regeneration in critical defects (FILE NO. DST/NM/ NT/2018/48)	Dr. Sneha Singh (PI, BIT Mesra) Dr. Abhimanyu Dev (Co-PI-BIT Mesra) Prof. Ashok Kumar (PI, IIT Kanpur) Dr. Saravanan Mathesharan (Co- PI-IIT Kanpur)	DST Nanomission	10/07/2019	₹ 1,13,25,480/-	03 years
6.	Analysis and identification of features from neural dynamics and their correlations with autonomic nervous system for development of hybrid brain-computer interface	Dr. Rakesh Kumar Sinha	AICTE	14.08.2021	₹ 17.64706 Lacs	03 years
7.	Development of Novel Antileukemics Through the structural and Functional Studies of Engineered and kimeric Plant-Type Asparaginases	Dr. H. R. Singh (Co-PI) Dr. V. K. Nigam (Co-PI)	SERB(DST) Govt. of India.	08.02.2022	₹ 33.66264 Lac	03 years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
8.	Molecular characterization of type VI secretion system in Enterobacter species	RP Singh	DBT	01 JULY 2021	₹1,13,60,000/	5 Years

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted

Si No		Coordinator	Funding / Sponsoring Agency	Date of Event
1.	International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021)"	Dr. D. M. Pandey	IINRG, Ranchi; IIAB, Ranchi; CTR&TI, Ranchi & IFP Ranchi ACITE, DBT GOI, CSIR New Delhi	27 th - 30 th Oct 2021

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

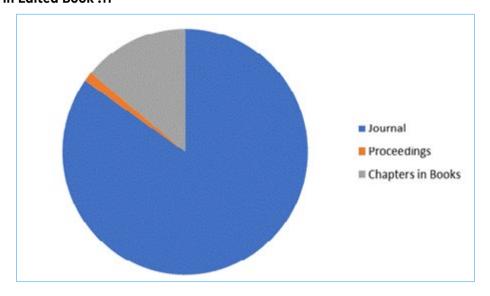
Faculty Members

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Sneha Singh	International Online Conference on Materials Science and Technology (ICMT), 2021	-	Mahatma Gandhi University, Kottayam, Kerala, India & Gdansk University of Technology, Gdansk, Poland & Wroclaw University of Technology, Wroclaw, Poland	Online	12 th – 14 th Nov 2021
2.	S. Ghosh Sachan	5-day online FDP on "Inculcating Universal Human Values in Technical Education" F.No AICTE/ FDP-SI/OnlineWorkshop /201/112937	-	AICTE		
3.	Dinesh Prasad	5 Days FDP on Genome Engineering for Environment"	AICTE Training And Learning Academy		Centre for the Environment, Indian Institute of Technology Guwahati, Assam, India (Online)	23 rd – 27 th August 2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
4.	D. M. Pandey	7 Days National Workshop on GENOME EDITING		Glostem Private Limited	Online	27 th June - 03 rd July 2022
5.	Dr. Koel Mukherjee	One week programme on "Advanced Instrumental Techniques in Chemistry and Material Sciences"	DST-STUTI programme	Department of Chemistry, BIT Mesra, Ranchi,	BIT Mesra	9 th – 15 th May 2022
6.	Dr Anjana Dwivedi	"Inculcating Universal Human Values in Technical Education"	AICTE	AICTE	Online	29 th Nov - 3 rd Dec 2021

SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals : 67
Publications in Proceedings: 1
Chapter(s) in Edited Book :11



SECTION 5 AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Muthu Kumar Sampath	International Research Experience (SIRE)	SERB	National	2022

5.2 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	Ashok Kumar, Sneha Singh, Archita Gupta, Prerna Singh, Sneha Gupta, Sanjay Kumar Mehta	A Delivery System for Phytobioactives in Bone Healing	APPLICATION NUMBER 202211024100	2022	The patent deals with the exploration of different local delivery systems for phytobioactives for their sustained delivery and efficient bone healing
2	Singh RP, Zvi Hayouka, Tirosh O	Genetically modified bacteria and use there of	US Patent, application no63/221,135)	2021	

5.3 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1	IIT Gandhinagar	Research Collaboration	2020 - Ongoing
2	Central University Gujarat	Research Collaboration	2020 - Ongoing
3	Central University Rajasthan	Research Collaboration	2020 - Ongoing
4	Guru Nanak Dev University, Amritsar	Research Collaboration	2020 - Ongoing
5	Biocon Academy Bangalore	Povide internship opportunities for the stuents with Biocon Limited, Bangalore.	2021 – Ongoing
6	CTR&TI, Ranchi, Jharkahnd & IISER, Pune	Research Collaboration	2018 - Ongoing
7	Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India	Research collaboration in the area of tissue engineering	2016 – Present
8	University of Miyazaki, Miyazaki, Japan	Research collaboration in the area of tissue engineering	2017 - Present

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1. List of Faculties

Sr. No.	Name	Designation
1	Dr. Rakesh Kumar Sinha	Professor and Head
2	Dr. Kunal Mukhopadhyay	Professor and Dean
3	Dr. Padmini Padmanabhan	Professor
4	Dr. Ramesh Chandra	Professor
5	Dr. Dev Mani Pandey	Associate Professor

6	Dr. Vinod Kumar Nigam	Associate Professor
7	Dr. Manish Kumar	Associate Professor
8	Dr. Raju Poddar	Associate Professor
9	Dr. Shashwati Ghosh Sachan	Assistant Professor
10	Dr. Alok Jain	Assistant Professor
11	Dr. Sheela Chandra	Assistant Professor
12	Dr. Santosh Kumar Jha	Assistant Professor
13	Dr. Koel Mukherjee	Assistant Professor
14	Dr. Shubha Rani Sharma	Assistant Professor
15	Dr. Dinesh Prasad	Assistant Professor
16	Dr. Yogender Aggarwal	Assistant Professor
17	Dr. Anjana Dwivedi	Assistant Professor
18	Dr. Soham Chattopadhyay	Assistant Professor
19	Dr. S. Muthu Kumar	Assistant Professor
20	Dr. Sneha Singh	Assistant Professor
21	Dr. Rajnish P. Singh	Assistant Professor (Ramalinga Fellow)

6.2 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	HOD, Department of Bioengineering and Biotechnology	Professor & HOD	Chairman
2.	Dr. K. Mukhopadhyay	Professor	Member
3.	Dr. (Mrs.) Padmini Padmanabhan	Professor	Member
4.	Dr. Ramesh Chandra	Professor	Member
5.	Dr. Manish Kumar	Associate Professor	Member
6.	Dr. Soham Chattopadhyay	Assistant Professor	Member
7.	Dr. Gautam Sarkhel	Professor (Chem Eng)	Member
8.	Dr. Ashok Sharon	Professor (Chemistry)	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.	Nishi Prakash Tiwari	1st Best Poster award at during "International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021)"	Department of Bioengineering and Biotechnology BIT Mesra in association with, Ranchi; IINRG Ranchi; IIAB Ranchi; CTR&TI Ranchi, & IFP Ranchi	October 27 to 30, 2021 BIT Mesra

2.	Umang Kumar	2 nd Best Poster award at during "International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021)"	Department of Bioengineering and Biotechnology BIT Mesra in association with, Ranchi; IINRG Ranchi; IIAB Ranchi; CTR&TI Ranchi, & IFP Ranchi	October 27 to 30, 2021 BIT Mesra
3.	Alka Yadav	Best Poster award at Biosangam 2022: An International Conference On Emerging Trends In Biotechnology organized by Motilal Nehru National Insititute of Technology (MNIT) Allahabad	Motilal Nehru National Insititute of Technology (MNIT) Allahabad	March 10-12, 2022.

7.2 Distinguished Visitors from Industry/Academia/Research organizations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Dr. Nitin Kulkarni, Director, IFP, Ranchi	February 08, 2022	
2.	Dr. S. K. Panda, Professor, Central University of Rajasthan, Ajmer, Rajasthan, India	June 27, 2022	

7.3 Any other relevant information

1. Dr. Nitin Kulkarni, Director, IFP, Ranchi and Team visited BIT Mesra on February 08, 2022 and interacted with Professor Indranil Manna, Hon'ble Vice Chancellor, BIT Mesra.





From L to R: Prof. R. K. Sinha, Dr. Y. Mishra, Prof. I. Manna, Dr. Nitin Kulkarni, Prof. C Jeganathan and Dr. D. M. Pandey

2. An International Symposium on Plant Biotechnology towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021) was organized by Department of Bioengineering and Biotechnology, Birla Institute of Technology (BIT), Mesra, Ranchi, India in association with ICAR-Indian Institute of Agricultural Biotechnology (ICAR-IIAB) Ranchi, India; ICAR-Indian Institute of Natural Resins and Gums (ICAR-IINRG), Ranchi, India; Institute of Forest Productivity (IFP), Ranchi, India; Central Tasar Research and Training Institute (CTR&TI), Ranchi, India; and The Biotech Research Society, India (BRSI) at BIT Mesra, Ranchi, India during October 27–30, 2021.



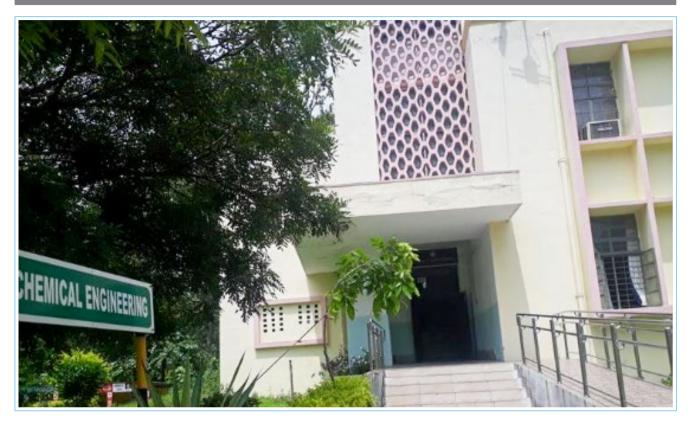
Release of ISPB-2021 Souvenir by dignitaries in CAT Hall from L to R: Prof. R. K. Sinha, Dr. C. Chattopadhyay, Dr. K. Sathyanarayana, Prof. I. Manna, Dr. K. K. Sharma and Dr. D. M. Pandey

7.4 Special Covid Initiatives, if any:

We have recently carried out the research to identify the reasons for Omicron immune evasion. Notable mutations and their effect was characterised that explain the structural basis of antibody efficacy in Delta and a compromised neutralisation effect for the Omicron variant. Our, results pave the way for robust vaccine design that can be effective for many variants. Source: Comput. Biol. Med. (2022, Accepted)

Department of Chemical Engineering

SECTION 1 DEPARTMENTAL PROFILE



1.1 About the Department:

The Department of Chemical Engineering with well qualified faculty provides high standard of education in the diversified fields of Chemical Engineering. The Department has immense strength in the area of Polymer Engineering. The Department received national recognition by winning the Gold Trophy for Plasticon Award 2012 in the category of Best Educational Institution Contributing to Plastics. The Plasticon Award was conferred on 1st February 2012, at 8th International Plastics Exhibition and conference. The programme was supported by Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Government of India. Faculty members are working on sponsored projects and collaborative research with various organizations. The Department is also recognized under DST-FIST.

The Department has modern and sophisticated laboratories and workshop facilities such as Chemical Engineering Unit Operation laboratory, Chemical Reaction Engineering Laboratory, Process Control Laboratory, Synthesis Laboratory, Energy Engineering Laboratory, Polymer Characterization Laboratory etc. The Department has excellent facilities in Polymer Processing Workshop and Product Development Laboratory including mould design and manufacturing facility. The various materials in characterization facilities include Instron Universal Testing Machine, Rigaku wide angle X-Ray diffractometer, ATLAS accelerated weathering testing system, HAAKE Rheometers. The Product Development facilities include MCP HEK vacuum casting system for prototyping and Stratasys Fused Deposition Modelling system rapid prototyping. The students are trained in various CAE applications in the field of product and process design with various software such as ASPEN PLUS, Accelrys, MATLAB, PROENGINEER, ANSYS, CATIA, FLUENT, POLYFLOW, and MOLDFLOW.

There are several Projects sponsored by DRDL, DST, Ministry of New and Renewable Energy, Coir Board etc. to the credit of the Department. Major research areas are: Nanotechnology, Advanced Polymer Composites, Alternative Energy, Bio-resources Utilization, Pollution Control, Water Treatment Technologies, Polymer Blends and Interpenetrating Polymer Networks, Nano filtration Membrane, Recycling of Polymer Waste, Specialty Polymer, Colloids and Interfacial Science, Tissue Engineering, Sensors, Fuel Cell Membrane.

The Department conducts short and long-term courses in Polymer Processing, Quality Control, CAE, etc. Apart from manpower development, consultancy and testing facilities to the plastics industries are also provided. The Department also conducted an Integrated Industrial Training Programme in plastics processing industry at Amiantit Oman, in Sultanate of Oman.

VISION

To be a centre of excellence for the provision of effective teaching/learning, skill development and research in the areas of chemical engineering and allied areas through the application of chemical engineering principles.

MISSION

- 1. To educate and prepare graduate engineers with critical thinking skills in the areas of chemical engineering & polymer science and engineering, who will be the leaders in industry, academia and administrative services, both at national and international levels.
- 2. To inculcate a fundamental knowledge base in undergraduate students which enable them to carry out post-graduate study, do innovative interdisciplinary doctoral research and to be engaged in long-life learning.
- 3. To train students in addressing the challenges in chemical, petrochemical, polymer and allied industries by developing sustainable and eco-friendly technologies.

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	Duration of the Project
1.	Development of process technology for enhanced resistant starch content in rice and rice based snack (Puffed rice)	PI: Dr. Anupam Roy	DST-SERB	06.06.2019	₹ 53.06 Lacs	3 years
2.	Development of non destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid	PI: Dr. Anupam Roy	DBT	04.02.2021	₹ 57.9 Lacs	3 years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
3.	Role of hybrid nanofillers on the physiochemical and tribological behaviour of polymer nanocomposite for load bearing advanced mechanical components applications	Co-Pl: Dr. J Sudeepan	DST-SERB	03.03.2022	₹45.84 Lacs	3 years
4.	Design and development of low cost technology for micronutrient protein-fortified whole grain puffed rice	PI: Dr. Anupam Roy	ICMR	01.05.2022	₹ 51.02 Lacs	2 years
5.	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	PI: Dr. Anupam Roy	ICMR	01.06.2022	₹ 11.67 Lacs	3 years
6.	Design and Development of Energy Efficient modified refrigeration system using Phase Change Material and its CFD analysis	PI: Dr. Debasree Ghosh	DST-SERB	08.06.2022	Rs 29.81264 Lacs	3 years

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Biopolymer based nano- layer fortification of self- assembled micronutrients over pre-conditioned rice: Retention of fortified nutrients and scale up studies	Pl: Dr. Anupam Roy	ICMR	01.11.2019	₹ 42.973 Lacs	31.05.2022

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

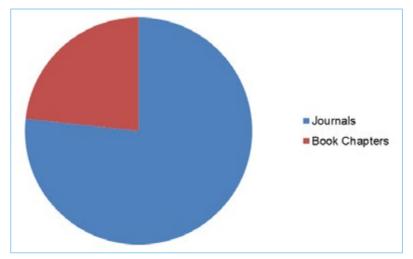
Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1	One-day webinar was organized on "Waste 2 Wealth"	Dr. A.K. Sen, Dr.Anand Bharti, Dr. Rohit Kumar	Institute Funding	12.03.2022

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

Sr. No		Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Arnab Karmakar	Two Weeks Self-Paced Online FDP on "Delivering Online Course using Canvas LMS"	Birla Institute of Technology Mesra on	Birla Institute of Technology Mesra	Birla Institute of Technology Mesra	28 th June to 9 th July, 2021
2.	Dr. B. C. Ruidas	AICTE-NITTTR Course on module 1: orientation towards technical education and curriculum aspects AICTE-NITTTR Course on module 8: Institutional Management and Administrative Procedures AICTE-NITTTR Course on module 6: Student Assessment and Evaluation		AICTE-NITTTR	Online	September 2021
3.	Dr. Anand Bharti	5-days AICTE Training And Learning (ATAL) Academy Online Elementary Faculty Development Programme on "Biomass to fuels, Chemicals and value-added products for sustainable energy and environmental future"		National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	20 th December to 24 th December 2021

SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals: 56
Chapter(s) in Edited Book: 17



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. Rohit Kumar	Sumant Sinha Sustanability Leadership Award	Renew Power	National	13.11.2021

5.2 Patents (Applied / Granted)

Sr.	Name of the Inventor	Title of the Invention	Application / Patent No. (As	Year
No.			applicable)	

5.3 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area	Year / Duration

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co- Ordinator (If any)	Faculty Co- ordinator (if any)	Date / Duration
1.	Session on Higher Studies, Speaker- Ms. Prerna, K-14 Batch (Chemical Engineering), currently pursuing PhD at University of Minnesota.	-	Dr. Sumit kumar Jana	19 th February 2022, 1 hr.
2.	INDUSTRY CONNECT HZL, Speaker – Mrs. Sunipa Roy, Chief Commerical Officer, Hindustan Zinc limited.		Dr. Sumit kumar Jana	12 th February 2022, 1 hr.
3.	Session on Higher Studies, Speaker- Mr. Prasoon Kumar, K-15 Batch (Chemical Engineering), currently pursuing PhD at University of Iowa.		Dr. Sumit kumar Jana	15 th January 2022, 1 hr.
4.	Essay Competition		Dr. Sumit kumar Jana	11.01.2022 to 11.02.2022

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Dr. Gautam Sarkhel	Professor
2.	Dr. Sudipta Goswami	Professor
3.	Dr. Akhil Kumar Sen	Associate Professor
4.	Dr. Arup Choudhury	Associate Professor

Sr. No.	Name	Designation
5.	Dr. G.T. Mohanraj	Associate Professor
6.	Dr. Pulak Datta	Assistant Professor
7.	Dr. Debasree Ghosh	Assistant Professor
8.	Dr. Sumit Kumar Jana	Assistant Professor
9.	Dr. Sudeepan Jayapalan	Assistant Professor
10.	Dr. Arnab Karmakar	Assistant Professor
11.	Dr. Amarnath Mishra	Assistant Professor
12.	Dr. Abhijit Mondal	Assistant Professor
13.	Dr. Anupam Roy	Assistant Professor
14.	Dr. Bidhan Chandra Ruidas	Assistant Professor
15.	Dr. Amit Kumar Tiwari	Assistant Professor
16.	Dr. Anand Bharti	Assistant Professor
17.	Dr. Yogendra Nath Prajapati	Assistant Professor
18.	Dr. Rohit Kumar	Assistant Professor

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation	
1.	Prof. Subhabrata Ray	Adjunct Professor	Ex-Prof. IIT Kharagpur	
2.	Prof. Chandan Guha	Adjunct Professor	Ex. Head Jadavpur University	
3.	Dr. Anuranjan Pandeya	Adjunct Professor	Scientific Digital System	
4.	Dr.Suvendu Bhattacharyay	Adjunct Professor	Ex-Chief Scientist CFTRI	

6.4 Board of Studies:

Chemical Engineering

Sr. No.	Name of the Member	Designation	Role	
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	

Sr. No.	Name of the Member	Designation	Role
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, IIT D	External Member
13.	Dr. H.N. Mishra	N. Mishra Ex-Professor, Department of Food and Agricultural Engineering, IIT KGP	
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 Engineereing, 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, SAII	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students, if any

Publications in Journals:

- I. Karmakar, Arnab, Dipanjan Kar, Adil Ahmad, and Sumit Kumar Jana. "Design of a Thermal Desalination System with Spray Flash Drum and Condenser under Vacuum Based on Droplet Dynamics." Heat and Mass Transfer, 2021. https://doi.org/10.1007/s00231-021-03152-4.
- II. Pandit, Aniruddha Bhalchandra, Sarvar Abbas, and Joydeb Mukherjee. "Mathematical Modelling of Pulsatile Blood Flow in Straight Rigid Artery System." Transactions of the Indian National Academy of Engineering, 2022. https://doi.org/10.1007/s41403-022-00349-9.
- III. Sinha, Ritika, Swaraj Sengupta, and Sudeepan Jayapalan. "Effect of Hybrid Fillers on the Mechanical Behavior of Polypropylene Based Hybrid Composites." Journal of the Indian Chemical Society 99, no. 2 (2022). https://doi.org/10.1016/j.jics.2021.100317.
- IV. Tiwary, Pragya, Prabha Nisha Toppo, and Arnab Karmakar. "Transient Analysis and Parameter Estimation with Optimizations in a Plate Heat Exchanger." Sādhanā 47, no. 3 (2022): 125. https://doi.org/10.1007/s12046-022-01885-4.

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Abhishek Kumar Patra (BTECH/10645/18)	Global Winner for the Undergraduate track of the COINS Grand Challenge 2021	COINS Global, an International construction management software company based in UK	Sept 2021, Online

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
2.	Priyanshi Shrivastava (BTECH/10414/19)	MITACS Globalink Research Internship Award 2022	MITACS Globalink	May 2022 - July 2022 University of British Columbia, Vancouver, Canada
3.	Kumar Ayush (BTECH/10527/19)	MITACS Globalink Research Internship Award 2022	MITACS Globalink	May 2022 – July 2022 University of Regina, Saskatchewan, Canada
4.	Naman Singh Bhandari (BTECH/10518/19)	MITACS Globalink Research Internship Award 2022	MITACS Globalink	May 2022 – July 2022 University of Regina, Saskatchewan, Canada

7.3 Distinguished Visitors from Industry/Academia/Research organizations:

	Distinguished Visitors from muostry/Academia/Research organizations.						
Sr.	Name of Visitor with Affiliation	Date of Visit	Picture				
No 1.	Prof. K. D. P. Nigam (Ex. Professor, IIT Delhi)	22.10.2021					
2.	Prof. Subhabrata Ray, (Ex-Prof. IIT Kharagpur)	24.03.2022 - 25.03.2022					
3.	Prof. Purnendu Ghosh (Executive Director, Birla Institute of Scientific Research, Jaipur)	18.04.2022 - 19.04.2022					

7.4 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1.	Aparajita, BE/1499/2009,	Aparajita (BE/1499/2009) was student of 2009 batch of department of chemical engineering, BIT Mesra, Ranchi. Aparajita cleared UPSC-CSE exam in the year 2017 with an All India rank of 40 and Got IAS cadre. Presently, she is woking as Additional Commissioner, Municipal Corporation Faridabad.
2.	Kumar Arvind Bedia (BE/1242/11)	Apperead in JPSC 2021 and earned 193 rd rank. Mr. Bedia has been selected in Jharkhand Administrative Service.
3.	Prashant Kumar (BE/10706/13)	Apperead in JPSC 2021 and earned 39 th rank. Mr. Prashant has been selected in Jharkhand Police Service.

7.5 Infrastructure Development

Development of Labs:



Chemical Engineering Lab II





Applied Food Chemistry, Microbiology and Process Engineering

7.6 Any other relevant information:

The following Instruments has been purchased:

- » Vapour- Liquid Equilibrium (VLE) Apparatus
- » Colony Counter
- » Millipore Water Purification System
- » Karl Fischer Titrator
- » Paristaltic Pump
- » PROTON EXCHANGE MEMBRANE
- » Fuel Cell Test Station

- » Fermentor/BioReactor
- » EIS Measurement Impedance Analyser
- » Catalytic Fixed Bed Tubular Reactor
- » Continous Photochemical Reactor
- » COD Digestion Apparatus
- » Rotational Viscometer
- » Rancimat
- » Potentiometric titrator
- » Modified Soacking Chember

Department of Chemistry

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department



About the Department:

Vision

To become a recognized center of excellence for teaching, research, and innovations and contribute significantly to producing academic professionals and entrepreneurs in frontier chemical sciences.

Mission

- » To impart quality education and fundamental concepts of chemical sciences to students & scholars through our state-of-the-art laboratory, teaching, and research facilities
- » Building a scientific environment and motivation towards innovation with quality research in chemical sciences and interdisciplinary areas.

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	Duration of the Project
1	Biocompatibility and mechanical studies of nanostructured HAP, metal doped nanostructured HAP on alumina by RF Magnetron Sputtering.	PI:Dr.Deep Shikha Co PI:Dr.S.K.Sinha	SERB	23/02/2022	27.7 Lac	3

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
2.	Combination of small light emitting molecules with carbon materials for next generation optoelectronics	PI: Dr. Anirban Pradhan Co PI: NA	SERB- DST	22/06/2022	16 Lac	2022 to 2024
3	Metal organic frameworks and sequential electrocoagulation for remediation of mining effluents	Pl:Dr.Sumit Mishra	SERB- DST	02/03/2022	25 Lac	2022 to 2025
4	Development of non- destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid	Co-PI: Dr S Naskar	DBT	04/02/2021	57.9 Lac	

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Synthesis and development of novel HSP90 inhibitors as potential anti-HIV candidate molecules and elucidation of their mechanism of inhibition	PI: Dr. A. Sharon	DST-SERB	03/10/2018	23.33 Lac	31/03/2022
2	Band-Gap Engineering of Lead-Free Perovskite Quantum-Dots for Optoelectronic Application	Pl: Dr. Joydeep Dhar Co-Pl: Dr. A. Sharon	AICTE-TEQIP CRS	11/07/2019	11. 45 Lac	

c) Consultancy Projects carried out/ongoing:

SI.		Funding Agency	Duration		Grant	Principal	Ongoing	
No.	Project		from	to	mobilized (₹ Lacs)	Investigator / Co- Investigator	Completed*	
1.	Single Crystal Analysis	Dr. Reddy Lab, Hyderabad	02/02/2022	Continue	2	PI: Dr. A. Sharon	Ongoing	

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1	Advanced Instrumental Techniques in Chemistry and Materials Sciences (AITCMS22)	Dr. S. Mishra	DST-STUTI	09 th – 15 th May 2022
2	"Instrumentation & Computation for Experimental Pedagogy in Chemical Education"	Dr. S. Naskar	Institute	09 th June 2022
3	Cloud-Based Hands-on Workshop on Computational Chemistry, Molecular Modeling. Drug Design, and Biologics.	Dr. J. Dhar and Dr. D. Chakraborty	Institute	21 st – 23 rd Dec 2021

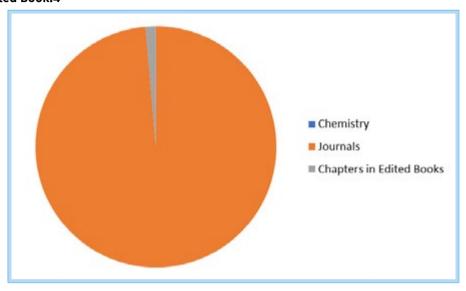
3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. S.S. Mahapatra	27 th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Recent Advances in Catalysis Science & Engineering (RACSE)	International Academy of Physical Sciences	Department of Chemistry National Institute of Technology (NIT) Jamshedpur	NIT Jamshedpur	26 th – 28 th October 2021
2.	Dr. S.S. Mahapatra	International Conference on Thermo Fluids and System Design (ICTFSD 2022)	BIT-Mesra	Department of Mechanical Engineering Birla Institute of Technology Mesra, Ranchi Jharkhand	BIT-Mesra	22 nd – 23 rd March 2022
3.	Dr. Anirban Pradhan	Short Term Training Programme on Research Methodology- Basic	BIT-Mesra	BIT-Lalpur off campus Ranchi	BIT-Lalpur off campus Ranchi	23 rd – 27 th May 2022

SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals :28 Chapter(s) in Edited Book:4



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
1.	S. K. Swain, A. Panda, Usha Jha, S. A. Kumar;	A household filter unit using iron ore fines (IOF) and manganese ore (MO) for decontamination of arsenic from groundwater.	Patent no.398783	Awarded: June 08, 2022	Water Purification System
2.	A. Sharon, C. Bal, P. K. Kushwaha, N. Kumari	3-(Isoxazolylmethyl)- 1,2,4-Oxadiazole Derivatives and method of preparing the same.	202031034370 A	Publication: Feb 18, 2022	Discovery of New Chemical Entity with Method

5.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Wilmot Cancer Institute, University of Rochester Medical Center, Rochester, New York, USA	Computational Biology: PI: Dr. A. Sharon	2018-Continue

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1 List of Faculties

Sr. No.	Name	Designation
1.	Dr. A. Sharon	Professor & Head
2.	Dr. P. K. Srivastava	Professor
3.	Dr. U. Jha	Professor
4.	Dr. J. P. Pandey	Professor
5.	Dr. B. Verma	Associate Professor
6.	Dr S. Mishra	Associate Professor
7.	Dr. S. Naskar	Associate Professor
8.	Dr. P Kar	Associate Professor
9.	Dr. C. Bal	Associate Professor
10.	Dr. Deepshikha	Assistant Professor
11.	Dr. B. D. Ghosh	Assistant Professor
12.	Dr. S. S. Mahapatra	Assistant Professor
13.	Dr. G. Sen	Assistant Professor
14.	Dr. G. K. Agrawal	Assistant Professor
15.	Dr. J. Dhar	Assistant Professor
16.	Dr. Anirban Pradhan	Assistant Professor
17.	Dr. Debdutta Chakraborty	Assistant Professor
18.	Dr. Atul Kumar	Assistant Professor

6.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. Amit Basak	Sr. Adjunct Professor	Former Professor, IIT Kharagpur

6.3 Board of Studies

Sr. No	Name of Member	Designation	Role
1.	HOD	Head of the Department (Ex-Officio)	Chairperson
2.	Dr. P.K. Srivastava	Professor Dept. of Chemistry	Member
3.	Dr. Usha Jha	Professor Dept. of Chemistry	Member

Sr. No	Name of Member	Designation	Role
4.	Dr. J.P. Pandey	Professor, Dept. of Chemistry	Member
5	Dr. Sumit Mishra	Associate Professor, Dept. of Chemistry	Member
6	Dr. Subhendu Naskar	Associate Professor, Dept. of Chemistry	Member
7.	Dr. P. Kar	Associate Professor, Dept. of Chemistry	Member
8.	Dr. C. Bal	Associate Professor, Dept. of Chemistry	Member
9.	Dr. G. Sen	Assistant Professor, Dept. of Chemistry	Member
10	Dr. T. Ghose	Professor, Dept. of Electrical and Electronics Eng.	Member
11	Dr. Sudip Das	Professor, Dept. of Space Eng. & Rocketry	Member
12	Dr. Pradyut Ghosh	Professor, Indian Association for the Cultivation of Science (IACS), Kolkata	External Member
13	Dr. Manas K. Ghorai	Professor, Indian Institute of Technology, Kanpur	External Member
14	Dr. Rakeshwar Bandichhor	Vice- President & Head of Chemistry, Dr. Reddy's Laboratories Ltd. Hyderabad	External Member
15	Dr. Satish Patil	Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Banglore	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.	Ms. Anindita Mukherjee		GD Goenka University, Gurugram	4 th April 2022

7.2 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Harsh Aryan Jalan, IMSc 2K19	AIR:32 in IIT JAM 2022 , Joined IIT Bombay for MSc.
2.	Prachi Priya , IMSc 2K19	AIR:140 in IIT JAM 2022, Joined IISc Bangalore for Integrated PhD .
3.	Sunidhi Raj, IMSc 2K19	AIR:510 in IIT JAM 2022. Joined IIT Patna for MSc.

Sr. No	Name, Batch and Affiliation	Short Description
1.	Bhavi Rathod, IMSc 2K19	AIR: 662 in IIT JAM 2022, Joined NIT Rourkela for MSc.
2.	Shaini Banerjee, IMSc 2K19	M.Sc Biotherapeutics in University College Dublin, Ireland
3.	Utkarsh Singh, IMSc 2K18	AIR:310 in IIT JAM 2021 Joined JNCASR, Bengaluru for Integrated PhD(Material Science).
4.	Shubhadeep Saha, IMSc 2K18	Joined IISER TVM for MSc
5.	Koustav Kundu, IMSc 2K17	Joined IIT Mandi for MSc
6.	Sayan Ghosh, IMSc 2K16	Joined Research Associate at Syngene International, Bangalore
7.	Asparshika Shruti, IMSc 2K16	Joined Bowling Green State University, USA for Ph.D
8.	Sumant Verma, IMSc 2K16	Working in ESL Vedanta, Bokaro
9.	Keshav Kishor, IMSc 2K15	Joined Department of Chemistry and Biochemistry, University of Delaware, Newark, DE, for PhD.
10.	Sneha Nayak, IMSc 2K15	Joined School of Molecular Sciences (Organic Chemistry), Arizona State University, Tempe, AZ, for PhD.
11.	Suryansh kashyap , IMSc 2K14	Joined as Assistant Scientist, DSRI CCRUM MINISTRY OF AYUSH GOVT OF INDIA, NEWDELHI
12.	Nilsha Ghosh, MSc 2K20	Assistant lecturer at Aakash institute, Bangalore
13.	ARPAN, MSc 2K19	Working in ESL Vedanta, Bokaro
14.	Dr. Shalini Divya, M.Sc. 2K10	CEO of the Tasmanian, an NZ-based battery manufacturing company
15.	Dr. Arijit Hazari, M.Sc. 2K13	Postdoctoral Research Associate (Marie Skå,odowska-Curie fellow) Institute of Inorganic Chemistryâ€< University of Stuttgartâ€<, Germany
16.	Monika Yadav, IM.Sc. 2K11	Graduate Research Assistant
		Department Of Chemistry, Purdue University, USA
17.	Shambhu Deo Chnadra, IM.Sc.	Graduate Research Assistant
	2K13	Department Of Chemistry The University of British Columbia, Canada
18.	Shrikant Singh, IM.Sc. 2K13	Graduate Research Assistant
		Department Of Chemistry University of Saskatchewan, Canada
19.	Simran, IM.Sc. 2K13	Graduate Research Assistant, Department Of Chemistry, Simon Fraser University, British Columbia, Canada
20.	Ela Rani, IMSc. 2K13	Personal teacher, Vedantu Ltd.
21.	Rishika Kothari, IMSc. 2K14	Junior Engineer, National Fertilizer Limited, Hyderabad
22.	Prem Kumar Kushwaha, IMSc. 2K15	Process R&D Scientist, Dr. Reddy Laboratories, Hyderabad
23.	Omanjana Goswami, IMSc. 2K12	Doctoral Candidate, Rutgers University, New Jersey, USA
24.	Tanmoya Akash Pradhan, B.Sc. Chemistry (2012–15)	Researcher at Asian Paints R & T Facility, Mumbai
25.	Rahul Jha B.Sc. Chemistry (2013- 16)	Graduate Research Assistant University of Kentucky, USA
26.	Siddharth Mukherjee B.Sc. Chemistry (2017–20)	IMBA Finance, SDA Bocconi, Milan, Italy

Sr. No	Name, Batch and Affiliation	Short Description
27.	K. Nikhila B.Sc. Chemistry	MSc-PhD dual degree in Environmental Sciences and Engineering, Indian Institute of Technology, Bombay
28.	Dr. Konreddy Anand Ph.D. Chemistry (2010–15)	Postdoctoral Research Associate University of Georgia Athens, Georgia, USA
29.	Dr. Mohan Kasula Ph.D. Chemistry (2010–15)	Assistant Professor
30.	Dr. Tuniki Balaraju Ph.D. Chemistry (2010–14)	Scientist, Aragen Biosciences, Hyderabad
31.	Dr Nandkishore Thombare Ph.D. Chemistry (2014–17)	Scientist, ICAR- Indian Institute of Natural Resins and Gums, Namkum, Ranchi- 834010
32.	Dr. Ch. Jamkhokai Mate Ph.D. Chemistry (2017–20)	Scientist, ICAR- Indian Institute of Natural Resins and Gums, Namkum, Ranchi- 834010
33.	Dr. Sweta Sinha PhD. Chemistry (2012–16)	Assistant Professor, Amity University – Ranchi Campus
34.	Dr. Usha Rani Grandhe PhD Chemistry (2011-15)	Postdoctoral Researcher University of Georgia Athens, Georgia, USA
35.	Dr Md. Shahid PhD Chemistry (2012–17)	Assistant professor (On Contract), Department of Chemistry, Central University of Jharkhand, Brambe, Ranchi.

7.3 Any other relevant information:

- a) Automated Flash Chromatography Purification System Installation for UG/PG/Research.
- b) Theoretical Chemistry and Molecular Modeling Facility Upgraded for UG/PG/Research

Department of Civil and Environmental Engineering

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department/Off Campus:





About the Department: The Department of Civil Engineering was established in 1957. It was renamed as Department of Civil and Environmental Engineering in 2014. The Department has well established laboratory facilities on:

- » Concrete and Road Materials
- » Geology
- » Hydraulics
- » Soil Mechanics
- » Structural Engineering
- » Surveying Laboratory
- » Computer Laboratory
- » Environmental Engineering

The faculty members are well qualified and are having degrees from reputed Institutes. Faculty members also possess work experience from reputed organizations from outside India. They are actively involved in research and consultancy. The department had contributed a lot in the infrastructural and industrial growth in Jharkhand by providing technical expertise and consultancy of worth several crores INR. Students from the Department have pursued internship from universities of international repute such as the Illinois Institute of Technology, Chicago. The Department has facilities for:

- » Field-testing in Geotechnical Engineering
- » Transportation Engineering
- » Non-Destructive Testing of concrete.

The Department offers the following programs:

Sr. No.	Programme	Year of Starting	Intake	NBA Accreditation
1	B.Tech. (Civil Engineering)	1957	60	2002, 2009, 2016
2	M.Tech. (Structural Engineering)	1967	12	2009, 2016
3	M.Tech. (Soil Mechanics and Foundation Engineering)	1967	12	2002, 2009, 2018
4	M.Tech. (Environmental Science and Engineering)	2002	18	2016

Vision

To develop quality intellectuals through education, research, and motivation, so that

Mission

- » To develop professional skills through quality education & research.
- » To outreach various sectors of society through interdisciplinary programmes and

they can bring a positive contribution to society, in areas of Civil & Environmental Engineering.

- practical oriented approach.
- » To create dynamic, logical, and effective leaders with inspiring mindsets.

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	Duration of the Project
1.	Performance Evaluation of Cement Concrete Pavements in Rural Roads	PI – Prof. Bindhu Lal, Co-PIs – Prof. Anand Kr. Sinha and Mr. Mani Mohan	NRIDA, Ministry of Rural Development, Government of India	01/04/ 2022	₹ 22.76 Lacs	One Year
2.	Prediction of Particulate Matter and Gaseous Pollutant Concentration Through ANN, PNN And CART Models and Comparison with CALPUFF and AERMOD In Singrauli Coal Mines,	PI- Dr. Tanushree Bhattacharya	Funding agency Coal India Ltd., scheme: R & D.	30/04/2021	₹ 85.25 Lacs	3 years
3	Effect of Blasting on Opencast Mine Dump and Development of Relationship between Blast Induced Vibration and Dump Design	Dr. S. Sengupta (PI) Dr. Indrajit Roy (Co- PI) Dr. A Pattnaik (Co-PI)	Ministry of Coal, Government of India	12/02/2021	₹ 33 Lacs	2 years
4	Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro- Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand	PI – Dr. Sukalyan Chakraborty Co-PI – Dr. Mili Ghosh and dr. madhu Priya	SERB-CRG	11/05/2022	₹ 38.5 Lacs	3 years
5	National Carbonaceous Aerosols Programme (NCAP): Working Group III – Emissions, sources apportionment and climate effects	Pl: R. Naresh Kumar Co-Pl: Jawed Iqbal	MoEFCC	01/04/2016	₹ 159.5 Lacs	7 Years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
6	Metal organic frameworks and sequential electrocoagulation for remediation of mining effluents	PI: Sumit Mishra Co-PI: Ashoke Sharon Co-PI: R. Naresh Kumar	SERB	01/04/ 2022	₹ 25.01 Lacs	3 Years

b) Projects Completed:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Development of Guidelines for Design of All Tiers of Shovel-Dumper Dump above Dragline Dump, with Delineation of Phreatic Surface, within Dragline Dump, throughout the Year and Validation Study of Two Dragline Mines under Coal India Limited	PI – Dr. Indrajit Roy, Co-PI – Prof. Anand Kr. Sinha, Prof. Sudeshna Chakravarty, and Prof. Bindhu Lal	Coal India Limited	01/04/ 2018	₹ 75.3 Lacs	31.1.2022
2	Mobility, Bioaccessibility and Source Apportionment Study of Toxic Heavy Metals in Indoor and Outdoor Dust Environment: An Isotope Fingerprinting Approach.	PI-Tanushree Bhattacharya	SERB	13/10/ 2017	41.907 Lac	12.09.2021

c) Consultancy Projects carried out/ongoing:

SI.	Title of Project	Funding	Duration	1	Grant	Principal	Ongoing
No.		Agency	from	to	mobilized (₹ Lacs)	Investigator / Co- Investigator	/ Completed
1.	Scrutiny of DPRs under PMGSY	NRIDA, Ministry of Rural Development, Government of India	Commencement of PMGSY in 2000	Ongoing	16.55 Lacs in FY 2021–2022	STA Coordinator - Prof. Anand Kr. Sinha, Member – Prof. Bindhu Lal	Ongoing
2.	Slope Stability Study of Rajmahal ocm	ECL	17.01.22	Ongoing	3.54 Lacs.	Indrajit Roy (PI) Dr. Sukalyan Chakraborty (Co-PI) Dr. Tanushree Bhattacharya (CO-PI)	Ongoing

SI. No.	Title of Project	Funding Agency	Duration from	to	Grant mobilized (₹ Lacs)	Principal Investigator / Co- Investigator	Ongoing / Completed
3	Slope Stability Study of Pachawara (N) ocm	BGR Mining	15.02.22	30.05.22	1.77 Lacs.	Indrajit Roy (PI) Dr. Kirti Abhishek (Co-PI) Dr. Jawed Iqbal (CO-PI)	Completed
4	Slope Stability Study of Flyash dumping ocm in Ghogha Surkha (under GPCL)	United Exploration	12.06.22	Ongoing	5.90 Lacs.	Indrajit Roy (PI) Dr. Kirti Abhishek (Co-PI) Dr. Ashish Kumar Patnaik (CO-PI) Dr. Neeta Kumari (Co-PI)	Ongoing
5	Slope Stability Study Gotitoria East & West	Golder Stone	30.06.22	On- going	7.08 Lacs	Indrajit Roy- PI. Dr. A.K Pattanaik, Dr. P Rajhans, Dr. S. Sen – CO-PI	Ongoing
6	Slope Stability of Umarsar, Mata- No Madh & Panandhro	GMDC	01.07.21	30.06.22	14.16 Lacs	Indrajit Roy- PI.	Completed
7	Augmentation report on Natural resources including arrying capacity of rivers and streams passing by the Catchment area and Its mitigation measures for Chandragupt Coal Mines, CCl, Ranchi	Sushree Chandragupt OCP mines pvt Ltd	13-06-22	ongoing	11.80Lacs	Kirti Avishek	Ongoing

SI.	Title of Project	Funding	Duration	Duration		Principal	Ongoing
No.		Agency	from	to	mobilized (₹ Lacs)	Investigator / Co- Investigator	/ Completed
8	Carbon footprint and carbon sink study due to proposed open cast mining at KBP.OCP	KBP Mines Pvt Ltd	13.5.22	Ongoing	10.62Lacs	Kirti Avishek	Ongoing

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Case Studies of Civil Engineering Projects in Steel Plants and Mines Planning and Management of Design and Execution	Mr. Mani Mohan Dr. Ashish Kumar Patnaik Dr. Puja Rajhans	contingency fund allotted for the CIL R&D Project (P. Code-09256)	02.12.2021
2	Guest Lecture Series (6 Nos)	HoD, CEE	BIT Mesra	18.09.2021 (2 Nos) 25.09.2021 09.10.2021 23.10.2021 30.10.2021
3	Guest Lecture Series (4 Nos)	HoD, CEE	BIT Mesra	14.05.2022 (2 Nos) 15.05.2022 (2 Nos)

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Siddhartha Sengupta	One Day Online Workshop on "Creating Lab-to-Land Ecosystem: Challenges & Opportunities"	IIT Indore	Jointly organized by Incubation Centre - Raja Ramanna Centre for Advanced Technology (RRCAT) and IIT Indore,	IIT Indore (Online)	14/08/2021
2	Dr. Siddhartha Sengupta	E-Faculty Development Program on "Deterioration, Diagnosis and Rehabilitation of RC Structures"	BIT Sindri	BIT Sindri	BIT Sindri (Online)	25/10/2021 - 29/10/2021

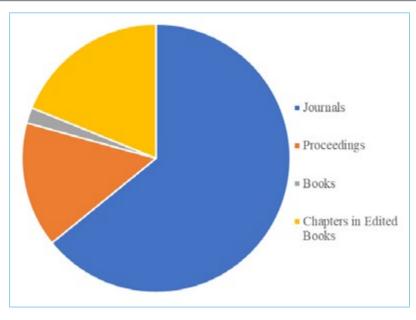
Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
3	Dr. Siddhartha Sengupta	AICTE Training And Learning (ATAL) Academic Online FDP on "Design Thinking for Excellence in OBE & Digital Learning"	AICTE	BIT Mesra	BIT Mesra (Online)	29/11/2021 - 03/12/2021
4	All Faculty members of the CEE Department	Case Studies of Civil Engineering Projects in Steel Plants and Mines – Planning, Management of Design and Execution	GOI	BIT Mesra	BIT Mesra	02/12/2021
5	Dr. Siddhartha Sengupta	Workshop on Research Methodology under SERB Scientific Social Responsibility Policy	SERB	NIT Jamshedpur	NIT Jamshdpur (Online)	04/12/2021
6	Dr. Siddhartha Sengupta	AICTE Training And Learning (ATAL) Academic Online FDP on "Experimental Learning in Geotechnical Engineering"	AICTE	NIT Nagpur	NIT Nagpur (Online)	06/12/2021 - 10/12/2021
7	Dr. Siddhartha Sengupta	Short Term Training Programme on "Techniques of Design, Analysis, and Retrofitting of Skyscrapers"	BIT Mesra	BIT Mesra	BIT Mesra (Online)	13/12/2021 - 17/12/2021
8	Dr. Siddhartha Sengupta	AICTE Training And Learning (ATAL) Academic Online FDP on "Aspects of Sustainable Construction Practices"	AICTE	Government College of Engineering, Nagpur,	Government College of Engineering, Nagpur, (Online)	_
9	Dr. Siddhartha Sengupta	Two days short training course (Hybrid mode) on "Application of Unsaturated Soil Mechanics on the Analysis of slopes" Under the project theme "Understanding Landslide Susceptibility and Adaptability in South East Asia (SEAL)"	Funded by UKRI- NERC	Jointly organised by IIT Mandi, Durham University, Universiti Kebangsaan Malaysia	IIT Mandi (Online)	24/02/2022 - 25/02/2022

Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
10	Dr. Siddhartha Sengupta	Workshop on Gender Sensitization Towards Workplace Etiquettes (GSTWE)	BIT Mesra	BIT Mesra	BIT Mesra	08/03/2022
11	Dr. Siddhartha Sengupta	One day webinar "Waste-2_Wealth"	BIT Mesra	BIT Mesra	BIT Mesra (Online)	12/03/2022
12	Dr. Siddhartha Sengupta	Five Days Online Faculty Development Programme on Industry-Academia Perspective on Civil Engineering Problems (IAPCEP – 2022)	AICTE	NIT Silchar	NIT Silchar (Online)	19/03/2022 - 23/03/2022
13	Dr. Siddhartha Sengupta	Two days international Workshop On Landslide Susceptibility and Adaptability in South- East Asia: Theory to Practice	Funded by UKRI- NERC	Jointly organised by IIT Mandi, Durham University, UKRI – National Environment Research Council, UK Research and Innovation	IIT Mandi (Online)	29/03/2022 - 30/03/2022
14	Dr. Siddhartha Sengupta	Online Short Term Training Programme on Mobility in Sustainable Cities	GOI	Organized by Dept. of Architecture & Planning, BIT Mesra, Ranchi in collaboration with National Institute of Urban Affairs, New Delhi,	BIT Mesra (Online)	20/06/2022 - 24/06/2022
15	Dr. Ashish Kumar Patnaik	QIP short term course on Traffic Flow Modelling	QIP	Organized by Dept. of Civil Engineering, IIT Bhubaneswar	IIT Bhubaneswar (Online)	26/07/2021 to 30/07/2021
16	Dr. Ashish Kumar Patnaik	6th Conference of Transportation Research group of India	NIT Trichy	TRG India & NIT Trichy	NIT Trichy	14/12/2021 to 17/12/2021
17	Dr. Sukalyan Chakraborty	Online International Symposium on Nanotechnology in Environment	Fujian Normal University, China	Fujian Normal University, China	Online	11th June 2021
18	Dr. Sukalyan Chakraborty	Annual meeting of Institute of Engineers, India, Ranchi Chapter	Institute of Engineers, Ranchi	Institute of Engineers, Ranchi	IEE Ranchi	19th Sept. 2021

Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
19	Dr. Sukalyan Chakraborty	International Webinar entitled "Restoration of Ecology,	IQAC, NSS Unit, Basundhara ECO Club of Belda College and IQAC, Women's Study Cell, COP & NSS Unit of Coach Behar college of West Bengal	Institute of Engineers, Ranchi	Online	8th Aug. 2021
20	Dr. Tanushree Bhattacharya	Mobility in Sustainable Cities, 20–24 th June 2022.	Department of Architecture and Planning, BIT Mesra and National Institute of Urban Affairs, New Delhi	BIT Mesra and National Institute of Urban Affairs, New Delh	BIT Mesra, online	20-24 th June 2022.
21	Dr. Tanushree Bhattacharya	International conference on Biotechnological Interventions to Overcome the Challenges of Covid/Post-Covid Era (BIOCope-2022).	Amity Institute of Biotechnology, Amity University of Rajasthan, Jaipur.	Amity Institute of Biotechnology, Amity University of Rajasthan, Jaipur.	online	24.3.2022- 25.3.2022.
22	Dr. Tanushree Bhattacharya	State Level Conference on 'Strengthening Research for Just Energy Transition in Jharkhand.	Centre for Environment and Energy Development (CEED).	Centre for Environment and Energy Development (CEED).	Ranchi	2.4.2022
23	Dr. Tanushree Bhattacharya	State Level Conference on 'Just Transition Dialogue.	Centre for Environment and Energy Development (CEED).	Centre for Environment and Energy Development (CEED).	Ranchi	20.10.2021.
24	Dr. Tanushree Bhattacharya	Webinar on Completion of 1 year of Transformative Reforms under National Education policy, 2020.	D/o School Education and Literacy/NCTE.	Ministry of Education and BIT Mesra	online	29.7.21- 10.8.21

Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
25	Dr. Tanushree Bhattacharya	Training on City Action plan and Third-Party Assessment	NEERI, iFOREST	World Bank	online	28.2.2022 to 4.3.2022
26	Dr. Neeta Kumari	UGC-sponsored GURU DAKSHTA 7 th Faculty induction programme	UGC	Ranchi University, Ranchi	Online	03/12/2021 to 30/12/2021
27	Dr. Neeta Kumari	International conference on thermo- fluids and system design (ICTFSD 2022)	B.I.T., Mesra	Dept of Mechanical engg. B.I.T., Mesra	Online	22-23 March, 2022
28	Dr. Neeta Kumari	International workshop on advanced statistical data analysis using SPSS	Science-Tech institute, Lucknow, UP	Science-Tech institute, Lucknow, UP	Online	21–27 January, 2022
29	Dr. Indrajit Roy	Monograph on Case Studies of Landslides in Coal and Lignite mines of India	Pennsylvania State university, USA	Pennsylvania State university, USA	Pennsylvania State university, USA	15.12.2021

SECTION 4 RESEARCH PUBLICATIONS



Publications in Journals: (International/National)-34

Publications in Proceedings: (International/National) with ISBN numbers only-8

Book: (with ISBN details)-1 **Chapter(s) in Edited Book-**10

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. Indrajit Roy	Invited lecture to Pennsylvania State University, USA	Pennsylvania State University, USA	International	December, 2021
2.	Dr. Tanushree Bhattacharya	Nodal Officer for Ranchi, NCAP	SPCB, RMC, Gol	National	2020-2024
3	Dr. Kirti Avishek	Best paper Award under UAV Based RS session	National Symposium on Advances in ReTmote Sensing: Trend, Challenges and Opportunity	National	2021
4.	Dr. Kirti Avishek	member of the Monitoring committee under National Green Tribunal (NGT) to evaluate the status of Illegal mining at Garwa	National Green Tribunal	National	

5.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	National Highway Authority of India (NHAI). India	Student internship and field visits by departmental faculties	5 years
2.	Jharkhand State Pollution Control Board (JSPC) and Ranchi Municipal Corporation (RMC), Jharkhand, India	National Clean Air Programme	3 years
3.	Jharkhand State Pollution Control Board (JSPC) and Jamshedpur notified Area Committee (JNAC), Jamshedpur, Jharkhand, India	National Clean Air Programme	3 years

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.	Presented research paper at "Nature conference on waste management and valorisation for a sustainable future"	Abhishek Kumar	Dr. Tanusree Bhattacharya	26/10/21 - 28/10/21

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
2.	Presented research paper at "2 nd International Conference on Waste Energy and Environment"	Abhishek Kumar	Dr. Tanusree Bhattacharya	23/09/21 - 24/09/21
3.	Presented research paper at "2 nd International Conference on Waste Energy and Environment"	Arpita Roy	Dr. Tanusree Bhattacharya	23/09/21 - 24/09/21
4	Presented research paper at "1st International Conference on Advances in Water Treatment and Management (ICAWTM-22)"	Aditya Kumar Jha	Dr. Sukalyan Chakraborty	25–26 March, 2022
5	Presented research paper at "2 nd International Conference on Waste Energy and Environment"	Aditya Kumar Jha	Dr. Sukalyan Chakraborty	23/09/21 - 24/09/21

6.2 List of Faculties

Sr. No.	Name	Designation	
1.	Dr. Anand Kumar Sinha	Professor	
2	Dr. Rajiv Ranjan Sahay	Professor	
3	Dr. Sudeshna Chakravarty	Professor	
4	Dr. Bindhu Lal	Professor	
5	Dr. Birendra Kumar Singh	Professor	
6	Dr. Siddhartha Sengupta	Associate Professor	
7	Dr. Kirti Avishek	Associate Professor	
8	Dr. R. Naresh Kumar	Associate Professor	
9	Dr. Sukalyan Chakraborty	Associate Professor	
10	Dr. Tanusree Bhattacharya	Associate Professor	
11	Mr. Mani Mohan	Assistant Professor	
12	Dr. Jawed Iqbal	Assistant Professor	
13	Dr. Neeta Kumari	Assistant Professor	
14	Dr. Ashish Kumar Patnaik	Assistant Professor	
15	Dr. Puja Rajhans	Assistant Professor	
16	Dr. Subhajit Sen	Assistant Professor	

6.3 List of Adjunct Faculties

Sr. No.	Name Designation		Affiliation
1.	Dr. Pulak Munshi	Adjunct Professor	M N Dastur & Co (P) Ltd.
2	Dr. Sunil K. Sinha	Adjunct Professor	Virginia Tech, Blacksburg, USA
3.	Dr. Indrajit Roy	Adjunct Faculty	BIT Mesra

6.4 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Sudeshna Chakravarty	Professor & HOD	Chairman
2.	Dr. Anand Kr. Sinha	Professor	Internal
3.	Dr. R. R. Sahay	Professor	Internal
4.	Dr. Bindhu Lal	Professor	Internal
5.	Dr. Birendra Kr. Singh	Professor	Internal
6.	Dr. Indrajit Roy	Associate Professor	Internal
7.	Dr. Kirti Avishek	Associate Professor	Internal
8.	Dr. Manjari Chakraborty	Professor and Head (Architecture)	Internal
9.	Dr. R. P. Sharma	Professor (Mechanical Engineering)	Internal
10.	Dr. S. K. Maity	Professor (ESE), IIT (ISM), Dhanbad	External
11.	Dr. Rajesh Kumar	Professor (CE), IIT (BHU), Varanasi	External
12.	Dr. Rakesh Pratap Singh	Associate Professor (CE), NIT Jamshedpur	External
13.	Mr. Sujib Chatterjee	Chief Manager (Civil), CMPDIL, Ranchi	External
14.	Mr. Rammohon Chatterjee	Retired CGM, CET, SAIL, Durgapur	External
15.	Mr. Suvendu Basu	Head, Redimix, Health and Safety, Lafarge, Kolkata	External
16.	Prof. (Dr.) Balram Singh	HOD, Patna Centre, BIT, Invited Member	External
17.	Miss. Muskan Gupta (BTECH/10051/18)	Student Representative	Internal
18.	Mr. Aditya Singh (BTECH/10503/18)	Student Representative	Internal

SECTION 7 OTHER INFORMATION

7.1 Publication by students if any

Publications in Journals: (International/National)

- Kanchan Lakra, Kirti Avishek (2022). A review of factors influencing fog formation, classification, forecasting, detection and Impacts. Rendi Conti Lenci. Springer.
- Kannan R. et al. (2021). Assessment of Ground Water Quality Index, Suitability for Irrigation and Domestic Purposes in Krishna-Godavari Delta Region, Southern India. J. Environ. Treat. Tech. V9, I4, 741–750. ISSN-2309–1185.Jul 21.
- 3. Pandey, S., **Kumari, N.** & Prasad, S.P. Soil quality and pollution assessment around Jumar watershed of Jharkhand, India. *Arab J Geosci* 14, 2784 (2021). https://doi.org/10.1007/s12517-021-09091-y
- Shweta Kumar, R. Naresh Kumar (2022). How effective aerated continuous electrocoagulation can be for tetracycline removal from river water using aluminium electrodes? Chemosphere, Vol. 305, 135476
- Shweta Kumari, R. Naresh Kumar (2022). Natural organic matter, acetaminophen and elements removal from river water by continuous electrocoagulation process using aluminium electrodes. Water Supply, Vol. 22, 4055–4066.
- 6. Maheshwarkar, P., Akarsh Ralhan, Ramya Sundar Raman, Kushal Tibrewal, Chandra Venkatraman, Abisheg Dhandapani, R. Naresh Kumar, Sauryadeep Mukherjee, Abhijit Chatterjee, Shahadev Rabha, Binoy K. Saikia, Ankur Bhardwaj, Pooja Chaudhary, Baerbel Sinha, Pradnya Lokhande, Harish C. Phuleria, Sayantee Roy, Mohd. Imran, Gazala Habib, M Azharuddin Hashmi, Asif Qureshi, Adnan Mateen Qadri, Tarun Gupta, Yang Lian, G. Pandithurai, Laxmi Prasad, Sadashiva Murthy, Meena Deswal, Jitender S. Laura, Anil Kumar Chhangani, Tanveer Ahmad Najar, Arshid Jehangir (2022). Understanding the influence of meteorology

- and emission sources on PM2.5 mass concentrations across India: first results from the COALESCE network. *Journal of Geophysical Research: Atmospheres*, Vol. 127, pp. 1-15.
- 7. Kumar, Abhishek, Tanushree Bhattacharya, Wasim Akram Shaikh, Sukalyan Chakraborty, Gary Owens, and Mu Naushad. "Valorization of fruit waste-based biochar for arsenic removal in soils." *Environmental Research* 213 (2022): 113710.
- Prathap, W.A. Shaikh, K. Baudhh & S. Chakraborty. Phyto-management potential of naturally thriving plants on the metal contaminated overburden dump of coal mines: a study from Jharkhand, India. Bioremediation Journal. HEAD-OF-PRINT, 2022, 1–11, https://doi.org/10.1080/108898 68.2022.2049682 (IF: 2.62)
- WA Shaikh, S Chakraborty, RU Islam, AA Ghfar, M Naushad, J Bundschuh, JP Maity & NK Mondal (2022) Fabrication of biocharbased hybrid Ag nanocomposite from algal biomass waste for toxic dye-laden wastewater treatment. Chemosphere. 289:133243. https://doi.org/10.1016/j. chemosphere.2021.133243
- 10. WA Shaikh, A Kumar, S Chakraborty, RU Islam, T Bhattacharya & JK Biswas (2022) Biochar-based nanocomposite from waste tea leaf for toxic dye removal: from facile fabrication to functional fitness. Chemosphere. 132788. https://doi.org/10.1016/j.chemosphere.2021.132788
- 11. WA Shaikh, S Chakraborty, G Owens & RU Islam, (2021) A review of the phytochemical mediated synthesis of AgNP (silver nanoparticle): The wonder particle of the last decade. Applied Nanoscience. 11:2625–2660

- D Thakur, AK Jha, S Chattopadhyay & S Chakraborty (2022) A review on opportunities and challenges of nitrogen removal fron wastewater using microalgae. International Journal of Experimental Research and Review. 26:141–157.
- V Singh, S Chakraborty & P Chaudhuri (2021) Quantification and polymer characterization of sediment microplastics along the Golden beach, Puri, India. Indian Journal of Geo Marine Sciences, 50 (07):574–584.
- 14. SP Lenka, WA Shaikh, G Owens, LP Padhye, S Chakraborty & T Bhattacharya (2021) Removal of Copper from Water and Wastewater Using Dolochar. Water Air Soil Pollution. 232, 167. https://doi.org/10.1007/ s11270-021-05135-x
- 15. A Mondal, S Chowdhury, NK Mondal, WA Shaikh, P Debnath, S Chakraborty (2021) Insecticidal and Fungicidal performance of bio-fabricated silver and gold nano particles. International Journal of Environmental Science and Technology https://doi.org/10.1007/s13762-021-03181-w
- 16. WA Shaikh, RU Islam, S Chakraborty (2021) Stable Silver nanoparticle doped mesoporous biochar-based nanocomposite for efficient removal of toxic dyes. Journal of Environmental Chemical Engineering. Volume 9, Issue 1, February 2021, 104982. https://oi.org/10.1016/j.jece.2020.104982.
- 17. R. Naresh Kumar, Mohini Verma, Jawed Iqbal and Shubhrasekhar Chakraborty (2022) How much spatial and temporal variations in groundwater microbiology can occur following open dumping of municipal solid waste? Water Practice & Technology, http://doi:10.2166/wpt.2022.066
- Pandey, S.; Saha, I.; Prakash, O.; Mukherjee, T.; Iqbal, J.; Roy, A.K.; Wasilewski, M.; Brar, L.S. CFD Investigations of Cyclone Separators with Different Cone Heights and Shapes. Appl. Sci. 2022, 12, 4904. (IF: 2.679) SCIE https://doi.org/10.3390/app12104904
- 19. Navin Prasad and Bindhu Lal, (2021)

- "Analysis of heat stress in an underground coal mine using computational fluid dynamics", Current Sciences, 121 (2), Pp 264–274, July 2021
- 20. Sanjoli Gupta, Bindhu lal and Shashwati Ghosh Sachan, (2021) "Improving the strength of sand by MICCP process using seashell", Journal of Geoengineering, 16(3), Pp 091-098, September 2021
- Abhishek Kumar, Tanushree Bhattacharya, Wasim Akram Shaikh, Sukalyan Chakraborty, Gary Owens, Mu Naushad, (2022), Valorization of fruit waste-based biochar for arsenic removal in soils, Environmental Research, 113710, ISSN 0013-9351, https:// doi.org/10.1016/j.envres.2022.113710. Impact factor 8.43
- 22. Abhishek Kumar, Tanushree Bhattacharya, Santanu Mukherjee, Binoy Sarkar. A perspective on biochar for repairing damages in the soil-plant system caused by climate change-driven extreme weather events. 4:22. Biochar, Springer Nature. DOI: 10.1007/s42773-022-00148-z. date of acceptance 13.3.22, published online 24th March 2022. Impact factor: 11.452
- 23. Arpita Roy, **Tanushree Bhattacharya**. Ecological and human health risks from pseudo-total and bio-accessible metals in street dusts. Environmental Monitoring and Assessment. DOI 10.1007/s10661-021-09658-y, accepted on 27.11.2021. Electronic ISSN 1573-2959, Print ISSN 0167-6369. Impact factor 3.307.
- 24. Tripta Narayan, Tanushree Bhattacharya, Soubhik Chakraborty, Swapan Konar. A Survey on Statistical Methods used in Air Quality Prediction. Indian Journal of Environmental Protection. ISSN: 0253 – 7141. Scopus indexed. Vol.42, No.5, 2022, 549–558.
- 25. Wasim Akram Shaikh, Abhishek Kumar, Sukalyan Chakraborty, Rafique Ul Islam, Tanushree Bhattacharya, Jayanta Kumar Biswas, Biochar-based nanocomposite from waste tea leaf for toxic dye removal:

- From facile fabrication to functional fitness, Chemosphere, 2021, 132788, ISSN 0045-6535, https://doi.org/10.1016/j.chemosphere.2021.132788. Impact factor:8.943.
- 26. Abhishek Kumar, **Tanushree Bhattacharya**, Wasim Akram Shaikh, Arpita Roy, Santanu Mukherjee, Manish Kumar, Performance evaluation of crop residue and kitchen waste-derived biochar for eco-efficient removal of arsenic from soils of the Indo-Gangetic plain: A step towards sustainable pollution management, Environmental
- Research, Volume 200, 2021, 111758, ISSN 0013-9351, https://doi.org/10.1016/j. envres.2021.111758. September 2021. Available online 23 July 2021. Impact factor: 8.43.
- 27. Swadhina Priyadarshini Lenka, Wasim Akram Shaikh, Gary Owens, Lokesh P. Padhye, Sukalyan Chakraborty & Tanushree Bhattacharya. Removal of Copper from Water and Wastewater Using Dolochar. Water Air Soil Pollut 232, 167 (2021). https://doi.org/10.1007/s11270-021-05135-x. SCI. Print ISSN 0049-6979. Impact factor: 2.984

Publications in Proceedings: (International/National)

- Bindhu Lal and Karnika Kochel, "Improving the Strength Characteristics of Soil Using Cotton Fibers", Proceedings of International conference on Soil Stabilization Techniques and Technologies, Toronto, Canada, July 19-20, 2021, pp 64–80 ISSN 1307–6892
- Bindhu Lal and Sukeerti Bansal, "Stabilization of soil using sewage sludge as admixture", Proceedings of XV International conference on Applied Research in Engineering and Management Sciences, August 13, 2021,pp 118–130 ISBN 978–81–953571–3-0
- Kumar, M., Ekbote, A. G., Singh, P. K., and Rajhans, P. (2022). Determination of shear strength of self-compacting treated recycled aggregate concrete beam elements. Materials Today: Proceedings.
- Patnaik, A.K., Gupta, A., Bhuyan, P.K. (2021).
 Performance assessment of roundabouts under mixed traffic conditions, Transport research procedia, Elsevier.
- Singh V., Chakraborty S. (2021) Quantification and Characterization of Microplastics in Kanke Lake, a Freshwater System of Ranchi, Jharkhand, India. In: Bhuiyan C., Flügel WA., Jain S.K. (eds) Water Security and Sustainability. Lecture Notes in Civil Engineering, vol 115. Springer, Singapore. https://doi.org/10.1007/978-981-15-9805-0 23

- Basu, S., Lakra, R., Kumari, R., Shaikh, W.A., Chakraborty, S. (2022). Separation of Congo Red Dye from Water Using AgNPs Based Hybrid UF Membrane. In: Ratan, J.K., Sahu, D., Pandhare, N.N., Bhavanam, A. (eds) Advances in Chemical, Bio and Environmental Engineering. CHEMBIOEN 2021. Environmental Science and Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-96554-9_68
- 7. Singh, ٧., Chakraborty, S. (2022).Microplastic Pollution in Freshwater Systems: A Potential Environmental Threat. In: Patra, B.C., Shit, P.K., Bhunia, G.S., Bhattacharya, M. (eds) River Health and Ecology in South Asia. Springer, Cham. https://doi.org/10.1007/978-3-030-83553-8_15
- 8. Pandey, S., and **Kumari, N**. (2021) Review on environmental impact assessment of food waste and its sustainable management based on circular economy. In Proceedings of Advances in Sustainable Research for Energy and Environmental Management (A. K. Mungray, V. N. Lad, A. Mungray, M. Chakraborty, & J. Singh (eds.); 1(1), pp (96). ISBN:978-81-955724-5-8

7.2 Distinguished Visitors from Industry/Academia/Research organizations

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 Somnath Mukherjee Former Joint General Manager, Mecon (Structural Division) & Consultant to JSPL	02/12/2021	
2.	Shri Ram Mohan Chattopadhyay Former Chief General manager (Civil & Structural division), SAIL	02/12/2021	
3.	Dr. Susmit Roy Former Head of Academics, MTI, SAIL (Formerly with CET, SAIL and M.N Dastur & Co. Ltd.)	02/12/2021	
4.	Dr. Anirban Chakraboty Associate Faculty, Hosei University, Japan	02/12/2021	

Shri Sujeeb Chatterjee
 General Manager (Civil), CMPDI

02/12/2021



Shri Sushovan Kundu
 General Manager (Civil), CMPDI

02/12/2021



7.3 List of Distinguished Alumni

Sr. No

1. Ms. Dorji Choden BE, Civil Engg Batch of 1984, Politician, Bhytople Works and Hyrospe

Bhutan's Works and Human Settlement Ministry

Name, Batch and Affiliation

Short Description



Minister

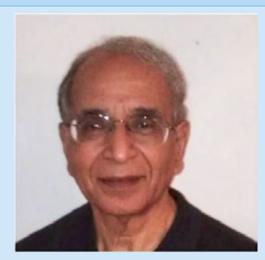
Aum Dorji Choden (born 5 December 1960) is a Bhutanese politician. She was appointed minister of Bhutan's Works and Human Settlement Ministry in 2013, making her the first woman to serve as a minister in Bhutan.

Dr. Niraj Verma
 BE, Civil Engg. Batch of 1980
 L. Douglas Wilder School of Government & Public Affairs.



Professor at L. Douglas Wilder School of Government & Public Affairs. Niraj Verma is an expert in urban planning and management. He joined the Wilder School in 2010 and served as its director and first dean until 2016.

 Mr. Surinder Chadha
 Bsc, Civil Engg. Batch of 1963,
 MetLife



Senior Consultant

 Mr. Sharad Jaipuriar
 BE, Civil Engg. Batch of 1980,
 MECON Limited



Retired General Manager,

I/C Civil and Architecture, MECON Limited.



5. Dr. B. K. Rath
Bsc, Civil Engg. Batch of
1966 Retired Director, NIT
Rourkela



Retired Director, NIT Rourkela

6 Madan Mohan Mohanka
B.Sc Civil (1959 - 1963)
Chairman/Executive
Director, Tega Industries Ltd



Chairman/Executive Director, Tega Industries Ltd

7 Dr. Gopal Pathak
B.E., Civil Engg. Batch of
1977
Vice Chancellor, Sarla Birla
University, Ranchi,
Former Vice Chancellor
Jharkhand Technical
University



Vice Chancellor, Sarla Birla University, Ranchi,

8 Sunil Sinha
BE, Civil Engg. Batch of 1986
Virginia Tech, Professor &
Director at SWIM Center



Virginia Tech, Professor & Director at SWIM Center

9 Arup Roy Choudhury
 BE, Civil Engg.
 Government Of India – West
 Bengal Chief commissioner
 (Ex)Chairman of The Board
 NTPC



Government Of India – West Bengal Chief commissioner (Ex) Chairman of The Board – NTPC

7.4 Infrastructure Development

- » Renovation work completed for Advanced instrumentation Lab that will support research facilities.
- » Several Advanced Instruments and software's have been procured in the Department for academic and research purpose such as
 - > Compression & Flexure Testing Machine with accessories,
 - > Los Angeles Abrasion Testing Machine,
 - > Crack Measurement Microscope,
 - > Benchtop Conductivity/TDS/Salinity meter,
 - > Chemical Fume Hood, Autoclave (automatic),
 - > Chlorophyll meter,
 - > Rough ness Coefficient,
 - > Ion selective sodium and potassium electrode
 - > Design Expert Version 13 etc.

Department of Computer Science and Engineering

SECTION 1 PROFILE

1.1 About the Departmennt:







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

The department has had academic collaborations with University of New Brunswick, Canada, University of Melbourne, Australia and University of Manitoba, Canada.

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.

Undergraduate Programmes

The Department offers a four-year B.Tech. programme in Computer Science and Engineering in eight semesters. All programmes are accredited by the All-India Council for Technical Education (AICTE).

The Undergraduate Programme offered by the Department are:

B.Tech. in Computer Science and Engineering (4 Years: 8-Semesters, Intake: 120)

B.Tech. in Information Technology (4 Years: 8-Semesters, Intake: 60)

Postgraduate Programmes

The Masters programme offered by the Department are:

M. Tech in Computer Science (2 Years: 4-Semesters, Intake: 16)

M. Tech in Information Technology (2 Years: 4-Semesters, Intake: 18)

M. Tech in Information Security (2 Years: 4-Semesters, Intake: 18)

Master of Computer Application (2 Years: 4-Semesters, Intake: 60)

Doctoral Programmes

The Department of Computer Science and Engineering offers PhD programmes in various branches of the subject.

Softwares Available

Sr. No.	Software	Sr. No.	Software
1.	IBM Rational Suit Enterprise	14.	Prolog
2.	MATLAB (Mathworks)	15.	Turbo C 3
3.	JAVA (1.8), (JAVA djk 1.7)	16.	LDRA
4.	Eclipse 4.4	17.	Turbo C++ 4.5
5.	NetBeans	18.	Argo
6.	Code Blocks	19.	Swi-Prolog
7.	MySQL	20.	Oracle database 10g express ed.
8.	R Studio	21.	Open Office
9.	CCS (Code Composer Studio)	22.	UniFlash
10.	Agro UML	23.	Jdk 1.8.0.51
11.	Code Blocks EP	24.	Rapid Miner Studio
12.	Python Anaconda 3	25.	Lingo 17
13.	TORA		

Sr. No.	Software	Sr. No.	Software
1.	MS Office	7.	WinRAR
2.	Acrobat reader	8.	Putty
3.	Google Chrome	9.	Internet Explorer
4.	Mozilla Firefox	10.	ESET Endpoint Security 5.0 (antivirus)
5.	NetSim Academic	11.	NetSim Standard
6.	Net Beans 8.1		

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	Duration of the Project
1.	Secured Data Analytics for Microgrid Energy Management System through Blockchain Technology	Co-PI (Dr. Shamama Anwar)	SERB (CRG)	January 2022	25,21,464/-	3 Years
2.	Machine Learning-based characterization and grading of minerals and establishment of image-based mineral repository for the state of Jharkhand.	PI (Dr. Subrajit Mohapatra) Co-PI (Dr. Shamama Anwar)	SERB (CRG)	February 2022	20,39,400/-	3 Years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
3	Machine Learning and Deep Learning Based Automatic Lunar Crater Detection using Terrain Mapping Camera-2 Dem Images	PI (Dr. Sanchita Paul)	ISRO	20 March 2022	21,98,520/-	3 Years
4	Mitigation of Electromagnetic Interference and Electromagnetic Compatibility issues in Wearable IoT device	Co-PI (Dr. Itu Singdh)	SERB	20 April 2021	29,95,300/-	3 Years

b) Projects Completed:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Smart Depression Diagnosis System	PI (Dr. Sanchita Paul)	Seed Money, BIT Mesra, Ranchi	4 th JUNE 2019	2 Lac	30 th JULY 2021

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1	IEEE International Conference on IoT and Blockchain Technology ICIBT-2022	Dr. K. S Patnaik Dr. Itu Snigdh	IEEE	6 th – 8 th May 2022
2	Deep Learning	Dr. K. K. Senapati	AICTE-ISTE	24 th – 29 th May 2021

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

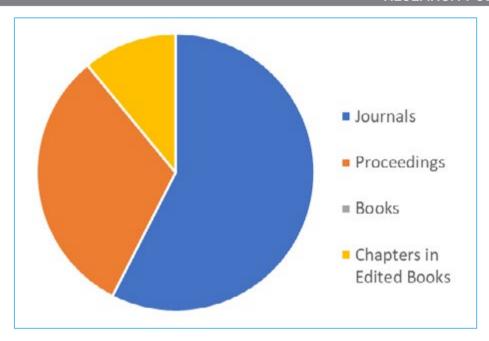
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Sanchita Paul	2nd International Conference on Nanoelectronics, Machine Learning, Internet of Things & Computing Systems (NMIC-2022) [AS A REVIEWER AND SESSION CHAIR]	ISVE AND IETE RANCHI	ISVE Ranchi	ARTTC BSNL, HAZARIBAG ROAD, RANCHI-835217	19 th - 20 th March 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
2	Dr. Shashank Pushkar	7th International Conference on Nanoelectronics, Circuits & Communication Systems	ISVE Ranchi Jharkhand India	ISVE Ranchi Jharkhand India	ARTTC, BSNL, Near Jumar River Bridge, Hazaribag Road, Ranchi-835217, Jharkhand, India	29 th – 30 th Jan 2022
3	Dr.Supreeti Kamilya	First Asian Symposium on Cellular Automata Technology (ASCAT 2022)	SPARC Project	IIEST Shibpur	Online	3 rd – 5 th March 2022
4	Dr. Supreeti Kamilya	International Conference on Advances in Data Science and Computing Technologies (ADSC-2022)	Kazi Nazrul University Asansol	Kazi Nazrul University Asansol	Kazi Nazrul University Asansol	23 rd – 24 th June 2022
5	Dr. Supreeti Kamilya	International Conference on Advances in Data Science and Computing Technologies (ADSC-2022)	Kazi Nazrul University Asansol	Kazi Nazrul University Asansol	Kazi Nazrul University Asansol	23 rd – 24 th June 2022
6	Dr. Kumar Rajnish	Thirteenth International Conference on Contemporary Computing (IC3- 2021) (IC3'21)	Jointly organized by Jaypee Institute of Information Technology (JIIT), Noida, India and the University of Florida, Gainesville, USA	Jaypee Institute of Information Technology (JIIT), Noida,	online	5 th – 7 th August 2021
7	Dr. K. K. Senapati	ATAL workshop on Data Science	IIIT, Pune	IIIT, Pune	Online	20 th – 24 th December 2021
8	Dr. K. K. Senapati	Summer School on Artificial Intelligence	IIIT Hyderabad	IIIT Hyderabad	IIIT Hyderabad	02 nd - 31 st August 2021
9	Dr. K. K. Senapati	ATAL workshop on Intelligence and Digital Forensics	SVNIT, Surat	SVNIT, Surat	SVNIT, Surat	9 th - 23 rd July 2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
10	Dr. K. K. Senapati	ATAL workshop on Augmented Reality and Virtual Reality on Engineering Applications	Anurag University	Anurag University	Anurag University	5 th – 9 th July 2021

SECTION 4

RESEARCH PUBLICATIONS



- 4.1 Publications in Journals: (International/National)-42
- 4.2 Publications in Proceedings: (International/National) with ISBN numbers only-23
- 4.3 Book: (with ISBN details)-0
- 4.4 Chapter(s) in Edited Book-08

SECTION 5

AWARD / PATENT / COLLABORATIONS

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

S			Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1	Dr. Jit Mukh	nerjee	IEEE IGARSS Full Travel Grant for Attending Conference	IEEE	International Level	2022
2	Dr. Supreet	i Kamilya	Best Paper Award	Kazi Nazrul University Asansol	International Conference (ADSC 2022)	2022

5.2 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	Shalini Mahato, Sanchita Paul	Hybrid Depression Detection System	Application Number: 202131031213	12 July 2021	Published, <u>Description</u> Developed An Emotiv Device With 19 Channel Electrodes For Detection Of Depression
2	Shruti Gedam, Sanchita Paul	Mental Stress Detection Using lomt Device And Machine Learning	Application Number: 202131045842	8 October 2021	Published <u>Description</u> Develop A Device Using Herat Rate, Tmp., Gsr , Ecg Sensor And Arduino For Detection Of Mental Stress
3	Sanchita Paul Shruti Gedam	Fatigue Detection In Industry Workers	Application Number: 202231005911.	3 February 2022.	Published <u>Description</u> Develop Two Devices-One For Detection Of Mental Health (Using Emotiv Epocx) And Physical Fatigue (Using Ecg ,Gsr And Tmp. Sensors)
4	Aamir Junaid Ahmad, Sabina Priyadarshini	Social Network Traceability System	Applied For	2022	A system (100) For Building Social Network Traceability technique, comprises of an input module (102) for taking atleast a natural language query as input from user; a generation module (104) for generating a token and a condition statement, wherein the tokens are generated from the input, wherein the condition statement is generated upon matching the generated token with a plurality of user defined parameters to trace relevant networks; anda classification module (106) for classifying the generated tokens based on the user defined parameters into a plurality of classes, wherein the generated tokens from the query is optimized by filtering a plurality of records stored in a database into the user defined parameters, wherein the plurality of records are filtered sequentially based on either an increasing or decreasing order of data in the record.

5.3 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Collaboration Work Has Been Done with Central Institute Of Psychiatrist, Kanke Road, Ranchi	Collaborative Work Has Been Done on Stress, Depression And Anxiety Patients With The Help Of Dr. Nishant Goyal For Research Purpose.	2021 To Till Date
2	Artificial Computing Machines Private Limited Ranchi	 Industrial Training & Visits: Industry and Institution interaction to provide an insight into the latest developments / requirements of the industries Guest Lectures: To deliver guest lectures to the students of the on the technology trends and in house requirements. Placement of trained students: To help the delivery of the training and placement of the students on the technology trends and in house requirements. 	February 2022, February 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	IEEE Megaproject, ACM Code-A-BIT	-	-	5/25/2022
2	Code -a- bit	-	-	5/25/2022
3	Network Attacks Prediction	-	-	5/25/2022
4	Ace it up 2.0	-	-	5/25/2022
5	Code Chef Starter 23	-	-	5/25/2022
6	The Lost Code	-	-	5/26/2022

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Dr. Sandip Dutta	Professor and Head
2.	Dr. (Mrs). V. Bhattacharjee	Professor
3.	Dr. D. K. Mallick	Associate Professor
4.	Dr. (Mrs.) Aruna Jain	Associate Professor
5.	Dr. Bhaskar Karn	Associate Professor
6.	Dr. V. K. Jha	Associate Professor
7.	Dr. K. S. Patnaik	Associate Professor
8.	Dr. K. Rajnish	Associate Professor

9.	Dr. Abhijit Mustafi	Associate Professor
10	Dr. Sujan Kumar Saha	Associate Professor
11	Dr. B. K. Sarkar	Assistant Professor
12	Dr. I. Mukherjee	Assistant Professor
13	Dr. (Mrs.) ItuSnigdh	Assistant Professor
14	Prof. Ritesh Jha	Assistant Professor
15	Prof. I. D. Ram	Assistant Professor
16	Dr. Anup Kumar Keshri	Assistant Professor
17	Dr. K. K. Senapati	Assistant Professor
18	Dr. (Mrs.) Amritanjali	Assistant Professor
19	Dr. (Mrs.) Sanchita Paul	Assistant Professor
20	Dr. (Mrs.) Shruti Garg	Assistant Professor
21	Dr. Sudip Kumar Sahana	Assistant Professor
22	Prof. B. K. Chanda	Assistant Professor
23	Dr. S. Pushkar	Assistant Professor
24	Dr. S. Priyadarshini	Assistant Professor
25	Dr. (Mrs.) Shamama Anwar	Assistant Professor
26	Prof. Kalyan Samanta	Assistant Professor
27	Dr. S. Mohapatra	Assistant Professor
28	Dr. (Mrs) Akriti Nigam	Assistant Professor
29	Dr. Sumit Srivasatava	Assistant Professor
30	Dr. Niraj Kumar Singh	Assistant Professor
31	Dr. Mrs. D. Mustafi	Assistant Professor
32	Dr. S. P. Singh	Assistant Professor
33	Dr. Satish Chander	Assistant Professor
34	Dr. Pankaj Gupta	Assistant Professor
35	Dr. Jit Mukherjee	Assistant Professor
36	Dr. Prashant Pranav	Assistant Professor
37	Dr. Suvendu Kanungo	Assistant Professor
38	Dr. Ranjan Kumar Behera	Assistant Professor
39	Dr. Supreeti Kamilya	Assistant Professor

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. (Prof.) Supratim Biswas	Adjunct Faculty	IIT Bombay
2.	Dr. (Prof.) R. K. Ghose	Adjunct Faculty	IIT Kharagpur

6.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr. S. Dutta	Professor & HOD	Chairman
2.	Dr. V. Bhattacharjee	Professor, CSE	Internal Member
3.	Dr. V. K. Jha	Associate Professor, CSE	Internal Member
4.	Dr. K. Rajnish	Associate Professor, CSE	Internal Member
5.	Dr. (Mrs.) Itu Snigdh	Assistant Profes sor, CSE	Internal Member
6.	Dr. (Mrs) Akriti Nigam	Assistant Professor, CSE	Internal Member
7.	Faculty Member CSE, Nominee of Director BIT Jaipur	Nominee of Director	Internal Member
8.	Faculty Member CSE, Nominee of Director BIT Patna	Nominee of Director	Internal Member
9.	Faculty Member CSE, Nominee of Director BIT Deoghar	Nominee of Director	Internal Member
10.	Faculty Member CSE, Nominee of Director BIT Noida	Nominee of Director	Internal Member
11.	Faculty Member CSE, Nominee of Director BIT Lalpur	Nominee of Director	Internal Member
12.	Dr. Sandeep Singh Solanki	Professor & Head, ECE	Member from other Department
13.	Dr. Akhouri Pramod Krishna	Professor & Head, DRS	Member from other Department
14.	Dr. Pabitra Mitra	Professor, IIT Kharagpur	External Member
15.	Dr. Vasudeva Varma	Professor, IIIT Gachibowli Hyderabad	External Member
16.	Prof. Prem Kumar Kalra	Director Dayalbagh Education Institute, IIT Kanpur UP	External Member
17.	Dr. Pramod Kumar Mishra	Mishra Professor & Ex-Head, Senior Member Banaras Hindu University	External Member
18.	Dr. Sriparna Saha	Associate Professor IIT, Patna	External Member
19.	Dr. Jyotsna Kumar Mandal	Professor University of Kalyani, West Bengal	External Member
20.	Dr. Lobiyal	Professor JNU, New Delhi	External Member
21.	Mrs. Mini Rani Sharma	Ex. Chief Technical Officer, Cyber Security Expert, State Project Manager, Rural Development Department, Government of Jharkhand	External Member
22.	Mr. Amit Chaudhary	Co-Founder at Lens kart, South Delhi	External Member
23.	Mr. Vaibhav Kumar Singh	Manager (Operations), Medium Structural Mill, Durgapur Steel Plant, Steel Authority of India Limited	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students if any

Publications in Journals: (International/National)

- Adla Sanober, Shamama Anwar (May, 2022). "Crytographical Primitive for Blockchain: A Secure Random DNA encoded Key Generation technique", Accepted in Multimedia and Tools Application: An International Journal, Springer.
- 2. Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (Feb, 2022). "Time series dependent feature of EEG signals for improved visually evoked emotion classification using EmotionCapsNet", Neural Computing and Applications, Special Issue for Deep Learning in Time-series data, Vol. 43, Issue 4.
- Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (Jan, 2022). "Automated Visual Stimuli Evoked Multi-channel EEG Signal Classification Using EEGCapsNet ", Pattern Recognition Letters, Elsevier, Vol. 153, pp. 29 – 35.
- Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (Feb, 2022). "A Deep Learning based approach for accurate diagnosis of Alcohol usage severity using EEG signal", IETE Journal of Research.
- S. Gedam and Sanchita Paul, "A Review on Mental Stress Detection using Wearable Sensors and Machine Learning Techniques," *IEEE Access*, Vol.-9, pp. 84045–84066, DOI: 10.1109/ACCESS.2021.3085502, 2021. [SCIE, IF-3.367]
- P. K. Singh and Sanchita Paul, "Deep Learning Approach for Negation Handling in Sentiment Analysis," *IEEE Access*, vol. 9, pp. 102579–102592, 2021, DOI: 10.1109/ ACCESS.2021.3095412. [SCIE, IF-3.367]
- Kanchan Bala, Sanchita Paul, Mili Ghosh, "Heuristic Model to Compute Indices for Classification of Incidence and Nonincidence of Thunderstorms over Ranchi

- with Atmospheric Parameter," *IEEE Access*, ISSN: 2169–3536, Vol. 9, 19 August 2021, pp. 127086–127101. DOI: 10.1109/ACCESS.2021.3106064 [SCIE, IF-3.367].
- Kanchan Bala, Sanchita Paul, Mili Ghosh, "Analyzing the Performance of Machine Learning Techniques in Classification of Thunderstorms," Arabian Journal of Geosciences, 19 August 2021, DOI: 10.1007/ s12517-021-08230-9 [In press, SCIE, IF-1.827].
- Kanchan Bala, Sanchita Paul, Sachi Nandan Mohanty, "Improved Prediction Analysis with Hybrid Models for Thunderstorm classification over the Ranchi Region", New Generation Computing, Springer, PUBLISHED IN 2022, DOI: https://doi.org/10.1007/ s00354-022-00174-2. [SCIE, IF-1.048].
- Sanchita Paul, S. N. Mohanty, "Ensemble learning framework with GLCM texture attraction for early detection of lung Cancer on CT images", Computational and Mathematical methods in Medicine, Hindawi, Published IN June 2022. https:// doi.org/10.1155/2022/2733965. [SCIE, IF-2.238].
- Shalini Mahato, Sanchita Paul, "Analysis of Region of Interest (RoI) of Brain for Detection of Depression using EEG Signal", MULTIMEDIA TOOLS AND APPLICATIONS, Accepted IN June 2022. [IN PRESS, SCIE, IF-2.757]
- Prajwal Nimborkar, Richa Anand, Sanchita Paul, "Cloud based task scheduling using enhanced MAXMIN and MINMIN algorithms", International Journal of Communication Systems, Wiley, Accepted IN June 2022. [IN PRESS, SCIE, IF-2.047]
- 13. Shalini Mahato, Sanchita Paul, "3EDANFIS: Three Channel EEG-Based Depression



- Detection Technique with Hybrid Adaptive Mamdani Neuro Fuzzy Inference System", Recent Patents on Engineering, Bentham Science., accepted in June, 2022. (IN PREE, SCOPUS, ESCI)
- 14. Ravi Prakash, and Shashank Pushkar, (2022) An Approach Using Heuristic Pheromones-Based ACO Modeling for Green Vehicle Routing Optimization, International Journal of Ad Hoc and Ubiquitous Computing, Vol. 40, No. 1–3 PP 187–193.
- Prakash, R., & Pushkar, S. (2022). Green vehicle routing problem: Metaheuristic solution with time window. Expert Systems, e13007. https://doi.org/10.1111/exsy.13007
- 16. Kumari, R., Nigam, A. & Pushkar, S. (2022). An efficient combination of quadruple biomarkers in binary classification using ensemble machine learning technique for early onset of Alzheimer disease. Neural Comput & Applic https://doi.org/10.1007/s00521-022-07076-w
- 17. V.K. Saxena and Shashank Pushkar.

 "Risk Reduction Privacy Preserving
 Approach for Accessing Electronic Health
 Records"International Journal of Healthcare
 Information Systems and Informatics (IJHISI)
 Vol :16 (3),46–57
- Gupta A. and Sarkar B.K. (2022): BSN MOT:
 A Fast and Cost-Efficient Optoelectronic
 Architecture. IETE Technical Review
 (Taylor & Francis, ISSN: 0974–5971, SCIE, I.F. 1.339), 1–12
- Raja R., Mukjerjee I. and Sarkar B.K. (2021): A Machine Learning based Prediction Model for Preterm Birth in Rural India. – Journal of Healthcare Engineering (Hindawi, ISSN-20402295, SCIE, I.F.- 2.682), https://doi. org/10.1155/2021/6665573
- 20. Pandey, R., D., Snigdh, I. Validity as a measure of Data Quality in Internet of Things Systems. Wireless Pers Commun, June 2022 Vol 124, Issue 4 1–16.
- 21. Gupta, S., Snigdh, I. Leveraging data aggregation algorithm in LoRa networks. J

- Supercomput (2022). May, 2022 Volume 78, Issue 8 1–15.
- 22. Gupta, S., Snigdh, I. & Sahana, S.K. A Fuzzy Logic Approach for Predicting Efficient LoRa Communication. Int. J. Fuzzy Syst. (2022). Jan2022 16 1–9.
- 23. Gupta, S., Snigdh, I. Clustering in LoRa Networks, an Energy-Conserving Perspective. Wireless Pers Commun 122, 197–210 (2022).
- 24. Mohapatro, M., Snigdh, I. An Experimental Study of Distributed Denial of Service and Sink Hole Attacks on IoT based Healthcare Applications. Wireless Pers Commun 121, 707–724 (2021)
- Supreeti Kamilya, and Jarkko Kari. "Nilpotency and periodic points in nonuniform cellular automata." Acta Informatica 58.4 (2021): 319–333.
- 26. Supreeti Kamilya, Sukanta Das, and Biplab K. Sikdar. "Simulation of Non-uniform Cellular Automata by Classical Cellular Automata and Its Application in Embedded Systems." Journal of Cellular Automata 16 (2021)
- 27. Prashant Pranav, Sandip Dutta and Soubhik Chakraborty, "Empirical and Statistical Comparison of Intermediate Steps of AES 128 and RSA in Terms of Time Consumption", Soft Computing Springer, 2021, Volume 25, pp. 13127 13145 (SCIE, Impact Factor 3.6)
- 28. Prashant Pranav, Soubhik Chakraborty and Sandip Dutta, "A New Cipher System using Semi-natural Composition in Indian Raga", Soft Computing Springer, 2020, Volume 24, pp. 1529 1537 (SCIE, Impact Factor 3.6)
- Naghma Khatoon, Prashant Pranav, Sharmistha Roy and Amritanjali, "FQ

 MEC: Fuzzy - Based Q - Learning
 Approach for Mobility - Aware Energy - Efficient Clustering in MANET", Wireless Communication and Mobile Computing, Hindawi, 2021 (SCIE, Impact Factor - 2.3)

- 30. Ray, S., Mishra, K.N. and Sandip Dutta, Susceptible data classification and security reassurance in cloud-IoT based computing environment. S?dhan? 46, 215 (2021) (SCIE)
- 31. Ray, Soumya; Mishra Kamta N, Sandip Dutta, Big Data Security Issues from the Perspective of IoT and Cloud Computing: A Review, Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science), Volume 14, Number 7, 2021, pp. 2057-2078(22), Bentham Science Publishers
- 32. Yadav Dharmveer K, Sandip Dutta, Test Case Prioritization Based on Early Fault Detection Technique, Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science), Volume 14, Number 1, 2021, pp. 302–316(15). Bentham Science Publishers
- 33. Prakash A., Singh, N.K., Saha, S.K. (2022). Automated extraction of similar poetry for study of literary texts: An experiment on Hindi poetry, ETRI journal (2022), 1–13. Online ISSN: 2233–7326. http://doi.org/10.4218/etrij.2019–0396. Wiley. Indexing: SCIE [IF 1.347]
- 34. Singh, N.K., Chakraborty, S., and Roy M, (2021). Analysing the poetic structure of Jana-Gana-Mana in Entirety: A statistical approach. Journal of Applied Mathematics and Computation, Vol. 5, No. 4, pp. 264-272. ISSN online: 2576-0653, ISSN print: 2576-0645.
- 35. Umang Gupta, Vandana Bhattacharjee, Partha Sarathi Bishnu, StockNet—GRU based stock index prediction, Expert Systems with Applications, 2022, 117986, ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2022.117986. (Available online 30 June 2022, 117986) [SCIE Indexed].
- 36. KamtaNath Mishra, Vandana Bhattacharjee, Shashwat Saket and Shivam P. Mishra (2022) "Cloud and Big Data Security System's Review Principles: A Decisive Investigation", Wireless Personal Communications https://doi.org/10.1007/s11277-022-09781-0 [SCIE Indexed]

- 37. Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (2022). "Time series dependent feature of EEG signals for improved visually evoked emotion classification using EmotionCapsNet", Neural Computing and Applications, Special Issue for Deep Learning in Timeseries data, Vol. 43, Issue 4, Online ISSN: 1433-3058, Print ISSN: 0941-0643 https:// doi.org/10.1007/s00521-022-06942-x [SCIE, IF:5.606]
- 38. Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (2022). "A Deep Learning based approach for accurate diagnosis of Alcohol usage severity using EEG signal", IETE Journal of Research. ISSN: Print ISSN: 0377-2063 Online ISSN: 0974-780X, https://doi.org/10.1080/03772063.2022.2038705 [SCIE, IF: 2.333]
- Nandini Kumari, Shamama Anwar, Vandana Bhattacharjee (2022). "Automated Visual Stimuli Evoked Multi-channel EEG Signal Classification Using EEGCapsNet ", Pattern Recognition Letters, Elsevier, Vol. 153, pp. 29 35, ISSN: 0167-8655, doi: https://doi.org/10.1016/j.patrec.2021.11.019 [SCI, IF: 3.756]
- 40. Vandana Bhattacharjee, Raj Sahu, Amit Dutta (2021). "Enhanced graph representations for graph convolutional network models", Multimedia Tools and Applications, Springer (Accepted 23rd December 2021) [SCIE Indexed]
- R. Jha, A. Mustafi and V. Bhattacharjee, Increasing the Prediction Accuracy for Thyroid Disease: A Step Towards Better Health for Society, Wireless Personal Communications, August 2021 [SCIE Indexed],
- 42. Kumar Rajnish and Vandana Bhattacharjee (2022)," A Cognitive and Neural Network Approach for Software Defect Prediction", Journal of Intelligent & Fuzzy Systems (Accepted 15 June 2022) [SCIE Indexed].

Publications in Proceedings: (International/National)

- R. Prakash and S. Pushkar, "Implementation of GVRP in Reducing Environmental Impacts and GHG Emission," 2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2021, pp. 172–178, doi: 10.1109/ ICECA52323.2021.9676098.
- R. Prakash and S. Pushkar, "Solution to Multi-Objective GVRP With Genetic Algorithm and Time Window," 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC), 2021, pp. 1475–1482, doi: 10.1109/ICOSEC51865.2021.9591675.
- Bhosale, Tejaswi and Pushkar, S., Tourist spot classification using convolution neural network (July 12, 2021). Proceedings of the International Conference on Innovative Computing & Communication (ICICC) 2021
- Rakesh, Mukherjee 4. Raja Indrajit and Sarkar Bikash (2021): Healthcare Recommendation System.-**Proceedings** of the Fourth International Conference on Microelectronics, Computing and Communication Systems (Springer, Singapore), pp 451-458
- Parween, S., Pal, A., Snigdh, I., Kumar, V. (2021). An IoT and Machine Learning-Based Crop Prediction System for Precision Agriculture. In: Bora, P.K., Nandi, S., Laskar, S. (eds) Emerging Technologies for Smart Cities. Lecture Notes in Electrical Engineering, vol 765. Springer, Singapore. https://doi.org/10.1007/978- 981-16-1550-4_2
- 3. Sahu, N.K., Snigdh, I. (2021). Applying Machine Learning Algorithms in Network-Based Intrusion Detection Systems. In: Chakraborty, M., Jha, R.K., Balas, V.E., Sur, S.N., Kandar, D. (eds) Trends in Wireless Communication and Information Security. Lecture Notes in Electrical Engineering, vol 740. Springer, Singapore. https://doi. org/10.1007/978-981-33-6393-9 24

- 7. 4. Manorama, Snigdh, I. (2021). Principal Component Analysis in Body Sensor Networks for Secure Data Transmission. In: Chakraborty, M., Jha, R.K., Balas, V.E., Sur, S.N., Kandar, D. (eds) Trends in Wireless Communication and Information Security. Lecture Notes in Electrical Engineering, vol 740. Springer, Singapore. https://doi.org/10.1007/978-981-33-6393-9 25
- 8. Jit Mukherjee. "A Study on Automated Detection of Surface and Sub-surface Coal Seam Fires using Isolation Forest from Landsat 8 OLI/TIRS Images" in IGARSS 2022, Kuala Lumpur, Malaysia (Accepted).
- Jit Mukherjee, Jayanta Mukhopadhyay, and Debashish Chakravarty. "A Study on Performance and Applicability of Coal Mine Index in Different Surface Mining Regions" in IGARSS 2022, Kuala Lumpur, Malaysia (Accepted).
- Paty, S., Kamilya, S. (2022). Grade Estimation of Mineral Resources: An Application of Cellular Automata. In: Das, S., Martinez, G.J. (eds) Proceedings of First Asian Symposium on Cellular Automata Technology. ASCAT 2022. Advances in Intelligent Systems and Computing, vol 1425. Springer, Singapore. https://doi.org/10.1007/978-981-19-0542-1 4.
- Soumyadeep Paty and Supreeti Kamilya. "Identification of Rock Images in Mining Industry: An Application of Deep Learning Technique". Accepted in International Conference on Advances in Data Science and Computing Technologies. (ADSC). June 23 – 24, 2022.
- 12. Supreeti Kamilya and Soumyadeep Paty. "Detection of Chaotic Cellular Automata using Convolution Neural Networks: A Comparative Study." Accepted in International Conference on Advances in Data Science and Computing Technologies. (ADSC). June 23 – 24, 2022.
- 13. Prashant Pranav, Sandip Dutta and Soubhik

- Chakraborty, "An Involution Function-Based Symmetric Stream Cipher", In: Nath V., Mandal J.K. (eds), Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems, Lecture Notes in Electrical Engineering, 2021, Volume 673, Springer (SCOPUS)
- 14. Prashant Pranav, Naela Rizvi, Naghma Khatoon and Sharmistha Roy, "A Review on SLA-Based Resource Provisioning in Cloud", In: Swain D., Pattnaik P., Gupta P. (eds), Machine Learning and Information Processing, Advances in Intelligent Systems and Computing, 2021, Volume - 1101, Springer (SCOPUS)
- 15. Nayancy, Sandip Dutta and Soubhik Chakraborty, IoT Based Secure Communication to Enhance Blockchain Model, In: Nath V., Mandal J.K. (eds), Proceedings of the Fourth International Conference on Microelectronics. Computing and Communication Systems, Lecture Notes in Electrical Engineering, Volume - 673, Springer (SCOPUS), 2021
- 16. Monalisha and Sandip Dutta, Survey of Lightweight Cryptography Algorithm for Data Security in the Internet of Things, In: Nath V., Mandal J.K. (eds), Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems, Lecture Notes in Electrical Engineering, Volume – 673, Springer (SCOPUS), 2021
- Dharmveer Kumar Yadav and Sandip Dutta, Study and Analysis of Test Case Prioritization Techniques, In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_42, 2021
- 18. Upadhyay D.K., Mohapatra, S., Singh, N.K., and Bakhla, A.K., 2021. Stacked SVM model for dysthymia prediction in undergraduates' students. 8th International

- Conference on Signal Processing and Integrated Networks (SPIN), pp 1148–1153, doi: 10.1109/SPIN52536.2021.9566004.
- 19. M. Gupta, K. Rajnish and V. Bhattacharjee, "Effectiveness of Ensemble classifier over State-of-art machine learning classifiers for predicting software faults in software modules", Third International conference on Machine Learning, Image Processing, Network security and Data Science (MIND-2021) to be organized during 11th 12th December 2021 at NIT Raipur India.
- 20. K. Rajnish, V. Bhattacharjee and N. Priyadarshini, "A Neural network approach for sentiment Analysis", Accepted in 6th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2021) on 17–18th July 2021 at ARTTC, BSNL near Jumar River Bridge, Hazaribag Road, Ranchi.
- K. Rajnish, V. Bhattacharjee and V. Chandrabanshi, Applying Cognitive and Neural Network Approach over Control Flow Graph for Software Defect Prediction, In 2021 Thirteenth International Conference on Contemporary Computing (IC3-2021) (IC3'21), August 05-07, pp.13-17, 2021, Noida, India, ACM, Newyork, USA, ISBN: 978-1-4503-8920-4/21/08, https://doi.org/10.1145/3474124.3474127.
- 22. K. Rajnish, V. Bhattacharjee and M. Gupta, A Novel Convolutional Neural Network model to predict software defects, published in Book Chapter: Fundamentals and Methods of Machine and Deep Learning: Algorithms, Tools, and Applications", Chapter 9, pp.211-236, Scopus and web of science, Wiley-Scrivener, January 2022.
- 23. J. Paul, D. Mustafi, O. Tigga, Hierarchical Fuzzy Rule based System to Predict Software Quality, NMIC2022 (In press), 2022
- R. Dey, A. Mustafi and D. Mustafi, Language translation with CNN and LSTM using Google Translator, MCCS2022 (In press), 2022.

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Parthiv Sarkar	Third Prize in Mega Project. Fifth Prize in Code-A-Bit.	IEEE Megaproject, ACM Code-A-BIT	5/25/2022
2.	Utsav Kumar	30	Code -a- bit	5/25/2022
3.	Rituraj Seal	2nd position	Network Attacks Prediction	5/25/2022
4.	Manish Kumar Sinha	2nd rank	Ace it up 2.0	5/25/2022
5.	Rohan Baranwal	Global rank 12401	Code Chef Starter 23	5/25/2022
6.	Hriday Garg	2nd	The Lost Code	5/26/2022
7.	Ayush Singh	Qualified the first (Internal) round of SIH 2022	Smart India Hackathon 2022	5/26/2022
8.	Saurabh Gupta	2366 (Global)	Google Kickstart	5/27/2022
9.	Saurabh Gupta	3rd position at college level	Smart India Hackathon – preliminary	5/27/2022
10.	Shivansh Agrawal	3rd	hackTU 3.0	5/28/2022
11.	Samyak Jain	Achieved rank 8	Codechef January Long challenge 2022-II	5/30/2022
12.	Priyanka Choudhary	Best All Girls Team	Lost Code	5/31/2022
13.	Parthiv Sarkar	30	IEEE Megaproject, ACM Code-A-BIT	5/25/2022

7.3 Distinguished Visitors from Industry/Academia/Research organizations

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. Sudebkumar Prasant Pal Professor, IIT Kharagpur	2021	

7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Akshat Ved, 2020-2022, MCA	Working with Oracle
2.	Ms. Sweta Raj, 2020-2022, MCA	Working with Google
3.	Mr. Jatin Kumar, 2020-2022, MCA	Working with Deloitte

Sr. No	Name, Batch and Affiliation	Short Description
4.	Mr. Vibhu Bhatia, 2018-2022, B. Tech (CSE)	Working with Mind-tickle
5.	Mr. Saksham Arora, 2018–2022, B. Tech (CSE)	Working with Microsoft
6.	Ms. Pratysha Pratik, 2015-2018, MCA	She is working with Walmart in the field of Enterprise application software Development.
7.	Mr. Shibu Ghose, 2017–2020, MCA	He is working as a Jr. Software Engineer, Cognizant Technology Solution in the field CDE Full Stack Developer
8.	Mr. Kumar Gaurav, 2016–2019, MCA	He is working with Tech Mahindra in the field of Data Science and Analytics
9.	Ms. Anne Kedia, 2017–2020, MCA	She is working with Deloitte in the field of Oracle Hyperion Suite

7.5 Infrastructure Development

In the setting of Cloud Computing Lab at BIT Mesra. There are 2 private clouds, first cloud setup has been done through Aneka where 30 high configuration workstations are connected by using containerization process in lab iii and second cloud is hosted on HPC having server virtualisation. Both the private clouds are interconnected in master-slave configuration. Future plan is to connect these private clouds to public clouds like AMAZON. Others details regarding infrastructure are mentioned below:

Sr. No.	Room Description	Faculty Name	Room Area	Shared/ Exclusive	Capacity	Equipped with
1.	FG1	Dr. B.K. Sarkar	13'4''x 9'4''	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
2.	FG2	Dr. S. Paul	9'7"x 9'	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
3.	FG3	Dr. G. Sahoo	10' x 13'7"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board
4.	FG4	Dr. B.Karn	10' x 13'7"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board
5.	FG5	Dr. A. Jain	10' x 13'7"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
6.	FG6	G6 (a). Prof.B.K. Chanda 15'x12' Shared 2	2	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice		
		(b). Prof. R.Jha				Board.
7.	FG7	Dr. A.Nigam	8'9" x 9'9"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.



Sr. No.	Room Description	Faculty Name	Room Area	Shared/ Exclusive	Capacity	Equipped with
8.	FG8	Dr. K.S. Patnaik	9'3" x 14'9"	Exclusive	1	Computer/Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
9.	FG9	Dr. K.K. Senapati	9'3" x 14'9"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
10.	FG10	Dr. D Mustafi	8'10"x11'5"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
11.	FG11	(a). Dr. S. Garg	14'9"x10'			Computer/ Laptop, Printer,
		(b). Dr. S. Anwar	10'	Shared	2	UPS, Wifi, LAN, WhiteBoard, Notice Board.
12.	FF1	Dr. S.Dutta	9'3' x 14'9"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
13.	FF2	Dr. V.Bhattacharjee	9'3' x 14'9"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
14.	FF3	Dr. A.Mustafi	9'3' x 14'9	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
15.	FF4	Dr.Itu Snigdh	9'3"x 9'	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
16.	FF5	Dr.S.K. Saha	13'.4'x9'.4'	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
17.	FS1	(a)Prof. K Samanta	13'4"x10'	Shared	2	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice
		(b)Prof. Sumit Srivastava				Board
18.	FS2	Dr.S.K. Sahana	9'7" x 8'8"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board
19.	FS3	Dr. D.K. Mallick	9.3'' x 13'5"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, White Board, Notice Board.
20.	FS4	Dr. V.K. Jha	9.3'' x 13'5"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, White Board, Notice Board.
21.	FS5	Dr. I. Mukherjee	9.3'' x 13'5	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, White Board, Notice Board.

Sr. No.	Room Description	Faculty Name	Room Area	Shared/ Exclusive	Capacity	Equipped with
22.	FS6	Dr.K. Rajnish	9.3'' x 13'5	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, White Board, Notice Board .
23.	FS7	(a) Dr. N.K. Singh			_	Computer/ Laptop, Printer, UPS,
		(b) Dr. P. Pranav	12' x 10'3"	Shared	2	Wifi, LAN, White Board, Notice Board.
24.	FS8	Dr.S.Mohapatra	12' x 10'3"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, White Board, Notice Board.
25.	FS9	Dr.S.Priyadarsini	11'5" x 10'3"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
26.	FS10	Dr.S.Pushkar	8'1" x 9'3"	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
27.	FS11	Mr.I. D. Ram	8' x 9'	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
28.	FS12	Dr. A.K.Keshri	8'8" x 9'	Exclusive	1	Computer/Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.
29.	FS13	Dr. Amritanjali	9'3" x 9'	Exclusive	1	Computer/ Laptop, Printer, UPS, Wifi, LAN, WhiteBoard, Notice Board.

7.6 Special Covid Initiatives, if any:

- » Smooth conducting of online classes by faculty members assisted by lab personnel in sessional courses for achieving quality teaching learning process.
- » Providing mentorship/guidance to students affected by COVID-19 by taking up their ease sympathetically to the concerned authorities.
- » Placing sanitizers at important locations and ensuring distancing and wearing of mask.

Centre for Quantitative Economics and Data Science

SECTION 1 DEPARTMENTAL PROFILE

1. About the Department/Off Campus:

About the Department:



Vision

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

Mission

» To set-up a world-class Quantitative Economics and Data Science centre by producing original & robust research insights, delivering high-quality & evidence-based education and engaging with people & organisations worldwide, across the private & public sectors, who are motivated to transform the world by tackling real world challenges.

» To intellectually transform students for productive and stimulating careers by providing them a strong grasp of fundamentals through a diverse living environment, exposure to new ideas and interaction with people who come from different walks of life and have evolving identities.

SECTION 2

SEMINAR / CONFERENCE

2.1 Workshop:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Techniques and Applications of Hyperspectral Data Analytics	Dr. Manish K. Pandey	SERB	25 th July 2022 - 7 th August 2022

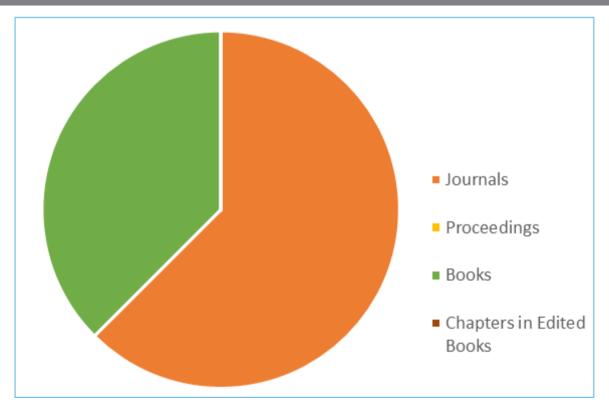
2.1 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Abhishek Naresh	International Network for Economics Research (INFER)	INFER and Politehnica University of Timisoara	Politehnica University of Timisoara	Politehnica University of Timisoara, Romania (Online)	9.06.2022

SECTION 3

RESEARCH PUBLICATIONS



Publications in Journals: (International/National)-5

Publications in Proceedings: (International/National) with ISBN numbers only-0

Book: (with ISBN details)-3 **Chapter(s) in Edited Book-**0

SECTION 4

AWARD / PATENT / COLLABORATIONS

4.1 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Adrosonic	Setting up Digital Innovation Lab	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.	ANVESHA-2022	Shreyas Yaagik Maurya	Dr. Abhishek Naresh	27 th June 2022

5.2 List of Faculties

Sr. No.	Name	Designation
1.	Prof. Kunal Mukhopadhyay	Professor, HOC
2.	Dr. Abhishek Naresh	Assistant Professor of Economics
3.	Dr. Manish K Pandey	Assistant Professor of Data Science
4.	Dr. Tamalika Koley	Assistant Professor of Statistics
5.	Dr. Mrinal Jana	Assistant Professor of Mathematics

5.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Prof. Kunal Mukhopadhyay	Professor, HOC CQEDS, BIT Mesra	Chairman
2.	Dr. Manish Kumar Pandey	Assistant Professor of Data Science CQEDS, BIT Mesra	Internal member
3.	Dr. Abhishek Naresh	Assistant Professor of Economics CQEDS, BIT Mesra	Internal member
4.	Dr. Tamalika Koley	Assistant Professor of Statistics CQEDS, BIT Mesra	Internal member

5.	Prof. Sujan Kumar Saha	Associate Professor Department of Computer Science & Engineering BIT Mesra	Internal member
6.	Prof. S. Chakraborty	Professor Department of Mathematics BIT Mesra	Internal member
7.	Prof. Abhirup Sarkar	Professor of Economics, Indian Statistical Institute, Kolkata	External member
8.	Prof. Saikat Sinha Roy –	Professor of Economics Jadavpur University, Kolkata	External member
9.	Prof. Mousumi Dutta –	Professor of Economics, Presidency University, Kolkata	External member
10.	Prof. Rahul Mukerjee	Professor of Statistics Indian Institute of Management, Calcutta	External member
11.	Prof. Pabitra Mitra	Professor of Computer Science IIT Kharagpur	External member

SECTION 6 OTHER INFORMATION

6.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Sarvagya Kulshreshtha	Guinness World Record-Fastest time to solve a Rubik's cube on a bi-cycle	Guinness World Record	30 th June 2022 Gurgaon, Haryana, India

6.2 Distinguished Visitors from Industry/Academia/Research organizations

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 Gopal Basak	10 th June 2022 -12 th June 2022	

Department of Electronics and Communication Engineering

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department:

The Department of Electronics and Communication Engineering was established in 1960. It is one of the largest departments in the institute having a large number of students. Due to its modern infrastructure and exposure given to the students, it is one of the elite departments in India. Apart from B.Tech. in ECE, the department offers M. Tech. in ECE with different specializations at PG level such as Microwave Engineering, Instrumentation and Control, Wireless Communication and VLSI & Embedded System. Departments also offers Ph.D in different areas of Electronics and Communication Engineering.

The department has well equipped seventeen modern laboratories having various software such as Altair Solid Thinking Embed, Multisim, Vivado, Beam Prop and Opti System, Labview and PLC, Visual TCAD, Cadence, IE3D, HFSS, Fidelity, MD Spice, Sonnet, Advanced Design System, CST and AWR. Some of the hardware equipments in the laboratories are Optical Spectrum Analyzer, Optical Time Domain Reflectometer, Monochromator, Multiplexers, Scalar Network Analyzer with Plotter (22 GHz), Spectrum Analyzer, Sweep Oscillators, Pattern Generator and Signal Generator, 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) and Anechoic Chamber. Department also has facilities for measurement and fabrication of various RF circuit components.





Vision

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

Mission

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

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	Duration of the Project
1.	Pick-to-Light System with Movable Bin Technology	Dr. Sandeep Singh Solanki	DST	29 th Sept 2021	9.71 Lacs	2 years 06 months
2.	Development of VLSI Design Lab	HOD-ECE	MODROBs AICTE New Delhi	2019	6.8 Lacs/ 19.6 Lacs	3 years
3.	Design of Ultra Low Power CMOS Temperature Sensors for Aerospace Applications	Dr. Vijay Nath	RESPOND ISRO Bangalore	16 th Nov 2015	25 Lacs	2+7 years (Now in Bulk Production after First Phase Fabrication & Testing)
4.	High Speed Two Photon Polymerization based fabrication of hollow microneedles	Dr. Richa Mishra	BIT Mesra	3 rd Jan 2022	5 Lacs	2 years
5.	RF, Noise, and Harmonic Distortion Analysis of Structurally Modified Germanium on Insulator MOSFETS	Kalyan Koley	Department of Science and Technology, Government of India	2016	35 Lacs	5 years

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Study of HEMT and its performance in amplifier circuit	Dr. Aminul Islam	DRDO	04/07/2017	23.742 Lac	3+(1 year extension due to COVID)



C) Consultancy Projects carried out/ongoing:

SI.	Title of Project	Funding	Du	ration	Grant	Principal Investigator /	Ongoing/
No	Agency from to		Agency from		mobilized (₹ Lacs)	Co- Investigator	Completed*
1.	Development of Proximity Sensor for Mining Application	RIZITECH PVT LTD (Ranchi)	July 2020	Onwards	2,08,000	Prof. S. K. Ghorai (Coordinator), Dr S S Tripathy (Co- cordinator)	Ongoing

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Short term training programme (STTP) of SASI (T) cum RM Grade-I Sr. No. 7 and GO's Technical Course Sr. No. 35 of CTC, CRPF, Ranchi	Dr. Sanjay Kumar	CTC, CRPF	3 rd - 06 th Jan 2022 14 th - 18 th Feb 2022 21 st - 24 th Feb 2022
2.	Machine Learning in Speech and Audio Processing	Dr. S. S. Sahu & Dr. Rupesh Kumar Sinha	BIT Mesra	21 st - 25 th Feb 2022
3.	"Metamaterials, optical MM lens and wireless power transfer" by Dr. Amit Kumar Baghel, PhD (IIT Guwahati) and postdoc fellow in Instituto de Telecomunicacoes, Aveiro, Portugal.	Dr. Vimal Kumar Singh Yadav	NA	11 th March 2022

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

Sr. No.	Name of the Faculty	Title of the Conference/ eminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Sanjay Kumar	6G workshop	NA	Dept. of Business Development and Technology, Aarhus University Herning, Denmark	Online	12 th Oct 2021
2.	Dr. Sanjay Kumar	How to Conduct the AICTE Student Induction Program (SIP)	NA	AICTE	Online	21st Sep 2021
3.	Dr. Sanjay Kumar	self-paced FDP on delivering online course using Canvas LMS	NA	BIT Mesra, Ranchi	Online	28 th June – 9 th July 2021
4.	N. Chattoraj	Gender Equity Towards Achieving Sustainable development Goals of India	NA	GATI PILOT & WISE KIRAN DIVISION of DST, GOI	NIT Rourkela	2 nd – 6 th Feb 2022

Sr. No.	Name of the Faculty	Title of the Conference/ eminar	Funding Agency	Organizers	Venue	Date
5.	R. Mishra	1 day IP awareness / training program under National Intellectual Property Awareness Mission	National Intellectual Property Awareness Mission	National Intellectual Property Awareness Mission	Online	23 rd March 2022
6.	R. Mishra	10 days Patent Analytics Course	Turnip Innovations Private Limited	Turnip Innovations Private Limited	Online	27 th May – 5 th June 2022
7.	Soumya Sidhishwari	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in the world of Photonics"	NA	R N S Institute of Technology, Bengaluru	Online	26 th - 30 th July 2021
8.	Soumya Sidhishwari	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Advances in Photonics"	NA	Birla Institute of Technology and Science Pilani, Pilani	Online	25 th – 30 th Nov 2021
9.	Janardan Sahay	AICTE organized FDP on "Including UHV in Technical Education"	NA	AICTE	Online	30 th May – 3 rd June 2022
10.	Janardan Sahay	QIP organized by EE dept. IIT-Indore "Statistical Modelling and Analysis of Advanced wireless Communication System"	NA	IIT-Indore	Online	17 th - 23 th March 2022
11.	Rupesh Kumar Sinha	AICTE sponsored Advance Faculty Development Program (FDP) on Electronic System Design/ Smart System.	AICTE	Netaji Subhas University of Technology (NSUT), Delhi	Netaji Subhas University of Technology (NSUT), Delhi	17 th - 23 th Nov 2021
12.	Chandreyee Sarkar	2021 IEEE Indian Conference on Antennas and Propagation (InCAP)	IEEE	IEEE AP Society	Jaipur, India	13 th - 16 th Dec 2021
13.	Santashraya Prasad	FDP on "IoT & Applications (Smart Systems)"	"Scheme of financial assistance for setting up of Electronics and ICT Academies" of the (MeitY), GOI	Organised by Electronics and ICT Academies	Online	14 th – 25 th Feb 2022

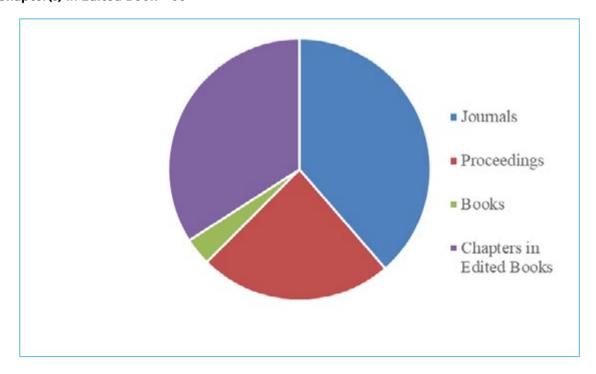
Sr. No.	Name of the Faculty	Title of the Conference/ eminar	Funding Agency	Organizers	Venue	Date
14.	Prajna Parimita Dash	Short-term course on Advances in Signal Processing and VLSI Technologies	SERB	Department of electronics and communication engineering, NIT, Rourkela	Online	2 nd – 6 th May 2022
15.	Prajna Parimita Dash	Short Term Course on Applications of Image Processing, Computer Vision and Intelligent Technologies in Pandemic	AICTE	Department of Computer Science and Engineering, MITS Gwalior	Online	18 th – 23 rd Jan 2022
16.	Sanjeet Kumar	IIT Kanpur Advanced Career School PYTHON- Based Data Science, Machine Learning and Deep Learning	Self	Department of Electrical Engineering, IIT Kanpur	Online	22 nd Jan – 25 th Feb 2022

SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals: (International/National) - 34

Publications in Proceedings: (International/National) with ISBN numbers only - 21

Book: (with ISBN details) – 3 **Chapter(s) in Edited Book –** 30



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	Organization	State / National / International Level	Year / Duration
1.	Dr. Sanjay Kumar	Chief Guest	Institution of Engineers (India), Jharkhand State center, Ranchi	State	17 th May 2022
2.	Dr. Sanjay Kumar	Guest of Honor	Galgotias College of Engineering and Technology (GCET), Greater Noida	International Conference on RTPDP-2021 Online	9 th July 2021
3.	Dr. Aminul Islam	The IET Premium Best Paper Awards 2021 (awarded in December 2021).	The Institution of Engineering and Technology (IET), UK.	International	2021
4.	Dr. Vijay Nath	Certificate of Appreciation Texas Instrumentation Embedded System Design using MSP430TM MCU MOC for fostering the ecosystem bridging Government, Academia and Industry	Texas Instrumentation & AICTE New Delhi	National	2021
5.	Neela Chattoraj	Technical course SL No-7 Antenna Theory (Module 1), A short term training programme (STTP) of SASI(T) cum RM Grade -I,CRPF	TeA short term training programme (STTP) of SASI(T) cum RM grade -I ,CRPF	National	3 rd - 6 th Jan 2022
6.	Gajendra Kant Mishra Resource Person	Technical course SL No7 Antenna Theory (Module-I), A short term training programme (STTP) of SASI(T) cum RM Grade-I, CRPF,	A short term training programme (STTP) of SASI(T) cum RM Grade-I, CRPF,	National	3 rd – 6 th Jan 2022
7.	Gajendra Kant Mishra Resource Person	Technical course on Digital and Modern Communication (Module-2), A short term training programme (STTP) of GO's Technical course, CRPF,	A short term training programme (STTP) of GO's Technical course, CRPF	National	21 st - 24 th Feb 2022
8.	Janardan Sahay Resource Person	Technical course on Digital and Modern Communication (Module-2), A short term training programme (STTP) of GO's Technical course, CRPF,	A short term training programme (STTP) of GO's Technical course, CRPF	National	21 st - 24 th Feb 2022

9.	Dr. Deepti Gola Resource Person	Invited as Resource Person (Expert Lecture) in ATAL-FDP on "DEVICES AND CIRCUITS FOR NEXT-GENERATION COMPUTING ARCHITECTURE" held from 25/10/2021 to 29/10/2021 organized by G.B.Pant Institute of Engineering and Technology Pauri Garhwal Uttarakhand.	G.B.Pant Institute of Engineering and Technology Pauri Garhwal Uttarakhand.	National	25 th - 29 th Oct 2021
----	------------------------------------	--	---	----------	---

5.2 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.	Aminul Islam, S. S. Solanki, Maherukh	Design of Embedded Radiation Hardened Cache Memory Cell	202141025985 A	2021	Disclosed is a cache memory cell circuit 100, which includes two PMOS access transistors (P8 and P9) which is connected to the word line (WL). A word line (WL) is further connected to VDD. The PMOS access transistors (P8 and P9) are directly controlled by the word line. The PMOS access transistors P8 and P9 are further connected with the world lines BL and BLB respectively. Plurality of NMOS transistors (N0, N1, N2 and N3) are connected to the nodes Q and QB. Furthermore, the PMOS access transistors P8 and P9 are connected with the storage nodes QB and Q respectively. Two redundant nodes, S0 and S1 located at the drain of P1 and P3 transistors respectively. Plurality of PMOS transistors (P0, P1, P2, P3, P4, P5, P6 and P7) are interconnected to VDD, two PMOS access transistors P8 and P9, WL, bit lines, storage nodes (Q and QB) and plurality of redundant nodes (S1 and S0).
2.	Islam, A. Dubey, S.K., Mishra, M	AlGaN/GaN based HEMT for RF and Low Noise Application	202141025986 A	2021	Disclosed is an AlGaN/GaN based HEMT (100) for RF and low noise application, which includes a Silicon Carbide (6-H SiC) substrate (102). The Gallium Nitride channel layer (104) is placed at the top of the Silicon Carbide substrate (102). Furthermore, the AlGaN barrier layer (106) is placed above the gallium nitride channel layer (104) and between two n+ wells. Additionally, the n-GaN cap layer (108) is placed above the AlGaN barrier layer (106). Furthermore, the gate terminal (114) is embedded at the middle of the n-GaN cap layer (108) and between the source terminal (112) and the drain terminal (116).

3.	Dr. Parikshit Vasisht, Robert Mark, N.Chattoraj, Prof. Sudhakar Ranjan, Dr. Atul Kathait	ULTRAW' IDFBAND RRDA with a Bevel-Shaped Patch and a Method of Development Thereof	202211021299 A	15/04/2022	Abstract: An ultrawideband RRDA with a bevelshaped patch and the method of development thereof offers a UWB ranging from 2.5 – 16 GHz (measured value) i.e. fractional bandwidth of 142%; wherein the peak gain of 6.2 dBi at 6.3 GHz and radiation efficiency of 90% utmost value at 4.6 GHz is provided by the RRDA. The method of development of ultrawideband RRDA with a bevel-shaped patch comprising steps of a) the isolated RRDRA is designed using alumina ceramic in combination with a rectangular air cavity and vertical asymmetric conducting strips introduced on sidewalls of the RRDRA to stabilize the gain above OdBi across the entire bandwidth. b) a slot is introduced in the partial ground plane to optimize the impedance bandwidth. No. of Pages: 18 No. of Claims: 9
4.	Parikshit Vasisht, Sudhakar Ranjan, N. Chattoraj, Ravi Chandra, Neha Rajak, Anuranjan Sharma	A COMPACT ULTRA- WIDE-BAND M.SRDRA	202211021 327A	Publication Date: 15/04/2022	Abstract: A compact ultra-wide-Band MSRDRA (I) comprising two segments of the rectangular ring (2) and rectangular notch-shaped dielectric resonators (3) including an alumina DR insert fed (4) with 50 0 coaxial probe (5). MSRDRA (I) can be employed in high speed LTE/ wireless applications, vehicular radar application systems, unmanned guided vehicles, UWB short-pulsed radars, robotics, and satellite applications. The invention is disclosing an MSRDRA (Multi-Segment Rectangular Dielectric Resonator Antenna), which is an excellent contender in a congregate of ultra wideband antennas. The antenna attains both X- and Ku bands completely (8 – 21 GHz). No. of Pages: 15 No. of Claims: 10
5.	Parikshit Vasisht, N.Chattoraj, Sudhakar Ranjan, Anuranjan Sharma, Atul Kathait	Wideband RDRA Covering Dielectric Resonator, Matching dielectric slab, Copper Ground plane, Chamfered Edges	202211031081A	Publication Date: 10/06/2022	Abstract :A wideband RDRA with Chamfered external conducting parallel standing strip comprising dielectric resonator matching slab, substrate -FR4, ground plane, microstrip line, Chamfered Edges, Lext Lint where in wideband RDRA have broad bandwidth ranging from 6.5 to 13.1GHZ having return loss 24.5dB at 7GHZ and impedance bandwidth up to75% where in low value of VSWR suggests that the antenna is broadly lossless. The broad side pattern of the antenna also fulfills the broadside requirements of the FS/FSS band where in RDRA can be used in fixed wireless on 7GHZ and satellite Television TV Relay system (FS/FSS)system operating in the range of.10.67GHZ.

6.	Dr. Rupesh Kumar Sinha, Prof. Sandeep Singh Solanki, Dr. Rajesh Kumar	Switching System which operate automatically based on the real time light intensity for animals / bird's farm in all weather conditions.	Applied (7115P2)	2022	The proposed system is an all-weather automatic lighting system for poultry farms. It should access real-time requirements of the farm and accordingly provide the light. It can work in all-weather condition on 24*7 accessing system. It can be mounted near (above / below) the illumination source
----	--	--	------------------	------	---

5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Drone Baazaar.com	To establish Center of Excellence in Drone- Technology (COE-DT)	2022/3 Years

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.	Tech-A- Thon	President ECE Society	Dr. S.S. Tripathy	4/09/2021-09/10/2021
2.	Online Quiz	President ECE Society	Dr. S.S. Tripathy	24/07/2021-25/07/2021

6.2 List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms. , as applicable)	Designation	TEQIP Sponsored (Yes / No)
1.	Dr. Sandeep Singh Solanki	Professor and Head	No
2.	Dr. S. S. Pathak	Retd. Professor (Visiting Faculty)	No
3.	Dr. Nisha Gupta	Professor and Dean	No
4.	Dr.Vibha Rani Gupta	Professor and Dean	No
5.	Dr. S K Ghorai	Professor	No
6.	Dr. Srikanta Pal	Professor	No
7.	Dr. Sanjay Kumar	Associate Professor	No

8.	Dr. Neela Chattoraj	Associate Professor	No
9.	Dr. Vijay Nath	Associate Professor	No
10.	Dr. Aminul Islam	Associate Professor	No
11.	Dr. Sitanshu Sekhar Sahu	Associate Professor	No
12.	Dr. Kartik Mahto	Assistant Professor	No
13.	Mr. Vishal H. Shah	Assistant Professor	No
14.	Dr. Janardan Sahay	Assistant Professor	No
15.	Dr. Sanjeet Kumar	Assistant Professor	No
16.	Dr. Sanjaya Shankar Tripathy	Assistant Professor	No
17.	Mr. Sukanta Kumar Dash	Assistant Professor	No
18.	Dr. Manoj Kumar Mukul	Assistant Professor	No
19.	Dr. Gajendra Kant Mishra	Assistant Professor	No
20.	Dr. Somnath Sengupta	Assistant Professor	No
21.	Dr. Priyank Saxena	Assistant Professor	No
22.	Dr. Dileep Kumar Upadhyay	Assistant Professor	No
23.	Dr. Anjini Kumar Tiwary	Assistant Professor	No
24.	Dr. Prajna Parimita Dash	Assistant Professor	No
25.	Mr. Santashraya Prasad	Assistant Professor	No
26.	Dr. Soumya Sidhishwari	Assistant Professor	No
27.	Dr. Rupesh Kumar Sinha	Assistant Professor	No
28.	Dr. Vimal Kumar Singh Yadav	Assistant Professor	No
29.	Dr. Richa Mishra	Assistant Professor	No
30.	Dr. Chandreyee Sarkar	Assistant Professor	No
31.	Dr. Kalyan Koley	Assistant Professor	No
32.	Dr. Deepti Gola	Assistant Professor	No
33.	Dr. Nilanjan Biswas	Assistant Professor	No

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Prof. Debasish Datta	Retd. Professor	IIT-Kharagpur

6.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr. S. S. Solanki	Professor	HOD, ECE, Chairman (Ex-Officio)
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	Dept. of Physics, Internal member
9.	Dr. T. Ghosh	Professor	Dept. of EEE, Internal member
10.	Dr. Umesh Chandra Pati	Professor	NIT, Rourkela (External member)
11.	Dr. Bratin Ghosh	Professor	IIT, Kharagpur (External member)
12.	Dr. Goutam Saha	Professor	IIT, Kharagpur (External member)
13.	Dr. Brajesh Kumar Kaushik	Professor	IIT, Roorkee (External member)
14.	Dr. Nandita Dasgupta	Professor	IIT, Madras(External member)
15.	Dr. Suvra Sekhar Das	Associate Professor	G.S Sanyal School of Telecommunication, IIT, Kharagpur (External member)
16.	Mr. Sanjaya Nayak	CEO & MD	Tejas Network (External member)
17.	Mr. Subhas Basu	CEO	Silicon Interfaces Pvt. Ltd. (External member)
18.	Parikhit Dutta	Sr. RF Engineer	Knowles Corporation, Bengaluru
19.	Dr. Shahiruddin	Assistant Professor	In charge, Dept. of ECE, Patna
20.	Dr. Sanjay Kumar	Associate Professor	In charge, Dept. of ECE, Deoghar
21.	Ankur Agarwal	Assistant Professor	In charge, Dept. of ECE, Jaipur
22.	Atharv Kapre	M.Tech 1st Yr. student	Student, Roll no: MT/EC/10002/20
23.	Shashank Kumar	B.Tech.1st Yr. student	Student, Roll no: BTECH/10056/20
24.	Dr. P. P. Dash	Assistant Professor	Member Secretary

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.	Vibhu Bhatia – Founder Tanay Goel – Founder Arpit Falcon – Founder	BIT Nishan	Psyberduck	We provide a one stop solution a person needs to establish an online identity. We offer services such as website development, digital marketing, Graphic designing, content writing, search engine optimization, google ads, social media management and portfolio management.
2.	Akansha Khedia – Founder Tanish Gupta – Cofounder	BIT Alumni Association	kARds	It is an AR based start-up. We'll provide customized AR cards to our customers. All types of cards will be available for every occasion including business cards/visiting cards, invitation cards, etc.
3.	Shivam Kumar Kartik Kumar	BIT Alumni Association	Jewarat	A digital Platform where you can buy/sell jewellery locally /globally with virtual try-on and get delivery or pick up from the shop
4.	Sandeep Sahoo – CEO	Bootstrapped	KRRNA	Along with creating customer-friendly apparel, our initiative "BUY 1 DONATE 1" is inspired and committed for the upliftment of the underprivileged. From the beliefs of our great Indian mythology, working towards society to rise with rapport and that defines our name KRRNA. We are an apparel start-up with donates equal amount of essentials to the needy as we sell our apparel.
5.	Pranshu Singh Saumya Agrawal Saurav Priyadarshi Ekansh Zhariya Dhananjay Jaiswal Tushar Raj	BIT Nishan	Fincess	A community of students which will increase employability and financial literacy among them along with a platform which will act as market place for start-ups to promote their services among students and hire from the community as well as from Training and Placement cells of universities.

7.2 Publication by students, if any

Publications in Journals : (International/National)

- 1. Manish Mathew Tirkey and Nisha Gupta (2021), "Broadband Polarization-Insensitive Inkjet-Printed Conformal Metamaterial Absorber," IEEE Transactions on Electromagnetic Compatibility, Volume: 63, Issue: 6, Dec. 2021, pp. 1829 1836, DOI: 10.1109/TEMC.2021.3089830.
- 2. Manish Mathew Tirkey and Nisha Gupta (2022), "A Novel Ultrathin Checkerboard Inspired Ultrawideband Metasurface Absorber", in IEEE Transactions on Electromagnetic Compatibility, vol. 64, no. 1, pp. 66–74, Feb. 2022. DOI: 10.1109/TEMC.2021.3091767.



- Ravi Teja Yekula, Monalisa Pandey and Aminul Islam (2022), "A Highly Reliable Radiation Tolerant 13T SRAM Cell for Deep Space Applications," in Microelectronics reliability, vol. 1330, pp. 1–14, Jun. 2022. Publisher: Elsevier, DOI: https://doi. org/10.1016/j.microrel.2022.114527
- Soumitra Pal, Subhankar Bose, and A. Islam (2022), "Design of Memristor Based Low Power and Highly Reliable ReRAM Cell," in Microsystem Technologies-Microand Nanosystems-Information Storage and Processing Systems. vol. 28, no. 3, pp. 793 807, Mar. 2022, Publisher: Springer. DOI: https://doi.org/10.1007/s00542-019-04582-1
- Soumitra Pal, Subhankar Bose, and A. Islam (2022), "Design of SRAM Cell for Low Power Portable Healthcare Applications," in Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, vol. 28, no. 3, pp. 833–844, Mar. 2022, Publisher: Springer. DOI: https://doi.org/10.1007/s00542-020-04809-6
- Shashank Kumar Dubey, and Aminul Islam (2022), "Al0.30Ga0.70N /GaN MODFET with triple-teeth metal for RF and high-power applications," in Physica Scripta, vol. 97, No. 3, pp. 034003, Feb. 2022. Publisher: IOP publishing Ltd. DOI:10.1088/1402-4896/ac50c3, url: https://doi.org/10.1088/1402-4896/ac50c3
- Shashank Kumar Dubey, Meena Mishra, and Aminul Islam (2022), "Characterization of AlGaN/GaN Based HEMT for Low Noise and High Frequency Application" in International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, vol. 35, no. 1, pp. 1–12, Jan-Feb. 2022, Publisher: Wiley. DOI: https://doi. org/10.1002/jnm.2932
- S. Pal, S. Mohapatra, W. -H. Ki and A. Islam (2021), "Soft-Error-Aware Read-Decoupled SRAM With Multi-Node Recovery for Aerospace Applications," in IEEE Transactions on Circuits and

- Systems II: Express Briefs, vol. 68, no. 10, pp. 3336-3340, Oct. 2021, doi: 10.1109/TCSII.2021.3073947. https://doi.org/10.1109/TCSII.2021.3073947
- S. Pal, S. Mohapatra, W. -H. Ki and A. Islam (2021), "Soft-Error-Immune Read-Stability-Improved SRAM for Multi-Node Upset Tolerance in Space Applications," in IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 68, no. 8, pp. 3317–3327, Aug. 2021, doi: 10.1109/TCSI.2021.3085516. https://doi.org/10.1109/TCSI.2021.3085516
- S. Pal, D. D. Sri, W. -H. Ki and A. Islam (2021), "Radiation-hardened read-decoupled low-power 12T SRAM for space applications," in International Journal of Circuit Theory and Applications, vol. 49, pp. 3583–3596, Jul. 2021. Publisher: Wiley. DOI: 10.1002/cta.3093. https://doi.org/10.1002/cta.3093
- 11. Satyajit Mahapatra, Sitanshu Sekhar Sahu (2021), "ANOVA-particle swarm optimization-based feature selection and gradient boosting machine classifier for improved protein-protein interaction prediction", Proteins: Structure, Function, and Bioinformatics, Sept. 2021
- Satyajit Mahapatra, Sitanshu Sekhar Sahu (2021), "Improved prediction of protein-protein interaction using hybrid of functional-link Siamese neural network and gradient boosting machines", Briefings in Bioinformatics, Vol. 22(6), Nov. 2021
- 13. Biswajit Karan, Sitanshu Sekhar Sahu, Juan Rafael Orozco-Arroyave and Kartik Mahto (2021), "Non-negative matrix factorization-based time-frequency feature extraction of voice signal for Parkinson's disease prediction," Computer Speech and Language, Vol.69, 101216, Sept. 2021
- Saurabh Srivastava, Prajna Parimita Dash (2021), "Coefficient-scaling based Fair Power Allocation for Multi-user Power-Domain Non-Orthogonal Multiple Access

Network." Journal of Circuits, Systems and Computers, 2021.

Publications in Proceedings: (International/National)

- Rohith Sai V,Biswajit Karan, Garima Thakur, Ashutosh Rath, Sitanshu Sekhar Sahu (2021), "Heart Sound Abnormality Detection using Wavelet Packet Features and Machine Learning", IEEE International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA), pp:310-314, Sept. 2021
- Bhardwaj M., Aradhana, Kumar A., Kumar P., Nath V. (2021), "Digital Implementation of Sigmoid Function in Artificial Neural Network Using VHDL", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3 6
- Sateesh V.A., Surshetty S.K., Goel V., Prasad D., Nath V., Pal S. (2021), "Designing of Low-Noise Amplifier and Voltage-Controlled Oscillator for Satellite Receiver in Ku Band", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3 58
- Arya A., Shekhar S., Priyam A., Nath V. (2021), "Design of Energy Harvestor Using Piezoelectric Material", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3 60
- Sarkar S., Kerketta A., Nath V. (2021). "
 Kisaan Seva—A Web site for Serving
 the Farmers", In: Nath V., Mandal J.
 (eds) Nanoelectronics, Circuits and
 Communication Systems. Lecture Notes in
 Electrical Engineering, vol 692. Springer,
 Singapore. https://doi.org/10.1007/978981–15–7486–3_61
- 6. Datta K., Pal S., Nath V. (2021), "Design of a 2–30 GHz Low-Noise Amplifier:

- A Review", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_64
- 7. Sahoo S., Gupta Y., Nath V., Pal S. (2021), "Ad Hoc Network Using UAVs in Indian Farms: A Review", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Syustems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3 65
- Ponugoti J.S., Karuturi S.S.T., Nath V. (2021), "Web Application Based on PHP for Farmers", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3 66
- Asati P., Koushik S., Nath V. (2021), " Website Development for Trading Between Farmers and Government", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi. org/10.1007/978-981-15-7486-3_69
- Jahagirdar S., Manglani N., Rai S., Nath V. (2021), "Telemetry-Based System for Data Acquisition of Agricultural Practices in Rural Areas", In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_70
- 11. Prakash O., Ankit K., Kumar R., Nath V. (2021), "Design and Characterization of DC-to-DC Converters Using Active Inductor", In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6-73



- Sanjay Kumar S., Goel V., Prasad D., Nath V. (2021), "A 0.48 mW High Performance 4-Bit Flash ADC for System-on-Chip Applications in 90 nm CMOS Technology", In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6-78
- 13. Ray M.K., Surshetty S.K., Goel V., Prasad D., Nath V. (2021), "Design of 4-Bit Multiplexer-Based Encoder for Analog to Digital Converter", In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_79
- 14. Datta K., Prasad D., Surshetty S.K., Goel V., Nath V. (2021), "Design of a 4-Bit Wallace Tree Encoder for Flash ADC in 90 Nm CMOS Technology", In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi. org/10.1007/978-981-15-5546-6 80
- 15. Sateesh V.A., Kumar A., Priyadarshi R., Nath V. (2021), "A Novel Deployment Scheme to Enhance the Coverage in Wireless Sensor Network", In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_82
- 16. HimHimadri Nirjhar Mandal, Soumya Sidhishwari (2021), "Investigation of Gaussian Apodized FBG Properties for the Analysis of Building Materials", International Conference on Circuits, Controls and Communications (CCUBE), at RNSIT on December 23–24, 2021. (IEEE). ISBN No:978–1-6654–0203–3, DOI: 10.1109/ CCUBE53681.2021.9702729

- 17. Himadri Nirjhar Mandal, Soumya Sidhishwari (2021), "Design of a Gaussian Apodized Uniform FBG Sensor for Multiparameter Sensing and Predictive Analysis using Machine Learning", Third International Conference on Innovative Trends in Electronics Engineering (ICITEE), 14 December 2021. Royal Book Publishing, pp 173–182. ISBN: 9789391131753
- 18. Anisha Kiran and Gajendra Kant Misha (2021),".Flexible Broadband Dielectric Resonator Antenna for Wearable Applications", IEEE Second International Conference on Electronics and Sustainable Communication Systems (ICESC). Coimbatore, 4-6 August 2021. Doi: 10.1109/ICESC51422.2021.9532960
- Anisha Kiran and Gajendra Kant Misha (2022)," Wearable Dielectric Resonator Antenna for Bluetooth Applications", IEEE First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT).: Trichy, India, 16–18 February 2022, Doi :10.1109/ICEEICT53079.2022.9768502
- P.NathSumanandG.KantMishra (2022), "An Aperture Fed Frequency Reconfigurable Patch Antenna For X-Band Applications," 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 2022, pp. 1–3, doi: 10.1109/ICAECT54875.2022.9808075.
- Pammi Kumari and Priyank Saxena (2022), "Automated Detection and Multistage Classification of Diabetic Retinopathy through CNN" International Conference on Applied Computational Intelligence and Analytics (ACIA-2022), February 26-27, 2022, NIT, Raipur. (Conference)
- 22. Saurabh Srivastava, Prajna Parimita Dash (2021), "Non orthogonal multiple access: Procession towards B5G and 6G", 2ND IEEE International Conference on Applied Electromagnetics, Signal Processing and Communication, KIIT, Bhubaneswar, 26-28 November 2021.

7.3 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Shashank Kumar Dubey	Best paper award	Applied Computer Technology, Kolkata, in association with International Association of Science, Technology and Management	30–31 Dec 2021 Hotel The Maureen, VIP Road, Kolkata, India
2.	Rohith Sai V and Garima Thakur	Best paper award	IIT Goa	7-8 Sept. 2021 IIT Goa

7.4 Distinguished Visitors from Industry/Academia/Research organizations

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. Randeep Guleria (Padama Shri) Director AllMS, Delhi	18/01/2022	
2.	Prof. Samit Kumar Ray IIT-KGP	21/03/2022	
3.	CRPF Personnel	25/02/2022	

7.5 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Abhishek Sinha, 1999, Eko India Financial Services	Co-founder & CEO
2.	Ashutosh Pande, 1987, Arogya mHealth Pvt. Ltd.	Founder

3.	Niraj Sharan, 1980, Aura Inc	Chairman & CEO
4.	Rohit Prasad, 1997, Amazon Inc.	Senior Vice President and Head Scientist for Alexa
5.	Subhas Basu, 1985, Silicon Interfaces	CEO
6.	Akshay Jalan, 2013, Brainsmith	Co-founder Co-founder

7.6 Infrastructure Development

- 1. Microprocessor and Signal Processing Lab are renovated with modern facilities.
- 2. Department has developed the infrastructure of the seminar hall with modern amenities.
- 3. Silvaco TCAD has been procured from DRDO project fund for Device Design
- 4. Synopsys TCAD and university bundle has been procured from institute fund for circuit and Device Design.
- 5. Nanoedge AI studio has been procured from Institute fund for Embedded AI applications
- 6. TruIOT set up has been procured from Institute fund for IoT applications
- 7. VLSI Design lab with Cadence Software

7.7 Any other relevant information

Invited Talk on the topic of "Technological Developments and the Amiss" in the International Symposium on the theme of "6G: Technology towards Human Mind and Body" during 38th GISFI Standardization Series Meeting (GSSM) organized by Vishwaniketan, Kumbhivali, Maharashtra, 04 March, 2022. (online)

Resource person delivered talks on the topics of "Introduction to cellular technology, evolution of mobile communication 1G, 2G, 2.5G (GSM, GPRS, EDGE). Introduction to smartphone, 3G and 4G mobiles and cellular technologies" and "Introduction to 5G technology, NOMA, MIMO, Millimeter wave technologies" during STTP on Digital and Modem Communication for CTC, CRPF, Ranchi, at BIT Mesra, Ranchi on 24 Feb, 2022.

7.8 Special Covid Initiatives, if any

1. Ongoing research on Low-Cost Painless microneedles based vaccine delivery

Signature of HOD

Department of Electrical and Electronics Engineering

SECTION 1 DEPARTMENTAL PROFILE

1. About the Department:

The Department of Electrical and Electronics offers B.Tech. in Electrical and Electronics Engineering, M. Tech. in Electrical Engineering and Ph.D. in Electrical Engineering. CBCS Course Structure has been implemented from MO/2018. All the UG and PG programmes are accredited by NBA. Thirty-four 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, Magneto-optic Sensors, Power System Voltage Stability, System Identifications, Brain signal analysis, Applications of Soft Computing Techniques etc. Department is presently utilizing the grants received from DST (FIST), UGC (SAP), MODROB, TEQIP and Institute grant to strengthen the research and postgraduate lab facility. The department is continuously working in the direction of elevating the standards of 13 laboratories for research and teaching purpose. Many major equipment, 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, 5kW Solar Photovoltaic System, Smart Energy Meter and NAO Humanoid Robot, Machine Fault Simulator, Typhoon Hill, Micro Lab box, DSO 1000 MHZ, DSPACE Kit, Data Acquisition system Integrated with Sensor, 3 Phase Multilevel Inverter based Induction Motor Drive, NI ELVIS Rotary Inverted Pendulum, 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. In the financial year 2019-20, Department has procured Rotary Inverted Pendulum and Coupled Tank System from Quanser for Control Lab, DSO in Power System Lab, AC/DC current prob, DSPace ACE Kit, NI Data Acquisition Card for Drives Lab and DC Motor + AC Three Phase Alternator for Smart Grid Lab.



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.

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	Duration of the Project
1.	Brain Signal Controlled Wheelchair	1. Dr. P.K. Upadhyay 2. Dr. Yogender Aggarwal	Indian Council of Medical Research (ICMR)	Approved. Sanction letter yet to be received.	31.016 Lacs	3 Years
2.	Analysis, Design and verification of coordinated control for laboratory prototype hybrid AC-DC microgrid with IoT based cloud computation platform	1. Dr. Tirthadip Ghose	All India Council for Technical Education (AICTE)	28th January 2022	10.50 Lacs	3 Years
3.	Secured Data Analysis for Microgrid Energy Management System Through Block Chain Technology.	1. Dr. Deepak Kumar 2. Prof. T Ghose 3. Dr. Shamama Anwar (CSE)	DST- SERV- CRG	24th january 2022	25.21 Lacs	3 Years

SECTION 3

CONFERENCES/WORKSHOPS

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	ATAL FDP on Trends in Measurement and control for System Automation	Dr. Vijaya Laxmi	AICTE	28.06.21-02.07.21

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

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Prabhat Kumar Upadhyay	Inculcating Universal Human Values in Technical Education	NA	AICTE	Online	06.06.22 to 10.06.22
2.	Prem Prakash	Electric Vehicle and Smart Grid: A Path Towards Sustainable Energy	AICTE-ISTE	KIIT, Bhubaneswar		17.12.21to 23.12.21
3.	Sudhanshu Kumar Mishra	Applications of Image Processing, Computer Vision and Intelligent Technologies in Pandemic	AICTE Sponsored Online Short- Term Course	MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR	Online	18.01.22 to 23.01.22
4.	Vijaya Laxmi	Remote Sensing for Space and Atmosphere	AICTE	IIT, Indore	Online	25.04.22- 30.04.22
5.	Vijaya Laxmi	IoT based condition Monitoring	ATAL Academy, AICTE	Veermata Jijabai Technological Institute VJTI Mumbai	Online	06.12.21-10.12.21
6.	Vijaya Laxmi	Robotics and Artificial Intelligence	ATAL Academy, AICTE	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	Online	07.02.22-11.02.22
7.	Vijaya Laxmi	Industrial Internet of Things using LabVIEW	ATAL Academy, AICTE	KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi	Online	03.01.22-07.01.22
8.	Vijaya Laxmi	Internet of Things(IoT) in Smart Cities	ATAL Academy, AICTE	Kongunadu College of Engineering and Technology	Online	20.09.21-24.09.21
9.	Vijaya Laxmi	Controller Design and Implementation For Renewable Power Generation Systems (Hydro, Wind, Solar System)	AICTE	NIT Meghalaya	Online	07.03.22-11.03.22
10.	Pankaj Mishra	Power System Design Simulation and Analysis using DIgSILENT PowerFactory Software	NA	DIgSILENT GmbH, Germany	Online	21.09.21 – 22.09.21

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
11.	Pankaj Mishra	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	18.10.2021- 22.10.2021
12.	Debomita Ghosh	Integration of Renewable Energy & EV to Microgrid: Prospects and Challenges	N/A	NIT Tiruchirapalli	Online	21-02-2022- 25-02-2022
13.	Debomita Ghosh	Green Technology and Sustainability Management	AICTE	AICTE	Online	01.07.2021- 05.07.2021

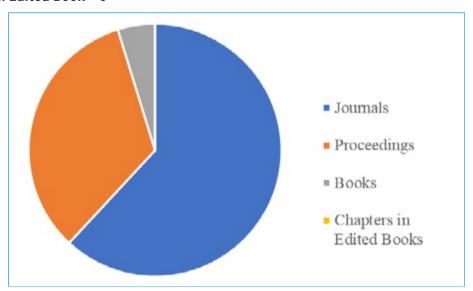
SECTION 4

RESEARCH PUBLICATIONS

Publications in Journals: (International/National) - 39

Publications in Proceedings: (International/National) with ISBN numbers only - 21

Book: (with ISBN details) – 3 **Chapter(s) in Edited Book –** 0



SECTION 5

AWARD / PATENT / COLLABORATIONS

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

Sr.	Name of the	Title of the Award /	Organisation	State / National /	Year /
No.	Faculty Member	Honour		International Level	Duration
1.	Tirthadip Ghose	Invited Lecture- Smart Grid: Implementation, Challenges and avenues	IIIT, Bhagalpur	National	14th-18th April,2022

2.	Ajay Kumar	Invited Lecture- Power Electronics Interfacing for Renewable Energy Sources	Graphic Era university	National	7th -11th March 2022
3.	Ajay Kumar	Invited Lecture- Recent Research in Power Converter and Control-I	Rajkiya Engineering College Ambedkar nagar	National	25th February 2022

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1. List of Faculties

Sr. No.	Name	Designation
1.	Dr. (Mrs.) S. Chakraborty	Professor & Head
2	Dr. T. Ghose	Professor
3.	Dr. D. K. Mohanta	Professor
4.	Dr. (Mrs.) Vijaya Laxmi	Professor
5.	Mr. Prem Prakash	Assistant Professor
6.	Dr. Surendra Kumar	Assistant Professor
7.	Dr. Sudhansu Kr. Mishra	Assistant Professor
8.	Dr. Gauri Shanker Gupta	Assistant Professor
9.	Dr. (Mrs.) Debomita Ghosh	Assistant Professor
10.	Mr. B. M. Prasad	Assistant Professor
11.	Mrs. Sushma S. Kamlu	Assistant Professor
12.	Mr. Subrat Kuamr Swain	Assistant Professor
13.	Dr. Deepak Kuamr	Assistant Professor
14.	Md. Aftab Alam	Assistant Professor
15.	Dr. S. Shiva Kumar	Assistant Professor
16.	Dr. P.K. Upadhayay	Assistant Professor
17.	Dr.Pankaj Mishra	Assistant Professor
18.	Dr. Ajay Kumar	Assistant Professor
19.	Dr. Soumya Chatterjee	Assistant Professor
20.	Dr. Debasmita Mondal	Assistant Professor

6.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. Subhasis Chaudhuri	Visiting Faculty	
2.	Dr. Goshaidas Ray	Visiting Faculty	

6.3 Board of Studies

Sr.	Name of the Member	Designation	Role
No.		(Kindly mention Ex-Officio, where	(Chairman/Internal
		applicable)	or External Member)
1.	HoD, EEE	Chairman BOS	Internal
2.	Dr. T. Ghose	Professor	Internal
3.	Dr. D. K. Mohanta	Professor	Internal
4.	Dr. (Mrs.) Vijaya Laxmi	Professor	Internal
5.	Dr. (Mrs.) Sarbani Chakraborty	Professor	Internal
6.	Dr. Sudhansu Kumar Mishra	Assistant Professor	Internal
7.	Dr. Deepak Kumar	Assistant Professor	Internal
8.	Dr. S.S. Solanki	Professor, ECE & Dean (DUGS)	Internal
9.	Dr. Aruna Jain	Associate Professor, CSE	Internal
10.	Dr. Pankaj Mishra	Assistant Professor	Internal
11.	Mr. Sanjay Kumar	Assistant Professor	Internal
12.	Dr. (Mrs.) Aparajita Pandey	Assistant Professor	Internal
13.	Mr. Prem Prakash	Assistant Professor	Internal
14.	Mr. Avinash Priyam (BTech/10487/18)	Member	Internal
15.	Mr.SwagataBanerjee (MTech/10013/20)	Member	Internal
16.	Mr.R.Bhargava (MT/EE/10009/20)	Member	Internal
17.	Ms.Anamika (MT/EE/10037/20)	Member	Internal
18.	Mr. Vijay Kr. Karan, Ph.D. Scholar	Member	Internal
19.	Prof. S.A. Soman	Professor	External
20.	Prof. Sunit kumar Sen	Professor	External
21.	Prof. Anup Kumar Panda	Professor	External
22.	Prof. Nilanjan Senroy	Professor	External
23.	Mr. Partha Pratim Sen	Industry	External
24.	Mr. Tapan Dasgupta	Industry	External
25.	Mr. Deepak Kumar	Industry	External

SECTION 7 OTHER INFORMATION

7.1 Publication by students, if any

Publications in Journals: (International/National)

- Abhinandan Kumar and Tirthadip Ghose (2021). A Newton □Raphson □based unified load flow of grid□connected and islanded AC-DC microgrids. ITEES, Wiley. Vol 31.
- Sandip Gupta, Tirthadip Ghose and Kalyan Chatterjee (2022). Coordinated control of Incentive-Based Demand Response Program and BESS for frequency regulation in low inertia isolated grid. Electric Power Systems Research. Vol 209, 108037.
- Abhinandan Kumar and Tirthadip Ghose (2022). An algorithm for contingency analysis of the AC-DC networks using modified Z-bus technique. Electric Power Systems Research. Vol 210. 108138.
- 4. Prabhat Ranjan Tripathi, Vijaya Laxmi, Ritesh Kumar Keshri, Amitkumar Vidyakant Jha, Bhargav Appasani, Nicu Bizon and Phatiphat Thounthong, (2021). A Three-Phase Resonant Boost Inverter Fed Brushless DC Motor Drive for Electric Vehicles. Electronics. Vol. 10(15). 1799. doi:10.3390/electronics10151799.
- Prabhat R. Tripathi, V. Laxmi, Ritesh K. Keshri, Bhargav Appasani and Taha Selim Ustun (2021). A Novel Fundamental Frequency Switching Operation for Conventional VSI to Enable Single-Stage High-Gain Boost Inversion with ANN Tuned QWS Controller. Electronics. Vol 10(20). 2499. https://doi. org/10.3390/electronics10202499
- SK Singh, CS Matwankar, M Jee, A Alam (2022). MRAS-based current estimator for DC-DC converters considering timevariant load impedance. Journal of Power Electronics. Vol 22. 210–221. https://doi. org/10.1007/s43236-021-00353-2
- Bhargav Appasani , Amitkumar V. Jha, Kunjabihari swain, Murthy cherukuri and Dusmanta kumar Mohanta (2022). Resiliency Estimation of Synchrophasor Communication Networks in a Wide Area Measurement System. Frontiers in

- Energy Research. Vol 10. doi: 10.3389/fenrg.2022.854676
- AM Khalkho, B Rapada, G Majumdar, M Cherukuri, DK Mohanta (2022). Impact Assessment of Solar Power Generation Uncertainty on Smart Grid Reliability and Carbon Neutrality. Frontiers in Energy Research. Vol 10.
- AM Khalkho, DK Mohanta (2022). RBFNN assisted transient instability-based risk assessment of cyber-physical power. Electrical Power and Energy System. Vol 137. https://doi.org/10.1016/j.ijepes.2021.107787
- AM Khalkho, DK Mohanta (2022). Reliability evaluation of non dispatchable energy resources in Generation Planning: A Wind Electrical System Case Study. International Transactions on Electrical Energy Systems. Vol. 2022. https://doi. org/10.1155/2022/2669061
- 11. S.K Jha, Deepak kumar, M. Lehtonen (2021). Modified V-I Droop Based Adaptive Vector Control Scheme for Demand side Management in a Stand alone Microgrid. International Journal of Electrical Power and Energy System. Vol 130. https://doi.org/10.1016/j.ijepes.2021.106950
- Sonal, Debomita Ghosh (2021). Novel Trends in Resilience Assessment of a Distribution System using Synchrophasor Application: A Literature Review. International Transaction on Electrical Energy Systems. Wiley. Vol. 31 (8). 1–48. https://doi.org/10.1002/2050-7038.12934
- 13. Sourav Kumar Sahu, Debomita Ghosh (2021). Operational Hosting Capacity Based Sustainable Energy Management and Enhancement. International Journal of Energy Research. Wiley, Vol 46 (3) 2418-2437. https://doi.org/10.1002/er.7317



- 14. Rajesh Saikrishna, Nilesh Kumar Rajalwal, Debomita Ghosh (2022). Adaptive relay coordination using a busbar splitting approach for a system integrity protection scheme. Protection and control of modern power systems. Springer, Vol. 7(14). 1–12. https://doi.org/10.1186/s41601-022-00235-0
- Sonal, Debomita Ghosh (2022). Hybrid Data-driven Resilience Assessment and Enhancement of Distribution System for

Publications in Proceedings: (International/National)

- Ayanangshu Chakrabarty, Abdullah Umar, Deepak Kumar and Tirthadip Ghose (2022). Energy Management and Trading of a Community Microgrid using Blockchain Approach. 2022 International Conference on IoT and Blockchain Technology (ICIBT)
- Ayanangshu Chakrabarty, Abdullah Umar, Deepak Kumar and Tirthadip Ghose (2022). Energy Management and Trading of a Community Microgrid using Blockchain Approach. 2022 International Conference on IoT and Blockchain Technology (ICIBT)
- 3. Abdullah Umar, Deepak Kumar and Tirthadip Ghose (2022). Peer-to-Peer Energy Trading in a Self-Sustained Microgrid System Using Blockchain Technology. IEEE. 1–6.
- 4. Eeshan Amiy, Prabhat Kumar Upadhyay, Rishabh Raj (2022). An IOT based Smart Irrigation System Using Sugeno's Fuzzy Inference & Solar Power. IEEE Xplore Accession Number: 21764359, DOI: 10.1109/ ICRTCST54752.2022.9781942.
- R.Kundu, S.Das, S.K.Mishra (2022). A Comprehensive Review of Single and Double Stage Object Detection Algorithms in Self Driving. IEEE 7th International conference for Convergence in Technology (I2CT) Pune, India.
- Anamika, Soumya Samanta, Sudhansu Mishra, T.Ghosh (2022). Control of DC microgrid using Interconnection and Damping Assignment Passivity Based Control method. IEEE 7th International Conference for Convergence in Technology, Pune, India.

- Cyclone Susceptible Zones. Scientific Reports. Nature, Vol. 12(9492). June 2022. https://doi.org/10.1038/s41598-022-13311-0
- Rajdip Debnath, G.S. Gupta, Deepak Kumar (2022). Lyapunov-Krasovskii passivity-based stability analysis of grid-tied inverters. International Journal of Electrical Power & Energy Systems. Vol. 143, 108460.
- 7. Shantnu Sharma, Nitin Gupta, Ajay Kumar, Man Mohan Garg (2022). Comparative Analysis of PI and PR Controller for Gridtied Solar Photovoltaic System. 4th International Conference on Energy, Power and Environment (ICEPE), NIT Meghalaya, Shilong, India.
- Nilima Gadkar, Subhranil Das, Sarabani Chakraborty, Sudhansu Kumar Mishra (2022). Static obstacle avoidance for Rover vehicle using Model Predictive controller. IEEE International Conference on IoT and Blockchain Technology.
- Ashish Kumar, Sudhanshu Kumar Mishra, Ayush Kejriwal (2022). Prediction of Happiness Score of Countries by considering Maximum Infection Rate of people by COVID-19 using Random Forest Algorithm. IEEE Bengaluru.
- Mukur Gupta, Nitin Gupta, Man Mohan Garg, Ajay Kumar (2022). Analysis and Design of PI-Lead Compensator for DC-DC Boost Converter. 4th International Conference on Energy, Power and Environment (ICEPE), NIT Meghalaya, Shilong, India.
- Ayyagari Sai Lalitha, S. Chakraborty, S. Shiva Kumar (2022). A Zero Voltage Switching Based Soft Switching Boost DC-DC Converter for Vehicle to Grid Applications with Enhanced Energy Efficiency. IEEE International Conference of Emerging Technologies (INCET).
- M. Mahato, S Shiva Kumar, P K Ojha, Aftab Alam, Ajay Kumar (2022). Solar Fed Boost Inverter with Closed Loop Proportional

- Resonant Controller for Grid Application. IEEE conference on IOT and Block chain Technology.
- 13. Jatin Pratap Singh, S. Shiva Kumar, Deepak Kumar and Ayyagari Sai Lalitha (2022). A Soft Switching Boost DC-DC Converter Based on ZVS for Vehicle to Grid Applications with Enhanced Efficiency. IEEE Region 10 Symposium (TENSYMP) Power Electronics and Systems.
- 14. Vineet Kumar, Vijaya Laxmi (2022). Pests Detection Using Artificial Neural Network and Image Processing. A Review International Conference on Sustainable Computing and Data Communication Systems ICSCDS.
- 15. Shubham Banerjee, S. Shiva Kumar, A. Alam

- (2022). Whale Optimization Algorithm Based Speed Control of BLDC Motor. Sustainable Energy and Future Electric Transportation.
- Soumita Ghosh, Siddhardha Kedarisetty, Debomita Ghosh, Dusmanta Kumar Mohanta (2021). Failure scenarios of power system protection. 5th International Conference on System Reliability and Safety. Palemro, Italy, IEEE.
- 17. Sourav Kumar Sahu, Shubham Kumar, Debomita Ghosh, Sudipto Poddar (2021). Modelling and Analysis of Distribution System Performance with Integration of Electric Vehicle Charging Station in Real-time Environment. INDICON-2021. Guwahati, India, IEEE.

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc		
1.	Manvi Ridhi	CAT-2021 (99.62 Percentile)	IIM, Ahmedabad	28/12/2021
2.	Sahil Malhan	Internship	ETG Online Centre For Innovation	1 Month
3.	Aditya Pathak	Internship	Electric Fish Energy	7 Weeks
4.	Rohit Prashant Sharma	Internship	Electric Fish Energy	7 Weeks
5.	Badal Kumar Jha	Internship	Tata Steel Ltd	6 Weeks
6.	Gaurav Agarwal Internship Tata Steel Long Produ		Tata Steel Long Products Limited	2 Months
7.	Devansh Baldwa Internship BNR Capital Service Ltd		BNR Capital Services Pvt Ltd	6 Weeks
8.	Shradha Shekhar	Internship	WM Global Technology Services India Pvt. Ltd	2 Months
9.	Dheeravath Vijay Nayak	Internship	National Instruments innovation Centre	6 Weeks
10.	Abhishek Keshri	Internship	Intershala Training	2 Months
11.	the contract of the contract o		SAMSUNG R&D Institute India- Bangalore Pvt.Ltd.	2 Months
12.	12. Narendra Manglani Internship Games 24 Seven		Games 24 Seven	2 Months
13.	Vivek Dubey	Internship	WELLS FARGO International Solutions Pvt. Ltd	8 Weeks

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
14.	Mayank Gupta	Internship	Worldwide Machinery Solutions Pvt. Ltd.	6 Weeks
15.	Aditya Azad	Internship	Linde Engineering India Pvt. Ltd	61 Days
16.	Manvi Ridhi	Internship	Price water house Coopers Services LLP	61 Days
17.	Ankita Toppo	Internship	NETCAMP Solutions Private Limited	2 Months
18.	Avinash Priyam	Internship	Central Coalfields Limited	8 Weeks
19.	Tanvirul Haque	Internship	Innovaccer Analytics Private Limited	2 Months
20.	Satyam Kumar	Internship	Worldwide Machinery Solutions Pvt. Ltd.	6 Weeks
21.	Gaurav Singh	Internship	Technolabs Indore	7 Weeks
22.	Anupam Baanwal	Internship	IIT Indore	2 Months
23.	Atulya Arya	tulya Arya Internship Goldman Sachs Services Private Limited		8 Weeks
24.	Mona	Internship Doormonk Services Tech Pvt.Ltd		2 Months
25.	Gotika Ramya Reddy	Internship	Tech Vedika Software Pvt Ltd	7 Weeks
26.	Guneet Singh Oberai	Internship	Worldwide Machinery Solutions Pvt. Ltd.	6 Weeks
27.	Shantanu Dhananjay Jahangirdar	Internship	Lassonde School of Engineering, York University	10 Weeks
28.	Naman Mawandia	Internship	AXIS Bank	7 Weeks
29.	Suryansh Singh	Internship	Indus Valley Partners (India)	8 Weeks
30.	Rishav Raj	Internship	VBUILD	8 Weeks
31.	Saurav Kumar Gupta	urav Kumar Gupta Internship Worldwide Machinery Solutions Pvt. Ltd.		6 Weeks
32.	Divya Kumari	Internship	PVUN Ltd., Patratu	6 Weeks
33.	Harsh Agarwal	Internship	Worldwide Machinery Solutions Pvt. Ltd.	6 Weeks
34.	Adarsh Kumar	Internship	Central Coalfields Limited	8 Weeks
35.	Arunesh Ankur	Internship	Central Coalfields Limited	8 Weeks

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
36.	Devesh Parashar Aman	Internship	Central Coalfields Limited	8 Weeks
37.	Ashutosh Singh	Internship	KPMG	1 Month
38.	Aditya Pathak	Internship	Logic Fruit Technologies Private Limited	6 Months
39.	Badal Kumar Jha	Internship	SAMSUNG India Electronics Pvt. Ltd	6 Months
40.	Shuvam Adhikary	Internship	KPMG	6 Months
41.	Shradha Shekhar	Internship	Walmart Global Technology Services India	6 Months
42.	Abhishek Keshri	Internship	Deloitte Support Services India Pvt.Ltd	21 Weeks
43.	Parth Prasun	Internship	One 97 Communications Ltd.	23 Weeks
44.	Narendra Manglani	arendra Manglani Internship Walmart Global Technology Services India		6 Months
45.	Vivek Dubey	ivek Dubey Internship WELLS FARGO International Solutions Pvt.Ltd		6 Months
46.	Mayank Gupta	Internship	KPMG	6 Months
47.	Aditya Azad	Internship	SMART SERV	6 Months
48.	Tanvirul Haque	Internship	Walmart Global Technology Services India	6 Months
49.	Satyam Kumar	Internship	ZS Associates India Pvt. Ltd	6 Months
50.	Gaurav Singh	Internship	SAMSUNG India Electronics Pvt. Ltd	6 Months
51.	Anupam Baranwal	Internship	One 97 Communications Ltd.	23 Weeks
52.	Harsh Agarwal	Internship	One 97 Communications Ltd.	23 Weeks
53.	Guneet	Internship	KPMG	6 Months
54.	Atulya Arya	Internship	Goldman Sachs Services Private Limited	6 Months
55.	Mona	Internship	American Express (India) Private Limited	6 Months
56.	Shantanu Dhananjay Jahangirdar	Internship	Bain Capability Centre India Pvt Ltd	6 Months

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
57.	Naman Mawandia	Internship	Samsung R&D Institute India	5 Months
58.	Suryansh Singh	Internship	Microland	6 Months
59.	Saurav Kumar Gupta	Internship	SYNOPSIS	6 Months
60.	Soumya Srivastava	·	Deloitte Support Services India Pvt.Ltd	21 Weeks
61.	Siddhartha Deo	Secured Global Rank 88 in Codechef June long Challenge	Codechef	14/06/2021
62.	Siddhartha Deo	Secured Global rank 121 in Codechef January Cook Off challenge	Codechef	23/01/22
63.	Siddhartha Deo	Achieved 5 stars in c++ and Problem Solving certificate on HackerRank	HackerRank	30/09/2021
64.	4. Siddhartha Deo Among top 5% in Code- Gladiators participants		Tech Gig	July 2021
65.	Ayushman Dutta	Student Mentorship Programme	Electrical & Electronics Engineering Society (EEESoc)	08/06/2022

7.3 List of Distinguished Alumni

Sr. No.	Name, Batch and Affiliation	Short Description	
1.	Anjan Lahiri, 1987, Birlasoft	CEO	
2.	Arun Nathan, 1969, GERB Vibration Control Systems Pvt. Ltd.	Director	
3.	Madhavan Nayar, 1963, E-Prairie, LLC	Founder	
4.	Shree Nayar,1984, Columbia University	Computer Science	

7.4 Infrastructure Development: Modernization of Basic Electrical Laboratory and Faculty rooms.

Department of Hotel Management and 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 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, food festivals and outdoor caterings to cultivate skill among the students.

Among the branded and luxurious hotels in India our department has gained a very good image and students go on "Industrial Exposure Training" in India and abroad for 18 weeks in various star Hotels such as Taj group of hotels, Oberoi group of hotels, ITC group of hotels, The Park hotels, Marriott group of hotels, etc.

VISION

To become a globally recognized hospitality institution for creating skilled human resource to meet the professional Hospitality Industry needs across the globe.

MISSION

» To create salubrious environment to provide excellent state of the art facilities meeting the hospitality industry requirement.

- » To provide excellent technological support to bridge the gap between academic and industry to fulfill the overall academic need of the society.
- » To ensure all round development of the students and to create a platform for turning out hospitality professional who can assume leadership position in society.
- » To provide high quality course structure to enable qualified professionals to meet the hospitality needs globally.
- » To develop effective teaching skill and research potentials of the faculty members.

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	Duration of the Project
1.	Possibilities of Inclusion of Tribal Languages in the Curriculum of DoW-run Residential Schools for STs and Assessment of Learning Aptitude of Students	CO- PI : Dr. Praveen Srivastava	Dr. Ramdayal Munda Tribal Welfare Research Institute, Ranchi, Jharkhand	28.02.22	9,00,000/-	4 months

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

S	r. o.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1	l.	One-week Science and Technology Festival	Gautam Shandilya Coordinator (Hospitality)	Office of PSA and Ministry of Culture, Government of India in association with Vigyan Prasar.	22.02.22 – 28.02.22
2	<u>2</u> .	One-week online ATAL FDP "Design Thinking for Excellence in Outcome Based Education & Digital Learning"	Praveen Srivastava Co-Coordinator	AICTE	29.11.2021 - 3.12.2021

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

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Abhisek Jana	Revamping Hospitality and Tourism Industry through Innovation	N/A	CT University, Ludhiana, Punjab	Online	30.10.2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
2.	Nishikant Kumar	Emerging Trends in Teaching, Learning and Research (07 days FDP)	Baba Ghulam Shah Badshah University, Rajouri, J & K	Centre for Hospitality and Tourism, J & K	Online	23.05.2022 to 29.05.2022
3.	Nishikant Kumar	International Conference on Reflections on : New Tourism" and "New Normal" in Post Covid'19 World	Central University of Jammu	Department of Tourism and Travel Management	Online	26.05.2022 to 27.05.2022
4.	Nishikant Kumar	International Conference on Travel, Tourism , Hospitality & Culture (Chaired the Session)	Institute of Hotel Management Catering Technology & Applied Nutrition, Ranchi	IHM, Ranchi	IHM Ranchi	11.03.2022 to 12.03.2022
5.	Nishikant Kumar	Emerging trends in Hospitality and Tourism Research and Fata Analysis (05 days FDP)	SGT University, Gurugram.	Faculty of Hotel and Tourism Management	Online	01.02.2022 to 05.02.2022
6.	Gautam Shandilya	ATAL FDP on "Design Thinking for Excellence in Outcome Based Education & Digital Learning"	AICTE	BIT Mesra	Online	29.11.21 to 03.12.21
7.	Gautam Shandilya	E-Faculty Development Program on "Intellectual Property rights and its application"	Self	Jharkhand Rai University, Ranchi in association with Institution Innovation Council.	Online	19.07.21 to 24.07.21
8.	Gautam Shandilya	Workshop on "Research Methodology"	Self	Jharkhand Rai University, Ranchi	Online	17.06.22 to 19.06.22
9.	Praveen Srivastava	NPTEL Awareness E-Workshop	Self	Sanjay Ghodawat University, Kolhapur in association with NPTEL, IIT Madras	Online	15.12.21
10.	Praveen Srivastava	One-week online Faculty Development Program on Analytics	BIT	Indian Institute of Management (IIM), Vishakhapatnam.	Online	30.08.21 to 03.09.21

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
11.	Abhinav K Shandilya	Revamping Hospitality and Tourism Industry through Innovation	N/A	CT University, Ludhiana, Punjab	Online	30.10.2021
12.	Abhinav K Shandilya	Digital Learning Methodologies: Transformation of Business, Management and Education Practices	N/A	Parul University, Gujarat	Online	23.10.2021
13.	Abhinav K Shandilya	3 rd Conference on Hospitality and Tourism Sectors: Hospitality 2.0 - Reimaging the Hospitality and Tourism space	N/A	Auro University, Gujarat	online	06.05.2022

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.		Publication Type	Number	
	1.	Journal	07	
	2.	Chapter in Edited Book	03	



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
Srivastava ICAM4, International Joint E-Conference		Taylor University, Malaysia, and University of Kelaniya, Srilanka	International	11.09.21	
2.	Dr. Praveen Srivastava	Resource Person in a one- day National Workshop on "Research Methodology for Hospitality"	Ajeenkya D Y Patil University, Pune	National	29.06.22

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

6.1 List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms. , as applicable)	Designation	TEQIP Sponsored (Yes / No)
1.	Dr. Praveen Srivastava	Assistant Professor	No
2.	Dr. Abhinav Kr. Shandilya	Assistant Professor	No
3.	Dr. Nishikant Kumar	Assistant Professor	No
4.	Dr. Abhisek Jana	Assistant Professor	No
5.	Dr. Rajeshwari Chateerjee	Assistant Professor	No
6.	Mr. Sanjiv Kr. Srivastava	Assistant Professor	No
7.	Dr. Amit Saran	Assistant Professor	No
8.	Mr. Gautam Shandilya	Assistant Professor	No
9.	Ms. Pratima Ekka	Assistant Professor	No
10.	Dr. Pranjal Kumar	Assistant Professor	No

6.2 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. S K Jain	HOD - (Ex-Officio)	Chairman
2.	Dr. Praveen Srivastava	Asst. Professor, Dept. of HMCT	Internal Member
3.	Dr. Abhinav Kr. Shandilya	Asst. Professor, Dept. of HMCT	Internal Member
4.	Dr. Nishikant Kumar	Asst. Professor, Dept. of HMCT	Internal Member
5.	Dr. Abhisek Jana	Asst. Professor, Dept. of HMCT	Internal Member
6.	Mr. Sanjiv Kr. Srivastava	Asst. Professor, Dept. of HMCT	Internal Member

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
7.	Dr. Amit Saran	Asst. Professor, Dept. of HMCT	Internal Member
8.	Mr. Gautam Shandilya	Asst. Professor, Dept. of HMCT	Internal Member
9.	Dr. Rajeshwari Chateerjee	Asst. Professor, Dept. of HMCT	Internal Member
10.	Dr. B. N. Sinha	Professor, Dept. of Pharmaceutical Sciences and Technology	Internal Member
11.	Prof. Shradha Shivani	Professor, Dept. of Management	Internal Member
12.	Dr. Saswati Ghosh Sachen	Asst. Professor, Dept. of Bioengineering	Internal Member
13.	General Manager, Hotel Radisson Blu, Ranchi	(Ex-Officio)	External Member
14.	General Manager, JTDC, Ranchi	(Ex-Officio)	External Member

SECTION 7 OTHER INFORMATION

7.1 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Manas Pandey Batch: 2K4 Affiliation: National General Insurace Co., Dubai, UAE	Sr. Business development manger. Responsible to develop new corporate account.
2.	Govind Mishra Batch: 2K5 Affiliation: Nour Arjaan by Rotana, UAE	Manager - Sales & Marketing.
3.	Subhadra Saxena Batch: 2K5 Affiliation: Bank of New York, Pune	People analyist, Operations and Technical.
4.	Anik Anand Batch: 2K6 Affiliation: Sheraton Hotels, Ethopia (East Africa)	Director of room operation in Sheraton by Luxury collection.
5.	Parth Chopra Batch: 2K8 Affiliation: Carnival Cruise Line, USA	Demi Chef.

7.2 Infrastructure Development

Development of Labs (Finishing kitchen lab, Training Bar, Simulation laboratory)

DEPARTMENT OF MANAGEMENT

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department:

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

Vision

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

Mission

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

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	Duration of the Project
1.	Institute Technology Business Incubator Under Nidhi-DST Gov. of India Program.	Dr. Supriyo Roy	DST New Delhi	10 June 2022	5 Cr.	3 Yrs
2.	Possibilities of Inclusion of Tribal Languages in run Residential Curriculum of DOW-run Residential School for STs and assessment of learning aptitude of students.	Prof. Shradha Shivani & Dr Niraj Mishra, Dr Anand Kumar & Dr Praveen Srivastav	Dr. Ram Dayal Munda Tribal Welfare Research Institute, Dept. of Scheduled Tribe, Scheduled Cast & Welfare dept. Morabadi Ranchi	2 nd March 2022	9 Lacs	4 months



b) Consultancy Projects carried out:

Sr.		Funding	Di	uration	Grant	Principal	Ongoing/
No.		Agency	trom to		mobilized (₹ Lacs)	Investigator / Co- Investigator	Completed*
1.	MDP on Excellence in Public Service.	Department of Labour, Govt of Jharkhand.	4 th March 2022	9 th March 2022	7.5 Lacs	Prof. Shradha Shivani and Dr. Niraj Mishra	Completed
2.	MDP on Business Innovation	Indian Oil Corporation	7 th December, 2021	9 th December, 2021	30,000	Prof. Shradha Shivani and Dr Niraj Mishra	Completed

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding oySponsoring Agency	Date of Event (dd.mm.year)
1.	"International Conference on Sustainability: Research, Education and Practice"	Dr. Shradha Shivani	From Participant Registration	30 th May to 31 st May, 2022
2	National Research Development Workshop on 'Statistical Technique and Data Analytics'	Dr. Supriyo Roy & Dr. Anand Pd Sinha	From Participant Registration	10 th June to 14 th June 2022 in Online mode.
3	One week "ATAL Faculty Development Program"	Dr. Shradha Shivani	AICTE New Delhi	November 29 th , 2021 – 3 rd Dec 21.
4.	Doctoral Colloquium	Dr Anupam Ghosh & Dr. Rohini Jha	Department of Management, BIT Mesra Ranchi	11 th Feb 2022

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

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Kumari,N., Shivani,S. & Mishra, N. (2022)	International Conference on Sustainability: Research, Education and Practice Title:The Study of Post Purchase Regret on Health Insurance Products in India		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
2.	Mishra, S., Kumar, S. & Mishra, N. (2022)	International Conference on Sustainability: Research, Education and Practice Title: Impact of Social Media Marketing Activities on Brand Equity and Brand Commitment in OTT Platform (Disney+ Hotstar)		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
3.	Choudhary, N., Sinha, A. P., & Chatterjee, S. (2022)	International Conference on Sustainability: Research, Education and Practice Title:Role of Service Innovation in Fostering Customer Satisfaction and Loyalty: A Critical Review		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
4.	Prasad, S., Jha, R.& Jha, A.N (2022)	International Conference on Sustainability: Research, Education and Practice Title:A Study of Capital Structure of Indian Small and Medium Consumer Goods Enterprises- Sustainability Perspective		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
5.	Kumari, S., Jha, R. & Roy, S. (2022)	International Conference on Sustainability: Research, Education and Practice Title:A Critical Review of Bank's Performance: Traditional vs. Frontier Approach		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
6.	Srivastava, M., Shivani, S. & Dutta, S. (2022)	International Conference on Sustainability: Research, Education and Practice Title:A Systematic Literature Review on Sustainable Entrepreneurship		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
7.	Jha, N., Shekhar, M. & Mishra, N. (2022)	International Conference on Sustainability: Research, Education and Practice Title:Impact of Sexual Harassment on Working Women		Department of Management, Birla Institute of Technology, Mesra	Online	30 th - 31 st May 2022
8.	Srivastava, P. & Srivastava, S. (2021)	ICT Acceptance in education during COVID 19: Analyzing the mediation role of Social Influence: paper presented in BLM2_ICAM4 An International Joint e-Conference		Organized by CIRI in collaboration with Taylor University, Malaysia, and University of Kelaniya.	Online	11 th Sept 2021
9.	Fatima, S. and Ghosh, A. (2021).	An empirical investigation of consumer expectations from the online service providers during Covid-19 pandemic: Study from India". Paper presented in the theme "Changing Paradigms in Management and Social Sciences: A Global Perspective",		Organized by Amity University, Jharkhand.	Amity University, Jharkhand	27 th – 28 th Aug 2021



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
10.	Sujata Dash (2021)	Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on 'Data Analytics in Business Research-Open Source'.		Babasaheb Bhimrao Ambedkar University.	Online	9 th – 13 th December 2021
11.	Sujata Dash (2021).	Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on 'Design Thinking for Excellence in OBE & Digital Learning'.		BIT Mesra, Ranchi.	Online	29 th November 2021 to 3 rd December 2021
12.	Sujata Dash (2021).	Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Advanced FDP on 'Application of Blockchain Technology and Artificial Intelligence in Service Sector'.		Acharya Bangalore B School.	Online	15 th – 19 th November 2021
13.	Sujata Dash (2021).	Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on 'Application of Blockchain Technology and Artificial Intelligence in Service Sector'		Acharya Bangalore B School.	Online	20 th – 24 th September 2021
14.	Sujata Dash (2021).	Participated in the Faculty Development Programme on 'Challenges and Opportunities in Cyber Security with Current Tools and Techniques: A Research Perspective'.		Organized by Department of Computer Science and Engineering sponsored by CMR Engineering College, Hyderabad, India	Online	5 th – 9 th July 2021
15.	Rohini Jha (2021).	Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "Applications of Blockchain Technology and AI in Services Sector".		Organized by Acharya Bangalore B School	Online	15 th – 19 th Nov 2021
16.	Rohini Jha (2021).	Five days FDP (Online mode) "Challenges and Opportunities in Cyber Security With Current Tools and Techniques" .		Department of CSE, CMR Engineering College, Hyderabad,	Online	5 th – 9 th July 2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
17.	Rohini Jha (2021).	IPR Strategy and Cleantech Innovation		"Turnip Innovations	Online	16 th July 2021
18.	Rohini Jha (2021)	Participated in 2 hrs webinar on " Business Education Innovations in the YUCA World "		Organized by Globsyn Buiness School	Online	7 th August 2021
19.	Rohini Jha (2021)	Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "Design Thinking"		Organized by National Institute of Technical Teachers Training and Research, Chandigarh	Online	3 rd – 4 th Dec 2021
20.	Sujata Dash (2021).	Attended an Independence Day Webinar on IPR: Key to India's Future Journey facilitated by Mr. Munish Sudan, Head IP and ResearchCollaboration,Tata Steel,		Organized by Turnip Innovations Pvt. Ltd.		14 th August 2021
21.	Sujata Dash (2022).	Participated in the Gender Sensitization Towards Workplace Etiquettes (GSTWE)		Birla Institute of Technology	BIT Mesra	8 th March 2022
22.	Anand Pd Sinha	IP Awarness Training Programe on Natonal Intellectual Property Awarness Mission		Intellectual Property Office, Govt. of India.	Online	28 th April 2022
23.	Rohini Jha (2022).	Participated in 2hrs webinar on "Default is Digital: Trends & Opportunities"		Organized by BVICAM-New Delhi.	Online	4 th June 2022

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	13
2.	Proceeding	11
3.	Book	02
4.	Chapter in Edited Book	11



SECTION 5

AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. Supriyo Roy	D. Litt. Supply Chain Modelling / Supply Chain Intelligence.	DEPT. of Business Administration, Sambalpur University	National	May 2022
2.	Dr. Anupam Ghosh	Invited as Guest Speaker in 3-Day Training Program on "CSR and Communication:Planning, Implementation and Impact Evaluation".	Organized by Administrative Staff College of India (ASCI), Hyderabad.	National	22 nd – 24 th Sep 2021
3.	Dr. Anupam Ghosh	As a speaker at "Glasgow Convention: Sustainable Pathways for Future Ready Jharkhand"	Organized by Department of Forest, Environment and Climate Change, at Hotel Chanakya BNR, Ranchi	National	9 th May 2022
4.	Dr. Sujata Priyambada Dash	Delivered a Talk as Resource Person titled 'Blockchain in HR' in 5-Day (One Week) Online Faculty Development Programme on "Advancements in Blockchain Technology", Hyderabad	Organized by IcfaiTech(FST), ICFAI Foundation for Higher Education(IFHE),	National	7 th – 11 th March 2022
5.	Dr. Sujata Priyambada Dash	Recognition bestowed for dedication and valuable contribution as Organizer in Science and Tech Festival EXPO Team	Organized by Birla Institute of Technology, Mesra, Ranchi in collaboration with the Office of PSA and Ministry of Culture, Government of India in association of Vigyan Prasar	National	22 nd – 28 th Feb 2022
6.	Mrs. Shelly Srivastava	Recipient of Gold Award in BLM2-ICAM4, international Joint E-conference for the paper titled "ICT acceptance in education during COVID -19: Analysing the mediation role of Social Influence ". Conference	Organised by CIRI in association with Taylor University, Malaysia and University of Kelaniya	National	11 th Sept 2021

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Co-ordinator (if any)	Date / Duration
1.	BTrix 22	Himanshu Shekhar, Siddharth Roshan, Sanket Ghosh	Dr. Satyajit Kr Mahto	27 th February 2022
2.	DAKSHAM: 22	Shivani Agrawal, Sumeet Raj	Mr. S.K.Singh	27 th March 2022
3.	EVOLUTION'22	Ricky Mahto, Nikita jha , Himanshu Shekhar	Mrs. Shelly Srivastav.	19 th June 2022
4.	SANSHRAY	Sumeet Raj , Shivani Agarwal	Mr. S.K.Singh	June 2022
5.	ABHYUDAYA 21	Pramit Basu, Raj Vardhan	Dr. S. Dutta	July 2021
6.	Quizzard'21	Diksha, Sanket Ghosh, Siddharth Roshan	Dr. S P Dash, Ms Shelly Shrivastava	26 th Sep 2021
7.	INTERNICO 2021	Siddharth Roshan, Aditya Kr Singh, Vishal .	Dr. S P Dash, Ms Shelly Shrivastava	7 th Nov 2021

6.2 List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms. , as applicable) (Yes / No)	Designation	TEQIP Sponsored
1.	Dr. Shradha Shivani	Professor & Head	No
2.	Dr. Utpal Baul	Dean (A&IR) & Professor	No
3.	Dr. Manju Bhagat	Professor	No
4.	Dr. Ravindra Nath Bhagat	Professor	No
5.	Dr. A. N. Jha	Professor	No
6.	Dr. Supriyo Roy	Associate Professor	No
7.	Dr. Anupam Ghosh	Assistant Professor	No
8.	Dr. Dharmendra Kumar Chand	Assistant Professor	No
9.	Dr. Praveen Chandra Jha	Assistant Professor	No
10.	Dr. Rohit Kumar Pandey	Assistant Professor	No
11.	Dr. Anand Kumar	Assistant Professor	No
12.	Dr. Shailendra Kumar Singh	Assistant Professor	No
13.	Dr. Mrs Rohini Jha	Assistant Professor	No
14.	Mrs. Shelly Srivastava	Assistant Professor	No
15.	Dr. Anand Prasad Sinha	Assistant Professor	No
16.	Dr. Sujata Priyambada Dash	Assistant Professor	No
17.	Dr. Niraj Mishra	Assistant Professor	No
18.	Dr. Satyajit Kr Mahto	Assistant Professor	No

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. Kripa Shanker	Professor (Retd.),	Industrial and Management Engineering Department, Indian Institute of Technology Kanpur, 208016 (UP), India
2.	Dr. Purusottam Sen	Professor (Retd)	IIM Calcutta
3.	Ms. Bishwajit Choudhary	General Manager (Finance)	RDCIS SAIL, Ranchi

6.4 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)	
2.	Dr. Shradha Shivani	Professor	Internal Member
3.	Dr. Utpal Baul	Professor	Internal Member
4.	Dr. Manju Bhagat	Professor	Internal Member
5.	Dr. R.N. Bhagat	Professor	Internal Member
6.	Dr. Supriyo Roy	Associate Professor	Internal Member
7.	Dr. Rohini Jha	Assistant Professor	Internal Member
8.	Dr. Vandana Bhattacharjee	HOD &Professor	Internal Member
9.	Dr. Ritesh Kumar Singh	Associate Professor	Internal Member
10.	Dr. Tannushri Dutta	Associate Professor	External Member
11.	Mr. Shiva Botchu	Executive from Industry	External Member
12.	Dr. Rohit Kumar Pandey	Assistant Professor	Special Invitee

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.	Himanshu Shekhar MBA/10113/20	From Business Market	Wing your Think.com	Wing your Think.combusiness, have ambitious growth goals, and are looking for an extravagant partner to help you wing your online presence. Starting from making an amazing website, mobile application to measurably improve marketing performance, manage social media presence, and leads generation via overall research & consulting, Wing Your Think has it all.
2.	Himanshu Shekhar MBA/10113/20	BIT Mesra	SHEO BIKES	Himanshu Shekhar under the guidance of Dr. Anand Pd Sinha has developed SHEO BIKES -(Hybrid EV Cycle-Retro Fitting Model)), a Battery Innovation Technology Services & Mobility "Smart Hybrid Electric Optimistic Bikes" (SHEO BIKES – (Hybrid EV Cycle-Retro Fitting Model)), which

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
				supports carbon-free hybrid cycle in the environment. EV cycles will be beneficial to BIT students in our university as well as tribal people and design will be 100% eco-friendly because being electrically powered, they will contribute to a healthy and green climate. Some features are
				1. Carbon free hybrid cycle.
				2. 100% eco-friendly, electrically powered.
				3. Load capacity up to 220kg.
				4.Online Presence to penetrate global market and faster order processing.5. As an economical option to be a right fit in the Indian logistics industry.
3.	Weesam Fatima MBA/10048/20	Instragram	Little_ Dreamer	Little dreamer presents a Native American legacy called "Dreamcatcher " with an intention to spread love , positivity and bridging specially handicrafted. At Little Dreamer " Dreams turn into reality"
4.	Utsav Kumar MBA/10074/20	Sponsorship	Foodies of Patna	Online food reviewing across hotels, restaurants and food outlets across all social platforms.

7.2 Publication by students

Publications in Proceedings: 01.

7.3 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/Award etc	Organised by	Date and Venue
1.	Mayank Shekhar MBA/10020/20	GP Birla Scholarship for SP 2022.	BIT Mesra	June 2022
2.	Nikita Jha MBA/10059/20	GP Birla Scholarship for SP 2022.	BIT Mesra	June 2022
3.	Vidit Mishra MBA/10037/20	GP Birla Scholarship for SP 2022.	BIT Mesra	June 2022

7.4 Distinguished Visitors from Industry/Academia/Research organizations

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. Raj Vardhan, Independent Director of Mcleod Russel India Ltd.	4 th July 2021	** DEP ** TO BE AND THE TENT OF THE TENT O

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
2.	Ms. Sanchita Mukherji, Co-Founder and Partner of Blue Edge	8th February 2022	TIME IS MONEY WAS A VENT AND
3.	Mr. Vivek Goel	27 th June 2021	Section Sect
4.	Mr. Aloke Singh, CEO of Air India Express	Sep 2021	Articleurs Co. Service Co. Se
5.	Mr. Pranay Mital, Chief Operating Officer, Global Midmarket & SME Business at SAP	Oct 2021	Fried Description of the control of
6.	Miss Jayita Sarkar, HR Director at PayPal.	8 th July 2021	Fig. 1. Company of the company of th

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture (Insert Picture here. Further send the JPEG file along with the email.)
7.	Ms. Mridula Sekhar, Chief Marketing Officer at Tata AIA Life Insurance	25 th July 2021	

7.5 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1.	Mr. Sanjay Singh MBA Batch 1987–89	Founder, Strategic Concepts (I) Pvt. Ltd · Freelance
2.	Mr. Ripudaman Magon MBA Batch 1989–1991	Director at Natural Group and ConServe Infotech (P) Ltd. Former Associate Vice President, HCL Infosystems Ltd.(2008-2013)
3.	Mr. Pranay Mittal MBA Batch 1991- 1993	Chief Operating Officer, Global Midmarket & SME Business at SAP Global Vice President, SAP SE (2015–2020)
4.	Mr. Aloke Singh MBA Batch 1985–1987	CEO Air India Express
5.	Mr. Nirmal Dayani MBA Batch 1989- 1991	CO-Founder Expereal India Former senior director Marketing, ESPN Star sports

Department of Mathematics

SECTION 1 DEPARTMENTAL PROFILE

1. About the Department:

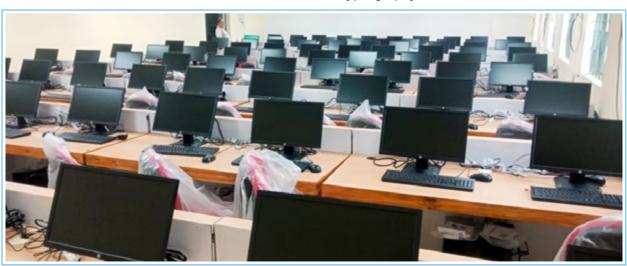
The Department of Mathematics was founded in 1956, under the name Department of Applied Mathematics. It started with only an undergraduate program offering all mathematics courses to engineering students. At Present Department runs Ph.D programme, 2-year M.Sc programme in Mathematics and 5-year Integrated M.Sc programme in Mathematics and Computing. The department started its own programme IMSc in mathematics and computing in the year 2011. Our IMSc Mathematics and Computing program is one of the high prioritized chosen courses among the young students in the country due to the increasing interest in computing on mathematical studies and its demand in different software industries. Our students are placed in ADROSONIC IT Consultancy Services Pvt. Ltd, Byhus, Byjus-BDA, Cognizant, Crisil, Delloitte Consulting India Pvt. Ltd., Fastenal, Fastenal India Sourcing, IT & Procurement Pvt. Ltd., Infosys, Lowes India Ltd., Novarties, PWC and many more. The course content of our IMSc programme helped our students to pursue their summer internships at various Research Institutions, universities and industries. Students pursued their internships European Organization for Nuclear Research (CERN), Julia program in MIT and many more.

The Department is equipped with a modern computer laboratory with latest scientific software such as Matlab, Mathematica, Systat, LINGO, TORA, SPSS, Code Blocks etc.

There are currently, 17 faculties in the department comprising of three professors, two Associate Professors,

eleven Assistant Professors and two Adjunct Professors. Many faculties have been working as Editorial Board members of different journals of international repute and engaged in writing many research and text books. . Faculties of the department visit different Institutes of International repute to deliver lectures on their research. The research areas that are focused in the department are Algorithm Analysis, Statistical Computing, Computational Solid Mechanics, Differential Equations, Difference Equations. Fractional Calculus, Theoretical Seismology, Optimization, Complex Analysis, Functional Analysis, Operator Mathematical Modelling and Simulation, Multiple Criteria Decision Making, Multiple Objective Decision Making, Numerical Analysis, Nonlocal Singular Boundary Value Problems,

Mathematical Modelling of Environmental, Biological and Ecological Systems and Cryptography.



SECTION 2 SEMINAR / CONFERENCE

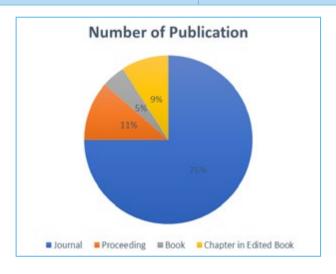
2.1 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Dinesh Kumar	On geometric complexity of Julia sets-III		IMPAN, Polish Academy of Sciences, Banach Center	Bedlewo, Poland	26.09.2021- 01.10.2021
2.	PRABAL DATTA	NUMERICAL LINEAR ALGEBRA IN APPLICATIONS TO DATA SCIENCES	No Funding Was Required	Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram Chennai 600127	Online	07.03.2022 to 12.03.2022
3.	Seshadev Padhi	87 th Annual Conference of the Indian Mathematical Society	No Funding Was Required	Indian Mathematical Society	Online	December 05- 08, 2021

SECTION 3 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	33
2.	Proceeding	05
3.	Book	2
4.	Chapter in Edited Book	4



SECTION 4

AWARD / PATENT / COLLABORATIONS

4.1 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.	Seshadev Padhi	Adrosonic Golden Apple Award	Adrosonic		2022

4.2 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.	Tewari, Peeyush; Sharma, Abhay Kumar; Chhimwal, Nitin; Mishra, Prashant; Bhatt, Kaushal; Sharma, Sudhir and Tripathi, Sandesh	IMLS-Weed Recognition/ Classification: Intelligent Weed Recognition /Classification using Machine Learning System	2020103332	2021	

SECTION 5

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

5.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Student Research Seminar	Sudarsan Das IPH/10009/21	Dinesh Kumar	April 2022-till date

5.2. List of Faculties

Sr. No.	Name	Designation
1.	Prof. S. K. Jain	Professor and Head
2.	Prof. S. Chakraborty	Professor
3.	Prof. S. Padhi	Professor
4.	Dr. Peeeyush Tewari	Associate Professor
5.	Dr. A. P. Ghorai	Associate Professor
6.	Dr. Prabal Datta	Assistant Professor
7.	Dr. A. Tandon	Assistant Professor
8.	Dr. P. Kaur	Assistant Professor

9.	Dr. R. Singh	Assistant Professor
10.	Dr. S. D. Jabeen	Assistant Professor
11.	Dr. Vandana	Assistant Professor
12.	Dr. Dinesh Kumar	Assistant Professor
13.	Dr. Gautam Singh	Assistant Professor
14.	Dr. Subha Sarkar	Assistant Professor
15.	Dr. Upasana Samanta	Assistant Professor

5.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Prof. Akrur Behera	Professor	NIT, Rourkela
2.	Prof. D. K. Gupta	Professor	IIT, Kharagpur

5.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Prof. S. K. Jain	Professor	Chairman, BOS
2.	Prof. S. Chakraborty	Professor	Internal Member
3.	Prof. S. Padhi	Professor	Internal Member
4.	Dr. A. P. Ghorai	Associate Professor	Internal Member
5.	Dr. A. tandon	Assistant Professor	Internal Member
6.	Dr. P. Kaur	Assistant Professor	Internal Member
7.	Dr. A. Mustaffi	Associate Professor	Internal Member
8.	Dr. S. B. Singh	Assistant Professor, RIMS, Ranchi	External Member
9.	Prof. G. K. Panda	Professor, NIT, Rourkela	External Member
10.	Nishith Mohan	Alumni	External Member
11.	Kumar Shivam	Alumni	External Member
12.	Nimish Tewari	Alumni	External member
13.	Swapnil Kant	Alumni	External Member
14.	Kishan Kumar	Alumni	External Member

SECTION 6 OTHER INFORMATION

6.1 Any other relevant information

One of faculty from the department, Dr. Peeyush Tewari has been selected as Coordinator of Science and Technology Festival under Azadi ka amrit Mahotsav program, DST Govt of India.

Department of Mechanical Engineering

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department:

Since its inception in 1955, the Department of Mechanical Engineering has a wide reputation for the quality of teaching and research it offers. It has been awarded top grades for both teaching and research activities from independent and government bodies. The excellent laboratory facilities, modern computer clusters, systematically designed curriculum, and dedicated faculty members make this Department a dynamic place to study.





Programmes Offered

Under Graduate Programme (4 years):

» B. Tech. in Mechanical Engineering

Post Graduate Programmes: (2 Years)

- » M.Tech. Heat Power Engineering
- » M.Tech. Design of Mechanical Equipments
- » M.Tech. Computer Aided Analysis and Design
- » M.Tech. Energy Technology

PhD. Programme:

Laboratory Facilities:

- » Drawing Office
- » Mechanics of Solids Lab
- » Fluid Mechanics and Hydraulic Machines Lab
- » Renewable Energy Lab
- » Central CAD Lab
- » Theory of Machines Lab
- » Autonomous Systems Lab
- » Computational Lab (For Research)
- » Heat Transfer and RAC Lab
- » I.C Engines Lab

About the Department:

Vision:

The Mechanical Engineering Department of Birla Institute of Technology, Mesra, Ranchi strives to be globally recognised for quality engineering education and research leading to well qualified engineers, academicians and researchers who are innovative, entrepreneurial and successful in achieving excellence in their field of study.

Mission:

- 1. To impart quality education to the students and enhancing their knowledge and skills to be globally competitive Mechanical Engineers.
- 2. To maintain state of the art research facilities to provide its students and faculty to create, interpret, apply and disseminate knowledge with an understanding of the limitations.
- 3. To develop linkages and interaction with industry, R & D organization and educational institution for excellence in consultancy practices, research and teaching.
- 4. To provide conducive environment for learning, creativity and problem-solving skill.

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	Duration of the Project
1.	Investigation of Stones as Sensible Thermal Heat Storage Materials for Concentrated Solar Power Applications	Dr. Omprakash (PI) & Dr. L.S. Brar (Co-PI) & Dr. D.P Mishra (Co-PI)	SERB-DST	03.03.2021	25 Lacs	3 Years
2.	Role of Hybrid Nanofillers on The Physio-Mechanical and Tribological Behaviour of Polymer Nanocomposites for Load Bearing Advanced Mechanical Component Applications	Dr. K.Kumar (PI)	SERB-DST	03.03.2021	45.84 Lacs	3 Years
3.	Development, testing, calibration and validation of Sterling Engine for Decentralise power generation using Bio gas produced from stubble waste and Agricultural waste	Dr. Rajeev Kumar (PI)	DST	29.09.2021	79.17 Lacs	3 Year
4.	Design and fabrication of bellow type Biogas plant	Dr. Richa Pandey (PI)	Unnat Bharat Abhiyan (Ministry of Education)	01.06.2022	1 Lac	1 Year

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1.	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	Conveners: Dr. D.P. Mishra, HOD and Professor Dr. R.P. Sharma, Professor Conference Chair: Dr. D.P. Mishra, HOD and Professor Organizing Secretary Dr. Om Prakash, Asst. Prof. Dr. Lacbir Singh Brar, Asst. Prof. Dr. Saurav Chakraborty, Asst. Prof.	BIT Mesra	22 nd – 23 rd March 2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members: (between 1st July 2021 to 30th June 2022)

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd. mm.year)
1.	Dr. Anil C Mahato	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
2.	Dr. Paritosh Mahata	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
3.	Dr. Arkadeb Mukhopadhyay	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22–23 March 2022
4.	Dr. Sujit Kumar Mishra	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
5.	Dr. Mukesh Sharma	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd. mm.year)
6.	Dr. Lacbir Singh Brar	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
7.	Dr. Sushil Kumar Dhiman	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
8.	Dr. Om Prakash	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022
9.	Dr. Saurav Chakrabarty	International Conference on Thermo-Fluids and System Design 2022 (ICTFSD 2022)	BIT Mesra	BIT Mesra	BIT Mesra	22 nd – 23 rd March 2022

SECTION 4

RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	67
2.	Proceeding	35
3.	Book	13
4.	Chapter in Edited Book	22

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. Sarurav Chakraborty	ASME Best Reviewer award for the Journal of Thermal Science and Engineering Progress	American Society of Mechanical Engineers	International	2021
2.	Dr. Kaushik Kumar	Best Research Paper Award	ICARAE	International	2021
3.	Dr. Kaushik Kumar	Best Paper Presentation Award	ICARAE	International	2021

5.2 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.	Dr. K. Kumar	A Portable Footbridge Apparatus to Support Transverse Loading	Australian Innovation Patent 2021103989 Dated 09.07.2021	2021	

5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area /Short Description	Year / Duration
1.	Ms. Sabita Engineering Works	UG and PG Projects and Internships	2021
2.	Delhi Technological University	SERB-DST Project	2021

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

6.1. List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms., as applicable)	Designation	TEQIP Sponsored (Yes / No)
1.	Prof. R. P. Sharma	Professor	No
2.	Prof. Dipti Prasad Mishra	Professor	No
3.	Dr. Kaushik Kumar	Associate Professor	No
4.	Dr. Apurba Kumar Roy	Associate Professor	No
5.	Dr. Rajeev Kumar	Associate Professor	No
6.	Mr. Praveen James Sanga	Assistant Professor	No
7.	Dr. Lacbir Singh Brar	Assistant Professor	No
8.	Dr. Sushil Kumar Dhiman	Assistant Professor	No
9.	Dr. Sujeet Kumar Mishra	Assistant Professor	No
10.	Dr. Praveen Mishra	Assistant Professor	No
11.	Dr. Abhijit Nag	Assistant Professor	No
12.	Dr. Om Prakash Pandey	Assistant Professor	No
13.	Dr. Om Prakash	Assistant Professor	No
14.	Dr. ParitoshMahata	Assistant Professor	No
15.	Dr. Nirmal Kumar	Assistant Professor	No
16.	Dr. Anil Chandra Mahato	Assistant Professor	No
17.	Dr. Arun Kumar Kadian	Assistant Professor	No
18.	Dr. Arkadeb Mukhopadhyay	Assistant Professor	No

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms., as applicable)	Designation	TEQIP Sponsored (Yes / No)
19.	Dr. Mukesh Sharma	Assistant Professor	No
20.	Dr. Saurav Chakraborty	Assistant Professor	No
21.	Dr. Ritik Maiti	Assistant Professor	No
22.	Dr. Arun Kumar Sharma	Assistant Professor	No
23.	Dr. Faisal Rahmani	Assistant Professor	No
24.	Dr. Richa Pandey	Assistant Professor	No

6.2 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr. D.P.Mishra	Professor	Chairman
2.	Dr. R.P.Sharma	Professor	Internal Member
3.	Dr. Kaushik Kumar	Assoc. Professor	Internal Member
4.	Dr. A.K.Roy	Assoc. Professor	Internal Member
5.	Dr. Rajeev Kumar	Assoc. Professor	Internal Member
6.	Dr. Praveen Mishra	Asst. Professor	Internal Member
7.	Dr. Arun Kumar Kadian	Asst. Professor	Internal Member
8.	Dr. Gautam Sarkhel Professor		Internal Member (Allied Department)
9.	Dr. Joyjeet Ghose	oyjeet Ghose Assoc. Professor	
10.	Dr. S.K. Dash	Professor, IIT Kharagpur	External Member
11.	Dr. Swarup Kumar Mahapatra	Professor, IIT Bhubaneswar	External Member
12.	Dr. Dayal Ramakrishna Parhi	Professor, NIT Rourkela	External Member
13.	Dr. M.K. Sinha	Professor, NIT Jamshedpur	External Member
14.	Mr. Deepak Mishra	Head – Project Procurement Tata Steel Limited, Jamshedpur	External Member
15.	Mr. Amit Kumar Pandey	G.M., USHA MARTIN TATI SILAWAI, RANCHI	External Member
16.	Dr. Bharat Bhushan	Chief Digital Officer, GM- Project IT, Tata Metaliks Ltd.	External Member
17.	Mr. Prabhas Kumar	DGM (HOD, Energy Conservation), RDCIS, SAIL, Ranchi	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students: 20

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Trian Pal Arora	Sales Presentation Event – First	BAJA SAE India	
	Roshan Agarwal	2nd position in Raftaar Award (making		10/04/2022 at NATRAX facility in
	Anuj Pandey	2nd lightest		Pithampur, Madhya
	Sanskar Zode	ATV in the country)		Pradesh
	Prakhar Shah	3rd position in Acceleration event		

7.3 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Mr. Derek Michael Shah, 1986, BIT Mesra	Executive Vice President & Head – Power Plant Business
2.	Dr. Ramesh Singh	Professor, Mechanical Engineering Department, IIT, Bombay
3.	Mr. T. Venkatesh	An Indian administrative Service Officer, Members of Board of Directors of NTPC Ltd.
4.	Mr. Pawan Bhageria	Gold Medalist, Currently part of GM International Operations as Director, Ex Head of IT for Tata Motors Ltd.
5.	Mr. Amitava Bakshi	Chief Procurement Officer, Tata Steel Ltd.
6.	Mr. Avinash P. Gandhi	Former Special Advisor to Asia Automotive Acquisition Corp.

7.4 Infrastructure Development

Facilities created for research and teaching

- » Scratch Tester (Ducom TR 101): Experiments to be carried out by UG and PG students for scratch hardness and first critical load of failure of coated specimens respectively. UG and PG students may also undertake their final year project. Research scholars pursuing their research work related to scratch hardness and critical loads of failure of electroless coated specimens.
- » Magnetic heater cum stirrer (seed money scheme): For electroless coating deposition by UG, PG and Ph.D. students.
- » Weighing Balance (seed money scheme): For precise measurement of weights of chemicals for electroless bath formulation.
- » I.C.E Lab: A Biodiesel production unit has been installed in the laboratory for experimental use for U.G., P.G. and for carrying out research for research scholars. The unit is capable for biodiesel production with different blends of oil.
- » Automobile Lab: An electric two-wheeler is purchased for the study of the electric vehicle for U.G. students.

- » One Tribology Trainer Basic Module (TM260) with Experimental module for stick-slip and friction-induced vibration (TM260.04) and pressure distribution in journal bearing (TM260.06) is installed in Vibration and Dynamics Lab for performing UG and PG level experiments. Recently, one B.Tech project group have performed their experiments with this experimental set up in the academic session 2021 22 under the project title "Theoretical and Experimental Investigation of Friction-induced Self-excited Vibration".
- » Universal Vibration Apparatus: 10 numbers of experiments for UG and PG students related to vibration.

7.5 Entrepreneurship Activity

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Utkarsh Mishra - CEO Hritik Shubham - COO Nagendra Kumar - CTO Ashok Priyadarshi - CIO	Private Investor	FLOXUS	Floxus is basically an online learning platform dedicated for technical stuffs. In association with Microsoft, we provide international industrial certificates (MTA) (not like simple e-learning certificates). Furthermore, we provide project-based learning to increase your practical knowledge also. Projects are also of giant companies, so, you can build your CV also. At last, we provide Internship opportunities also. MTA (Microsoft Technology Associate) certificates are internationally recognised i.e., certificates recognised by every industry in the world.



Department of Pharmaceutical Sciences & Technology

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department:

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

» Vision:

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

» Mission

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

» Highlights of the Department:

- 1. B. Pharm. and M. Pharm. courses are recognized by both Pharmacy Council of India and AICTE.
- 2. Ranked 26th in Overall by National Institutional Ranking Framework (NIRF) 2021, Ministry of HRD, GOI in category of Pharmacy.
- 3. B. Pharm. Programme is accredited by NBA for Five Years (2017–2022).
- 4. Recognized amongst the 10 centres in the country for AICTE- Quality Improvement Program (QIP) in Pharmacy, since 2007.
- 5. One of the Nodal Centre for the award of prestigious AICTE- National Doctoral Fellowship.
- 6. Average Teaching Experience of the faculty is 19 Years

» Facilities:

Total Built up area : 36000 Sq. ft.

Total number of Labs : 17

Central Instrumentation Laboratory: 02

Library/Reading room: 01

Animal House : 01

Medicinal Plant Garden: 01

» Academics:

The department offers following UG, PG courses:

- 1. B. Pharm (Seats: 60; Duration: 4-year; 8-semester)
- 2. M. Pharm (Seats: 15/ Specialization; Duration: 2-year, 4-semester)
- a) Pharmaceutical Chemistry
- b) Pharmaceutics
- c) Pharmacology
- d) Pharmaceutical Quality Assurance
- e) Pharmacognosy
- 3. M. Pharm. Programme under AICTE Q.I.P (offered to academia sponsored candidates only).
- 4. Ph. D. (in Pharmaceutical Sciences and allied research applications).

» Research:

> An array of research strategies is being encouraged in the field of:

- a) Novel Drug Delivery Systems
- b) Natural Products Chemistry
- c) Development of Synthetic Medicinal Agents
- d) Biochemical Pharmacology & Toxicology
- e) Computer Aided Drug Design
- Total Research Grants of 262.684 Lacs during 2019–2022, from National and International funding agencies like DST-SERB, DBT, UGC, AICTE, DRDO, CSIR, ICAR, ICMR, BMBF (Germany), UGC-UKIERI etc.
- » Contemporary state of the art laboratories for Instrumental Analysis, Molecular Biology and Molecular Modelling supporting high end research.
- » Major recruiters: Dr. Reddy's Lab, Strides Pharma Ltd., Biocon Biologics, Sun Pharma, Torrent Pharma Ltd., Mylan Labs, MacLeods Pharma Ltd., Leiutis Pharma Ltd., Associated Capsules Group Ltd., Cipla etc.







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 (Lacs)	Duration of the Project
1.	QbD based approaches and mechanistic studies towards development of verbascoside loaded topical formulations to treat diabetic wound	Dr. Biswatrish Sarkar (PI)	DST-SERB-EMEQ	10.03.2022	40.537	3 Years
2.	Development of Novel Antileukemics Through the Structural and Functional Studies of Engineered and Chimeric Plant -Type Asparaginases	Dr. K. K. Pradhan (PI)	DST-SERB-CRG	10.02.2022	33.66	3 Years
3.	Development of non-destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid	Dr. Biswatrish Sarkar (Co-PI) Dr. Anupam Roy, Food Tech (PI)	Department of Biotechnology, GOI	04.03.2021	57.90	3 Years
4.	Aptamer-based Rapid Diagnostic Kit for Detection of Corona Virus Infection (CoVapt)	Dr. Abhimanyu Dev (PI) Dr. Venkatesan J. (Co-PI)	DST-SERB	17.07.2020	15.74762	1 Year
5.	Development of multi-functional nano-HAP bone substitute for effective bone regeneration in critical defects	Dr. Abhimanyu Dev (Co-PI)	DST- Nanomission	10.7.2019	51.15	3 Years
6.	To modulate the aqueous solubility of poorly water soluble pharmaceuticals by crystal engineering technique and understand that mechanistic approach of solubilisation	Dr.Animesh Ghosh (PI)	AICTE-RPS	4.1.2019	24.12	3 Years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (Lacs)	Duration of the Project
7.	Biopolymer based nano-layer fortification of self-assembled micronutrients over pre- conditioned rice – Retention of fortified nutrients and scale-up studies	Dr.Animesh Ghosh (Co-PI) & Dr. Anupam Roy, Chemical Engineering (PI)	ICMR	26.11.2019	39.57	3 Years

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (Lacs)	Duration of the Project
1.	Phyto-chemical characterization of polyphenols in Ocimum tenuiflorum and investigation on its protective potentials against oxidative stress and DNA damage	Dr. Biswatrish Sarkar (PI)	DST-SERB	15.03.2018	34.232	3 Years
2.	Packaging design and some clinical study of hair dyes	Dr. K. Jayaram Kumar (PI)	TRIFED, GOI.	4.1.2019	6.3	7 months
3.	Prophylactic Transdermal Patch Against Neurotoxin Poisoning Biological Warfare Situations	Dr.Animesh Ghosh	BIRAC- SRISTI (PMU) (Society for Research)	11.03.2017	15	2 years
4.	Design & development of inhibitors of DENV methyl transferase for the treatment of dengue viral infection	Dr. Venkatesan J. (PI)	AICTE-RPS	04.08.2017	17.38	3 Years
5.	Design and Synthesis of Substrate Based Peptide Inhibitors of DENV Protease for the treatment of dengue viral infection	Dr. B. N. Sinha (PI) Dr. Biswatrish Sarkar (Co PI) Dr. Venkatesan J. (Co PI)	DST-SERB	07.08.2017	45.6	3 Years
6.	Evaluation of Anticancer Potential of few Coumarin Derivatives with Plasmonic up Conversion Luminescent Nanomaterials; A Non-Invasive Theranostic Approach for Breast Cancer	Dr. Shakti Prasad Pattanayak (PI)	AICTE-RPS	04.08.2017	23.47	3 Years
7.	Phenyloxazoline Synthetase Inhibitors as Antitubercular Agents (POSIAA)	Dr. Venkatesan J. (PI) Dr. Abhimanyu Dev (Co-PI)	DST-SERB	29.11.2016	53.73	3 years

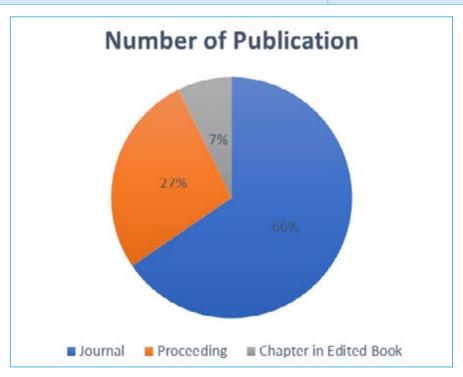
SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	One-week Hands-on Training Workshop on "Preparation and Characterization of Oral Solid Dosage Form"	Dr.Animesh Ghosh	DST-STUTI Programme of Indian Institute of Technology (ISM) Dhanbad, funded by DST-Govt. of India	10.06.22- 16.06.22
2.	One Day Workshop on Gender Sensitization Towards Work Place Etiquettes	Convenor: Dr.P. Mitra Mazumder Co-Convenor: Dr.S. Ganguly Org. Secretary: Dr.ItuSnigdh&Dr. T. Bal.	Internal Complaints Committee (ICC) in association with Dept. of Pharm. Sci. & Tech	08.03.22
3.	International Conference on Emerging Trends in Drug Discovery and Development ICETD3-2022	Convenor: Dr. Venkatesan J Co-Convenor: Dr. Animesh Gosh Coordinator: Dr. B. Sarkar	Dept. of Pharm. Sci. & Tech	20.01.22- 21.01.22

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	36
2.	Proceeding	15
3.	Chapter in Edited Book	4



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
1.	Abhimanyu Dev, Sayanti Halder & Venkatesan Jayaprakash	An aptamer- based diagnosis of COVID 19 infection and method thereof	202231027666	2022	Patent is about development of aptamer based Diagnostic material for diagnosis of Covid 19. The developed biotin tagged aptamer has shown selective binding during in vitro SARS CoV2 viral culture.

5.2 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1.	National Institute of Pharmaceutical Education Research, Kolkata	Academic and Research	2021–2026

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

6.1. List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms.as applicable)	Designation	TEQIP Sponsored (Yes / No)
1.	Dr. (Ms.) Swastika Ganguly	Professor& Head	No
2.	Dr. Barij Nayan Sinha	Professor	No
3.	Dr. Priya Ranjan Prasad Verma	Professor	No
4.	Dr. Sivesh Jha	Professor	No
5.	Dr. (Mrs.) PapiyaMitraMazumder	Professor	No
6.	Dr. K. Jayaram Kumar	Professor	No
7.	Dr.SaurabhManaswitaVerma	Professor	No
8.	Dr.Venkatesan J.	Associate Professor	No
9.	Dr. Ashok Kumar Pattnaik	Associate Professor	No
10.	Dr.Manik Ghosh	Assistant Professor	No
11.	Dr. Abhimanyu Dev	Assistant Professor	No
12.	Dr. Biswatrish Sarkar	Assistant Professor	No
13.	Dr.TrishnaBal	Assistant Professor	No
14.	Dr. Anima Pandey	Assistant Professor	No
15.	Dr.Neelima Sharma	Assistant Professor	No

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms.as applicable)	Designation	TEQIP Sponsored (Yes / No)
16.	Dr. Sandeep Kumar Singh	Assistant Professor	No
17.	Dr.AnimeshGhosh	Assistant Professor	No
18.	Dr.Kishanta Kumar Pradhan	Assistant Professor	No
19.	Dr.Mahendra Pratap Chopra	Assistant Professor	No
20.	Dr.BapiGorain	Assistant Professor	No
21.	Dr. Monika Dwivedi	Assistant Professor	No

6.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Mr. Raweesh Chaudhari		Medical Excellence. Biogen. USA.

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Swastika Ganguly (HOD)	Ex-Officio	Chairman
2.	Dr. P. R. P. Verma	Professor	Internal Member
3.	Dr. B. N. Sinha	Professor	Internal Member
4.	Dr. S. Jha	Professor	Internal Member
5.	Dr. (Mrs.) Papiya Mitra Mazumder	Professor	Internal Member
6.	Dr. K. Jayaram Kumar	Professor	Internal Member
7.	Dr. (Mrs.) S. M. Verma	Professor	Internal Member
8.	Dr.Animesh Ghosh	Associate Professor	Internal Member
9.	Dr.M. P. Chopra	Assistant Professor	Internal Member
10.	Dr.ManikGhosh	Assistant Professor	Internal Member
11.	Dr.Rakesh Kumar Sinha	Professor& Head (Dept. of Bioengg. & Biotech)	External Member
12.	Dr.Sumit Mishra	Associate Professor (Dept. of Chemistry)	External Member
13.	Dr.S. Murugesan	Associate Professor, Dept. of Pharmacy, BITS Pilani	External Member
14.	Dr.Tarun Jha	Professor, Dept. Pharm. Technology, Jadavpur University	External Member
15.	Dr. Ajay Kumar Handa	Executive Vice President Dr. Reddy's Lab. Ltd., Hyderabda	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students: 15

7.2 Achievements of Students

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Prashanta Kumar Deb (Research Scholar)	Received "Travel Grant" to present paper during XXX International Conference on Polyphenols"	Univesrsity of Turku, Finland	13–15 July, 2021 (Online)
2.	Snigdha Chakraborty (B. Pharm, 2021 batch)	Won 2nd prize in case study presentation conducted by IPGA-SF	Indian Pharmacy Graduate's Association	25 th September, 2021 (Online)

7.3 Distinguished Visitors from Industry/Academia/Research organizations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Prof. Kunal Roy Jadavpur University, India	Delivered online lecture during ICETD3 (January 20–21, 2022)	
2.	Dr. Sushama Talegaonkar Delhi Pharmaceutical Sciences Research University, India	Delivered online lecture during ICETD3 (January 20–21, 2022)	600
3.	Prof. Vinod D Rangari Guru Ghasidas University India	Delivered online lecture during ICETD3 (January 20–21, 2022)	

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
4.	Prof. Vandana B Patravale Institute of Chemical Technology India	Delivered online lecture during ICETD3 (January 20–21, 2022)	
5.	Prof. Velmurugan Devadasan. University of Madras, India	Delivered online lecture during ICETD3 (January 20–21, 2022)	
6.	Dr. Jaydeep Sinha University of North Carolina at Chapel Hill, USA	Delivered online lecture during ICETD3 (January 20–21, 2022)	
7.	Dr. K. Choowongkomon Kasetsart University, Bangkok	Delivered online lecture during ICETD3 (January 20–21, 2022)	
8.	Prof. Satyajit D Sarker Liverpool John Moores University, UK	Delivered online lecture during ICETD3 (January 20–21, 2022)	

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
9.	Prof. Sanjib Bhakta Birkbeck University of London, UK	Delivered online lecture during ICETD3 (January 20–21, 2022)	

7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Dr. C. Veeresham Professor, Kakatiya University, Warrangal (1984 Batch, M. Pharm)	Ex-Principal & Head, Dept. of Pharmacy, Kaktiya University, Warrangal
2.	Ms. Ritu Sahay Drug Controller Jharkhand State (1984 batch B. Pharm)	She is serving as Director, Drugs Control Administration, Ministry of Health, Govt. of Jharkhand since February 2015
3.	Mr. Raweesh Chaudhary, Director – Strategy, Medical Excellence. Biogen. USA(1992 batch B. Pharm)	He has 23 years of wide-ranging experience and stellar track record in Medical Affairs, Product management and commercial roles spread across countries like India, Canada and USA
4.	Dr. Dharmendra Singhal 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.

Department of Physics

SECTION 1 DEPARTMENTAL PROFILE

1. About the Department:





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.

Vision

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

Mission

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

SECTION 2 RESEARCH PROJECTS

2.1 Sponsored Projects (Research and Consultancy)

a) Ongoing Projects:

Sr. No.	Name of Faculty Member (PI/Co-PI/CI)	Project Title	Data of Sanction	Funding Agency	Amount (Rs)	Duration
1.	Prof. S. K. Sinha (Co-PI)	 Biocompatibility and mechanical studies of nanostructured HAP, metal doped nanostructured HAP on alumina by RF Magnetron Sputtering 	23.02.22	SERB	₹27,71,000/-	03
2.	Dr. Rishi Sharma (PI)	 Development of super-lubricated Nano- crystalline Diamond film on bearing materials for aerospace applications 	18.12.19	AR&DB, DRDO	₹26,78,000/-	03
		• Development of self-lubricating coating for bearing applications		UGC-DAE CSR	₹1,35,000/-	03
3.	Dr. Rishi Sharma (Co-PI)	Synthesis of Reduced Graphene Oxide- metal nanoparticles for early detection of Hepatocellular Carcinoma through Surface Enhanced Raman Spectroscopy		UGC-DAE CSR	₹1,35,000/-	03
4.	Dr. Madhu Priya (Co-PI)	 Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro-Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand 	11.05.22	CRG, DST-SERB	₹38,10,240/-	03
5.	Dr. Sourabh Lahiri (PI)	• Study of Stochastic Heat Engines using Active Particles	25.10.18	DST-SERB	₹21,49,000/-	03
6.	Dr. Anupam Roy (PI)	 Exploring Resistive Random Access Memory Devices based on Two- Dimensional Materials for Non-Volatile Memory Applications. 	23.08.22	SERB	₹30,00,000/-	03

b) Projects Completed (Completed between 1st July 2021 to 30th June 2022):

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Nonlinear Rheology of Dense Colloidal Suspensions	Madhu Priya (PI)	DST-SERB	14-09-2018	₹ 22.45 Lacs	13-09-2021

SECTION 3

SEMINAR / CONFERENCE

3.1 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

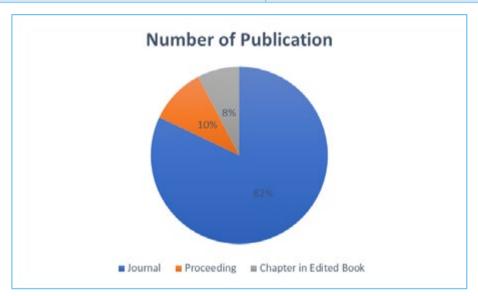
a) Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd. mm.year)
1.	Dr. Nishi Srivastava	National Symposium on Advances in Remote Sensing: Trends, Challenges and Opportunities for Development (Ns-Ars21),		Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	Department of Remote Sensing, Birla Institute of Technology, Mesra, Ranchi	9 th – 11 th Dec 2021

2.	Dr. Nishi Srivastava	International Symposium on Tropical Meteorology (INTROMET-2021	Cochin Chapter of the Indian Meteorological Society (IMS)	Cochin University of Science and Technology, Cochin	23 rd - 26 th Nov 2021
3.	Dr. Madhu Priya	DAE-SSPS 2021: 65th DAE Solid State Physics Symposium 2021	Bhabha Atomic Research Centre, Mumbai	DAE Convention Centre, Anushaktinagar, Mumbai	15 th – 19 th Dec 2021

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	32
2.	Proceeding	04
3.	Chapter in Edited Book	03



SECTION 5

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

5.1. List of Faculties

Sl. No.	Name	Designation
1.	Prof. S. K. Sinha	Professor and Head
2.	Prof. S. Keshri	Professor
3.	Prof. S. K. Rout	Professor
4.	Dr. R. K. Paul	Associate Professor
5.	Dr. Rajeev Kumar	Asstt. Professor
6.	Dr. Ela Rout	Asstt. Professor
7.	Dr. Nishi Srivastava	Asstt. Professor
8.	Dr. K. Bose	Asstt. Professor
9.	Dr. Rishi Sharma	Asstt. Professor

10.	Dr. S. K. Mukherjee	Asstt. Professor
11.	Dr. D. K. Singh	Asstt. Professor
12.	Dr. Madhu Priya	Asstt. Professor
13.	Dr. Sourabh Lahiri	Asstt. Professor
14.	Dr. Anupam Roy	Asstt. Professor
15	Dr. Suman Ghosh	Asstt. Professor
16.	Dr. P. K. Tiwari	Asstt. Professor
17.	Dr. Rajyavardhan Ray	Asstt. Professor
18.	Dr. R. K. Dewanjee	Asstt. Professor

5.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. Amitava Mitra	Adjunct Faculty	Department of Physics, IIT Jodhpur

5.2 Board of Studies

Internal	Internal Member			
Sl. No.	Name			
1.	HOD/In-Charge	Chairman (Ex-Officio)		
2.	Dr. (Mrs.) S. Keshri, Professor s_keshri@bitmesra.ac.in	Member		
3.	Dr. S. K. Rout, Professor skrout@bitmesra.ac.in	Member		
4.	Dr. S. K. Sinha, Professor sksinha@bitmesra.ac.in	Member		
5.	Dr. R. K. Paul, Associate Professor ratan_bit1@rediffmail.com	Member		
6.	Dr. Rajeev Kumar, Assistant Professor rajeev1312@gmail.com	Member		
7.	Dr. Sourabh Lahiri, Assistant Professor sourabhlahiri@gmail.com	Member		
8.	Dr. Tirthadip Ghose, Professor, Dept. of EEE tghose@bitmesra.ac.in	Member		
9.	Dr. Sandeep Singh Solanki, Professor, Dept. of ECE sssolanki@bitmesra.ac.in	Member		

Extern	External Member				
Sl. No.	Name of Member, Designation, Institute/Company, Full Address				
1.	Dr. Dilip Kr. Ghosh Senior Professor, School of Physical Science Indian Association of Cultivation of Science, Kolkata	External Member			
	Tel: +91 33 2473 4971 (Ext 282) Cell: 9432877068 Email: tpdkg@iacs.res.in dilipghoshjal@gmail.com				

2.	Prof. Dr. Dalip Singh Mehta Department of Physics Indian Institute of Technology Delhi, Hauz-Khas, New Delhi-110016. mehtads@physics.iitd.ac.in dalipsingh.mehta@gmail.com Tel. Fax: 91-11-2659-1455 (Off.) 2659-1865 (Res.), Mobile: 9818769924.	External Member
3.	Prof. Yashowanta Narayan Mohapatra Professor of Physics and Materials Science, S.L 105 I.I.T Kanpur, U.P, India- 20801 Phone: +91-512-259-7033, 6675 E-mail: ynm@iitk.ac.in	External Member
4.	Prof. Alok Shukla Department of Physics Indian Institute of Technology, Bombay, Powai, Mumbai 400076, India E-mail: shukla@phy.iitb.ac.in Tel: +91-22-2576-7576 (Office) Fax: +91-22-2572-3480 (Office)	External Member
5.	Prof. Sreerup Raichoudhury Department of Theoretical Physics, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Mumbai-400005, India. Phone: 22 2278 3432 Cell: +91 98 1997 1834 Email: sreerup@theory.tifr.res.in	External Member

Sr. No.	Name of the Member	Designation	Role
1.	Prof. S. K.Sinha	H.O.D, Deptt. of Physics, BIT Mesra	Chairman
2.	Prof.A. K. Nirala	Prof.and Head, Dept. of Physics, ISM , Dhanbad	External Member
3.	Prof. S. K. Ghorai	Professor , Deptt. of ECE, BIT Mesra	Member
4.	Prof. S. K Sinha	Deptt. of Physics, BIT Mesra	Member
5.	Prof. S. Keshri	Deptt. of Physics, BIT Mesra	Member
6.	Prof. S. K. Rout	Deptt. of Physics, BIT Mesra	Member

SECTION 6 OTHER INFORMATION

6.1 Publication by students,

Journals: 02 Proceedings: 01

6.2 Achievements of Students:

Sr. No	Name of Student	Achievement/ Position/ Award etc	Organised by	Date and Venue
1.	Manisha Kumari		International E-Conference on PHYSICS OF MATERIALS & NANOTECHNOLOGY (ICPN-2021), MANGALORE UNIVERSITY	October 28–30, 2021, DEPARTMENT OF STUDIES IN PHYSICS MANGALAGANGOTHRI-574199 MANGALORE, INDIA
2.	Manish Kumar Singh	Best Poster Presentation Award	Centre for Nanotechnology, IIT Guwahati	4th to 6th April, 2022, IIT Guwahati

Department of Production and Industrial Engineering

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department

Department of Production Engineering has been renamed as Production and Industrial Engineering. Since its inception in 1964, the department has been trying to impart quality education to undergraduates and train them to meet the demands of the manufacturing industry. The main objective of production engineering is integration of technology with management in planning and controlling the design, development and operation of manufacturing system. The department offers two courses: B.Tech. in Production Engineering and M.Tech. in Automated Manufacturing Systems. Rapid advances in manufacturing technology, e.g., computer controlled processes and management information systems, ERP and new manufacturing concepts like lean manufacturing, agile manufacturing, sustainable manufacturing 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. Central workshop and laboratories have been established to impart the state of art knowledge to the students in the field of production engineering. number of sophisticated equipment are available in these laboratories/ shops, which not only being utilized for the training of undergraduate and postgraduate students but also utilized for the Research work of the department and giving support to the other research work going in the institute.





SECTION 2 RESEARCH PROJECTS

2.1 Sponsored Projects

a) Ongoing Projects:

	r. o.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	l.	Manufacturing and characterization of aluminium alloy hybrid nanocomposite produced by stir-ultrasonic-squeeze casting method for automotive application	PI: Dr. Joyjeet Ghose Co-PI: Dr. Bappa Acherjee	DST SERB	Jan 2022	40L	3 years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
2.	Synthesis, Characterization and Application of Nano lubricants for Minimum Quantity Lubrication	Pl: Dr. Gayatri Paul	BIT Mesra	Jan 2022	5 L	2 years

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1.	WEBINAR SERIES-	Dr. Vinay Sharma (Convenor)	PIE Dept.	15.9.21-17.12.21
	PIE CONNOISSEUR	Dr. Bappa Acerjee	IIC	
		Dr. Binar Kumar		
		Dr. S.K. Tiwari		

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

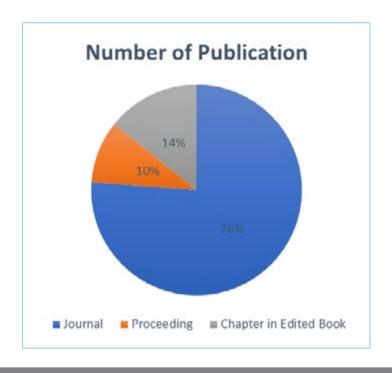
Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Dr. L. N. Pattanaik	State Level Workshop on Implementation of National Education Policy 2020	Govt. of Jharkhand	Department of Higher and Technical Education, Government of Jharkhand	BNR Hotel, Ranchi	09/12/2021
2.	Dr. A.K. Singh	International Conference of Industrial Engineering and Management (ICIEM) 2021		Department of Mechanical Engineering and Department of Management Studies in Association with Indian Institute of Industrial Engineering (IIIE).	Malaviya National Institute of Technology Jaipur-India (302017) Online Mode	17th-19th December, 2021
3.	Dr. A.K. Singh	International Conference on Advancements in Interdisciplinary Research (AIR- 2022)		Department of Applied Mechanics	Motilal Nehru National Institute of Technology Allahabad, Prayagraj (U.P.), India. Online Mode	6th- 7th May 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
4.	Dr. Gayatri Paul	26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference		IIT Madras	IIT Madras (conducted in online mode)	December 17-20, 2021
5.	Dr. Gayatri Paul	Online 2nd International Conference on Materials Science & Engineering (ICMSE-2022)		NIT Jalandhar	NIT Jalandhar (Online mode)	June 11–12, 2022
6.	Dr. Gayatri Paul	Incorporating Universal Human Values in Education	AICTE	AICTE	Online	November 22–26, 2021
7.	Dr. Sanjiv Kumar Tiwari	International Conference on Thermo Fluids and System Design (ICTFSD 2022)		Department of Mechanical Engineering, Birla Institute of Technology Mesra, Ranchi-835215, Jharkhand	Online	22–23 March 2022
8.	Dr. Sanjiv Kumar Tiwari	2nd International Conference on Materials Science & Engineering (ICMSE-2022)		Department of Mechanical Engineering, Dr BR Ambedkar National Institute of Technology Jalandhar, India	Online	11–12 June, 2022
9.	Dr. Suman Samanta	Incorporating Universal Human Values in Education	AICTE	AICTE	Online	November 22–26, 2021

RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	16
2.	Proceeding	02
3.	Chapter in Edited Book	03



ACTIVITIES/ FACULTY MEMBERS / BOS /DAC

5.1. List of Faculties

Sr. No.	Name	Designation
1.	Dr. Vinay Sharma	Professor
2.	Dr. Joyjeet Ghose	Associate Professor, Head
3.	Dr. Sanjay Kumar Jha	Associate Professor
4.	Dr. Ritesh Kumar Singh	Associate Professor
5.	Dr. L.N. Pattanaik	Associate Professor
6.	Dr. Binay Kumar	Assistant Professor
7.	Dr. Somak Datta	Assistant Professor
8.	Dr. Bappa Acharjee	Assistant Professor
9.	Dr. Abhishek Kumar Singh	Assistant Professor
10.	Dr. Randhir Kumar	Assistant Professor
11.	Dr. Sanjiv Kumar Tiwari	Assistant Professor
12.	Dr. Gayatri Paul	Assistant Professor
13.	Dr. Suman Samanta	Assistant Professor

5.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Prof. (Dr.) Kripa Shanker	Senior Adjunct Professor	Ex Professor, IIT Kanpur

5.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	Dr. Joyjeet Ghose	Head- Production Engineering (Ex-officio)	Chairman
2.	Dr. R. K. Singh	Associate Professor, Department of Production Engineering	Internal Member
3.	Dr. L. N. Pattanaik	Associate Professor, Department of Production Engineering	Internal Member
4.	Dr. Somak Datta	Assistant Professor, Department of Production Engineering	Internal Member
5.	Dr. Utpal Baul	Dean (A&IR) and Professor, Department of Management	Internal Member
6.	Dr. D.P. Mishra	Professor & Head, Mechanical Engineering	Internal Member
7.	Mr. Kapildeo Prasad	BIT Patna off Campus	Internal Member
8.	Dr. Vinay Sharma	BIT Deoghar off Campus	Internal Member
9.	One UG Student Representative		Internal Member
10.	One PG Student Representative		Internal Member
11.	Dr. Govind Sharan Dangayach Professor & Head	Department of Mechanical Engineering, Malaviya National Institute of Technology, J l Nehru Marg, Jaipur – 302017 Mobile: +91–9950344500 Email: dangayach@gmail.com	External Member
12.	Dr. Saroj Kumar Patel Professor	Department of Mechanical Engineering, National Institute of Technology Rourkela, Odisha, India – 769008 Mobile: +91 9437484951 E-mail: skpatel@nitrkl.ac.in	External Member
13.	Mr. Vishwajit Kumar Senior Manager	Iron Making Division, MECON Ltd, Doranda, Ranchi-834002 Mobile: 09431186722 Email: vishwajit@mecon.co.in	External Member
14.	Mr. P.Pathak DGM	Rolling Technology R&D SAIL, Ranchi Mobile: +91–8986880223 Email: ppathak@sail-rdcis.com	External Member

SECTION 6 OTHER INFORMATION

6.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Mr Soumil Dutta Roll No (BE/10318/16)	Qualified GRE in 2022.		
2.	Mr Madhukant Prince Roll No (BE/10622/17)	Qualified GATE 2022 with AIR 224 from Production engineering		
3.	Mr Utkarsh Roll No (BTech/10667/18)	Qualified GATE 2022 with AIR 211 from Mechanical Engineering		
4.	Mr. Amit Kumar Roll No- BE/10704/2014	Secured AIR 179 (PI) in GATE 2021		

6.2 Distinguished SPEAKERs from Industry/Academia/Research organizations

Sr. No	Name of Speaker with Affiliation	Date of Online Seminar	Picture (If any)
1.	Shri Sanjay Chawla Director General, Aeronautical Quality Assurance, Department of Defence Production, Ministry of Defence, Govt. of India, New Delhi, India	15.09.21	
2.	Shri Roopesh Kaushik Dy. Director, Aeronautical Quality Assurance, Dehradun, Uttarakhand, India	15.09.21	
3.	Prof. Ashok K. Pundir Professor (Operations Management), National Institute of Industrial Engineering (NITIE) Mumbai, India	15.09.21	
4.	Shri Sameer Jindal Director- Engineering, MG Motor India	21.10.21	
5.	Shri Saurabh Vatsa Director- Business Development Cloud Business, Oracle Gurgaon, Haryana, India	29.10.21	
6.	Shri Alok Kumar Lead Mechanical Engineer-rotating Project (DAS & ZI RKU) Division Abu Dhabi, UAE	18.11.21	
7.	Dr. Nagahanumaiah Director Central Manufacturing Technology Institute Bengaluru, India	3.12.21	
8.	Dr. Yuvraj Gajpal Assistant Professor, Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	17.12.21	

Department of Remote Sensing



National Symposium on Advances in Remote Sensing-Trends, Challenges and Opportunities for Development (**NS-ARS21**), December 9–11, 2021



Ground Penetrating RADAR (GPR)



MICROTOP-II Sun-Photometer



SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department:

This Department has been imparting specialised education of geo-spatial technology in various application areas using advanced tools like remote sensing, 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 to this emerging area. As a department, state-of-the-art equipment facilities have been developed with latest hardware and software technologies. As also, the department well-accomplished faculty has members with high academic/research credentials. Timely updating of needed infrastructure and research capacities through UGC-SAP, DST-FIST 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. The Department has developed state-of-the-art capabilities and facilities in research and our experience is shared with students and endusers. 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/Central Universities 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 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.

SECTION 2 RESEARCH PROJECTS

2.1 Sponsored Projects

a) Ongoing Projects:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Machine Learning and Deep Learning based Automatic Lunar Crater Detecting using Terrain Mapping Camera-2 DEM Images	Co-Pl: Dr. Mili Ghosh Nee Lala and Dr. C. Jeganathan Pl: Dr. Sanchita Paul of Dept.of Comp. Sc., BIT Mesra	SSPO, ISRO (Fund yet to be released)	24 th June 2022 (Approval 10 th March 2022)	₹21.98 Lacs	3 Years
2.	Source Apportionment, Hydrodynamic Study and Environmental Fate Assessment of Micro- Plastics in Drinking Water Supplying Reservoirs of Ranchi, Jharkhand	Co-Pl: Dr. Mili Ghosh Nee Lala and Dr. Madhu Priya of Dept. of Physics Pl: Dr. Sukalyan Chakraborty, Dept. CEE	Science & Engineering Research Board (SERB), New Delhi	11 th May 2022	₹38.10 Lacs	3 Years

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
3.	Mapping and morphological characterization of craters in the south polar region of the lunar surface using Chandrayaan-2 Dual Frequency SAR (DFSAR), High resolution OHRC and TMC-2 data	Pl: Dr. V.S. Rathore Co-Pl: Dr. A.P. Krishna	ISRO, DoS, Gol	10 th March 2022	₹19.98 Lacs	3 Years
4.	Modelling Forest Phenological Parameters from Time Series Remote Sensing Data	PI: Dr. C. Jeganathan Co-PIs: Dr. A.P. Krishna, Dr. Mili Ghosh Nee Lala, Mr. Nitish K. Sinha	Space Application Center, ISRO, Ahmedabad	February 2021	₹30.23 Lacs	3 Years
5.	Prediction of ground- level particulate matter concentrations from Multi-Satellite AOD over the Indian Subcontinent	Co-Pl: Dr. Swagata Payra (Pl: Dr. Sunita Verma, BHU Varanasi)	Indian Space Research Organization (ISRO	November 2020	₹22.08 Lacs	2.5 Years
6.	Remote Sensing based Hydrologic budget of the Subarnarekha River Basin	PI: Dr. A.P. Krishna Co-PIs: Dr. C. Jeganathan, Dr. V.S. Rathore	DST- Science & Engineering Research Board (SERB), New Delhi	January 2020	₹27.39 Lacs	3 Years
7.	Quantifying the Spatio-Temporal rhythm of vegetation growth, health and its vulnerability due to climate change in different forest ecosystem in North- Eastern India using time- series satellite data	Dr. C. Jeganathan	ISRO- RESPOND, ISRO, HQ, Bangalore	October 2019	₹29.45 Lacs	3 Years
8.	National Wetland Inventory and Assessment (Phase II).	Pl: Dr. C. Jeganathan Co-PlS: Dr. A.P. Krishna, Dr. V.S. Rathore, Mr. Nitish K. Sinha	Space Application Center (SAC), ISRO, Ahmedabad	July 2019	₹20.50 Lacs	2 Years
9.	Lightning impact on ozone precursor over Indian region and its implications on tropospheric ozone	Pl: Dr. Swagata Payra Co-Pl: Dr. Sunita Verma, BHU Varanasi	Ministry of Earth Sciences (MoES), Govt of India	October 2017	₹34.64 Lacs	Till 31st March 2023
10.	AERONET Observations at Jaipur	Dr. Swagata Payra (Collaborator)	MoU with GSFC, NASA, USA	October 2009	₹10 Lacs	October 2029

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event (dd.mm.year)
1.	AICTE ATAL FDP during 16-20 August 2021	Dr V.S. Rathore	AICTE	16 th – 20 th August 2021
2.	First Innovation Contest NISHAN – (Neoteric, Intelligent, Scientific, Hopeful, Adaptive and Novel)	Dr. C. Jeganathan	Institute supported	23 rd – 24 th October 2021
3.	National Symposium on Advances in Remote Sensing-Trends, Challenges and Opportunities for Development (NS- ARS21)	Dr. A.P. Krishna, Dr. C. Jeganathan, Dr. V.S. Rathore, Dr. Mili Ghosh nee Lala	Institute supported	9 th – 11 th December 2021
4.	Workshop on Hydrological Modelling of Watershed with Geospatial techniques	Dr. A.P. Krishna, Dr. C. Jeganathan, Dr. V.S. Rathore	Under SSR of DST- SERB Project	10 th – 11 th March 2022
5.	National Innovation Foundation (NIF) Mentor Workshop	Dr. C. Jeganathan	Institute supported	22 nd March 2022
6.	Faculty Development programme on "Design Thinking"	Dr. C. Jeganathan	Innovation & Research Foundation Pvt. Ltd., Ahmedabad.	April 2022

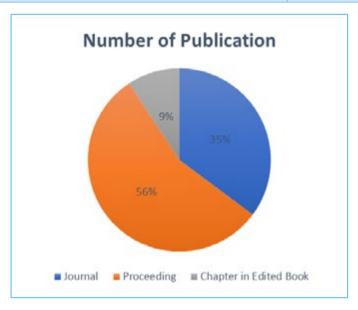
3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Dr Swagata Payra	FDP on Recent Trends in Geospatial Data Modelling Applications and Policies"	AICTE ATAL	DRS, BIT Mesra	BIT Mesra, Ranchi	16 th - 20 th August 2021
2.	Dr.A.P.Krishna, Dr.C.Jeganathan, Dr.N.Patel, Dr. V. S. Rathore, Dr.Swagata Payra Dr.Richa Sharma, Dr.Mili Ghosh Nee Lala (as Chair/ Co-Chair)	National Symposium on Advances in Remote Sensing: Trends, Challenges and Opportunities for Development (NS-ARS21)	Institute	DRS, BIT Mesra	BIT Mesra	9 th – 11 th December 2021
3.	Dr. Richa Sharma	21 days Refresher Course: on "Geospatial Technologies Level-2".	NA	NRDMS_DST IIT Madras	(online)	3 rd – 23 rd January 2022

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	19
2.	Proceeding	30
3.	Chapter in Edited Book	05



SECTION 5

AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties:

Sr. No.		Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. A.P. Krishna	Invited lecture on Remote Sensing in Climate Change Studies	AICTE sponsored ATAL Faculty Development Program (FDP) online mode Org. Department of Remote Sensing, Birla Institute of Technology, Mesra	National	16 th – 20 th August 2021
2.	Dr. A.P. Krishna	Invited lecture on Hyperspectral Remote Sensing for Geoscientific Applications	AICTE sponsored ATAL Faculty Development Program (FDP) online mode Org. Department of ECE, CMR Institute of Technology, Bengaluru	National	6 th - 10 th September 2021
3.	Dr. A.P. Krishna	Invited expert talk on Climate Change Studies using Space Technology	1st National Seminar-cum- Workshop on Application of Space Technology & Artificial Intelligence for Climate Resilient Agriculture and Disaster Management', online mode Org. Leads Connect India Pvt. Ltd. & BIT Mesra	National	29 th – 30 th October 2021



Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
4.	Dr. A.P. Krishna, Dr. C. Jeganathan, Dr. V. S. Rathore	Guest Editors, Environmental Monitoring and Assessment Special Issue: Terrestrial and Ocean Dynamics – India Perspective II	Springer Nature	International	Since December 2021
5.	Dr. A.P. Krishna	Invited to Chair the Technical Session on Advanced Remote Sensing (TU4.H3 & TU5.H3)	IEEE International InGARSS-2021	International	6 th – 10 th December 2021
6.	Dr. A.P. Krishna	Invited as a Manuscript reviewer	i Forests, MDPI ii Sensors, MDPI iii Applied Sciences, MDPI iv Geocarto International, Springer v Environmental Monitoring and Assessment, Springer vi Cogent Engineering, Taylor & Francis	International	2021–22
7.	Dr. A.P. Krishna	Associate Editor, Frontiers in Water (Section: Water Resource Management)	Frontiers Media SA, Switzerland/UK/ USA	International	Since February 2022
8	Dr Swagata Payra	Invited as a Manuscript reviewer	i Advances in Atmospheric Science, Springer; ii Natural Hazards, Springer; iii Journal of Earth System Science, Springer; iv Theoretical and Applied Climatology, Springer; v Environmental Monitoring and Assessment	International	2021-22
9.	Dr. C. Jeganathan	Editors of the Special Issue titled "Identifying the climate and human impacts on vegetation dynamics and their sustainability using Earth observation data"	Journal of Science of Remote Sensing published by Elsevier BV	International	2021-22

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
10.	Dr. C. Jeganathan	Editors of the Special Issue titled "Geostatistics and Spatial Data Mining for Ecological Climatology"	Journal of Remote Sensing published by MDPI	International	2021-22
11.	Dr. C. Jeganathan	Invited as External Examiner for evaluating PhD thesis	Sikkim Manipal University	National	2021-22
12.	Dr. C. Jeganathan	Invited as External Examiner for evaluating PhD thesis	Symbiosis International University, Pune	National	2021-22
13.	Dr. Nilanchal Patel	Designated as Editor of Special Issue	Big Earth Data Journal Taylor & Francis	International	Since 2020
14.	Dr. Nilanchal Patel	Designated as Guest Editor	MDPI LAND Journal	International	Since 2022
15.	Dr. Nilanchal Patel	Designated as Member of Editorial board	Journal of Environmental Geology, Pulsus Journals	International	Since 2018
16.	Dr. Nilanchal Patel	Designated as Associate Editor	Journal of Forestry Research, Springer	International	Since 2010
17.	Dr. Nilanchal Patel	Designated as Associate Editor	Arabian Journal of Geosciences, Springer, SCIE, Scopus	International	Since 2016
18.	Dr. Nilanchal Patel	Editor	Journal of Mountain Science, Springer, SCIE, Scopus	International	Since 2019
19.	Dr. Nilanchal Patel	Editor	International Journal of Sustainable Development and World Ecology, Taylor and Francis, Scopus	International	Since 2018
20.	Dr. Nilanchal Patel	Editor	Journal of Ecology and Sustainable Development, Sweden	International	Since 2018
21.	Dr. Swagata Payra	Elected as Treasurer	South Asian Meteorological Association (SAMA)	International	2022-24

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
22.	Dr. Swagata Payra	Elected as Secretary	Indian Meteorological Society, Jaipur Chapter	National	2022-24
23	Dr. Swagata Payra	Designated as Associate Editor	International Journal of Earth and Atmospheric Sciences	International	Since 2016
23.	Dr. Swagata Payra	Invited lecture on Fog Prediction: Challenges in Numerical Modelling	Poornima University, Jaipur	National	19 th February 2022
24.	Dr. Swagata Payra	Session Chair	National Conference on Emerging Trends in Water Quantity and Quality Management – IV at Poornima University, Jaipur	National	22 nd – 23 rd March 2022
25.	Dr. Richa Sharma	Invited Talk on "Ecological Restoration for Biodiversity conservation in the Human Landscape"	Govt. PG College Jhalawar, Rajasthan	State	26 th March 2022
26.	Dr. V. S. Rathore	Invited as a Manuscript reviewer	 i Frontiers in Water ii Journal of Indian Society of Remote Sensing iii Wetlands, Ecology & Management 	International	2021-22
27.	Dr. Mili Ghosh nee Lala	Invited as a Manuscript reviewer	i Arabian Journal of Geosciencesii Journal of Indian Society of Remote Sensing	International	2021–22
28.	Dr. Richa Sharma	Invited as a Manuscript reviewer	 i Journal of Indian Society of Remote Sensing ii Environmental Monitoring and Assessment ii SN Applied Sciences 	International	2021–22
29.	Dr. Richa Sharma	UGC nominated Observer	State Eligibility Test (SET), Karnataka State	National	25 th July 2021

5.2 MoUs /Collaborations

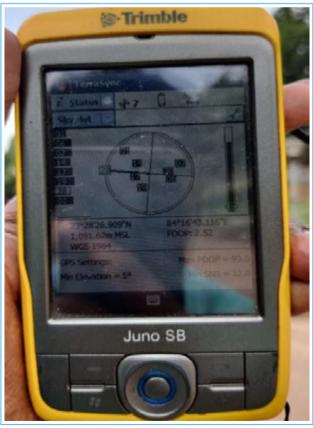
Sr. No.	Name of Organisation / University	Purpose / Area /Short Description	Year / Duration
1.	Leads Connect India Pvt. Ltd.	1st National Seminar-cum- Workshop on Application of Space Technology & Artificial Intelligence for Climate Resilient Agriculture and Disaster Management	29 th - 30 th October 2021
2	Department of Earth Science and Remote Sensing, JIS University, W. Bengal Kolkata 700 109.	Joint research for Masters Dissertation	1 year (Aug 2021- 2022)

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / BOS /DAS

6.1 Departmental Students' Activities

Department of Remote Sensing has conducted the student's field trip to Netarhat, known as Queen of Chotanagpur under the mentorship of Dr. Richa Sharma. The Netarhat is located 156 km west of Ranchi. This field trip was organized during March 09–12, 2022. As a part of this field trip, the student visited several locations nearby for the purpose of ground measurements and ground truthing. Several instruments i.e., Juno-SB, Handheld Mobile GPS device (By Trimble), Infrared Thermometer, Clinometer, compass etc were carried to conduct the field study.













Sr. No.	Name of the Activity	Students' Co- Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
1.	Field visit/ educational trip M.Sc. Geoinformatics (2021- 23 batch) students visited Netarhat	Shreyas Chandrashekhar	Dr. Richa Sharma	9 th - 12 th March 2022

Sr. No.	Name of the Activity	Students' Co- Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
2.	Yajnavalkya Bandyopadhyay has done internship at Malaviya National Institute of Technology, Jaipur and Indian Institute of Remote Sensing, ISRO, Dehradun			16 th June – 30 th July 2021
4.	Ms. Damini Sarma Selected for IASc-INSA-NASI Summer Research Fellowship in 2022.			May - July 2022
8.	Mr. Shreyas R. C selected for Internship at Regional Remote Sensing Centre (RRSC) – South			May - July 2022
9.	Ms. Pantula Chandana selected for Internship at Wadia Institute of Himalayan Geology, Dehradun			May - July 2022
12.	Ms. Apoorva Shanthkumar selected for Internship at Regional Remote Sensing Centre (RRSC) – South			May - July 2022

6.2. List of Faculties

Sr. No.	Name	Designation
1.	Dr. A.P. Krishna	Professor
2.	Dr. C. Jeganathan	Professor
3.	Dr. N. Patel	Professor
4.	Dr. V.S. Rathore	Associate Professor
5.	Dr. Mili Ghosh nee Lala	Associate Professor
6.	Dr. Swagata Payra	Associate Professor
7.	Dr. Richa Sharma	Assistant Professor

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HoD, DRS	Ex-Officio	Chairman
2.	Dr A P Krishna	Professor	Internal Member

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
3.	Dr C Jeganathan	Professor	Internal Member
4.	Dr N Patel	Professor	Internal Member
5.	Dr V S Rathore	Associate Professor	Internal Member
6.	Dr Mili Ghosh Nee Lala	Associate Professor	Internal Member
7.	Dr. Swagata Payra	Associate Professor	Internal Member (Invitee)
8.	Dr Richa Sharma	Assistant Professor	Internal Member
11.	Dr Bindhu Lal	Professor	Internal Member
12.	Dr Satyaki Sarkar	Associate Professor	Internal Member
13.	Dr Dheeraj Kumar	Professor (IIT,ISM)	External Member
14.	Dr Y S Rao	Professor (IIT,Bombay)	External Member
15.	Dr Rajneesh Kumar	Head, (Geomatics Division) CMPDI, Ranchi	External Member
16.	Dr Milap Punia	Professor, JNU, N. Delhi	External Member
17.	Dr Mukund D. Behera	Associate Professor (IIT-Kharagpur)	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students, if any

Journals: 08
Proceeding: 21

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	i. Swadhina Koley (PhD scholar) ii. Sumedha S. Singh (PhD scholar) iii. Apoorva Shantakumar (M.Tech student) iv. Swastik Mohanta (M.Tech Student)	1 st GATE in Geomatics Engineering	IIT Kharagpur	March 2022
2.	Avinas Das	Got offer for MSc Geo- Energy with Machine Learning and Data Science in Imperial College of London	Imperial College of London	April 2022

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
3.	Satyam Suman	Got offer for M.Sc in Business Analytics from top Business school, UK	The University of Warwick Coventry CV4 8UW United Kingdom	June 2022
5.	Pranata Hazra	PhD Awarded	BIT Mesra	2 nd July 2021

7.3 Distinguished Visitors from Industry/Academia/Research organizations

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. A.K. Saraf, Professor, Department of Earth Science, IIT Roorkee	Dec,2021 (offline)	
2.	Dr. Harish Karnataka, Head & Scientist/Engineer SG, GIT&DL Department, Indian Institute Of Remote Sensing(IIRS),ISRO	April, 8-9,2022 (Online)	
3.	Dr. R.S. Chatterjee, Head & SG Indian Institute of Remote Sensing (IIRS), Dehradun	Nov,2021 (Online)	

7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Dr. M. V. RAVIBABU	Professor National Institute of Rural Development and Panchayti Raj Hyderabad
2.	Mr. ASHUTOSH KUMAR JHA	Scientist/Engineer- SE Geoinformatics Department IIRS, Dehradun
3.	Mr. ABHISHEK VERMA	RSGIS Head, Reliance India Limited, Ranchi
4	Mr NAVEEN SHUKLA	State Resource Person UP Jal Nigam(Rural) Rana Pratap Marg Lucknow 226001

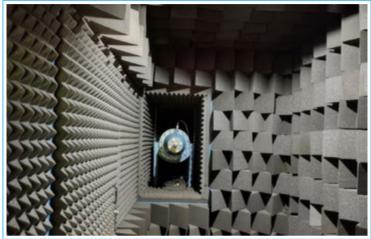
7.5 Infrastructure Development

- » Advanced instrument facilities were added for teaching and research this year
- » These include Sun-photometer and Ground Penetrating Radar (GPR)
- » Sun-photometer is perceived to greatly add to the academic and research works involving to study of aerosols, radiative forcing etc in atmosphere
- » GPR is a very advanced level equipment which shall aid academic and research activities centred around sub-surface information derivation of geo parameters of considerable depth
- » As also, DIP/GIS system hosting facilities were upgraded with addition of high-end configuration desktop systems to match with latest processing software

Department of Space Engineering and Rocketry

SECTION 1 DEPARTMENTAL PROFILE

1.1 About the Department



Anechoic Chamber Instrumented to Investigate Acoustics of Free Jet



PVC-AP Composite Solid Propellant (Thrust = 750 N at 60 bar)



Motorized Traverse

About the Department:

- The Department of Space Engineering and Rocketry was established in 1964 at Main campus. It offers two-year postgraduate degree programs, leading to M. Tech. degree in Space Engineering and Rocketry with two specializations, Aerodynamics and Rocket Propulsion.
- » The departmental facilities consist of laboratories housing equipment for training, research and curriculum development in the related areas. 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 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.

VISION

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

MISSION

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

SECTION 2 RESEARCH PROJECTS

2.1 Sponsored Projects

a) Ongoing Projects:

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Supersonic Flow Studies over spike blunt body with different nose bluntness ratio	Dr. Sudip Das (PI) Dr. Priyank Kumar (CoPI)	AR&DB	17.06.2020	22.3 Lacs	2 Years
2.	Aerodynamic Characterization of Reusable Launch Vehicles at Low Speeds	Priyank Kumar (PI) Sudip Das (CoPI)	RESPOND ISRO	03.12.2019	22.39 Lacs	3 Years
3.	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 Lacs	3 Years
4.	AICTE -IDEA LAB	Dr. Priyank Kumar Coordinator Dr. Sudip Das Co- Coordinator	AICTE and Industry	17.06.2021	106.79 Lacs	2 Years
5.	Use of multi-location swirl injection as a performance enhancer for the hybrid rocket system	Dr. Rajiv Kumar (PI) Dr. Shelly Biswas (Co- PI)	Core Research Grant SERB, DST	21.12.2021	39.78 Lacs	3 Years

SEMINAR / CONFERENCE

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
6.	Catalyst Development for Hydrogen Peroxide Monopropellant Thrusters	Dr. Shelly Biswas (PI) Dr. Rajiv Kumar (Co-PI)	SERB- POWER	08.06.2022	29.86 Lacs	3 Years
7.	Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES)	Dr. Priyank Kumar (PI) Dr. Sudip Das (Co-PI)	AICTE	April 2021	2.00 Lacs	2 Years

b) Projects Completed

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction		Date of completion of the Project
1.	Steady & Unsteady investigation on Slender Body at High Angles of Attack	Dr. Priyank Kumar (PI) Dr. Sudip Das (CoPI)	AR&DB	23.05. 2018	26.86 Lacs	3 years

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	1-day Symposium on "Transformations in Space Technology"	Dr. Priyank Kumar	BIT, MESRA	15 th March 2022
2.	National level exhibition and project competition	Dr. Rajiv Kumar	National Innovation Foundation (NIF)	22 nd – 23 rd March 2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

SECTION 3

Sr. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date (dd.mm.year)
1.	Dr. Rajiv Kumar	National Intellectual Property Awareness Mission	Intellectual Property Office, India	Intellectual Property Office, India	Online	28 th April 2022
2.	Dr. Rajiv Kumar	Waste-2-Wealth one day Webinar	BIT Mesra, Ranchi	Department of Chemical Engineering, BIT Mesra, Ranchi	Online	12 th March 2022

SECTION 4 RESEARCH PUBLICATIONS

Sr. No.	Publication Type	Number
1.	Journal	02
2.	Proceeding	08
3.	Chapters in Edited Book	02



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. Rajiv Kumar	Reviewers under the INSPIRE Awards-MANAK for the year 2021–2022	National Innovation Foundation (NIF)	National	2021-2022
2.	Dr. Rajiv Kumar	Motivational speech on the Design Concept for Innovation in the national level exhibition and project competition organized at BIT Mesra, Ranchi	BIT Mesra & National Innovation Foundation (NIF)	National	22 nd – 23 rd March 2022

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
3.	Dr. Rajiv Kumar	External Question Paper setter for Introduction to Aircraft Engineering and Design of Nitte Meenakshi Institute of Technology	Nitte Meenakshi Institute of Technology, Bangalore	National	2021-2022
4.	Dr. Rajiv Kumar	External Examiner for the MTech 3rd Semester of Mechanical Engineering Department	BIT Mesra, Ranchi	National	2021-2022

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1. List of Faculties

Sr. No.	Name (Please mention Dr. / Prof./ Mr./ Mrs. / Ms. , as applicable)	Designation
1.	Dr. Sudip Das	Professor
2.	Dr. Priyank Kumar	Assistant Professor
3.	Dr. Partha Mondal	Assistant Professor
4.	Dr. Rajiv Kumar	Assistant Professor
5.	Dr. Shelly Biswas	Assistant Professor
6.	Dr. Swarupkumar Y. Jejurkar	Assistant Professor

6.2 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Padmashri Prof. R. M. Vasagam	Chancellor	Dr. MGR Educational and Research Institute, Chennai

6.3 Board of Studies

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
1.	HOD/In-Charge	(Ex-officio)	Chairman
2.	Dr. Sudip Das	Professor	Internal Member
3.	Dr. Priyank Kumar	Asst. Professor	Internal Member
4.	Dr. Rajiv Kumar	Asst. Professor	Internal Member
5.	Dr. D. P. Mishra	Professor	Internal Member
6.	Dr. Gautam Sarkhel	Professor	Internal Member

Sr. No.	Name of the Member	Designation (Kindly mention Ex-Officio, where applicable)	Role (Chairman/ Internal or External Member)
Any t	wo of the following		
8.	Dr. M. K. Laha	Professor, Deptt. of Aerospace Engg., IIT, Kharagpur	External Member
9.	Dr. D. P. Mishra	Director NITTTR, Kolkata	External Member
10.	Dr. Debopam Das	Professor, Deptt. of Aerospace Engg., IIT, Kanpur	External Member
11.	Dr. S. R. Chakravarthy	Professor,Deptt. of Aerospace Engg., IIT Madras, Chennai	External Member
12.	Dr. S. B. Verma	Dy. Head, Experimental Aerodynamics Division, NAL, Bangalore	External Member
13.	Shri P. Pathak	GM, R&D Centre of Steel Authority of India Ltd. Shyamli Colony, Doranda, Ranchi – 834002	External Member

SECTION 7 OTHER INFORMATION

7.1 Publication by students

Journal: 01

Proceeding: 06

7.2 Achievements of Students:

Sr. No.	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Mr. Arpit Dubey (MT/SER/10013/20)	Best Paper award in 13 th International High Energy Materials Conference & Exhibits, HEMCE – 2022	High Energy materials society of India,	26 th – 28 th May 2022 TBRL, Chandigarh, India
2.	Ms. P. Lakshmi (MT/SER/10020/20)	Best Paper award in 13 th International High Energy Materials Conference & Exhibits, HEMCE - 2022	High Energy materials society of India, TBRL, Chandigarh	26 th – 28 th May 2022 TBRL, Chandigarh, India
3.	Samanyu Raina MT/SER/10024/20	2 nd Prize in weightlifting in 66–74 Kg group	B.I.T. Mesra, Ranchi	25 th March 2022 B.I.T. Mesra
4.	Tathagat Sarangi MT/SER/10018/20	1 st Prize in weightlifting in 120–150 Kg group	B.I.T. Mesra, Ranchi	25 th March 2022 B.I.T. Mesra
5.	Kumari Ambika (MT/SER/10020/21)	1 st Prize in weightlifting in 60 Kg group	B.I.T. Mesra, Ranchi	25 th March 2022 B.I.T. Mesra

7.3 Distinguished Visitors from Industry/Academia/Research Organizations

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. L. V. M. Reddy President ICTA and ISRO Council Member	15/03/2022	
2.	Dr. K. Gopalakrishnan Secretary, ICTA	15/03/2022	
3.	Shri A. K. Saxena Former Chairman, IEI (India)	15/03/2022	

7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Padma Shri M. C. Dathan Batch : 1984–1986	Scientific Advisor to Chief Minister of Kerala Former Director, Vikram Sarabhai Space Centre (2014) Former Director, Satish Dhawan Space Centre (2008)
2.	Dr. Ramakant Singh Batch : 1987–1989	Dy. Director General Civil Aviation Department, Bangalore Region
3.	Dr. D. Narayan Batch : 1989-1991	Scientist 'G' Group Director Aeronautical Development Agency (ADA)

Sr. No	Name, Batch and Affiliation	Short Description
4.	Shri Rajeev Sharma Batch : 1989–1991	Chief Technical Officer Grid Dynamics New Jersey, USA Former Dy. Project Director 'AGNI', DRDL
5.	Lt. Col. Maryada Sinha M.E. Aerodynamics Batch : 2005–2007	Lieutenant Colonel Arm/Corps: Corps of EME Indian Army

7.5 Infrastructure Development

- i) Data Acquisition System, Workstation, Seed Generator, Hypersonic Tunnel, and Acoustic facility are added in the Aerodynamics Lab of the Department.
- ii) Nozzle performance Analysis Set-up, H2O2 preparation of Rocket Grade and its Performance analysis set up and Liquid Fuelled Detonation Engine Testing Setup are added in the Propulsion Laboratory.

8. Any other relevant information

- » Dr. Priyank Kumar delivered a Webinar on Vehicle Aerodynamics, Wind Tunnel Testing and its importance on May 27, 2022.
- » Dr. Shelly Biswas has given Invited lecture in Six-Days Online Faculty Development Programme on "An Insight into Futuristic Aerospace Propulsion" from 15th to 20th October, 2021, Department of Aerospace Engineering, College of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Chennai.
- » Dr. Shelly Biswas has given Invited lecture in Workshop entitled "Advanced Skills in Research and protection of IPR", 7 to 11 June 2021, Amity Institute of Applied Sciences, Amity University.
- Dr. Shelly Biswas is delivered an Invited lecture in a Workshop entitled "Advanced Skills in Research and protection of IPR", 7 to 11 June 2021, Amity Institute of Applied Sciences, Amity University.
- Dr. Shelly Biswas is delivered in Six-Days Online Faculty Development Programme On "An Insight into Futuristic Aerospace Propulsion" from 15th to 20th October, 2021, Department of Aerospace Engineering, College of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Chennai.

9. Special Covid Initiatives, if any:

All Covid related protocols issued by the Institute and Govt. of Jharkhand as well were followed and accordingly new initiatives in preparation of online lectures and laboratory classes were taken by faculty members including videography and technical content sharing with the students.

BIT Off Campus Deoghar

SECTION 1 CAMPUS PROFILE

1.1 About the Off Campus:



BIT Mesra, Off-Campus Deoghar was established in 2007 with the financial and infrastructural supports from the Govt. of Jharkhand and has entered into the 14th year of its successful operation. Over the years, the institute has established itself as an important, fully residential, AICTE approved educational hub in Santhan Parganas, Jharkhand. The campus is well equipped with modern instruments

and software facilities for the undergraduate engineering courses in CSE, ECE, EEE and Mechanical Engineering with a total intake capacity of 300. From the year 2020, the lateral entry to the engineering branches has also been initiated as per the AICTE norms. Also from the year 2020, BBA and BCA courses have been started with 40 seats in each of them.

Programmes Offered	Intake
B.Tech. in Computer Science & Engineering	90
B.Tech. in Electronics & Communication Engineering	60
B.Tech. in Electrical & Electronics Engineering	60
B.Tech. in Mechanical Engineering	60
B.Tech. in Production Engineering (till 2020)	30
ВВА	40
BCA	40

The campus is spread over an area of 25 acres, has its staff quarters, library (having more than 28,900 volumes), language lab, gymnasium, health centre, ambulance facility, ATM, canteen, playground, two basketball courts, entrepreneur development cell, training and placement cell and is under CC TV surveillance. Most of the faculty members of this campus are engaged in

R&D activities; organize conferences, workshops & seminars and regularly publish quality research articles in journals of international repute. The NSS members of the campus regularly arrange for blood donation camps and literacy drives in nearby villages as a part of the institute's social responsibilities. Over the years, the institute has encouraged its students to take part in various

inter-college affairs including athletic and sports events and literary activities. The institute has witnessed its students well placed not only in Govt. sectors, like defence, ONGC, IOCL, power plants, renewable energy, electricity distribution, etc. the alumni of this campus are efficiently working in multi-national companies, like Sigmpid Analytics, Yellow Class, TCS, CTZ, Wipro, Amdocs, NPCI, Docquity, Adani Group, Vodafone, Eshopbox, BYJU's, Transrail Lighting, Docquity. For Batch 2018-2022, the highest package obtained has been ₹ 15.23 LPA. In the placement session 2021-2022, the institute has witnessed student placements over 80% with an average annual CTC between ₹ 5 lacs to 6 lacs. The institute has also produced many entrepreneurs, who are successfully running their own companies and business ventures. Apart from giving quality education and healthy lifestyles, the institute is also very keen on developing the moral characters of its students and thus regularly arranges for spiritual events in association with Art of Living, Ram Krishna Math and Mission, International Society for Krishna Consciousness, etc.

Vision:

To become a recognized academic institution striving continuously for excellence in education, research and technological service to the Nation.

Mission:

- 1. To equip students with the requisite skills to perform challenging engineering and managerial jobs in industry.
- 2. To augment the teaching-learning skills and research potential of the faculty.
- To provide excellent technological services satisfying industrial requirements and academic needs of the society in general, and especially the deprived society of Santhal Pargana, Jharkhand.

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	Duration of the Project
1.	Reconstruction and digitization of PATAH Art, a perishing culture heritage of eastern India with special reference to Sathan Parganas		INSA	27/10/2020	7,15,440	2 Yrs 4 Months

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Webinar on 'The Entrepreneurial Journey behind building the Incredible Indian Start Up Ecosystem Platform-YNOS' by Mr. Ramesh Kuruva, CEO of YNOS Venture Engine CC Pvt. Ltd.	Dr. Mohammad Junaid Akhtar And Mr. Srihari Gude		30 th January 2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Ashish Chandra Singh	Computational Chemistry, Molecular Modelling, Drug Design, And Biologics	Schrödinger	Schrödinger and BIT Mesra, Ranchi	Dept. Of Chemistry BIT Mesra	21 st – 23 rd Dec 2021
2.	Mr. Vikas Sharma	30 days Innovation Ambassador Training Program (Advanced Level)	NA	AICTE	Online	30 th June – 30 th July 2021
3.	Dr. Soumen Karmakar	30 days Innovation Ambassador Training Program (Basic Level)	NA	AICTE	Online	30 th June – 30 th July 2021
4.	Akash Kr Gupta	Int. Conference on 4th Industrial Revolution and Beyond (IC4IR)	-	Conference Secretariat UGC Bhaban, UGC, Bangladesh	Online	10 th – 11 th Dec 2021
5.	Akash Kr Gupta	Int. Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Mathematical Modelling in Biological Sciences	-	NIT Silchar	Online	26 th – 28 th Oct 2021
6.	Sridhar Chintala	One-week online faculty development programme on Machine learning in speech and audio processing	-	BIT Mesra	Online	21 st - 25 th Feb 2022
7.	Sridhar Chintala	One week training program on "Sophisticated instruments in Electronics Engineering"	IIT (ISM) Dhanbad	IIT (ISM) Dhanbad	Off-line	23 rd – 29 th May 2022
8.	Ashok Kumar Singh	Faculty Development Program.	AICTE	Dept. of Physical Education & Sports N.B.K.R.I. St Institute Of Technology Nellore,	Ashok Kumar Singh	Faculty Development Program.
9.	Ashok Kumar Singh	Research Methodology		Post Graduate Department	Ashok Kumar Singh	Research Methodology



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
10.	Ashok Kumar Singh	Faculty Development Program.	AICTE	Dept. of Physical Education & Sports N.B.K.R.I. St Institute of Technology Nellore,	Ashok Kumar Singh	Faculty Development Program.
11.	Mr. P. K. Ranjan	Five-day FDP in Controller Design and Implementation for Renewable Power Generation Systems	AICTE	Dept. of MECH, NIT Meghalaya	Online	March 2022
12.	Mr. P. K. Ranjan	Electric Transportation Infrastructure for e-Mobility in India	AICTE	Dept. of EE, NIT Warangal	Online	August 2021
13.	Mr. N.K. Rajalwal	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	26 th - 30 th July 2021
14.	Mr. N.K. Rajalwal	Module-I Orientation towards Technical Education and Curriculum Aspects	AICTE	NITTT, Chennai	Online	Sept 2021
15.	Mr. N.K. Rajalwal	Module-II Professional Ethics and Sustainability	AICTE	NITTT, Chennai	Online	Sept 2021
16.	Mr. N.K. Rajalwal	Module-III Communication Skills, Modes and Knowledge Dissemination	AICTE	NITTT, Chennai	Online	Sept 2021
17.	Mr. N.K. Rajalwal	Module-IV Instruction Planning and Delivery	AICTE	NITTT, Chennai		Sept 2021
18.	Dr. P.K. Ojha	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	03 rd - 07 th January 2022
19.	Dr. P.K. Ojha	Electric Vehicle and Smart Grid: A Path Towards Sustainable Energy	AICTE-ISTE	AICTE-ISTE Sponsored Induction/Refresher Programme	Online	17 th – 23 rd Dec 2021
20.	Dr. Ranjan Chattaraj	Faculty Development Programme	-	National Institute of Technical Teachers Training (AICTE)	Online	01st April - 31st May 2022
21.	Dr. Bishnu Kumar	Faculty Development Programme	-	National Institute of Technical Teachers Training (AICTE)	Online	01st April - 31st May 2022
22.	Dr. Amit Kumar	Modelling & Simulation in MATLAB for Mechanical Engineering (FDP)		AICTE	Online	06 th – 10 th Dec 2021

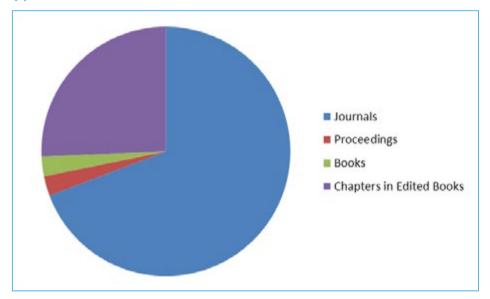
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
23.	Dr. Sandip Ghosh Hazra	5 Day Online workshop " Short Term Training Program on Research Methodology-Basics"		BIT Mesra, Off-campus Lalpur	Online	23 rd – 27 th May 2022

SECTION 4 RESEARCH PUBLICATIONS

4.1 Publications in Journals: (International/National) :27

https://www.bitmesra.ac.in/BIT_News?cid=4&nid=1339

- 4.2 Publications in Proceedings: 1
- 4.3 Books Co-Authored : 1
- 4.3 Chapter(s) in Edited Book: 10



SECTION 5

AWARD / PATENT / COLLABORATIONS

5.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No.	Year	Short Description about the patent
1.	Dr. Nishi Kant Kumar	Electronic Device for Physically Challenged People	357841-001	2022	Designing of RF enabled device for the welfare of physically challenged people

2.	Dr. Nishi Kant Kumar	Blockchain Enabled Portable Device for Public Distribution Centres.	20 2022 101 609.7	2022	This invention is related to blockchain powered RFID, useful to enable households to access public distribution centres
----	----------------------	---	-------------------	------	---

5.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area /Short Description	Year / Duration
1.	Dr. Nidhi Mishra, Asst. Professor Dept. of EEE, BIT Off-Campus Patna	Joint research work with Dr. M. J. Akhtar, Asst. Prof. Dept. of EEE, BIT Deoghar	2022

SECTION 6

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

4.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
1.	Talk on The Entrepreneurial Journey behind building the Incredible Indian Start Up Ecosystem Platform-YNOS By Mr. Ramesh Kuruva, CEO of YNOS Venture Engine CC Pvt. Ltd.	Pushkar Upadhyay (BTECH/60006/18) Sarthak Agarwal (BTECH/60131/19) Archie Pandey (BTECH/60109/19) Milee Kumari (BTECH/60065/20)	Dr. Mohammad Junaid Akhtar and Mr. Srihari Gude	30 th January 2022 Duration: 60 minutes

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Prof. R. C. Jha	Professor & Director
	DEPARTMENT OF PHYSICS	
2.	Dr. Ram Krishna Sarkar	Asst. Prof. & In Charge
3.	Dr. Soumen Karmakar	Asst. Prof.
4.	Dr. Manoj Kumar Dutta	Asst. Prof.
	DEPARTMENT OF CHEMISTRY	
5.	Dr. S. S. Majhi	Asst. Prof. & In Charge
6.	Dr. A. C. Singh	Asst. Prof.

Sr. No.	Name	Designation
	DEPARTMENT OF MATHEMATICS	
7.	Dr. Ranjan Chattaraj	Asst. Prof. & In Charge
8.	Dr. Amit Kumar	Asst. Prof.
9.	Dr. Bishnu Kumar	Asst. Prof.
	DEPARTMENT OF COMPUTER SCIENCE & EN	
10.	Dr. Kamta Nath Mishra	Asst. Prof. & In Charge
11.	Mrs. Anita Kushwaha	Asst. Prof.
12.	Dr. Sounak Paul	Asst. Prof.
13.	Mr. Rayees Ahamad	Asst. Prof.
14.	Mr. Arbind Kr. Choudhary	Asst. Prof.
15.	Mr. Balaram Mandal	Asst. Prof.
16.	Mr. Raja Ram Dutta	Asst. Prof.
17.	Mr. Soumya Ray	Asst. Prof.
18.	Mr. Swapan Kr. Borat	Associate Lecturer
19.	Mr. Saswata Mukherjee	Associate Lecturer
20.	Dr. Nishi Kant Kumar	Associate Lecturer
21.	Mrs. Neena Jha	Associate Lecturer
	DEPARTMENT OF ELECTRONICS & COMMUNICATION	ON ENGINEERING
22.	Dr. Rajesh Kumar Lal	Assoc. Prof. & In Charge
23.	Dr. Mainak Mukhopadhyay	Assoc. Prof.
24.	Dr Chinmay Chakraborty	Asst. Prof.
25.	Mr. Sridhar Chintala	Asst. Prof.
26.	Mr. Akash Gupta	Asst. Prof.
27.	Mr. Vikash Sharma	Asst. Prof.
28.	Mr. Akhilesh Kr. Roy	Asst. Prof.
29.	Ms. Payal Bharadwaj	Asst. Prof.
30.	Mrs. Sutapa Mandal	Asst. Prof.
31.	Mr. Mahendra Kumar Das	Associate Lecturer
	DEPARTMENT OF ELECTRICAL & ELECTRONICS	ENGINEERING
32.	Dr. Deep Shekhar Acharya	Asst. Prof. & In Charge
33.	Dr. Md. Junaid Akhtar	Asst. Prof.
34.	Mr. Piyush Kumar Ojha	Asst. Prof.
35.	Mr. Srihari Gude	Asst. Prof.
36.	Mr. Prabhat Kumar Ranjan	Asst. Prof.
37.	Mr. Nilesh Kumar Rajalwal	Asst. Prof.

Sr. No.	Name	Designation	
38.	Mr. Surendra Kumar Mahto	Assoc. Lecturer	
	DEPARTMENT OF MECHANICAL ENGINEERING		
39.	Prof. Arbind Kumar	Professor & In Charge	
40.	Dr. Ashish Kumar Chakraborty	Assoc. Professor	
41.	Mr. Bibhanshu Sekhar Choudhary	Asst. Prof.	
42.	Dr. Ritesh Kumar Upadhyay	Asst. Prof.	
43.	Mr. Gopisetti Srinivasarao	Asst. Prof.	
44.	Mr. Ashutosh Kumar	Asst. Prof.	
	DEPARTMENT OF PRODUCTION ENGINE	ERING	
45.	Dr. Anil Sharma	Asst. Prof. & In Charge	
46.	Mr. P. K. Manoharan	Asst. Prof.	
	DEPARTMENT OF HUMANITIES & MANAG	EMENT	
47.	Dr. Sandip Ghosh Hazra	Asst. Prof. & In Charge	
48.	Dr. Sandeep Kumar Sengupta	Asst. Prof.	

7.1 Student Entrepreneurship activities/Start-ups:

Sr. No	Name of Student	Source of Funding	Title of Start up	Short Description
1.	Vishal Kumar BTECH/60069/18 and Aditya Raj BTECH/60068/18	Self + (Seed Fund granted by BIT Mesra) By Honorable, Vice Chancellor, BIT Mesra, Provided seed money of ₹ 1.25 Lacs as a pre- incubation financial support	INSTICONNECT PRIVATE LIMITED	Social Media Platform Development

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc.	Organised by	Date and Venue
1.	Ms. Pratyasha Kumar, ECE, BTECH/60096/20 Ms. Satrupa Deb - CSE, BTECH/60115/20 Mr. Ravi Kant Jha - ECE, BTECH/60097/20 Mr. Abhinav Kumar - CSE, BTECH/60137/20	Covid Gameathon'21 Second Prize (₹ 75,000.00 + Certificates + Revenue from the game developed by the team)	AngelHack in association with HEART Hyderabad and St. Fransis College for Women Hyderabad (Through a grant from the U.S. Consulate General Hyderabad) [Supported by Stumagz]	Start Date – 12 th February 2021 Submission Date – 12 th March 2021 Results Announced – 17 th March 2021/ Online Mode

Sr. No	Name of Student	Achievement/Position/ Award etc.	Organised by	Date and Venue
2.	Vishal Kumar BTECH/60069/18 and Aditya Raj BTECH/60068/18	Self + (Seed Fund granted by BIT Mesra) By Honorable, Vice Chancellor, BIT Mesra, Provided seed money of ₹ 1.25 Lacs as a pre-incubation financial support	INSTICONNECT PRIVATE LIMITED	Social Media Platform Development



7.3 Vishal Kumar Aditya Raj

Sr. No.	Name of the Activity	Faculty Coordinator (if any)	Date / Duration
1.	International Day of Yoga	Ashok Kumar Singh	15 th June to 21 st June 2022
2.	Annual Sports Meet	Ashok Kumar Singh	1st April to 2nd April 2022
3.	Fit India Challenge	Ashok Kumar Singh	15 th Nov 2021
4.	FIT India Freedom Run 2.0	Ashok Kumar Singh	15 th Aug to 2 nd Oct 2021

7.4 Distinguished Visitors from Industry/Academia/Research organizations

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. Ramesh Kuruva, CEO of YNOS Venture Engine CC Pvt. Ltd.	30 th January 2022	

7.5 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Mr. Atul Kumar Gupta 2013 batch MBA, IIM Bangalore Manager, Alvarez and Marsal	
2.	Md. Shahbaz 2013 batch Asst. Electro Technical Officer Mediterranean Shipping Company, Switzerland	
3.	Mr. Smit Shukla 2014 batch Electrical Power Engineer Energy Solutions B.V., Delft, Holland	

7.5 Infrastructure Development:

Quarter Name: Senior Faculty Quarter (G+2).

Newly constructed.



8. Any other relevant information

8.1 Activities by IEEE Student Branch BIT Mesra Off Campus Deoghar (STB – 10208) School Code – 60098808

Sr. No.	Date	Activity
1.	9 th July 2021	Trial – By – Trivia, Pre – Margdrshan Event Quiz on Dare2Compete Platform.
2.	17 th and 18 th July 2021	Margdarshan – A two days Start Up Conclave. The Guest Speakers were: 17th July 2021- Mr. Sougata Basu, Founder of CashRich. 17th July 2021 – Mr. Anoop Garg, Co-Founder at Programming Pathshala. 18th July 2021 – Mr. Niraj Sharan, Chairman & CEO of Aura Inc which is a Global Engineering and Manufacturing Company. 18th July 2021 – Mr. Shubhanshu Shekhar Shukla, the Co-Founder of Dristi National NGO

Sr. No.	Date	Activity
3.	17 th and 18 th July 2021	Quiz – M – A post event quiz on Margdarshan.
4.	21st August 2021	Seventh Talk in the Series "Gyan Ganga – Talk with Professor/Professional". Mr. Gopal Prashad Joshi, Superintendent Central GST, Government of India. Topic – General Awareness on GST.
5.	5 th September to 26 th September (only Sundays)	Four Stages Inter College Competition IEEE 360.
6.	25 th September 2021	Eighth Talk in the Gyan Ganga Series - Ms. Nishigandha Kelkar, System Engineer at Collins Aerospace, USA. Topic - Bridging College in Industry
7.	19 th October 2021	AICTE Impact Lecture Series – 1, jointly hosted by IEEE and IIC3.0. 4.00 PM to 7.00 PM Speaker 1 – Mr. Satyam Kumar, Branch Manager SBI, Patna Speaker 2 – Dr. Pravash Dave , IP Moments , Delhi
8.	30 th October 2021	AICTE Impact Lecture Series – 2, jointly hosted by IEEE and IIC3.0. 4.00 PM to 7.00 PM Speaker 1 – Mr. Nitin Nagar, who is the Assistant Territory Manager at Scientech Technologies Pvt. Ltd. Indore. Speaker 2 – Mr. Anurag Gupta. He, along with his colleague Rajesh Tiwari first founded Tevatron technologies. He has also founded two more successful ventures, STEMROBO Technologies and ticker coders.
9.	21st December 2021 to 8th January 2022.	Workshop on Data Structure and Algorithms and Interview Preparation – Placement++. The event was organized with mentors from "Programming Pathshala". Total 82 students registered and attended the event. Tutors: a) Vivekanand Vikek, Teaching at Programming Pathshala, Ex-Amazon, IIT BHU. LinkedIn: https://www.linkedin.com/in/vivekanand-vivek-7a4ab388/ b) Bharat Khanna, Co-founder at Programming Pathshala, IIT BHU, Candidate Master at Codeforces, Former SDE-II at Tower Research Capital. LinkedIn: https://www.linkedin.com/in/bharat-khanna-10717b4817b/
10.	8 th and 9 th January 2022	TechGenix – three thrillings and mind-boggling rounds- Brainwaves, Enthusia and Code-X. Brainwaves was the eliminator quiz round for Enthusia. An excellent buzzer round was accomplished in Enthusia. Code-X was the coding round.
11.	29 th January 2022	9 th Talk in the Gyan Ganga Series – Mr. Arun Pandit – the co-founder of Hyphen SCS, Topic "The Brand called "You ": How to Build a Powerful Personal Brand!"
12.	12 th February 2022	IEEE Student Branch with IIC4.0- My Journey as an Entrepreneur – An invited talk by – Mr. Sohung Swarup Mahapatra – Vice President – Benignant Power
13.	3 rd March – 28 th March 2022	Student Activity – Codeflow along with the IEEE Student Branch of BIT Deoghar is back with Openforce 2022; aiming to connect OpenSource Contributors with Opensource Organisations with a motto to "OpenSource meets its Contributor Force!"

Sr. No.	Date	Activity
14.	11 th March 2022	Talk by Dr. Vandana Bhattacharjee, Director, BIT Lalpur on Writing Research Paper – Inaugural Talk to launch – Praudyog – Research Paper Writing Competition.
15.	15 th March 2022	IEEE Student Branch with IIC4.0 invited Mr. Bedadyuti Chakraborty – Director of RxCella (A Pharma & Biopharma Learning Academy) – to deliver talk on – "How to Become Industry Ready?"
16.	2 nd April 2022	Code Wars 2.0 to showcase coding skill.
17.	10 th April 2022	The IEEE Student's Branch BITD in association with GFG, the most goto platform for budding and aspiring Engineers, brought to its student community a power-packed session on Interview Preparation that covered everything from basics to the advanced topics of Data Structure and Algorithms. The session was presided over by Mr. Siddartha Hazra, a Software Development Engineer and mentor at GFG along with being a 5-star coder at CodeChef.
18.	27 th May 2022	Blockchain Training & Placement Program from IEEE SB BIT Deoghar in collaboration with Polkadot India and Hack2skill.
19.	14 th June 2022	10 th Talk in the Gyan Ganga Series – Cyber Security – Mr. Udit Mathur, Senior Manager Cyber Security Practice, EY Singapore
20.	24 th June 2022	dotfriday – Advanced Games and P2E – Blockchain Training & Placement Program from IEEE SB BIT Deoghar in collaboration with Polkadot India and Hack2skill.

8.2 Activities by IIC 4.0:

Sr. No.	Date and time	Торіс	Speaker	Mode
1.	11-06-2022	Entrepreneurship, Startup in conjunction with National Education Policy 2018	Dr. Rajesh Kumar Lal and Mr. Ashutosh Kumar	Off Line
2.	15-03-2022	How to Become Industry Ready?	Mr. Bedadyuti Chakraborty – Director of RxCella (A Pharma & Biopharma Learning Academy)	Off Line
3.	19-02-2022 Saturday 11.00 AM to 12.00 Noon	Orientation Session on IIC4.0	Mr. Ashutosh Kumar Assistant Professor in Mech Engg. BIT Mesra Off Campus Deoghar	Off Line
4.	13 - 02 - 2022 Sunday 12.00 Noon to 1.00 PM	My Journey as an Entrepreneur	Mr. Nitin Kamal, Co- Founder Data Monk	Online
5.	12-02-2022 Saturday 6.00 PM to 7.00 PM	My Journey as an Entrepreneur	Mr. Sohung Swarup Mahapatra, Vice President, Benignant Power	Online

Sr. No.	Date and time	Торіс	Speaker	Mode
6.	09-02-2022 Wednesday 2.00 PM to 3.00 PM	Workshop on Intellectual Property Rights and Issues Related to Patent Filing	Ms. Tanu Singh, Intellect Vidhya Ltd, Bangalore	Online
7.	08-02-2022 Tuesday 7.00 PM to8.00 PM	What an entrepreneur should know about taxes?	Mr. Sunil Kumar Sultania, CA, Deoghar	Online
8.	30.01.2022 (Sunday) 3.00 PM to 4.00 PM	The Entrepreneurial Journey behind building the Incredible Indian Start-up Ecosystem Platform -YNOS	Ramesh Kuruva is the CEO and a founding team member of YNOS Venture Engine,	Online
9.	To 31.10.2021	Innovation Idea Contest		Online
10.	30.10.2021 (Saturday) 4.00 PM to 7.00 PM	AICTE Impact Lecture Series - 2, jointly hosted by IEEE and IIC3.0.	Speaker 1 - Mr. Nitin Nagar, who is the Assistant Territory Manager at Scientech Technologies Pvt. Ltd. Indore. Speaker 2 - Mr. Anurag Gupta. He, along with his colleague Rajesh Tiwari first founded Tevatron technologies. He has also founded two more successful ventures, STEMROBO Technologies and ticker coders.	Online
11.	19.10.2021 (Tuesday) 4.00 PM to 7.00 PM	AICTE Impact Lecture Series - 1, jointly hosted by IEEE and IIC3.0.	Speaker 1 – Mr. Satyam Kumar, Branch Manager SBI, Patna Speaker 2 – Dr. Pravash Dave , IP Moments , Delhi	Online
12.	17 th and 18 th July 2021	Margdarshan – A two days Start Up Conclave.	The Guest Speakers were: 17th July 2021- Mr. Sougata Basu, Founder of CashRich. 17th July 2021 - Mr. Anoop Garg, Co-Founder at Programming Pathshala. 18th July 2021 - Mr. Niraj Sharan, Chairman & CEO of Aura Inc which is a Global Engineering and Manufacturing Company. 18th July 2021 - Mr. Shubhanshu Shekhar Shukla, the Co-Founder of Dristi National NGO	Online

8.3 Activities by ED Cell:

Sr. No.	Seminars/ Particulars	Торіс	Date	Number of participants	Expert's Brief	Remarks
1.	INNOVATOR IDEA CONTEST 2021	Start Up Idea Presentation and Poster Competition	15-07-2021 to 15-10-2021	52	1. P K Choudhary, VSM, Air Commodore- (Retired). 2. Ms. Rachna Bhardwaj, Segment Head -KhadiIndia	Online
2.	NATIONAL SEMINAR - ATTENDED	Transforming Business Through Uncertain Times in the Era of Covid – 19	08-12-2021	1	Dr. Satyendra Singh, University of Winnipeg, Canada	Online
3.	WEBINAR	Start-up issues in India	24-08-2021	35	Mr. Satish Kumar, CEO and Founder	Online
4.	SEMINAR	Business Leadership Skills	30-06-2021	45	Air Commodore, P K Choudhary, Former Air Commodore, VSM	Online
5.	National Webinar	National Education Policy and its impact on Entrepreneurship – A way forward to future	14-08-2021	01	Served as KEY NOTE SPEAKER (Prof.Ashutosh Kumar, EDC I/C, BIT Deoghar)	Online
6.	Workshop	INTELLECTUAL PROPERTY RIGHTS AND ISSUES RELATED TO PATENT FILING	24-03-2022	5	Ms. Tanu Singh CEO Intellect Vidhya Solutions Bangalore	Online
7.	Webinar	ACHIEVING PROBLEM SOLUTION FIT & PRODUCT MARKET FIT	25-03-2022	52	Mr. Mehul Aggrawal Founder and CEO – Taluin.com Silicon valley, USA	Online
8.	Webinar	Digital Transformation & Service Transition	19-03-2022	01 (Attended by Prof. Ashutosh Kumar)	Mr. Aashish Singh, Program Director in Digital Transformation & Services Transition at HCL America Inc	Online
9.	BIT NISHAN Innovation Contest		5/20 of BIT De		this contest and got a : (umar - EDC I/C - BIT D	

8.4 ARIIA RANKING 2021: BIT Mesra Off Campus Deoghar got a certificate of appreciation from ARIIA Team for achieving rank under "PROMISING BAND" among all the private/self financing institutions and colleges in India.

8.5 Library:

Central Library:

The BIT Deoghar Central Library serves as a central facility of the Institute to support the study, teaching, research and development programmes of the Institute since 2007. The library has a collection of more than 31535 volumes which includes Text Books, Reference Books, various types of competition books and story books etc. The Library subscribes to about 32 current print Journals. The Library also subscribes numbers of e-journals as per AICTE norms. Library operations have been automated with the help of an integrated library software package, LIBSYS. The book database is accessible through OPAC (Online Public Access Catalogue). Circulation Services are executed through Barcode System. Library has a well-equipped Xerox facility & computerized printout (black & white as well as colour). The users can avail this facility on payment of a nominal charge.

Mission:

The mission of our central Library is to provide comprehensive information to fulfil the needs of the BIT community and to support the Institute's mission to contribute to society through the pursuit of education, teaching, learning and research at premier levels of excellence.

Vision:

In this preferred future, Library makes certain that its collections remain forward-looking, diverse in girth and form. Through promotion, the Library makes its users aware of the resources available to them, and through innovation, it makes access to these resources easier. To serve potential users, the Library conserves information across all formats and ensures effectual storage and deliverance scheme. The Library's cooperation with expanding circles of associates yields unified access, broadening knowledge, and enhanced services.

New achievements during last one year (2021-22):

- Added more than 1000 new books.
- 2. Upgrade the Library management software
- 3. Students can search status of the availability of books through on-line public access catalogue (within the campus network)
- 4. Renewal of subscription of on-line journals like IEEE, Science Direct etc.
- 5. Generate License of Ithenticate software to every faculty members of Institute to facilitate to improve research work.
- 6. Renewal of 30 print journals.
- 7. New arrival services started for books
- 8. On-line reminder facility for due books to the members
- 9. Fully air-conditioned Reading Room
- 10. Became a member of NDLI.

8.6 Activities by Clubs/Societies

S. No.	Activity/Event	Date
	Fine Arts Society	
1.	Cupid's Work	24/12/2021
2.	Creo	12/01/2022
3.	Calligraphy quotes	12/01/2022
4.	Aquatint	12/01/2022
5.	Sarang	26/01/2022
	Dance Club	
1.	Taal Se Taal Mila	26/01/2022
	Dramatic Society	
1.	Drama on patriotic theme	26/01/2022
2.	Carpe Diem	
	Photographic Society	
1.	Ignite	15/11/2021
2.	Click Hind	26/12/2021
	Music Club	
1.	Swar Sangam	26/01/2022
	Literary Society and NAPS	
1.	Umang	26/01/2022
2.	International Mother Language Day Celebration	21/02/2022
3.	Fable Mic	28/05/2022
	Automobile Society	
1.	Battle Wheel (Automobile Quiz)	29/01/2022
2.	Final Round	05/02/2022
	Coding Society (CodeSoc)	
1.	Programming 101	May-June 2022
	Google Developer Student Clubs BIT Deoghar (GDSC BITD) [Under CodeSoc, E	BITD]
1.	Orientation Ceremony DSC-BITD	28/08/2021
2.	Webinar on GSoC, GSoD and open-source	17/09/2021
3.	See you in the Cloud!	25/09/2021
4.	HacktoberFest	October 2021
5.	Winter of Code 2.0 – Info Session	30/10/2021
6.	Create-A-thon	Nov-Dec 2021
7.	Android Study Jams Session 1	02/12/2021
8.	Android Study Jams Session 2	06/12/2021
9.	Android Study Jams Session 3	11/12/2021

S. No.	Activity/Event	Date
10.	Android Study Jams Session 4	27/12/2021
11.	Flutter Festival Session 1	05/03/2022
12.	Flutter Festival Session 2	06/03/2022
13.	Android Study Jam	27/12/2021
14.	Hands-on-Workshop on Introduction to Mern Stack Development	30/01/2022
15.	DSA with Mr. Abdul Bari	10/02/2022
16.	Imacathon: All Wrapped In One	11/06/2022
	Geeks for Geeks Student Chapter BIT Deoghar (GFG) [Under CodeSoc, BIT	D]
1.	Webinar on Web Development by Mr. Soutik Nandy, CIT Spacenova	03/08/2021
2.	Nirman - A clash of sites	14/08/2021
3.	AmA with #Placed 01 Mr. Swapnil Sinha	09/10/2021
4.	AmA with #Placed 02 Mr. Ayush Singh	30/10/2021
5.	AmA with #Placed 03 Ms. Ankita Priya	04/12/2021
6.	Recruitment Drive 2k22	06/01/2022
7.	AmA with #Placed 04 Mr. Aavesh Kumar Sinha	29/01/2022
8.	Recruitment Drive 2k21	09/01/2022
9.	Talking Tech With 01	13/03/2022
10.	Battle Brains	29/03/2022
11.	Talking Tech With 02	08/06/2022
12.	Talking Tech With 03	22/06/2022
	Association of Computing Machinary (ACM BITD) [Under CodeSoc, BITD]	
1.	Introduction to BlockChain	21/06/2022
2.	Quiz Night on Introduction to BlockChain	23/06/2022
	IEEE Student Branch BIT Deohghar	
1.	Trial – By – Trivia, Pre – Margdrshan Event Quiz on Dare2Compete Platform.	09/07/2021
2.	Margdarshan - A two days Start Up Conclave.	17–18 July 2021
3.	Seventh Talk in the Series "Gyan Ganga – Talk with Professor/Professional". Mr. Gopal Prashad Joshi, Superintendent Central GST, Government of India. Topic – General Awareness on GST.	21/08/2021
4.	Four Stages Inter College Competition IEEE 360.	5-26 Sept. 2021
5.	Eighth Talk in the Gyan Ganga Series - Ms. Nishigandha Kelkar, System Engineer at Collins Aerospace, USA. Topic - Bridging College in Industry	25/09/2021
6.	AICTE Impact Lecture Series – 1, jointly hosted by IEEE and IIC3.0. 4.00 PM to 7.00 PM Speaker 1 – Mr. Satyam Kumar, Branch Manager SBI, Patna Speaker 2 – Dr. Pravash Dave , IP Moments , Delhi	19/10/2021

S. No.	Activity/Event	Date
7.	AICTE Impact Lecture Series – 2, jointly hosted by IEEE and IIC3.0. 4.00 PM to 7.00 PM	30/10/2021
8.	Placement++ - Workshop on Data Structure and Algorithms and Interview Preparation.	21/12/2021 to 08/01/2022
9.	TechGenix – three thrillings and mind-boggling rounds- Brainwaves, Enthusia and Code-X	8-9 Jan 2022
10.	9th Talk in the Gyan Ganga Series – Mr. Arun Pandit – the co-founder of Hyphen SCS, Topic "The Brand called "You ": How to Build a Powerful Personal Brand!"	29/01/2022
11.	IEEE Student Branch with IIC4.0- My Journey as an Entrepreneur - An invited talk by - Mr. Sohung Swarup Mahapatra - Vice President - Benignant Power	12/02/2022
12.	Openforce 2022 – aiming to connect OpenSource Contributors with Opensource Organisations with a motto to "OpenSource meets its Contributor Force!"	03/03/2022 to 28/03/2022
13.	Talk by Dr. Vandana Bhattacharjee, Director, BIT Lalpur on Writing Resarch Paper – Inaugural Talk to launch – Praudyog – Research Paper Writing Competition.	11/03/2022
14.	IEEE Student Branch with IIC4.0 invited Mr. Bedadyuti Chakraborty – Director of RxCella (A Pharma & Biopharma Learning Academy) – to deliver talk on – " How to Become Industry Ready?"	15/03/2022
15.	Code Wars 2.0 to showcase coding skill.	02/04/2022
16.	A discussion and interaction session by Mr. Siddartha Hazra, a Software Development Engineer and mentor at GFG along with being a 5-star coder at CodeChef.	10/04/2022
17.	Blockchain Training & Placement Program in collaboration with Polkadot India and Hack2skill	27/05/2022
18.	10th Talk in the Gyan Ganga Series – Cyber Security – Mr. Udit Mathur, Senior Manager Cyber Security Practice, EY Singapore	14/06/2022
19.	dotfriday – Advanced Games and P2E – Blockchain Training & Placement Program from IEEE SB BIT Deoghar in collaboration with Polkadot India and Hack2skill.	24/06/2022

9 Special Covid Initiatives, if any:

- 11. Formation of COVID task force for prevention of COVID-19.
- 12. All health advisories issued by the Ministry of Health, from time to time, were followed.

BIT Off Campus Jaipur

SECTION 1 CAMPUS PROFILE

1.1 About the BIT Jaipur Campus:

BIT Jaipur Campus was established in 1995. The focus of the institute is to provide quality education in Engineering, Applied Sciences and Management with technology and professional exposure through innovative programmes & practices. Driven by the mission that the technology and innovative management practices will be the gateway to the future growth, it is today one of the leading institutes of Rajasthan in the field of Engineering, Applied Sciences, Management and Animation and Multimedia.

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 Under-Graduate, Post-Graduate and Doctoral levels to perform challenging engineering and managerial jobs in industry.
- » To provide excellent research and development facilities to take up Ph.D. programmes and research projects.
- » To develop effective teaching, 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 service to satisfy the requirements of the industry and overall academic needs of the society.

Academic Programmes:

Undergraduate:

B. Tech in following branches of Engineering:

- i) Computer Science & Engineering (CSE)
- ii) Electronics and Communication Engineering (ECE)
- iii) Electrical & Electronics Engineering (EEE)

BBA, BCA & B.Sc. (Animation & Multimedia)

Postgraduate:

Master of Computer Application (MCA), Master of Business Administration (MBA) and M.Sc. in Animation Design

Doctoral:

Ph.D. Programme in Computer Science Engineering, Electrical & Electronics Engineering, Management, Physics, Chemistry, Mathematics and Bioengineering and Biotechnology

Main Facilities and Equipment:

Building & Campus: The institute is built up in about 5 Acre land (20000 Sq M). The built up area is about 6000 Sq M consisting of 12 Class Rooms, 15 Lab Halls, Mechanical Workshop, Seminar Hall (175 seat Capacity), Common Computer/Internet Access Centre (50 Computers), Library Hall, T& P Cell, Indoor Sports & Gymnasium Hall, Student Activity Room, Music Room, Canteen Hall and Administrative Block. All Classrooms & and computer labs are air conditioned.

Equipment: All required lab equipment's are available in the institute to conduct the various courses along with equipment required for Mechanical Workshop and Animation courses. The institute has three Dell Power Edge servers and 473 Computers for lab, internet, faculty, and administrative requirement.

Software/Simulation Tools:

Electronics & Electrical Labs: CADENCE VLSI simulation tool, ANSYS-HFSS RF Design Software, Maxwell-ANSYS, TCAD Design tool, MATLAB, Xilinx ISE Foundation Tool, ComSim, MultiSim, Code Composer Studio, PCB Design Util Board,

System View, Open IT Guru, SUSE-V10, Ethernal Network Analyzer, Network Simulator, Lab View with ELVIS Hardware kit, ETAP Software, Infoletica MAGNET 2D, ANSYS Academic Research EM 1 Task, Electromagnet Suite

Computer Science Labs: AutoCAD, Rational

Rose, Oracle, and Visual Prolog

Animation Lab: Coral Graphics, Maya, Adobe

suit, Sound Forge, Toon Boom, Macro Media Flash and 3D Studio

Management Studies: SYSTAT Data Analysis Software and TALLY Accounting Software

English Communication: Language lab

Online e-Journals & e-books: IEEE, Science Direct, PROQUEST, ASTM Digital Library, Koha

Library Management Software





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	Duration/ Completion
1.	Development of Distributed Deep Learning Dynamic Causality Analysis Model for Predicting Epilepsy and Simulation of Epileptic Brain	Dr Vishwambhar Pathak (PI), Dr. Vivek Gaur (Co- PI)	DST, Govt of India	12.03.2020	16.8 Lacs	2 years
2.	Space based information support for decentralized planning – update for Gujarat state (BISR)	Dr. M. P. Punia (PI),	National Remote Sensing Centre, ISRO, Hyderabad	19.04.2021	196 Lacs	31.03.2023
3.	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. (BISR)	Dr. M. P. Punia(PI),	Department of science and Technology, government of India.	03.03.2021	26.95 Lacs	31.07.2024



Sr. No.	Project Title	PI / Co PI / Collaborator if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration/ Completion
4.	Integrated Watershed Management Programme, Gujarat State (BISR)	Dr. M. P. Punia(PI),	National Remote Sensing Centre, ISRO, Hyderabad	03.03.2017	130 Lacs	31.03.2023
5.	Exploring possibilities of micro irrigation in Chambal and Mahi command area of Rajasthan (BISR)	Dr. M. P. Punia(PI),	DST, Gol.	18.10.2019	43.60 Lacs	18.10.2022
6.	Design Innovation Centre under National Initiative for Design innovation 3.0	Dr. Krishna Mohan Medicherla (P.I) Dr. Pooran Singh Solanki (Co-PI) Dr. K V R Rao (collaborator, University of Rajasthan, Jaipur)	Dept. of Higher Education, Gol	30.09.2021	100 Lacs	5 years
7.	Registry of Genetic Polymorphisms associated with hormonal and Metabolic Disorders in Asian Indians	Dr. Krishna Mohan Medicherla (P.I) Dr. Pooran Singh Solanki (Co-PI) Dr. Sandeep K Mathur (collaborator, SMS Medical College, Jaipur)	Metabolism and Molecular Research Society, Rajasthan	27.03.2022	22.00 Lacs	3 years
8.	Dissecting Vitamin K pathways	Dr. Krishna Mohan Medicherla (Co -P.I) Dr. Prashant S. (PI, Amrita University, Kerala)	DST-DNAxperts (Industry sponsored)	30.09.2019	89.25 Lacs	3 years
9.	Development of salivary biomarker in Oral Squamous Cell Carcinoma in regional population	Dr. Krishna Mohan Medicherla (Co - P.I) Dr. Jyoti Paliwal (collaborator, RUHS, Jaipur)	State Govt of Rajasthan	2020	9.358 Lacs	1 year
10.	Rapidmultiplex PCR based detection of water borne human bacterial pathogens	Dr. P S Solanki (PI) Dr. R K Gothwal (Co-PI)	DST-Rajasthan	27.03.2017	12.12 Lacs	3 years
11.	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	Dr. R K Gothwal (Co-PI)	DST, Govt. Of India	03.03.2021	48.46 Lacs	3 years

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Faculty Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Webinar On "Edge Computing and Enabling Technologies"	Dr. Madhavi Sinha	BIT, Jaipur	11.05. 2022
2.	Trust EV: Awareness Oath- Empowering Women	Mrs. Jyoti Sharma	BIT, Jaipur	25.05.2022
3.	Fourier decomposition method for nonlinear and non-stationary time series analysis and applications	Mr. Ankur Agarwal	BIT, Jaipur	29.06.2022
4.	Seminar 'Trust EV: Awareness Oath- Empowering Women".	Dr. Deepak Verma, Dr. Aparajita Pandey, Dr. P.S Rathore	BIT, Jaipur	25.05.2022
5.	Awareness and Training on Intellectual Property Rights	Dr. Deepak Verma	Ministry of Commerce and Industry, Government of India	28.04.2022
6.	Applications of Engineering Concepts in Defence	Dr. Aparajita Pandey	BIT, Jaipur	24.03.2022
7.	Accelerating Innovation through WIN	Dr. G.P. Mishra	SRCI, BIT Mesra	06.04.2022
8.	Outcome based education: NBA approach	Dr. G.P. Mishra	Gitarattan International Business School	04-10.01.2022
9.	Development of corporate leadership for Atmanirbhar Bharat-A quasi- experimental study	Dr. G.P. Mishra	Indian Institute of Public Administration, New Delhi	28-29.12.2021
10.	Computer Aided Drug Design, under DIC Project	Dr. P S Solanki, Dr. Krishna Mohan Medicherla	Dept of Higher Education	03.09.2021- 19.02.2022
11.	Summer Training "Bioinformatics and drug design"	Dr. P S Solanki	BISR, Jaipur	21.06.2021- 26.06.2021
12.	Summer Training "Bioinformatics and drug design"	Dr. P S Solanki	do	28.06.2021- 03.07.2021
13.	Summer Training "Bioinformatics and drug design"	Dr. P S Solanki	do	04.07.2021- 08.07.2021
14.	6-Months Project Training Programme	Dr. R K Gothwal	do	01.07.2021- 31.12.2021
15.	6-Months Project Training Programme	Dr. R K Gothwal	do	01.01.2022- 30.06.2022
16.	6 Weeks Summer Training Programme	Dr. R K Gothwal	do	01.06.2022- 05.07.2022
17.	36 th National Symposium on Plasma Science and Technology (PLASMA-2021)	Dr. Anand Kumar Srivastava	BIT Mesra & PSSI	03.12.2021- 15.12.2021
18.	Webinar "Solar thermal Engineering for Sustainable Future"	Dr. Ranjana Agrawal	BIT, Jaipur	07.06.2022

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

Sr.	Name of the	Title of the	Funding Agency	Organizers	Venue	Date
No.	Faculty	Conference/ Seminar				
1.	Anju Sharma	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	online	06.06.2022 - 10.06.2022
2.	Seema Gaur	Inculcating Universal Human Values in Technical Education	do	do	online	06.06.2022 - 10.06.2022
3.	Archana Bhatnagar	Inculcating Universal Human Values in Technical Education	do	do	online	06.06.2022 - 10.06.2022
4.	Seema Gaur	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" Phase 1	TIT, Agartala, Tripura, India	TIT, Agartala, Tripura, India	online	07.03.2022- 12.03.2022
5.	Archana Bhatnagar	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" Phase 1	do	do	online	07.03.2022- 12.03.2022
6.	Anju Sharma	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" Phase 1	do	do	online	07.03.2022- 12.03.2022
7.	Anju Sharma	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -II)	do	do	online	21.03.2022- 26.03.2022
8.	Seema Gaur	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -II)	do	do	online	21.03.2022- 26.03.2022
9.	Archana Bhatnagar	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -II)	do	do	online	21.03.2022- 26.03.2022
10.	Anju Sharma	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -III)	do	do	online	11.04.2022- 16.04.2022
11.	Seema Gaur	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -III)	do	do	online	11.04.2022- 16.04.2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
12.	Bimalendu Pathak	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -II)	do	do	online	21.03.2022- 26.03.2022
13.	Subhash Chand Gupta	Awareness and Training on Intellectual Property Rights	National Intellectual Property Awareness Mission.	Intellectual Property Office, India	online	28.04.2022
14.	Subhash Chand Gupta	Faculty Development Workshop	BIT, Mesra	BIT, Mesra	offline	23.05.2022- 28.05.2022
15.	Vivek Gaur	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" Phase 1	TIT, Agartala, Tripura, India	TIT, Agartala, Tripura, India	online	07.03.2022- 12.03.2022
16.	Vivek Gaur	AICTE Sponsored Six Days Short Term Training Program (STTP) On "Machine Learning and Computer Vision" (Phase -II)	do	do	online	21.03.2022- 26.03.2022
17.	Vivek Gaur	Machine Learning and It's Applications	Ministry of Education, India	NITTTR, Kolkata	online	27.12.2021 -31.12.2021
18.	Vivek Gaur	Smart Farming: Application of AI, Robotics, IoT, & Cloud Computing	AAU, Anand University	Anand Agriculture University	online	28.02.2022- 04.03.2022
19.	Vivek Gaur	Practicing Cloud Computing with AWS	AICTE	Koneru Lakshmaiah Education Foundation	online	13.09.2021 -18.09.2021
20.	Seema Gaur	Computational Chemistry, Molecular Modeling, Drug Design, And Biologics	Schrödinger	Schrödinger and BIT, Mesra	online	21.12.2021- 23.12.2021
21.	Archana Bhatnagar	Base Camp India- Opportunities for Women and Girls in Entrepreneurship	BIT Jaipur	Watson Institute, Colarado and BIT Jaipur	offline	01.06.2022- 12.06.2022
22.	Alok Pandey	Electric Mobility and Charging Infrastructure	Self	Indian Smart Grid Foundation, Niti Ayog and association of State Road Transport Undertakings	Online	02.07.2021- 05.08.2021
23.	Alok Pandey	Design Aspects and IoT Applications in Electric Vehicles	Electronics & ICT Academy	NIT Warangal	Online	28.02.2022- 09.03.2022
24.	Alok Pandey	Faculty Development Workshop	BIT, Mesra	BIT, Mesra	Offline	23.05.2022- 28.05.2022



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
25.	Piyush Gupta	Awareness and Training on Intellectual Property Rights	National Intellectual Property Awareness Mission.	Intellectual Property Office, India	Online	28.04.2022
26.	Piyush Gupta	Seminar on "Kick Start your Business Startup"	BIT, Noida	Ch. Charan Singh National Institute of Marketing, GOI	Online	17.01.2022
27.	Deepak Chaturvedi	Short term training program on research methodology-Basics	Self	BIT, Mesra Off Campus Lalpur	Online	23.05.2022 -27.05.2022
28.	Gaurav Jain	2021 IEEE International Symposium on Smart Electronic Systems (iSES)	IEEE	IEEE, MNIT	MNIT, JAIPUR	19.12.2021- 21.12.2021
29.	Jyoti Sharma	Emerging Tools and Techniques in VLSI, MEMS & MOEMS	SKIT, Jaipur	SKIT, Jaipur	SKIT, Jaipur	25.01.22 - 29.01.22
30.	Snehanshu Shekhar	Type-1 and Type-2 Fuzzy Logic and Its Applications	AICTE ATAL	AICTE ATAL	Online	06.12.2021 -10.12.2021
31.	Aparajita Pandey	India Smart Utility Week (ISUW)	Ministry of Power, Ministry of Telecom, Ministry of Jalshakti, Smart City, Niti Ayog	India Smart Grid Forum (ISGF), New Delhi	Online	02-04.03 2022
32.	Aparajita Pandey	Seamless Transition of Microgrids-From Grid Connected to Islanded Mode	Self	Electrical Transient Analyzer Program (ETAP) Software, Irvine, California	Online	10.02. 2022
33.	Aparajita Pandey	Certified Hyperledger Fundamentals Program	Self	Kerela Blockchain Academy	Online	15.12. 2021– 11.01.2022
34.	Aparajita Pandey	Blockhash Live	Self	Digital University Kerela	Online	29.12.2021
35.	Aparajita Pandey	Blockchain Foundation Program	Self	Kerela Blockchain Academy	Online	04.12. 2021- 03.01.2022
36.	Aparajita Pandey	IoT Applications in Renewable Energy	AICTE ATAL	NSS College of Engineering	Online	22.11. 2021– 26.11.2021
37.	Aparajita Pandey	ETAP Power System Analysis for Electrical Engineers	Self	UDEMY, Electrik Power Academy	Online	01.09. 2021- 05.09.2021
38.	Aparajita Pandey	IoT Applications on Blockchain Techniques	AICTE ATAL	NIT, Meghalaya	Online	17.07.2021- 21.07.2021
39.	Roopali Sharma	Sustainability: Research, Education and Practice (SREP- 2022)	BIT Jaipur	Department of Management, Birla Institute of Technology, Mesra,	Online	30- 31.05.2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
40.		Inclusive growth and affirmative action in India – A road map	Ministry of Personnel, Government of India	Indian Institute of Public Administration, New Delhi	IIPA, ITO, New Delhi	28- 29.12.2021
41.	G. P. Mishra	National Intellectual Property Awareness Mission	The Office of the Controller General of Patents, Designs and Trademarks, Ministry of Commerce and Industry, Government of India	BIT Jaipur	Online	28.04.2022
42.	Purvi Mathur	Operations Management (ICOM- 2022)	The ICFAI Foundation for Higher Education	ICFAI, Hyderabad	Online	13- 14.05.2022
43.	Purvi Mathur	Excellence in Research and Education (CERE-2022)	-	IIM, Indore	IIM, Indore.	03- 05.06.2022
44.	Purvi Mathur	Online National Research Development Workshop on Statistical Techniques & Data Analytics	-	Department of Management, Birla Institute of Technology, Mesra, 10–14 June, 2022.	Online	10- 14.06.2022
45.	Purvi Mathur	Personal and Professional Effectiveness- For Academic Professionals	ICFAI Business School	ICFAI Business School, Jaipur	Online	06.09. 2021– 10.09.2021
46.	Purvi Mathur	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	06- 10.06.2022
47.	Priyanshu Sharma	Inculcating Universal Human Values in Technical Education	AICTE	AICTE	Online	06- 10.06.2022
48.	Gautam Goswami	International Conference on "Innovation in Visual Arts" (ICIVA'21)	Self	Amity School of Fine Art, Amity University, Noida	Amity School of Fine Art, Amity University, Noida	18.11.2021
49.	Gaurav Choudhary	International Conference on "Innovation in Visual Arts" (ICIVA'21)	Self	Amity University, Noida	Amity University, Noida	18.11.2021
50.	Vibhuti Pandya	Jaipur International Film Festival 2022	Self	JIFF India Trust	Maharana Pratap Auditorium, JLN Marg, Jaipur	07.01.2022- 11.01.2022



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
51.	Vibhuti Pandya	Kala Mela 2022 (on Contemporary Arts of Rajasthan)	BIT Jaipur	Rajasthan Lalit Kala Academy, Jaipur	Ravindra Kala Manch, Jaipur	09.03.2022- 14.03.2022
52.	Gautam Goswami	Kala Mela 2022 (on Contemporary Arts of Rajasthan)	BIT Jaipur	do	do	09.03.2022- 14.03.2022
53.	Gaurav Choudhary	Kala Mela 2022 (on Contemporary Arts of Rajasthan)	BIT Jaipur	do	do	09.03.2022- 14.03.2022
54.	Manish Kumar	Kala Mela 2022 (on Contemporary Arts of Rajasthan)	BIT Jaipur	do	do	09.03.2022- 14.03.2022
55.	Rishika Sharma	Kala Mela 2022 (on Contemporary Arts of Rajasthan)	BIT Jaipur	do	do	09.03.2022- 14.03.2022
56.	Rishika Sharma	UHV FDP	AICTE	AICTE	Online	06.06.2022- 10.06.2022
57.	Rishika Sharma	Opportunities for Women & Girls in Entrepreneurship	Watson Base camp India & BIT Jaipur	Watson Base Camp India & BIT Jaipur	BIT Jaipur	11.06.2022- 12.06.2022
58.	Gurminder Singh Malhotra	Two week "Refresher course in Mathematics"	PMMMNMTT	Ramanujan College, New Delhi	Online	31.08.21- 14.09.21
59.	Indra Kumar Dadheech	Two week "Refresher course in Mathematics"	PMMMNMTT	do	Online	31.08-21 - 14.09.21
60.	Bhawna Agarwal	Two week "Refresher course in Mathematics"	PMMMNMTT	do	Online	31.08.21- 14.09.21
61.	Anand Kumar Srivastava	2nd International Conference on Plasma Theory and Simulation (PTS-2022)	Lucknow University	Department of Physics, Lucknow University	Online	20- 22.06.2022
62.	Dheeraj Bhardwaj	Recent Trends in Emerging Technologies [iNCRTET-2022]	CSIR-Institute of Minerals and Materials Technology (IMMT)	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	SKIT, Jaipur	16- 17.03.2022
63.	Anand Kumar Srivastava	36th National Symposium on Plasma Science & Technology (PLASMA-2021)	Plasma Science Society of India	BIT, Mesra Off Campus Jaipur and PSSI	BIT, Jaipur	13- 15.12.2021
64.	Ravindra Kumar	36th National Symposium on Plasma Science & Technology (PLASMA-2021)	Plasma Science Society of India	BIT, Mesra Off Campus Jaipur and PSSI	BIT, Jaipur	13- 15.12.2021

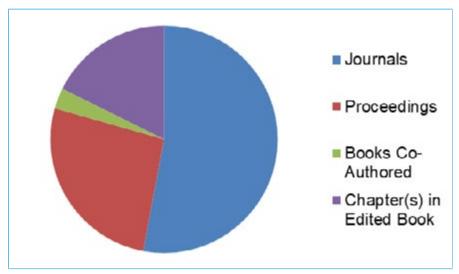
SECTION 4 RESEARCH PUBLICATIONS

Publications in Journals : 18

Publications in Proceedings: 9

Books Co-Authored: 1

Chapter(s) in Edited Book: 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. Anand Kumar Srivastava	Invited Talk at 2 nd International Conference on Plasma Theory and Simulation (PTS-2022)	Department of Physics, Lucknow University	International	20-22 June, 2022
2.	Dr. Anand Kumar Srivastava	Invited Expert lecture on Plasma Science and Technology	St. Anselm's Pink City School, Malviya Nagar, Jaipur	State	30 April 2022
3.	Dr. Anand Kumar Srivastava	Reviewed and evaluated Indo- Korean project as technical expert in Plasma Physics	GITA, DST, Govt. of India	International	2022
4.	Dr. Dheeraj Bhardwaj	Session Chair in International Conference	SKIT Jagatpura Jaipur	International Level	2021
5.	Dr. Dheeraj Bhardwaj	Review of the paper for SCI Journal published by DRDO New Delhi	DRDO New Delhi	International Level	2021

5.2 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.	Dr. Saroj Kumar, Shehab Mohamed Beram, Dr. Kirti Khanna, Dr. Anurag Srivastava. Dr. Sumira Mallik, Dr. Jayasri Murali Iyengar, Santosh Kumar Sharma, Dr. Sumanta Bhattacharya	Bitcoin Price prediction technique using Artificial Intelligence and Machine Learning	202111061406	2021	Published
2.	Deepak Verma, Snehanshu Shekhar, Rakeshwari Agrawal	System on Chip Controller for Battery Charging for Electric Vehicle Applications	Application No 202211028719 Publication Number & Date 21/2022 27/05/2022	2022	A novel Battery Management System (BMS) is proposed for charging of EV

5.3 MoUs / Collaborations:

Sr. No	Industry Name	Area of Work	
1.	Continental Engineers	The company is engaged in manufacturing of Low Tension Current Transformers, Combined CT – PT Metering sets. Outdoor oil-cooled CT / VT / PT. Indoor and Outdoor Resin Cast CT / PT, Bushing Current transformers and Control Transformers.	CONTINENTAL ENGINEERS (1952) Your Reliable Partners for Instrument Transformers!
2.	Danish Private Limited	The Company is engaged in manufacturing of Power and Distribution Transformers up to 30 MVA rating and 33 KV class and control Relay Panels up to 400 KV including substation automation.	danish a unit of trust
3.	Genus Power Infrastructures Ltd	The company is engaged in manufacturing of Energy Metering products and Power Back-up products such as inverters, batteries and solar panels.	Genus energizing lives
4.	Omega Electronics	The company is engaged in manufacturing educational products for higher education to do lab practical in field of Physics, Electrical and Electronics since 1962.	• • • • • • • • • • • • • • • • • • •

Sr. No	Industry Name	Area of Work	
5.	Prime Telelink Pvt. Ltd	The company is engaged in Telecommunication Products, GSM Modem, GSM Emergency Telephones for Road Highways, Electronic Weighing Scales, Weighing Bridges, LED/RGB LED displays.	Prime Telelink Pvt Ltd.

ACTIVITIES/ FACULTY MEMBERS / DOS /DAS

6.1 Departmental Students' Activities

Sr. No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
1.	Flutter Festival: (5 sessions on flutter)	Aashish Kumar	S. Vijayvargiya	Feb 14, 2022
2.	Introduction to Web development (React Stack)	Aashish Kumar	S. Vijayvargiya	Feb 12, 2022
3.	7 Days of Bootcamp C++	Aashish Kumar	S. Vijayvargiya	Feb 1 – 7, 2022
4.	Workshop on Android App development	Abhijeet Choudhary, Arin Arora, Pranjal Agarwal, Divya Bhatia	Anju Sharma	Jun 22-23, 2022
5.	Webinar on "Overview of higher Education opportunities in the U.S."	Adheeshri Rathi B.Tech	Santosh Kumar Sharma	Oct 9,2021
6.	Webinar on "HOW TO CRACK GATE IES PSUs"	Adheeshri Rathi, Aryan Pareek	Santosh Kumar Sharma	Feb 12, 2022
7.	Webinar on "Experience the benefits of machine learning"	Adheeshri Rathi, Aryan Pareek	Santosh Kumar Sharma	Dec 04, 2021
8.	Webinar on "Setting – How to Set SMART Goals & Resume Building – Creating Impactful Resume"	Adheeshri Rathi	Santosh Kumar Sharma	Sept 11, 2021
9.	Webinar On "Social Network Analysis – Big Data Analysis"	Adheeshri Rathi	Santosh Kumar Sharma	Feb 27, 2022
10.	IETE Foundation Day- Workshop on "Smart Instrumentation-Advancing Skill Development to the Next Level" at IETE Rajasthan Centre, IETE Bhawan, Jaipur	B. Tech ECE	Snehanshu Shekhar	Nov 13, 2021

Sr. No.	Name of the Activity	Students' Co-Ordinator	Faculty Coordinator	Date / Duration
11.	A student event on "Tintinnabulation" Rephrasing of the Advertising Jingles	Anmol Agarwal	Purvi Mathur, J K Chandel	Mar 23, 2022
12.	A Webinar on "Digital Transformation and Service Transition" was conducted by Mr. Aashish Singh, The Program Director, HCL America Inc	Bhavika Vaswani (BBA Semester VI)	Purvi Mathur	Mar 19, 2022
13.	A student event on "Decoding Union Budget 2022: Impact and Analysis"	Bhavika Vaswani (BBA Semester VI)	Pankaj Sharma, Roopali Sharma	Feb 10, 2022
14.	Guest Lecture on Marketing of Financial Services by Ms. Shubhi Kirti Saksena, Senior Channel Manager in Tata AIG General Insurance Co. Ltd.	Siddhi Khandelwal (BBA Semester VI)	Roopali Sharma	Jan 29, 2022
15.	Business Quiz -2022	Surmai Sharma & Bhavika Vaswani (BBA Semester VI)	Purvi Mathur, Pankaj Sharma, Priyanshu Sharma	Jan 18, 2022
16.	Guest Lecture on Requisites for a happy & successful personal and professional life: by Prof. Kusum Jain, Professor, University of Rajasthan	Part of Induction Program for B.Tech, BBA, BSc (A&M), BCA	Ritu Pareek	Aug 2, 2021
17.	An Interactive Session on Extracurricular Activities, Academic Achievement and Skills Development for the sustainable growth in corporate world. By Mr. Garvit Bothra, a Senior Data Analyst in Nielson IQ in Vadodara, Gujarat.	Anmol Agarwal (BBA Semester IV)	Roopali Sharma	Jul 24, 2021
18.	Typographic Slogan Designing Competition	Ishween Kaur Baluja (M.Sc. Animation Design)	Rishika Sharma	Apr 09, 2022

6.2 List of Faculties

S. No.	Name	Designation
1	Dr. Peeyush Tewari	Director (Actg.)

Sr. No.	Name	Designation			
	Department of Computer Scienc	e & Engineering			
1.	Dr. Madhavi Sinha	Associate Professor			
2.	Dr. Shripal Vijayvargiya	Associate Professor			
3.	Mr. P. K. Sharma	Assistant Professor			
4.	Dr. Piyush Gupta	Assistant Professor			
5.	Dr. M.M. Agarwal	Assistant Professor			
6.	Dr. Seema Gaur	Assistant Professor			
7.	Dr. Vivek Gaur	Assistant Professor			
8.	Dr. Vishwambhar Pathak	Assistant Professor			
9.	Dr. ArchanaBhatnagar	Assistant Professor			
10.	Mr. Subhash Gupta	Assistant Professor			
11.	Mr. Santosh K. Sharma	Assistant Professor			
12.	Dr. Alok Pandey	Assistant Professor			
13.	Mr. B. Pathak	Assistant Professor			
14.	Mrs. Anju Sharma	Assistant Professor			
15.	Mr. Vikas Sangwan	Assistant Professor			
16.	Mr. Santosh Agarwal	Associate Lecturer			
	Department of Electronics & Commu	nication Engineering			
1.	Mr. Ankur Agarwal	Assistant Professor			
2.	Mr. Deepak Chaturvedi	Assistant Professor			
3.	Mrs. Jyoti Sharma	Assistant Professor			
4.	Mr. Gaurav Jain	Assistant Professor			
5.	Mr. Snehanshu Shekhar	Assistant Professor			
6.	Mr. Puneet Sharma	Assistant Professor			
	Department of Electrical & Electronics Engineering				
1.	Dr. Prashant Singh Rathore	Assistant Professor			
2.	Dr. (Mrs.) Aparajita Pandey	Assistant Professor			
3.	Dr. Deepak Verma	Assistant Professor			
	Department of Management				
1.	Dr. Roopali Sharma	Professor			

Sr. No.	Name	Designation
2.	Dr. G.P Mishra	Professor
3.	Mr. S.C Mishra	Associate Professor
4.	Mrs. Pankaj Sharma	Assistant Professor
5.	Dr. J. K. Chandel	Assistant Professor
6.	Dr. Priyanshu Sharma	Associate Lecturer
7.	Mrs. Purvi Mathur	Associate Lecturer
8.	Dr. Kusum Lata Mishra	Associate Lecturer
	Department of Animation &	Multimedia
1.	Dr.Vibhuti Pandya	Assistant Professor
2.	Mr.Gautam Kumar Goswami	Assistant Professor
3.	Mr. Gaurav Choudhary	Assistant Professor
4.	Mr. Manish Kumar	Assistant Professor
5.	Dr. (Mrs.) Rishika Sharma	Associate Lecturer
	Department of Chem	istry
1.	Dr. (Mrs) Ranjana Agarwal	Assistant Professor
2.	Mrs. Nidhi Singh	Associate Lecturer
	Department of Phys	sics
1.	Dr.Dheeraj Bhardwaj	Assistant Professor
2.	Dr.Anand Kumar Srivastava	Assistant Professor
3.	Dr.Ravindra Kumar	Associate Lecturer
	Department of Mathen	natics
1.	Dr.Gurminder Singh Malhotra	Associate Professor
2.	Dr.Indra Kumar Dadheech	Assistant Professor
3.	Dr. (Mrs.) Bhawna Agarwal	Assistant Professor
	Department of Human	
1.	Dr. (Mrs.) Ritu Pareek	Assistant Professor (English Language)
	Department of Bio-Tech	
1.	Dr. M. Krishna Mohan	Professor
		(Presently Deputed to BISR, Jaipur)
2.	Mr.P.S.Solanki	Asst. Professor
		(Presently Deputed to BISR, Jaipur)
3.	Dr. R.K. Gothwal	Asst. Professor
		(Presently Deputed to BISR, Jaipur)

6.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Dr. Madhavi Sinha	Associate Professor, Computer Science & Engineering	Internal Member of BOS for B.Tech. Programme in CSE, MCA, BCA and B.Sc. (A&M)
2.	Dr P. S. Rathore	Assistant Professor, Electrical & Electronics Engineering	Internal Member of BOS for B.Tech. Programme in EEE
3.	Mr. Ankur Agarwal	Assistant Professor, Electronics & Communication Engineering	Internal Member of BOS for B.Tech. Programme in ECE
4.	Dr. Vibhuti Pandya	Assistant Professor, Animation & Multimedia	Internal Member of BOS for B.Sc Animation & Multimedia and M.Sc. Animation Design Programmes
5.	Mr Gautam Goswami	Assistant Professor, Animation & Multimedia	Internal Member of BOS for B.Sc Animation & Multimedia and M.Sc. Animation Design Programmes
6.	Dr. Roopali Sharma	Professor, Department of Management	Invited Internal Member BOS, Department of Management, BIT Mesra

SECTION 7 OTHER INFORMATION

7.1 Publication by students, if any

Publications in Proceedings:(International/National)

1. N. Gupta and Deepak Verma (2021), "A Review and Analysis of Topologies of Light Emitting Diode (LED) Drivers," 2021 IEEE 2nd International Conference On Electrical Power and Energy Systems (ICEPES), 2021, pp. 1–6, doi: 10.1109/ICEPES52894.2021.9699637.

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Pranjal Agarwal B.Tech. (CSE) 2019–2023	Grace Hopper Scholarship for GHC Celebration	AnitaB.org in collaboration with Association for Computing Machinary, USA.	Awarded for 2021, Online
2.	Komal Devnani B.Tech. (CSE) 2019–2023	Grace Hopper Scholarship for GHC Celebration	AnitaB.org in collaboration with Association for Computing Machinary, USA.	Awarded for 2021, Online
3.	Gurleen Kaur	Winner of Beginner Track in defHacks Worlwide 3.0 Hackathon	Devpost	25 th - 27 th June, 2021 Online

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
4.	Aastha Mathur	3rd position in Kavyapath Veethika	Maharani College, University of Rajasthan , Jaipur	18 th - 20 th March, 2021 Online
5.	Gurleen Kaur	Recipient of Ethereum India Fellowship with 2000\$	Ethereum Foundation and Devfolio	Feb - April, 2021 Online
6.	Gurleen Kaur	Best Hardware Hack	HackCBS 3.0 and Major League Hacking	6 th -8 th November, 2020 Online
7.	Parkhi Jain	2nd Position all over Jaipur in classical dance- Kathak	Bhatkhande Sangit Vidyapith, Lucknow	6 th June, 2020 Online
8.	Gurleen Kaur	Winner of Beginner Track in defHacks Worlwide 3.0 Hackathon	Devpost	25 th -27 th June, 2021 Online
9.	Elvira Mishra	II Runner-up Prizes in Script Writing & Painting Competitions during during National Youth Festival- MOOD INDIGO-20, Organized Online by IIT Bombay	IIT Bombay	Dec. 2020 Online
10.	Kartik Sharma, Tanishq Sharma and Shubham Kumar Sain	Won Second Prize in Think and Bring Idea Competition for project titled "Pollution Control of the metro city by DBD Plasma Filter".	Institute of Advanced Research, Gandhinagar	25 th June, 2022 Gandhinagar, Gujarat

7.3 Distinguished Visitors from Industry/Academia/Research organizations:

Sr. No	Name of Visitor with Affiliation	Date of Visit	Image
1.	Mr. Himanshu Ajmera, Visual Effects Supervisor, Double Negative Studios Mumbai & Mohali Mr. Himanshu visited Animation & Multimedia Dept. to discuss about the opportunities in the field of Visual Effects & Animation.	22.04.2022	

7.4 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Mr. Sai Kiran, CSE 2012	Software Development engineer , Microsoft USA
2.	Dr. Shruti Mehrotra, ECE 2011	Device Modelling Engineer at Global Foundries (MNC)
3.	Anshul Vyas, EEE, 2015	Microsoft, Site Reliability Engineer
4.	Mr. Garvit Bothra , MBA 2014	Nielsen India Ltd, Senior Research Executive
5.	Ankit Vajpeyee, B.Sc. (A &M) 2009	Senior Executive, Mathod Studios, Canada
6.	Gaurangi Gupta, ECE 2012	RF/Microwave Antenna Engineer, Postdoc at NASA JPL
7.	Sheenu Jain, ECE 2013	Account Executive, Google
8.	Gamini Singh Udawat, 2016 EEE	Applied Scientist II at Amazon, MS from University of Minnesota, USA
9.	Varun Varindani, 2017 EEE	Senior Engineer at Qualcomm, MTech from Indian Institute of Science (IISC)
10.	Bipasha Parul, 2014 EEE	IFS officer, Government of India
11.	Rajat Sinha, 2015 EEE	ESD Modeling Engineer, Global Foundries (Ph.D from IISC Bengaluru)
12.	Shivam Agarwal, 2014 EEE, NITIE Mumbai	IT Manager, Global Order to cash
13.	Lakshya Gupta, 2016 EEE	Engineer , IOCL
14.	Samar Singh, 2016 EEE	Doctoral Researcher at Mercedes Benz, Stiuttgart, Germany
15.	Prateek Gupta, 2015 EEE	Engineer at Mercedes Benz, Stiuttgart, Germany
16.	Vilas Rarotra, 2016 EEE	MBA from INSEAD Business School
17.	Sanat Talwar, 2016 EEE	MS From University of Maryland, Information System Security Engineer at Tesla
18.	Mudit Sahai, 2017 EEE	MBA from IMT Ghaziabad, Assistant Product Manager at Adani Wilmar Ltd.
19.	Anshul Vyas, 2015 EEE	Site reliability Engineer at Microsoft
20.	Pranjal Bhown, 2014, EEE	UX Design Engineer at Microsoft
21.	Rahul Khatri, 2017 EEE	Category Manager at Flipkart
22.	Joshita Sharma, 2018 M.Sc. Animation Design	Asst. Professor in Amity University, Jaipur

7.5 Infrastructure / Equipment added during the year:

Lab Equipmement, Computers & peripherals, Software, Machinery and Furniture & Fixtures of about ₹ 79.19 Lacs were purchase and installed during the year. Following is the category wise break up;

Lab Equipment: ₹ 34.45 Lacs

Computers & Peripherals: ₹ 13.32 Lacs

Software: ₹8.00 Lacs

Plant & Machinery: ₹ 31.37 Lacs
Furniture & Fixtures: ₹ 2.05 Lacs

7.6 Any other relevant information

Other Achievements:

1. Mr. Snehanshu Shekhar Assistant professor Deptt. Of ECE, is appointed as IETE EC member, IETE Rajasthan Local centre for the session 2020–2022.

Ph.D. Awarded:

- 1. Mr. Saurabh Singh (PHD/CS/10052/2012) awarded Ph.D. in CSE discipline dated on 16/08/2021 thesis entitled "Enhancement of Dimensionality Reduction Techniques for Pattern Construction of Biometric Authentication Systems" under the supervision of Guide Dr. Madhavi Sinha.
- 2. Ms. Rinkey (PHD/CS/10016/2012) awarded Ph.D. in CSE discipline dated on 05/10/2021 thesis entitled "Development of Cloud Based Architecture for Performance Enhancement of E-Learning Systems" under the supervision of Guide Dr. Piyush Gupta & Co-guide Dr. Archana Bhatnagar.
- 3. Mr. Dharmendra Kumawat (PHD/MB/10017/2012) awarded Ph.D. in Management discipline dated on 11/03/2022 thesis entitled "A Study of Public-Private Partnership in Operation and Maintenance of Urban Drinking Water Supply System" under the supervision of Guide Dr. Roopali Sharma.
- 4. Mr. Mukesh Kumar Singh (PHD/MB/10016/2012) awarded Ph.D. in Management discipline dated on 26/05/2022 thesis entitled "A study to Analyse the impact of emerging managerial practices on performance of the Hotel Industry in Jaipur Region" under the supervision of Guide Dr. Roopali Sharma and Co-guide Dr. Ritu Arora.

7.7 Special COVID Initiatives, if any

The institute organized various online and off lines sessions to spread awareness about the safety measures to be taken during the COVID 19 pandemic.

We have established the First COVID diagnostic Facility at JNU Medical Hospital, Jaipur, inaugurated by the Hon'ble CM Shri Ashok Gehlot, Govt of Rajasthan.

BIT Off Campus Lalpur

SECTION 1 PROFILE

1.1 About the Off Campus:



With a vision to inspire young minds and professionals, BIT Lalpur Campus 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

Strive relentlessly to develop and maintain its recognition as a frontrunner in contemporary IT and management education in the country and contribute strongly towards nation-building through excellence in education, research and development activities.

Mission

1. To impart quality education tuned to the present times and empowering students with a strong foundation ensuring their

- development as complete professionals who can handle challenges of the modern era with full confidence.
- 2. To provide excellent research and development facilities for faculty and students to undertake contemporary theoretical and applied research with mutually beneficial collaborations with leading universities, industries and research bodies across the globe to continually improve the quality of education and research.

SECTION 2

SEMINAR / CONFERENCE

2.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Workshop on "Developing Leadership Skill among budding Entrepreneur"	Ms Anupma Sahai/ Dr Mili Dutta	BIT, Mesra	12-03-2022 &13-03-2022
2.	Five days online Workshop on "Research Methodology".		BIT, Mesra	23-05-2022 to 27-05- 2022

2.1 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date	
1.	Amitabh Chandan	"Short Term Training Program on Research Methodology- Basics"	BIT Lalpur	Dr. Anis Haider, Dr. Satrajeet Choudhary	Online (BIT Lalpur)	23 rd -27 th May,2022	
2.	Dr. Binod Kumar Sharma	National Intellectual Property Awareness Mission (NIPAM)"		Intellectual Property Office, India	Online	28/04/2022	
3.	Dr Mili Dutta	5-day online FDP on "Inculcating Universal Human Values in Technical Education"	nculcating Universal for Technical Tech uman Values in Education (AIC		Online	8th -12th November,2021	
4.	Dr Mili Dutta	Online Advanced FDP "Sustainable Business Eco-system"	National Institute of Technology, Roukela	AICTE Training and Learning(ATAL) Academy	Online	10th-14th January,2022.	

5.	Dr Mili Dutta	Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission	BIT,Jaipur	Intellectual Property Office ,India (Ministry of commerce and Industry)	Online	8th April,2022
6.	Dr Mili Dutta	Heavy Engineering Corporation -A 65 year old history of Operations and massive history of milestone :both positive and negative	Ancient Indian Wisdom: Panacea for sustainable Well- being	International Conference organized by SMS Varanasi	Online	26-27 th June,2021
7.	Dr Mili Dutta	The rising affluence of social media promotion: An emerging Perspective to rise above the clutter	Emerging Issues on contemporary business practices in the era of Intelligence sustainable Economic Development through Technological Transformation	International Conference organized by SRMS college of Engineering and Technology, Bareilly	Online	26 th February,2022
8.	Dr. P S Bishnu	Faculty Development Programme on Artificial Intelligence, Robotics and Automation	CURIE-AI, DST, Govt. of India	Centre for School of Automation, Banasthali Vidyapith	Banasthali Vidyapith	9/3/2022 to 14/3/2022
9.	Dr. T.K. Banerjee	Waste-2-Wealth		Dept of Chemical Engineering, BIT Mesra	Online Webinar	12/3/2022
10.	Dr. T.K. Banerjee	Awareness and Training on Intellectual Property		Intellectual Property Office, India	Online Webinar	28/4/2022

SECTION 3 RESEARCH PUBLICATIONS

3.1 Publications in Journals: 25

3.2 Publications in Proceedings: 13

3.3 Book:1

3.4 Chapter(s) in Edited Book: 11

AWARD / PATENT / COLLABORATIONS

4.1 Patents (Applied / Granted)

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the patent
1.	Umesh Prasad, Soumitro Chakravarty	IoT enabled tool for online education system in the developing trend of smart education	202211029708	2022	When a student requests a variety of educational materials, the invention can be used to link those materials to a smart education application to fulfil the student's request. In other words, the invention can help fulfil the student's request. This issue needs to be fixed using some kind of technical methodology. Students will now have access to a wide variety of instructional materials, such as video, still images, live broadcasts, and problem banks, as a direct result of this modification. Because of this, a presentation to the general public has been given regarding an intelligent education system. A smart education server that is enabled by the Internet of Things is one of the components of the smart education system. Other components of the smart education system include a student terminal that is preloaded with a learning application, a service that provides a service for learning content such as video clips, images, a live broadcast, and learning materials.
2.	Soumitro Chakravarty, Umesh Prasad	Internet of Things for Home safety Applications	202241032207	2022	The present invention involves a home device interface, a data transfer unit (DTU) equipment, a platform, a control node, and a network server composing an intelligent home program based on Internet of things technology. In comparison to prior art,, the smart household system has the benefit of using Internet of Things technologies to create an intelligent home communications network. In home wireless transmission, a wireless network protocol for a home device is used, and the effects of minimal complexity, self-organization, low energy consumption, and cheap cost are accomplished. Under the assistance of lot technology, the network server is constructed, and effective information from various home components in the system may be transmitted to the network server. Sensing information from the devices canbe transmitted using data from a cloud service network, the gadgets can also be in continuous communication, and consumers can examine what's going on at any time from any location.

4.2 MoUs / Collaborations

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	BITOC Lalpur and Binary Tags.	Internship opportunities for students at the campus	3 Years
2.	An MOU between Birla Institute of Technology, Off Campus Lalpur and The JharkhandState Cooperative Milk Producers' Federation Limited, Ranchi	Internship opportunities for students at the campus	3 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.	 KALOPSIA - Hurricane of Feelings throwback CHRONICLES- Down the memory lane penning down emotions CLASH OF TRADITIONAS - Finding similarity in dissimilarity Traditional vs western 			28/01/2022
2.	SUMMER INTERNSHIP in IT Profile at Central Coalfields, Jharkhand	Himanshu Swaraj Jatin Kumar Soni Puja Anand Shafan Fardin Khan Yash Shrivastava		May 2022-July 2022
3.	SUMMER INTERNSHIP in IT Profile at Central Coalfields, Jharkhand	Anshu Kumari Abhishek Ansu Akash Kumar Pandey Himanshu Kumar Rahul Kant Shivam Kumar Singh Swati Rani VinayPratap		May 2022-July 2022

5.2 List of Faculties

Department: Computer Science & Engineering

Sr. No.	Name of Faculty	Designation
1.	Dr.Vandana Bhattacharjee	(Professor) Director In-Charge
2.	Dr. (Mrs.) Srabani Mukhopadhyaya	Associate Professor
3.	Dr. (Mrs.) Amrita Priyam	Associate Professor
4.	Mrs. OnimaTigga	Assistant Professor
5.	Dr. Sanjay Kumar	Assistant Professor
6.	Mr. Amar Kumar	Assistant Professor
7.	Dr. Nagendra Prasad Tiwary	Assistant Professor
8.	Dr. N.K. Singh	Assistant Professor
9.	Dr. Partha Sarthi Bishnu	Assistant Professor
10.	Dr. Binod Kumar Sharma	Assistant Professor
11.	Dr. Kuntal Mukherjee	Assistant Professor
12.	Dr. (Ms.) Jaya Pal	Assistant Professor
13.	Dr. Umesh Prasad	Assistant Professor
14.	Dr. (Mrs.) Siba Mitra	Assistant Professor
15.	Dr. Siva Surya Narayana Chintapalli	Assistant Professor
16.	Mr. Deepak Kumar Mishra	Associate Lecturer
17.	Dr. (Mrs.) Aparna Shukla	Associate Lecturer
18.	Mr. Hareshwar Prasad	Associate Lecturer
19.	Mr. Khalid Ashraf	Associate Lecturer
20.	Mrs. Vijaya Lakshmi Chintapalli	Jr. Scientific Officer

Department : Management

Sr. No.	Name of Faculty	Designation		
1.	Dr. Pranab Kumar	Associate Professor		
2.	Dr. Arun Kumar Singh	Assistant Professor		
3.	Dr. Abhay Ranjan Srivastava	Assistant Professor		
4.	Ms. Anupma Sahai	Assistant Professor		
5.	Dr. Somnath Mukherjee	Assistant Professor		
6.	Dr. Sandeep Nath Sahdeo	Assistant Professor		
7.	Dr. Syed Anis Haider	Assistant Professor		
8.	Dr. Ashutosh Mishra	Assistant Professor		

Sr. No.	Name of Faculty	Designation
9.	Mr. Amitabh Chandan	Assistant Professor
10.	Dr. (Mrs.) Mili Dutta	Assistant Professor
11.	Dr. Pradeep Munda	Assistant Professor
12.	Dr. Soumitro Chakravarty	Assistant Professor
13.	Dr. Avinash Kumar Sinha	Assistant Professor
14.	Dr. Jaleshwar Bhagat	Assistant Professor
15.	Dr. Satrajeet Choudhury	Assistant Professor
16.	Dr. Tanmoy Kumar Banerjee	Assistant Professor
17.	Dr. B.NSanyal	Assistant Professor
18.	Mr. Prashant Kumar Singh	Assistant Professor

SECTION 6 OTHER INFORMATION

6.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Abhishek Kumar Anmol	participation in the Workshop "Developing BIT	· ·	12th &13th
2.	Garima Singh		Management, BIT OFF Campus	March,2022, BIT OFF Campus
3.	AditiTigga		Lalpur, Ranchi	Lalpur, Ranchi
4.	ShikharSahai			
5.	ArunimaAsthana			
6.	Megha Shree			
7.	VaibhavSagar			
8.	Mohit Kumar			
9.	AditiJaiswal			
10.	PrathnaKumari			
11.	NupurKarjee			
12.	RishirajCharan			

6.2 Infrastructure Development

Renovation cum modernization of the existing infrastructure is being carried out at the Campus. Till-date 12 classrooms have been fully renovated and are functional. Work is in progress for the other rooms and administrative sections as well.

Build up area(s) in Sqm are presented below in a tabular form:

Sr. No.	Particulars	Build Up Area (in Sqm.) Approx.
	(A) Academic Building :	
1.	Laboratories	181.16
2.	Class Rooms	55.14 (Each)
3.	Library	181.16
4.	(B)Administrative Building :	
5.	Director (In-Charge) Office	49
6.	Faculty Rooms	37
7.	Placement Office	35
8.	Meeting Room	25
9.	Examination Office	61
10.	Health Centre /First Aid Cum Sick Room	140
11.	Office All Inclusive	305

6.3 Ph.D. Supervision:

Sr. No.	Name of Supervisor	Name of the research scholar	Date of registration	Date of award (Ph.D Viva Voce)
1.	Dr. Abhaya Ranjan Srivastava	Gaitri Kumari	30/07/2014	07/09/2021
2.	Dr. Amar Nath Jha & Dr. Soumitro Chakravarty	Shreya Patel	25/08/2012	07/12/2021
3.	Dr. Kuntal Mukherjee	SukalyanGoswami	2012	14.08.2021
4.	Dr. Kuntal Mukherjee	Abhishek Bhattacharya	2014	16.08.2021
5.	Dr. P S Bishnu	Ritesh Kumar	28/7/2014	12/02/2022
6.	Dr. SandeepNathSahdeo	Kunal	03/03/2014	24/02/2022

6.4 Other Activity / Events Conducted at Birla Institute of Technology, Off-Campus Lalpur

Events over a period of 1 week were attended by staff members of BITOC, Lalpur on the occasion of "Azadi ka Amrit Mahotsav" which ended on 28th February which is celebrated as 'National Science Day'. The day is remembered as a sign of respect for the contribution of the great scientist Shri CV Raman.



The NSS wing of BIT Lalpur celebrated 'International Women's Day' in the event NAZARIYA with faculty members, students and staff on 10/03/22 under the guidance of Dr. Abhaya Ranjan Srivastava.

NSS Volunteers presented their ideas and views through speech, poetry and songs. The winner of the competition was Muskan and Runner-Up was SaniaSahu of BBA program.

The speakers talked about Women Empowerment and their role in building a just and equitable society.

Smart India Hackathon

Hackathon-2022 an internal presentations was held at the Institution on 25th March 2022 from 10:00 AM to 4 PM. A total of 09 (Nine) groups presented their proposals to the panel of judges. The groups whose presentations were found innovative and up to the mark by the judges were 08 (Eight) in number. They were selected as official entries from the institution's side.





Online Lecture Series organized from 29th January 2022 to 11th April 2022

A number of lecture series were organized for the students with eminent academicians and industry professionals sharing their knowledge and insights. The topics coveredwere AI & Deep Learning, Circular Economy, Big Data and so on.

6.5 Special Covid Initiatives, if any:

Campus has been sanitized on a regular basis to ensure safety of staff and students. Faculty members have been actively spreading awareness related to the needed precautions among public.

BIT Off Campus NOIDA

SECTION 1 CAMPUS PROFILE

1.1 About the Campus:



Birla Institute of Technology, Noida Campus is one of the leading Technical Institutions in the National Capital Region in the State of Uttar Pradesh. Established in the year 1997, the Institution has set bench marks every year, and grown into an Institution of Excellence in Technical Education. Located at the entrance of NOIDA, BIT Noida Campus has become a household name for its excellence in Discipline, Teaching, Training and Placement. Its rich academic tradition has always attracted the most talented students who later on went on to make important contributions to the society.

Facilities Provided

- » In order to nurture effective learning among students, all class rooms are well equipped with AC and LCD Projectors.
- The Institute has a well-stocked library with more than 5000 volumes on various subjects along with latest editions of prescribed

- books, several periodicals, journals and high value books to give the students a winning edge.
- The centre believes in holistic personality development of students providing ample space for their recreational activities like – Canteen, Auditorium, Table Tennis space, and badminton, a centralised college computer centre and fully equipped labs.
- The centre is well equipped with e-journals (Emerald, ProQuest ABI Complete, Pro Quest Dissertations & Thesis, Science Direct), and research software like MATLAB and dedicated internet facility for the research scholars.

Academic Programmes Offered:

Under Graduate Courses:

 Bachelor in Business Administration (BBA) – 3 years

- 2. Bachelor in Computer Applications (BCA) 3 years
- 3. B.Sc. in Animation & Multimedia (BAM)- 3 years

Post Graduate Courses:

- Masters in Business Administration 2 vears
- Masters in Computer Applications 2 years

Ph.D. in Management, Computer Science & Mathematics (Full Time & Part Time)

Department of Computer Science & Engineering

Computer Science Department at BIT Mesra off Campus Noida campus endeavours to be an important regional, national, and international resource center for the development of computing, IT systems and applications. The Department is recognized as one of the leading departments with infrastructure and facilities to match the very best in the country. The department remains committed towards its mission, which is twofold. One is to provide students with the fundamental knowledge and problem-solving skills in Computer Science required for a fulfilling career. The other goal is to create and disseminate knowledge to

improve Computer Science research, education and practice.

Department of Management

The Department of Management was established in the year 1998 with an aim to serve growing need for qualified management professionals and to meet the requirements of the industry in the competitive and dynamic business environment. The department has continuously strived to achieve this aim by maintaining the highest standards in the Undergraduate (BBA), Postgraduate (MBA) and Doctoral Programmes offered by it.

Department of Animation & Multimedia

After Covid times, students of Department of Animation and Multimedia are happy in joining offline classes and are coming up with creative exercises in various subjects like Drawings, Graphics Design, 2D Animation, 3D Modeling and Animation, and Games etc. This year, Department is starting a new skill-based, job-oriented one-year Certificate Programme on Game Design and Development and look forward to having lots of colorful exercises and projects by students. We have also planned to organise events like guest lectures, competitions, seminars, and alumni-interactions etc. for the upliftment of the students.

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	Duration 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	01.01.2020	₹ 16 Lacs	2 years
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	₹ 5.5 Lacs	1 year

Sr. No.	Project Title	PI / Co PI / Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
3.	Role of Women Entrepreneurship in Holistic Empowerment of Women: An Empirical study of Semi-urban and Urban women Entrepreneurs	Dr. Arun Mittal	Indian Council of Social Science Research	12.03.2022	₹ 7.5 Lacs	1 year

b). Consultancy Projects carried out/ongoing

SI. No.	Title of Project	Funding Agency	Dura	ntion	Grant mobilized	Principal Investigator /	Ongoing /
		Agency	from	to	(₹ Lacs)	Co- Investigator	Complet ed*
1.	In-house training on Internal Marketing, Leadership and Communication	Pest Shield India Pvt. Ltd.	25.02.2022	27.02.2022	₹ 50,000/-	Dr. Arun Mittal	Completed

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	FDP on Art of Research Paper writing	Dr. Arun Mittal & Dr. Monika Bisht		07.12.2021
2.	National seminar on Transforming business through uncertain times in the era of Covid-19	Dr. Monika Bisht		08.12.2021
3.	International FDP on Pedagogy development	Dr. Abhishek Singh and Dr. Niket Mehta		09.12.2021
4.	FDP on Business Analytics	Dr. Arun Mittal and Anurag Joshi		13.12.2021 - 14.12.2021
5.	Executive Development Program on Data Science with Data Modeling	Seema Sharma and Muntaha Ahmad		03.04.2022 - 04.04.2022
6.	Executive MDP on Business Simulation	Dr. Arun Mittal	JIMS (Partner)	27.05.2022 - 28.05.2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members:

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Niket Mehta	FDP on Idea Generation	Self	ICT Academy	DAVC College Faridabad	23.06.2022 - 25.06.2022
2.	Dr. Niket Mehta	Training on "Game based Learning"		CIET-NCERT	Online	20.06.2022 - 24.06.2022
3.	Muntaha Ahmad	6-weeks Training on "Data Science"	Self	Internshala Trainings	Online	01.05.2022 - 12.06.2022
4.	Dr. S.L. Gupta & Dr. Monika Bisht	Two-week program on "Entrepreneurship, Incubation & Innovation	Self	EICT Academy and NIT Patna	Online	20.12.2021 – 31.12.2021
5.	Dr. Charu Wahi	1 week ATAL FDP on "Deep Learning"		IIIT Vadodara	Online	13.12.2021 - 17.12.2021
6.	Campus faculties	Design thinking Workshop		BIT Mesra, Off Campus NOIDA	Online	10.12.2021
7.	Campus faculties	One day International FDP on "Teaching Pedagogy"		BIT Mesra, Off Campus NOIDA	Online	09.12.2021
8.	Campus faculties	National Seminar on "Transforming Business through Uncertain times in the Era of COVID-19"		BIT Mesra, Off Campus NOIDA	Online	08.12.2021
9.	Seema Sharma, Sheetal Sehgal	Webinar on "Cloud Infrastructure Foundations"		Oracle Academy	Online	08.12.2021
10.	Campus faculties	Faculty Development Program on "Art of Research Paper"		BIT Mesra, Off Campus NOIDA	Online	07.12.2021
11.	Priti Sharma	Prime Career Mantra on Cyber Security: Cybercrime-proofing, Fastest Growing Career in Today's Job market		NASSCOM and Future Skills Prime	Online	30.11.2021
12.	Sharma	Webinar on "Attended Webinar FutureSkills PRIME Bridge Course in BIG DATA Technology"		CDAC Noida	Online	25.11.2021
13.	Dr. Niket Mehta	FDP on "Emotional Intelligence"		ICT Academy	Online	22.11.2021 - 26.11.2021
14.	Preety Bajaj	Management Development Programme		Jharkhand Govt. Tool	Online	27.09.2021 - 02.10.2021
15.	Dr. Niket Mehta	FDP on "Inculcating Universal Human Values in Technical Education"		AICTE	Online	20.09.2021 - 24.09.2021
16.	Seema Sharma	STTP on "Practicing Cloud Computing with AWS"		Koneru Lakshmaiah Education Foundation	Online	20.09.2021 – 25.09.2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
17.	Partha Acharya	Integrating Theory in Research and Questionnaire Structuring and Validation	Koach Scholar	Koach Scholar	Online	18.09.2021 – 22.09.2021
18.	Sheetal Sehgal	ATAL FDP on "Industrial Applications of Machine Learning and Artificial Intelligence"			Online	06.09.2021 - 10.09.2021
19.	Dr. Smitha Jha	AICTE Sponsored STTP on "Practicing Cloud Computing with AWS"	AICTE	KL College of Engineering	Online	30.08.2021 - 04.09.2021
20.	Aruna Malik	Webinar on "Ethics in AI and BIG Data: Defining the issue, Resolving the problem"		JIO Institute	Online	05.08.2021
21.	Sheetal Sehgal & Priti Sharma	Fundamentals of AI		ICT Academy	Online	02.08.2021 - 06.08.2021
22.	Dr. Charu Wahi	2-week FDP on "Python Programming"	Self	E&ICT Academy	Online	26.07.2021 - 06.08.2021
23.	Aruna Malik	Webinar on "AI & DS: Systems Empowering Humans to manage info better"		JIO Institute	online	15.07.2021

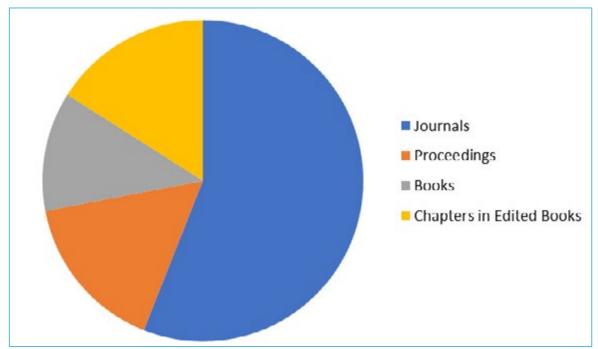
RESEARCH PUBLICATIONS

4.1 Publications in Journals : 15

4.2 Publications in Proceedings : 4

4.3 Books Co-Authored: 3

4.4 Chapter (s) in Edited Book: 4



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. Abhishek Singh	Rashtriya Gaurav Award	Govt. of Maharashtra	State	2022

5.2 Patents

Sr. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Short Description about the patent
1.	Dr. Suparna Dutta & Dr. Niket Mehta	A Method for Mediated Communication	2021107055	2021	
2.	Dr. Arun Mittal	Device to track the customer's footprints in a mall	110908	2022	
3.	Dr. Vibha Kaw Raina	A mobile transaction system for remote area and method thereof	202211000795	2022	
4.	Dr. Charu Wahi, Anurag Joshi, Seema Sharma, Rakesh Singh & Preety Bajaj	Method and system of Security framework for Wireless Sensor Networks	202211001381	2022	
5.	Rakesh Singh & Anurag Joshi	Design of Bulb	356883-001	2022	

5.3 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
1.	Academy of Business and Emerging Markets	Academic Collaboration for MBA & BBA students	2021
2.	NEXTGEN Shopping Pvt Ltd	Academic Collaboration for MCA & BCA students	2021
3.	Sansoftech Services Private Ltd.	Academic Collaboration for MCA & BCA students	2021
4.	Nouveau Labs	Academic Collaboration for MCA, MBA, BCA & BBAstudents	2021
5.	United Facilities & Logistics Private Ltd.	Academic Collaboration for MCA, MBA, BCA & BBAstudents	2021
6.	Monotech Engineers Pvt Ltd.	Academic Collaborations for MCA & BCA students	2021

Sr. I	No. Name of Organisation / University	Purpose / Area/Short Description	Year / Duration
7.	7. Daddy3d.com	Academic Collaborations for B.Sc. (A&M) Students	2022
8	3. Gamitronics Studios Pvt. Ltd.	Academic Collaborations for B.Sc. (A&M) Students	2022

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.	Research Talk Series-7: Deep Learning models and their applications		Dr. Smita Jha	27.06.2022
2.	Research Talk Series-6: Mesmerising world of Journals: An insight into Indexing, Predatory and Cloned Journals		Dr. Smita Jha	23.05.2022
3.	Industrial visit to Digitoonz Animation Studio for BAM students		T&P department	21.05.2022
4.	Research Scholars Day		Dr. B. B. Sagar	20.05.2022
5.	Farewell	Annie, Koyana, Manas, Nakul, Prameet & Ritika	Cultural Committee	13.05.2022
6.	Research Talk Series-5: Qualitative Research Methods		Dr. Smita Jha	25.04.2022
7.	Workshop on Case Writing analysis		Dr. Monika Bisht and Preety Bajaj	16.04.2022
8.	Prize Distribution Ceremony		Cultural Committee	11.04.2022
9.	Sports Day	Alisha, Sarthak	Umair Ujala and Sheetal Sehgal	30.03.2022 - 31.03.2022
10.	Cultural Fest: Udbhav	Mink, Sukriti, Alisha, Prashant, Aditya, Karthik, Samhita, Soumya	Cultural Committee	29.03.2022
11.	Lecture on "Financial and Investment awareness"		Dr. Arun Mittal	28.03.2022
12.	Lecture on "Psychological well being"		Rachana Pratik	24.03.2022
13.	Research Talk Series-4: Sampling Tools and Techniques		Dr. Smita Jha	22.03.2022

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
14.	Matribhasha Diwas	Prashant and Annie	Pramila Joshi and Dr. Niket Mehta	22.03.2022
15.	Lecture on "Artificial Intelligence and its Role in our Daily lives"		Dr. Monika Bisht	11.03.2022
16.	Lecture on "Manager to leader: Success mantras"		Dr. Monika Bisht	11.03.2022
17.	Research Talk Series-3: Guidance for Quality Publications		Dr. Smita Jha	05.03.2022
18.	Lecture on "Legalities, Securities and Funding Opportunities in Startups & Entrepreneurship"		E-Cell	04.03.2022
19.	Alumni Talk Series: Career in Digital Illustration		A&M department	25.02.2022
20.	Alumni Talk Series: Career in VFX and Post Production		A&M department	18.02.2022
21.	Alumni Talk Series: Understanding OTT Platforms		A&M department	12.02.2022
22.	Webinar on "Sensitization of students to Entrepreneurship"		E-Cell	11.02.2022
23.	Alumni Talk Series: UI/UX designing as a career		A&M department	05.02.2022
24.	BIT Techwiz	Prashant, Osman, Ayush and Yash	IT Club	28.01.2022
25.	Research Talk Series-1: Carrying out effective literature review for review papers and doctoral research	Kriti Poddar	Dr. Smita Jha	27.01.2022
26.	Republic Day Celebration	Prashant and Annie	Pramila Joshi and Dr. Niket Mehta	25.01.2022
27.	Webinar on "Career counselling for all government jobs"		Dr. Abhishek Singh	25.01.2022
28.	Webinar on "Menstrual Hygiene"		Pramila Joshi and Dr. Niket Mehta	21.01.2022
29.	Webinar on "Kickstart your Business start-up"		E-Cell	17.01.2022
30.	Webinar on "Ayurvedic lifestyle for Optimal Health and Well Being"		Pramila Joshi and Dr. Niket Mehta	14.01.2022

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
31.	Academia Industry Meet 2022		Dr. Abhishek Singh, Dr. Monika Bisht, Muntaha Ahmad and Partha Acharya	05.01.2022 - 11.01.2022
32.	Webinar on "New Education Policy"		Rachana Pratik	27.12.2021
33.	Webinar on "Cancer Prevention & Palliative Care"		Dr. Abhishek Singh	24.12.2021
34.	Workshop on Design Thinking & Innovation		Pramila Joshi and Dr. Niket Mehta	10.12.2021
35.	Elocution competition		Rachana Pratik	28.10.2021
36.	Webinar on "Emerging Trends & Challenges in Cyber Security"		Priti Sharma	27.10.2021
37.	Webinar on "Entrepreneurship"		E-Cell	21.10.2021
38.	Orientation programme for UG students		Academic Coordinators	20.10.2021
39.	Webinar on "Digital Marketing, Creativity & Innovation"		Dr. Abhishek Singh	08.10.2021
40.	Webinar on "Double Taxation"		Dr. Abhishek Singh	04.10.2021
41.	Webinar on "The Structure of a Research Paper"		Dr. Arun Mittal	02.10.2021
42.	Webinar on "Real-time Data Analytics-II"		Dr. Abhishek Singh	25.09.2021
43.	Webinar on "Real-time Data Analytics-I"		Anurag Joshi & Seema Sharma	24.09.2021
44.	Tour to Kiran Nadar Museum of Arts		Dr. Niket Mehta	17.09.2021
45.	Webinar on "Mendeley for Researchers"		Dr.Arun Mittal and Dr. Niket Mehta	17.09.2021
46.	Webinar on "Artificial Intelligence"		Dr. Abhishek Singh	14.09.2021
47.	Webinar on "Stress Management"		Anurag Joshi	10.09.2021
48.	Webinar on "Game Design"		Dr. Niket Mehta	09.09.2021
49.	Webinar on "Internet of Things"		Dr. Vibha Kaw Raina	03.09.2021
50.	Webinar on "Campus to Corporate"		Dr. Abhishek Singh	31.08.2021

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
51.	Webinar on "Objective Wise Analysis"		Dr. Arun Mittal	27.08.2021
52.	Webinar on "How to do well in Group Discussion"		Dr. Abhishek Singh	26.08.2021
53.	Farewell		Pramila Joshi and Dr. Charu Wahi	10.07.2021

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Dr. S. L. Gupta	Professor & Director
2.	Dr. (Mrs.) Asha Prasad	Professor
3.	Dr. (Mrs.) Vandna Sharma	Associate Professor
4.	Dr. (Mrs.) Meenakshi Sharma	Associate Professor
5.	Mrs. Rachana Pratik	Assistant Professor
6.	Ms. Harpreet Charanjit	Assistant Professor
7.	Mrs. Preety Bajaj	Assistant Professor
8.	Dr. Arun Mittal	Assistant Professor
9.	Dr. (Ms.) Monika Bisht	Assistant Professor
10.	Dr. Abhishek Singh	Assistant Professor
11.	Dr. (Mrs.) Suparna Dutta	Associate Professor
12.	Mrs. Sadhu Mallika	Assistant Professor
13.	Dr. (Mrs.) Ila Sahay Dayal	Associate Professor
14.	Mr. Anil Kumar	Assistant Professor
15.	Mrs. Mrinalini Mehta	Assistant Professor
16.	Dr. (Mrs.) Vibha Kaw Raina	Assistant Professor
17.	Mrs. Soma Sircar Dasgupta	Assistant Professor
18.	Mr. Aruna Malik	Assistant Professor
19.	Mrs. Sheetal Sehgal	Assistant Professor
20.	Mrs. Pramila Joshi	Assistant Professor
21.	Mrs. Muntaha Ahmad	Assistant Professor
22.	Dr. (Mrs.) Smitha Jha	Assistant Professor
23.	Mr. Anurag Joshi	Assistant Professor
24.	Mrs. Priti Sharma	Assistant Professor
25.	Dr. (Ms.) Charu Wahi	Assistant Professor
26.	Mrs. Seema Sharma	Assistant Professor

27.	Dr. Bharat Bhushan Sagar	Assistant Professor
28.	Mr. Umair Ujala	Assistant Professor
29.	Mr. Sanjay Kumar	Assistant Professor
30.	Dr. (Mrs.) Swati Prasad	Assistant Professor
31.	Mr. Rakesh Singh	Associate Lecturer
32.	Dr. Niket Mehta	Assistant Professor
33.	Mr. Partha Acharya	Assistant Professor
34.	Mr. Kiran Ashok Shetti	Sr. Animation Trainer
35.	Mr. Lalit Mohan Bhatt	Editor
36.	Mr. Rahul Dora	Tech. Superintendent
37.	Mr. Obed Horpam Longvah	Cinematographer
38.	Mr. Manoj Kumar	Animator

6.3 List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Mr. Ashok Kumar	Visiting Faculty	Visiting Faculty, Delhi University

6.4 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	HOD CSE, BIT Mesra	HOD	Chairman
2.	Director, BIT Jaipur Campus	Director	Internal
3.	Director, BIT Noida Campus	Director	Internal
4.	Dr. Madhvi Sinha	Associate Professor & In charge- Computer Science Dept. BIT Mesra, Jaipur Campus	Internal
5.	Dr. Vibhuti Pandya	Assistant Professor & In charge- Animation & Multimedia Dept. BIT Mesra, Jaipur Campus	Internal
6.	Ms. Soma Sircar Dasgupta	Assistant Professor & Coordinator, A&M Dept. BIT Noida	Internal
7.	Mr. Lalit Mohan Bhatt	Faculty & Associate Coordinator, A&M Dept. BIT Noida	Internal
8.	Dr. Niket Mehta	Assistant Professor- Animation & Multimedia Dept. BIT Mesra, Noida Campus	Internal
9.	Mr. Gautam Kumar Goswami	Assistant Professor – Animation & Multimedia Dept. BIT Mesra, Jaipur Campus	Internal
10.	Prof. Chinmay Mehta	Retd. Prof. & Dean- Faculty of Fine Arts, Rajasthan University, Jaipur	External

Sr. No.	Name of the Member	Designation	Role
11.	Mr. Chandra Shekher	New Delhi	External
12.	Mr. Praveen Chrispugg	Creative Director, Idea Heavens Studios, Chennai	External
13.	Mr.Sandeep Nandi	New Delhi	External
14.	Mr. Rajiv Chilaka	Founder, Green Gold Animation Pvt. Ltd.	External
15.	Mr. Ajay Joshi	Former Consultant of Animation & Multimedia Dept. BIT Noida and Jaipur Campus	External

SECTION 7 OTHER INFORMATION

7.1 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Nimisha Archana	Special Mention in International Yoga Day competition	Cognifront	21.06.2022
2.	Saswata Dutta	Won top prize in the 3D Designing Competition	3D content platform Daddy 3D	24.3.2022
3.	Debangana Bose	Video competition organised on World Happiness Day	BIT Noida	20.3.2022

7.2 Distinguished Visitors from Industry/Academia/Research organizations

Sr. No	Name of Visitor with Affiliation	Date of Visit	Picture
1.	Dr. Deepak Yadav Safdarjung Hospital, Delhi	22.02.2022	प्रौद्योगिकी थान नोएडा परिसर प्रोह गपका स्वागत नेथि: डॉ र्द

2.	Dr. Satyendra Singh Professor University of Winnipeg, Canada	07.12.2021	
3.	Dr. Pradeep K. Arora Senior Advisor, NIESBUD	04.03.2022	FF-ANK YOU Tax and the second of the second
4.	Dr. Aparna Sharma AIIMS	08.03.2022	Rel

5.	Ms. Geetika Kakkar Specialist Trade Marketing WACOM	08.03.2022	a ji हा B tur n
6.	Ms. Akanksha Sood Wildlife Photographer	08.03.2022	
7.	Ms. Junahi Rattan Performing Artist	08.03.2022	रला जिंगिर्क rla Ingala tensi



Ms. Seema Dhaka 8. 08.03.2022 ASI, Delhi Police 9. Dr. Sapna Rakesh 08.03.2022 G.L. Bajaj ITM 10. Dr. Pramod Kumar Verma 28.03.2022 Director, Economic Development Trust जागरूकता कार्यक्रम Financial Education

11.	Prof. (Dr.) Dhananjay Joshi VC, Delhi Teachers University	11.04.2022	
12.	Prof. (Dr.) P.K. Sharma Principal, Dayal Singh College	11.04.2022	
13.	Dr. Deepak Behl Director, Park Hotels	11.05.2022	
14.	Dr. Nripendra Singh PennWest University Clarion, USA	27.05.2022	

7.3 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Vaibhav Gautam BAM 2006–09 Founder, Graphics Destination	Vaibhav Gautam, who graduated from BIT Noida in 2009, started his career by working for an organization for about two months and he began pursuing his dream thereof. He began working as a freelancer. Slowly and gradually, he built his own team and by 2014 he registered his own firm. He is the founder of Graphics Destination, company caters different kinds of advertising activities. Currently running successfully with a team of 20 members, based at RDC Raj Nagar, Ghaziabad.
2.	Tanoy Das BAM 2009–12 Art Director, Digital Apple	Tanoy graduated from B.Sc. (Animation and Multimedia) and has had about 7 years of brilliant and varied work roles. He was a promo designer for WACOM among other things. Presently he is working as an Art director at Digital Apple, Gurgaon. He manages and leads his team of designers through a lot of exciting assignments. Tanoy is also a fine illustrator and dabbles in comic books, as an illustrator and planner.
3.	Vidya BCA 1998-01, MCA 2001-04 Capgemini	Vidya is currently working with Capgemini. Prior to the current organization, she has worked with Royal Bank of Scotland, STMicroelectronics.
4.	Poonam Jain MCA 2006-09	After completing MCA, she joined Aricent Technologies as Software Engineer. She received "Excellence Award" within 6 months of joining. Later, she moved to Naukri.com and Adobe. Currently, she is working in a Germany company.
5.	Akshara Seth BBA 2006-09	She started her journey at Tata Tele services. In order to develop a purpose-oriented life, she went on to pursue a Happiness Coach from the University of California, Berkeley. She takes sessions impacting 1 Lac people and was also awarded the Outstanding Women of the Year 2021 by Global Trainers Coaches Counsellors Organisation.

7.4 Any other relevant information

a) Placement details:

Discipline	Branch	Total No. of Students	Placed	Minimum Salary	Maximum Salary
Management	MBA	27	26	3.5 LAC	7 LAC
Computer Science	MCA	27	18	3.6 LAC	11.4 LAC
Computer Science	M.Tech	03	03	6.7 LAC	10 LAC

b) Ph.D. Degree awarded to

Mr. Satvik Vats, (Roll No. PhD/CS/10057/16) on the topic "Designing a Platform Independent Model for Big Data Analytic", on 06.10.2021

C) An editorial team

Comprising of Dr. Charu Wahi (Editor), Mrs. Preety Bajaj and Dr. Niket Mehta with student representative Rishabh Kumar Chaudhary designed and published two editions of college Newsletter "BIT Fusion". Sukriti Bhatt was also a member of the 1st edition.

BIT Off Campus Patna

SECTION 1 PROFILE

1.1 About the 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 06 disciplines, namely EEE, ECE, CSE, IT, MECHANICAL & CIVIL Engineering. The total intake capacity of B.Tech. programme is 300, in which 50% seats are reserved for the HOME STATE (Bihar).

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.





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	Duration of the Project
1.	Role of Microstructure and interface Strain engineering in Magneto-Electric Properties of PFN/ CZFMO Composite	PI- P.Kour	UGC-DAE CSR	04.04.2022	45000	01
2.	Investigation of the forming behaviour of high strength thermal resistant (HSTR) Metals/alloys through incremental sheet metal forming	Dr. Manish Oraon	SERB	14 March 2022	5254194	36 Months

b) Consultancy Projects carried out/ongoing:.

sl.		Title of Project	Funding	Duration		Grant	Principal	Ongoing
1	No.		Agency	from	to	mobilized (₹ Lacs)	Investigator / Co- Investigator	Complet ed*
	1.	Test for Cement (Ultratech PPC)	Mundeshwari Multicon Private Limited	21/10/2021	27/01/2022	0.40	Dr. Anish	Completed on 27/01/2022

SI. No.	Title of Project	Funding Agency	Dura from	to	Grant mobilized (₹ Lacs)	Principal Investigator / Co- Investigator	Ongoing / Complet ed*
2.	Crushing Strength of Concrete Cubes	Mundeshwari Multicon Private Limited	21/10/2021	03/11/2021	0.0236	Dr. Anish	Completed on 03/11/2021
3.	Compressive Strength of Concrete for three sets	Mundeshwari Multicon Private Limited	03/11/2021	29/11/2021	0.0708	Dr. Anish	Completed on 29/11/2021
4.	Test of stone chips 20 mm, 10 mm, sand and water	Mundeshwari Multicon Private Limited	17/11/2021	27/01/2022	0.63189	Dr. Anish, Dr. Angshuman Mandal and Mrs. Bandana Mahto	Completed on 27/01/2022
5.	Test of Coarse aggregates	Jyoti Construction & Engineering Private Limited	04/03/2022	21/03/2022	0.26550	Dr. Anish	Completed on 21/03/2022
6.	Test results for compressive strength test of the paver blocks	Birla Institute of Technology Mesra, Off Campus Patna	07/03/2022	14/03/2022	NA	Dr. Angshuman Mandal	Completed on 14/03/2022

SECTION 3

SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	"Global Innovations and Best Practices in Affordable Housing" under the theme "Inclusive Housing".	Dr Anamika Nandan	Municipal Administration, Urban Development & Housing Department, Government of Bihar	29 th September 2021
2.	International conference on Sustainability: Research, Education & Practices (organised by Dept. of Management, BIT Mesra in association with Dept of Management, Jaipur, Lalpur, Noida & Patna Campuses)	Dr. Shraddha Shivani	BIT Mesra	30 th – 31 st May 2022
3.	Essential practices in electrical distribution network	Dr. Mayank Singh & Dr. M. A. Hasan	Infimind Private Limited	14 th April 2022

3.2 Conferences/ Seminars/ Workshops/ Staff Development Programmes attended by

Faculty Members

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Ritesh Kumar Badhai	Digital Tools for Writing, Authoring and Reviewing Manuscripts	NA	Electronics & ICT Academies IIT Guwahati, NIT Patna, MNIT Jaipur, IIT Kanpur, IIITDM Jabalpur & IIT Roorkee	Online	12 th – 23 rd July 2021
2.	Dr. Nilay Pandey	Hyperspectral imaging: Introduction & challenges in Feld, Airborne application	NA	SINSIL International Pvt Ltd and Resonon HyperSpectral Imaging Solutions	Online	15 th May 2022
3.	Dr. Anish	e-faculty Development Programme on "Deterioration, diagnosis and Rehabilitation of RC Structures.	NA	Civil Engineering Department at BIT Sindri, Dhanbad	Civil Engineering Department at BIT Sindri, Dhanbad	25 th - 29 th Oct 2021
4.	Dr Anamika Nandan	Certificate Course on Introduction of Archaeology	Govt of Bihar	Bihar Museum	Online	7 th May – 31 st July 2022
5.	Dr Satyoki Sarkar	Short Term Training Program, "Techniques of Design, Analysis and Retrofitting of Skyscrapers"	BIT MESRA, Ranchi	Department of Architecture & Planning, BIT MESRA, Ranchi	Online	13 th – 17 th December 2021
6.	Ashutosh Kumar	Short Term Training Program "Techniques of Design, Analysis and Retrofitting of Skyscrapers"	BIT MESRA, Ranchi	Department of Architecture & Planning, BIT MESRA, Ranchi	Online	13 th – 17 th December 2021
7.	Ashutosh Kumar	"Integrating wetland technology as Landscape design Intervention for sustainable built environment"	N/A	ISERS. 8 th GoGreen Summit	Bali, Indonesia	01 st – 03 rd June 2022

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
8.	Dr. Ashish Mohan Dubey	12th Conference on Excellence in Research and Education,	IIM	Indian Institute of Management, Indore	IIM Indore	03 rd - 05 th June 2022
9.	Dr. Ashish Mohan Dubey	International Conference on Sustainability: Research, Education and Practice,	NA	Dept. of Management, BIT Mesra, Jaipur, Lalpur, Noida, Patna	BIT Mesra	30 th – 31 st May 2022
10.	Dr. Sushil Kumar	International conference on Sustainability: Research, Education & Practices	NA	Dept. of Management, BIT Mesra, Jaipur, Lalpur, Noida, Patna	BIT Mesra	30 th - 31 st May 2022
11.	Dr. Sohini Ghosh	International conference on Sustainability: Research, Education & Practices	NA	Dept. of Management, BIT Mesra, Jaipur, Lalpur, Noida, Patna	BIT Mesra	30 th - 31 st May 2022
12.	Dr. Sunil Kumar Pandey	Inculcating Human Values in Technical Education	AICTE	AICTE	Online FDP/ Organized by/ AICTE	28 th June – 2 nd July 2021
13.	Dr. Sunil Kumar Pandey	Training program on IP Awareness	Government of India, Ministry of Commerce and Industry. (NIPAM)	Government of India, Ministry of Commerce and Industry. (NIPAM)	Online FDP/ Google Meet.	28 th April 2022.
14.	Dr. Sunil Kumar Pandey	International Conference on Sustainability Research Education and Practice."	NA	Dept. of Management, BIT Mesra, Jaipur, Lalpur, Noida, Patna	BIT Mesra	30 th - 31 st May 2022
15.	Dr. Soumen Mandal	INTERNATIONAL CONFERENCE ON ADDITIVE MANUFACTURING AND ALLIED TECHNOLOGIES	Sponsored by Ministry of Education India Under the Scheme for Promotion of Academic and Research Collaboration (SPARC) Programme	NIT Trichi	NIT Trichi and Online	10 th – 11 th June 2022



Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
16.	Dr. Amit Kumar	Third International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021)		Department of Mechanical Engineering, D Y Patil College of Engineering and Technology, Kolhapur, Maharastra, India	D Y Patil College of Engineering and Technology, Kolhapur, Maharastra, India	25 th – 26 th Nov 2021
17.	Dr. Amit Kumar	Second International Conference on Advances in Physical Sciences and Materials (ICAPSM 2021)		Department of Mechatronics, SNS College of Technology, Coimbatore, Tamil Nadu, India	SNS College of Technology, Coimbatore, Tamil Nadu, India	12 th – 13 th Aug 2021
18.	Dr. Amit Kumar	International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (iCATCHCOME2022)		KPR Institute of Engineering & Technology, Coimbatore, Tamil Nadu, India	KPR Institute of Engineering & Technology, Coimbatore, Tamil Nadu, India	24 th – 25 th March 2022
19.	Dr. S.K. Pradhan	PRIME-2021International conference	BIT Mesra	NIT Patna	NIT Patna	05 th - 07 th August 2021
20.	Manish Oraon	International Conference on Applied Research and Engineering (ICARAE 2021)	BIT Mesra	Department of Mechanical Engineering, Cape Peninsula University of Technology, Cape Town	Online	26 th – 28 th November 2021
21.	Manish Oraon,	International Conference on Aspects of Materials of Materials Science and Engineering (ICAMSE 2021),	BIT Mesra	PTU Chandigarh,	Online	05 th - 06 th Dec 2021
22.	Dr. Md Asif Hasan	UGC sponsored 28 days faculty induction program	UGC	HRDC Jadavpur University	Jadavpur University	3 rd Jan – 9 th Feb 2022

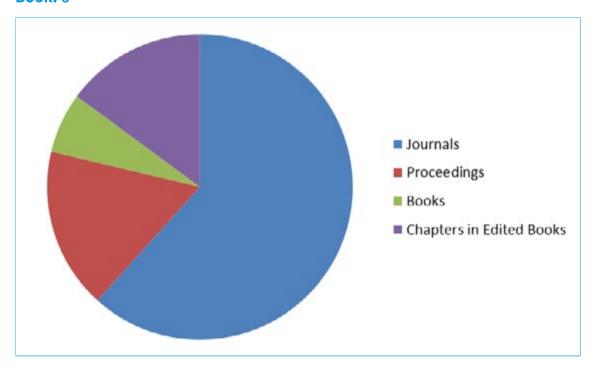
Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
23.	Dr. Shradha Kishor	International Conference on Smart Technologies for Power and Green Energy (STPGE 2022)	BIT PATNA	KIIT, Bhubaneswar	KIIT, Bhubaneswar	12 th – 13 th February 2022
24.	Dr. Adhishree	Faculty Induction Programme		HRDC University of Mumbai	Online	16 th May – 16 th June 2022
25.	Dr S S Yadav	Development program for Faculty physical education Trainers / Sports - Games Teachers / Director of Sports from 07/03/2022 to 20/03/2022 organized by AICTE, New Delhi at NBKRIST, Nelore, A.P. (Two weeks).	AICTE	NBKRIST, Nelore, A.P. (Two weak)	NBKRIST, Nelore, A.P. (Two weak)	07 th – 20 th March 2022

SECTION 4

RESEARCH PUBLICATIONS

4.1 Publications in Journals: 29

4.3 Book: 3



4.3 Chapter(s) in Edited Book:7

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.S.K.Pradhan	Best paper presentation in PRIME-2021 Int. conf.	NIT Patna	International Level	2021
2.	Dr. Nidhi Mishra	Senior Member IEEE	IEEE	International	2022

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.	Dr. Sunil Kumar Pandey.	Title of invention: A SYSTEM AND A METHOD FOR E-COMMERCE EPIDEMIC MODELS	Patent number: 2021104529	Date Of Patent: 13.04.2022.	An analysis to depict cyber frauds in the era of Cyber consumerism

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.	Xordium -2022 (Technical fest organized by Technical club: Electronics and communication)	Mr. Abhinav Ark	Dr. Ritesh Kumar Badhai	21 st – 23 rd Jan 2022
2.	Internal Smart India Hackathon (SIH2022)	Mr. Abhinav Ark	Dr. Ritesh Kumar Badhai	12 th March 2022
3.	International Women's Day	Abhishek Datta	Dr. Anish	08 th March 2022
4.	Farewell of Prof. (Dr.) Balram Singh Sir	Saurav Kumar Sinha	Dr. Anish	05 th March 2022

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
5.	Spring Fling 2022 'Fun Event'	Mahi Sharan Priyanshu Kumar Himanshu Raj Subhanshu Raj	Dr. Anish	15 th Jan 2022
6.	'Humaare Ahinsak Baapu' An event on Gandhi Jayanti	Mahi Sharan MD. Sujaat Shoukat Swayam Bhaskar	Dr. Anish	02 nd Oct 2021
7.	'Ek Shaam Rushad Sir ke Naam' A teacher's day event.	MD. Sujaat Shoukat Dheeraj Kumar Mahto Nilesh Yamal	Dr. Anish	05 th Sep 2021
8.	'Edifice 2021' A three days event organized by the students	Dheeraj Kumar Mahto Aditya Swayam Bhaskar MD. Sujaat Shoukat Nilesh Yamal	Dr. Anish	Form 13 th – 15 th Aug 2021
9.	Establishment of IGBC (Indian Green Building Council) Student's Chapter	-	Dr Anamika Nandan	29 th May 2022
10.	Webinar: Grid modernization Guest: John D Donald (IEEE Fellow	Kunal Shankar	Dr.Mayank Singh	23 rd Oct 2021
11.	Webinar: start up culture and innovation Guest: Prem Prabhat (MD- Amplitech Automations)	Yashasvini, Kunal	Dr.Mayank Singh	06 th Oct 2021
12.	Webinar: UPSC Engineering services exam Guest: Saurabh Raj (AIR 34 UPSC ESE 2020,BIT Patna EEE alumni)	Kunal Shankar, Priyadarshi Anand	Dr. Mayank Singh & Dr. Md. Asif Hasan	25 th Sep 2021
13.	Webinar: Higher Education opportunities abroad Guest: – SHREYA KUMAR (MS from Arizona, BIT Patna EEE alumni)	Yashasvini	Dr. Mayank Singh & Dr. Shradha Kishore	11 th Sep 2021

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
14.	Webinar: Grid modernization Guest: John D Donald (IEEE Fellow	Kunal Shankar	Dr.Mayank Singh	23 rd Oct 2021
15.	Patriotic Run	-	Dr S S Yadav	26 th Jan 2022 11.30 am.
16.	Sun Salutation	-	Dr S S Yadav	14 th Jan 2022 08.00 am.
17.	Indoor Game Tournament (Badminton, Table Tennis, Chess And Carrom)	•	Dr S S Yadav	25 th - 27 th Feb 2022
18.	Annual Athletic Meet 2021 – 2022	Abhishek Kumar	Dr S S Yadav	28 th – 30 th March 2022
19.	Fit India Freedom Run 2,0 Km.	-	Dr S S Yadav	24 th Sep 2021

6.2 List of Faculties

Sr. No.	Name	Designation
1.	Prof. (Dr.) Arbind Kumar	Professor & Director
2.	Dr. Anamika Nandan	Assistant Professor
3.	Ar. Ashutosh Kumar	Assistant Professor
4.	Ar. Nitish Chandra	Assistant Professor
5.	Dr. Kaushlendra Sharma	Assistant Professor
6.	Dr. Anubha Singh	Assistant Professor
7.	Dr. Anish	Assistant Professor
8.	Ms. Bandana Mahto	Assistant Professor
9.	Dr. Angshuman Mandal	Assistant Professor
10.	Dr. Bishwas Narayan Singh	Associate Lecturer
11.	Dr. Kanhaiya Lal	Assistant Professor
12.	Mr. Sujit Kumar Chatterjee	Assistant Professor
13.	Mr. Subho Chaudhuri	Associate Professer
14.	Dr. Sheel Shalini	Assistant Professor
15.	Dr. Ravi Shanker Pandey	Assistant Professor
16.	Dr. Subhash Chandra Pandey	Assistant Professor
17.	Dr. Ajit Kumar Keshri	Assistant Professor
18.	Dr. Ratnesh Mishra	Assistant Professor

Sr. No.	Name	Designation
19.	Mr. Shridhar Kumar	Assistant Professor
20.	Dr. Upendra Kumar	Assistant Professor
21.	Dr. Ayan Kumar Das	Assistant Professor
22.	Dr. Amit Prakash	Assistant Professor
23.	Mr. Madhup Kumar	Associate Lecturer
24.	Mr. Adnan Mahmood	Associate Lecturer
25.	Dr. Mayank Singh	Assistant Professor
26.	Mr. Sanjay Kumar	Assistant Professor
27.	Mr. Raj Kumar Mishra	Assistant Professor
28.	Dr. Kumar Nikhil	Assistant Professor
29.	Dr. Shradha Kishore	Assistant Professor
30.	Dr. Asif Hasan	Assistant Professor
31.	Dr. Adhishree	Assistant Professor
32.	Dr. Nidhi Mishra	Assistant Professor
33.	Dr. Ritesh Kumar Badhai	Assistant Professor
34.	Dr. Shahiruddin	Assistant Professor
35.	Dr. Megha Dadel	Assistant Professor
36.	Dr. Shipra	Assistant Professor
37.	Dr. Atul Kumar Pandey	Assistant Professor
38.	Dr. Sweta Kumari	Assistant Professor
39.	Dr. Priyadarshi Suraj	Assistant Professor
40.	Mr. Rajeev Ranjan	Assistant Professor
41.	Dr. Nilay Ranjan	Assistant Professor
42.	Dr. Adhip Kumar Mahanty	Assistant Professor (Sr. Grade)
43.	Dr. Vijay Agarwal	Associate Professer
44.	Dr. Iftekhar Ahmad	Assistant Professor (Sr. Grade)
45.	Dr. Sweta	Assistant Professor
46.	Dr. Ashish Mohan Dubey	Assistant Professor (Sr. Grade)
47.	Dr. Sohini Ghosh	Assistant Professor
48.	Dr. Amit Raghuvanshi	Assistant Professor
49.	Dr. Sunil Kumar Pandey	Assistant Professor (Sr. Grade)
50.	Dr. Sushil Kumar	Asst. Professor
51.	Mr. Sultan Khan	Asst. Professor
52.	Dr. Prakash Chandra Srivastava	Assistant Professor
53.	Dr. Premlata Singh	Assistant Professor
54.	Mr. Girish Pathak	Assistant Professor
55.	Dr. Anand Kumar	Assistant Professor

Sr. No.	Name	Designation
56.	Dr. Sudipta Kishore Pradhan	Assistant Professor
57.	Dr. Soumen Mandal	Assistant Professor
58.	Dr. Chandan Kumar	Assistant Professor
59.	Dr. Ravi Shankar Anand	Assistant Professor
60.	Dr. Amit Kumar	Assistant Professor
61.	Mr. Vijay Kumar Mandal	Associate Lecturer
62.	Dr. Sanjay Kumar Sinha	Associate Professer
63.	Dr. Binay Bhushan	Assistant Professor
64.	Dr. Kamala Pati Tiwary	Assistant Professor
65.	Dr. Paramjit Kour	Assistant Professor
66.	Prof. (Dr.) Shree Prakash Lal	Professor
67.	Mr. Kapil Deo Prasad	Assistant Professor
68.	Dr. Manish Oraon	Assistant Professor
69.	Dr. Prashant Prakash	Assistant Professor
70.	Mr. Thakur Abhinav Amar	Assistant Professor
71.	Dr. Suresh Singh Yadav	Associate Lecturer

List of Adjunct Faculties

Sr. No.	Name	Designation	Affiliation
1.	Dr. Garima Dubey	Visiting Faculty	NA
2.	Mr. R.A.Khan	Visiting Faculty	NA
3.	Mrs. Shalini Agarwal	Visiting Faculty	NA

SECTION 7 OTHER INFORMATION

7.1 Publication by students, if any

Publications in Proceedings: (International/National)

- 1. **Bhardwaj Nitish,** Singh Mayank, «Achieving Cost Benefit Using Fuzzy Logic Based Charging Schemes for Electric Vehicles. In: 2nd IEEE International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET) 2022, 24-25 June 2022, NIT Patna (**Presented**)
- 2. **Aishwarya Gupta**, Vivek Nirala, Ananya Jha, Mayank Singh, S K Choubey, K Sharma and K. P Tiwary" Photocatalytic degradation of methyl orange dye using Mn doped CdS nanoparticles synthesized by microwave method", CAMSE2022 (Congress on Advances in Mechanical and Systems Engineering) (Accepted)

7.2 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	Harsit Naman (BTECH/15253/18)	Selected for Higher study (PhD) in Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, USA.	Purdue University, West Lafayette, Indiana, USA.	May 2022
2.	Abhishek Dutta (BTECH/15266/18) Harsh Vardhan (BTECH/15258/18) Pratiksha Ray (BTECH/15151/19)	Selected in "Concept design competition of Area 200 sqm for Eco. Tourism Hut with Car parking, Garden area with solar Panels"	Ministry of Tourism	06/04/2022 Birla Institute of Technology off campus Patna
3.	Mahi Sharan (BTECH/15070/20)	1 st position in EXTEMPORE		
4.	Prem Ranjan (BTECH/15064/20)	1 st position in ARCHITECTURAL DESIGN		
5.	Harsh Anand (BTECH/15063/20)	1 st position in POSTER PRESENTATION		
6.	Mahi Sharan (BTECH/15070/20)	1 st position in ARTICLE WRITING		13/08/2021 -
7.	Vishal (BTECH/15045/18)	1 st position in CHORD BATTLE	Civil Engineering	15/08/2021
8.	Mahi Sharan (BTECH/15070/20)	1st position in DEBATE	Society (EDIFICE 2021)	Birla Institute of Technology Off
9.	Saurav Kumar Sinha (BTECH/15169/18)	1st position in LOGO-FICE	Civil Engineering Society (EDIFICE 2021)	campus Patna 13/08/2021 –
10.	Himanshu Raj (BTECH/15071/20)	1 st position in SPELL BEE	(EDIFICE 2021)	15/08/2021 Birla Institute of
11.	MD. Farhad (BTECH/15078/20)	1 st position in SVADHAYAYA COVER DESIGN		Technology Off campus Patna
12.	Himanshu Raj (BTECH/15071/20)	1 st position in SVADHAYAYA COVER DESIGN		
13.	Ayush Kumar Chaudhary (BTECH/15075/20)	1 st position in TREASURE HUNT (A group event)		
14.	MD Farhad (BTECH/15078/20)			
15.	Mohit Kumar (BTECH/15055/20)			
16.	Sweta Sharma (BTECH/15084/19)	Treasurer	Civil engineering society, Birla Institute of Technology off-Campus Patna (CES/BITP).	25-07-2021 onwards at BIT Patna
17.	Sweta Sharma (BTECH/15084/19)	Scholarship for B-Tech	Concentrix and Lotus Petal Foundation	For Academic Session 2019- 2023.

Sr. No	Name of Student	Achievement/Position/	Organised by	Date and Venue
		Award etc		
18.	Abhijeet Gaurav (BTECH/15061/20)	1 st Team position (CAMP) in Basketball Inter-branch tournament	Birla Institute of Technology Off campus Patna	26/03/2022 Birla Institute of Technology Off campus Patna
19.	Priyanshu Kumar	2 nd position in		
20.	(BTECH/15065/20) Harsh Anand (BTECH/15063/20)	ARCHITECTURAL DESIGN 2 nd position in ARTICLE WRITING		
21.	Subhanshu Raj (BTECH/15072/20)	2 nd position in CHORD BATTLE		
22.	Priyanshu Kumar (BTECH/15065/20)	2 nd position in DEBATE		
23.	Dheeraj Kumar Mahto (BTECH/15001/20)	2 nd position in EXTEMPORE		
24.	Sumit Kumar (BTECH/15238/20)	2 nd position in POSTER PRESENTATION		
25.	Mahi Sharan (BTECH/15070/20)	2 nd position in SPELL BEE		17 /00 /0001
26.	Priyanshu Kumar (BTECH/15065/20)	2 nd position in SVADHAYAYA COVER DESIGN	Civil Engineering	13/08/2021 - 15/08/2021
27.	Arya Parashar (BTECH/15208/20)		Society	D'ala tandin tand
28.	Swati Kumari (BTECH/15074/20)	2 nd position in TREASURE HUNT (A group event)	(EDIFICE 2021) Civil Engineering	Birla Institute of Technology Off campus Patna
29.	Ashish Ranjan (BTECH/15067/20)		Society (EDIFICE 2021)	13/08/2021 - 15/08/2021
30.	Himanshu Raj (BTECH/15071/20)	7rd		a
31.	Abhijeet Gaurav (BTECH/15061/20)	3rd position in ARCHITECTURAL DESIGN		Birla Institute of Technology Off
32. 33.	Himanshu Raj (BTECH/15071/20) Yashaswi	3 rd position in ARTICLE WRITING 3 rd position in CHORD		campus Patna
34.	(BTECH/15068/20) Subhanshu Raj	BATTLE 3rd position in DEBATE		
35.	(BTECH/15070/20) Priyanshu Kumar	3 rd position in EXTEMPORE		
36.	(BTECH/15065/20) Subhanshu Raj	3 rd position in POSTER		
37.	(BTECH/15072/20) Himanshu Raj	PRESENTATION 3rd position in SPELL BEE		
38.	(BTECH/15071/20) Subhanshu Raj	3 rd position in TREASURE		
39.	(BTECH/15072/20) Vivek Kumar Singh	HUNT (A group event)		
	(BTECH/15217/20)			
40.	MD. Sujaat Shoukat (BTECH/15109/19)	2 nd position in TUG OF WAR	Annual Athletic Meet, Birla Institute of Technology Off campus Patna	03/03/2022 Birla Institute of Technology Off campus Patna
				p 00 . della

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
41.	MD. Sujaat Shoukat (BTECH/15109/19)	3 rd position in DISCUSS THROW	Annual Athletic Meet, Birla Institute of Technology Off campus Patna	03/03/2022 Birla Institute of Technology Off campus Patna
42.	Ishan	Rank -953	GATE 2022	

7.3 Distinguished Visitors from Industry/Academia/Research organizations

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. Rameshwar Singh (DGM, Customer Technical Services, JK Cement)	05/07/2021	
2.	Mr. Prashant Singh (Assistant Manager, Customer Technical Services, JK Cement)	05/07/2021	
3.	Er. Soumitra Chakravarti (Alumnus, BIT Mesra, Patna Campus)	16/08/2021	
4.	Er. Arpan Singh (MS Student, IIIT Hyderabad)	14/08/2021	

5.	Mrs. Anu Anand (Speaker & Trainer)	21/08/2021	
----	-------------------------------------	------------	--

7.4 List of Distinguished Alumni

Sr.No	Name, Batch and Affiliation	Short Description
1.	Er. Avi Ranjan Batch 2007	Executive Engineer, Govt. of Bihar
2.	Er. Nasseer Shamim Batch 2008	Assistant Engineer, Govt. of Bihar
3.	ER. Abhishek Kumar Shaurya Batch: 2010	Deputy manager, SAIL
4.	Er. Sidharth Kumar Batch 2010	BSRDC
5.	Er. Vimal Kumar Batch 2012	RITES Construction, Mumbai
6.	Er. Uday Kumar Batch 2012	Assistant Engineer, Govt. of Bihar
7.	Er. Anjneya Srivastava Batch 2012	Pursuing PhD from IIT Kharagpur
8.	Er. Sourav Swaraj Batch 2013	Group 1 services in Indian Railways
9.	Er. Sparsh Bhardwaj Batch 2014	Group 1 services in Indian Railways
10.	Er. Kashfi Khan Batch: 2014	MHRD
11.	Er. Saurav Batch: 2014	Medishala Start Up
12.	Er. Rituraj Batch: 2014	Medishala Start Up
13.	ER. Arpan Singh Batch: 2015	Pursuing MS from IIIT-Hyderabad
14.	Er. Shamsheer Alam Batch: 2016	Placed in Byjus
15.	Er. Nihar Ranjan Batch 2017	Junior Engineer, Govt. of Jharkhand
16.	Gaurav Kumar, 2019 Pass out batch, EEE Student of BIT PATNA	AIR-01 GATE 2022 (in EE paper)
17.	Saurabh Raj , 2018 Pass out EEE Student of BIT PATNA	AIR- 34 UPSC ESE 2020

7.5 Infrastructure Development

Dept. of Management

- Research Scholar Room for Research related activities.
- 2. Software SPSS-27 for Computer Lab.

Dept. of Mechanical Engg.

- 1. Computer chair: 40 pcs
- 2. Almira: 4 pcs
- 3. Color printer: 1 pc
- 4. B/W Printer: 2 pc
- 5. Lcd Projector: 1 pc
- 6. Visitor chair: 23 Pc
- 7. Movable Chiar: 11 pc

Dept. of EEE

1. Computer Lab Developed (40 computers)

7.6 Special Covid Initiatives, if any:

Dept. of NSS BIT Patna is organizing regular free On the Spot Registration & Vaccination Camp (for first/second and booster doses as well) for its employee, students and their family members.

University Polytechnic

SECTION 1 PROFILE

1.1 About the Polytechnic:



The University Polytechnic, BIT Mesra was established during 2001 in joint collaboration of Birla Institute of Technology, Mesra, Ranchi with the Department of Welfare, Govt of Jharkhand.

The University Polytechnic offers

- » Diploma in Computer Engineering
- » Diploma in Electronics & Communication Engineering,
- » Diploma in Mechanical Engineering
- » Diploma in Electrical & Electronics Engineering
- » Diploma in Automobile Engineering
- » B.Sc. programme in Medical Lab Technology.

The Polytechnic is committed to achieve global excellence in technical education and

empowering youth with multidisciplinary skill sets to lead innovation centric socio-economic development of India.

The aims & objective of the Polytechnic is to impart outcome based technical education to student with modern tools and skills required in 21st century. The Institution is nurturing globally competent diploma engineers with growth mindset, professional ethics and integrity.

To lead innovative minds and design thinking based teaching-learning along with leveraging global best practices are the dreams of this Polytechnic. The Polytechnic is strengthening industry-academia collaboration to forge impactful partnership in pursuit of technical excellence.



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 (₹)	Duration of the Project
1.	Modernization of Computer Hardware & Networking Lab	PI-Niraj Kumar Co-PI-Ramnish Sinha	AICTE (MODROB)	20.01.2022	16,84,750	2 Years

SECTION 3 SEMINAR / CONFERENCE

3.1 Seminar / Conferences / Short - Term Courses Conducted:

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
1.	Cloud Computing & Azure Fundamental	Mr. Abhay Kumar	University Polytechnic	23.04.2022

Sr. No.	Title of Seminar/ Conference/ Short Term Courses/ Workshop	Coordinator	Funding / Sponsoring Agency	Date of Event
2.	Invited Lecture on Importance of Yoga by Mrs. Sapna Jha, District Coordinator of Patanjali Yoga Center	Dr. Sandhya Rani	University Polytechnic	28.03.2022
3.	Mentorship Workshop for Jharkhand State level Inspire Awardee to participate in the National Level Exhibition & Project Competition (NLEPC) Dr. Satish Kumar National Innovation Foundation, Department of Science & Technology, Government of India		Foundation, Department of Science & Technology,	22.03.2022 -23.03.2022
4.	Workshop on "Digital Payment"	Dr. (Mrs.) Neeru Singh	University Polytechnic	08.03.2022
5.	Workshop on "Industrial Robotics and IOT" in association with Sky Rider Institution	Dr. Satish Kumar	University Polytechnic	19.02.2022
6.	Workshop on "APP Development"	Mr. Neeraj Kumar	University Polytechnic	08.10.2021

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

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Satish Kumar	5-day FDP-SI UHV Online – "AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)	AICTE	AICTE	Online	30.05.2022 - 03.06.2022
2.	Mrs. Nirupam	5G Antenna Design with AIML Applications using HFSS	Self	Department of Electronics and Communication Engineering, St. Martin's Engineering College, Dhulapally, Secunderabad, Telangana, India	Online	27.05.2022 - 28.05.2022
3.	Dr. Sandhya Rani	Universal Human Values in education.	AICTE	AICTE	Online	21.02.22 -25.02.22
4.	Mr. Abhay Kumar	Microsoft Azure Fundamental	University Polytechnic	Microsoft	Online	17.02.2022 - 19.02.2022
5.	Mr. Prabhat Ranjan Mahto	Introduction to Finite Element method in Engineering	NITTR Kolkata	NITTR Kolkata	Online	07.02.2022 -18.02.2022
6.	Dr. Maqubool Hosain	Digital tool for faculty and staff	Free	National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata	Online	02.02.22 - 04.02.22

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
7.	Mr. Prabhat Ranjan Mahto	Convergence Of IoT and AI	The Institution of Engineers (India)	West Bengal state centre of The Institutions of Engineers (India) under the aegis of Electronics and Telecommunication Engineering Division	Online	27.01.2022
8.	Dr. Sandhya Rani	National Education Policy 2020: Different Dimensions	Self	Surya College of Education, Kathua, J&K & Govt. Degree College, Samba, J&K	Online	10.01.2022 - 16.01.2022
9.	Dr. Meena Singh	National Education Policy 2020: Different Dimensions	Self	Surya College of Education, Kathua, J&K & Govt. Degree College, Samba, J&K	Online	10.01.2022 - 16.01.2022
10.	Dr. Neeru Singh	National Education Policy 2020: Different Dimensions	Self	Surya College of Education, Kathua, J&K & Govt. Degree College, Samba, J&K	Online	10.01.2022 - 16.01.2022
11.	Mrs. Nirupam	National Education Policy 2020: Different Dimensions	Self	Surya College of Education, Kathua, J&K & Govt. Degree College, Samba, J&K	Online	10.01.2022 - 16.01.2022
12.	Dr. Sandhya Rani	Design Thinking for Exellence in OBE & Digital learning.	AICTE	AICTE	Online.	29.11.21 -03.12.22
13.	Mrs. Nirupam	Cyber Security & Personal Safety	Self	West Bengal State Centre of The Institution of Engineers (India)	Online	08.10.2021
14.	Dr. Sumana Kumari	6 Days Management Development Programme on "Creating New Era Principals".	Self	Jharkhand Government Tool Room, Ranchi. (A society of deptt. of industries, Govt of Jharkhand)	Online	27.09.2021 -02.10.2021
15.	Mrs. Nirupam	6 Days Management Development Programme on "Creating New Era Principals".	Self	Jharkhand Government Tool Room, Ranchi. (A society of deptt. of industries, Govt of Jharkhand)	Online	27.09.2021 -02.10.2021
16.	Dr. Satish Kumar	Groundwater remediation in difficult conditions	Remtech Europe	Remtech Expo, Italy	Online	23.09.2021
17.	Mrs. Nirupam	Dam Safety & Risk Mitigation Techniques in Hydro Power / Irrigation Projects	Self	National Power Training Institute, Eastern Region, Durgapur	Online	20.09.2021 -21.09.2021

Sr. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
18.	Dr. Maqubool Hosain	World Library: A primary of library content	Free	Balani Infotech Pvt. Ltd	Online	30.07.21

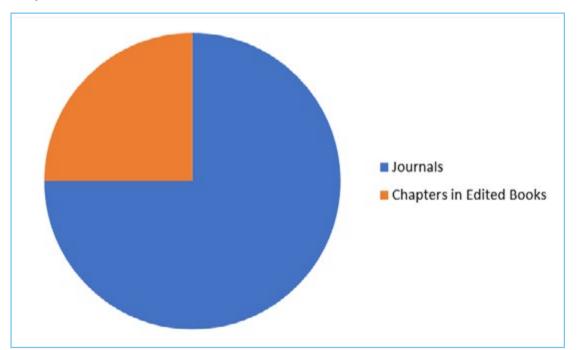
SECTION 4

RESEARCH PUBLICATIONS

4.1 Publications in Journals: (International/National)

Journals: 3

Chapter(s) in Edited Book: 1



SECTION 5

AWARD / PATENT / COLLABORATIONS

5.1 Award / Recognition Bestowed on Faculties

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
1.	Dr. Maqubool Hosain	PhD- Design and Development of Compact Filtenna for Wireless Devices.	B.I.T Mesra, Ranchi	NA	26.11.21

Sr. No.	Name of the Faculty Member	Title of the Award / Honour	Organisation	State / National / International Level	Year / Duration
2.	Dr. Satish Kumar	Ambassador	Remtech Europe, Italy	International	31.10. 2021
3.	Mr. Abhay Kumar	Honouring Teachers	Lions Club of Ranchi East	State	08.09.2021

5.2 MoUs / Collaborations:

Sr. No.	Name of Organisation / University	Purpose / Area /Short Description	Year / Duration
1.	ETS Services Ranchi	Short term course on "Geoinformatics using Drone Technology"	3years

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.	8 th International Yoga Day	Piyush Kumar and Vikash Kumar Barnwal, BMLT 2020	Narendra Kumar Singh, Chanchal Kumar Mishra	21.06.2022
2.	FUSION Night	Deewakar Singh D098/19, Saket Shivam D167/19, Payal Kumari D078/20, Ambika Mishra D017/20	Dr. Neeru Singh, Mr. Shanker Singh, Md. Maqubool Hosain	06.05.2022
3.	Morning Yoga Classes	D 94/19 Usha Kumari, D08/19 Swati Kumari	Mr. Narender Kumar Singh	11.04. 2022- 06.05.2022
4.	Inter Semester Volleyball Tournament	Nishant Khalkho 2k19 Batch	Mr. Narendra Kumar Singh	26.03.2022- 27.03.2022
5.	Inter Semester Cricket Tournament	Diwakar Kumar 2k19 Batch	Mr. Narendra Kumar Singh	14.03.2022- 15.03.2022
6.	Blood donation camp in association with Sadar hospital, Ranchi	All BMLT 4 th semester students	Dr. Neeru Singh, Dr. Chanchal Mishra	09.03.22
7.	Morning Yoga Classes	D 94/19 Usha Kumari, D08/19 Swati Kumari	Dr Sandhya Rani	09.03.2022- 26 04.2022
8.	Inter Semester Football Tournament for both Boys and Girls Section.	Abdul Muksid 2k19 Batch	Mr. Narendra Kumar Singh	02.03.2022- 06.03.2022.
9.	Saraswati Puja	Students were not allowed due to COVID guideline	Dr. Neeru Singh, Shanker Singh, Md. Maqubool Hosain	05.02.22

Sr. No.	Name of the Activity	Students' Co-Ordinator (If any)	Faculty Coordinator (if any)	Date / Duration
10.	Health check-up camp in association with Pathkind Labs	All BMLT 6 th semester students	Dr. Neeru Singh	15.12.21
11.	UNIFESTO 2021 Online	Deewakar Singh D098/19, Piyush Kumar BMLT010/20, Ambika Mishra D017/20, Payal Kumari D078/20	Dr. Neeru Singh	30.10.21
12.	Vishwakarma Puja	Students were not allowed due to COVID guideline	Dr. Neeru Singh, Shanker Singh, Md. Maqubool Hosain	17.09.21

6.2 List of Faculties

Sr. No.	Name	Designation	TEQIP Sponsored
1.	Dr. Vinay Sharma	Professor and Director	No
2.	Dr. Shambhu Sharan Kumar	Assistant Professor	No
3.	Mr. Ramkesh	Assistant Professor	No
4.	Dr. (Mrs.) Meena Singh	Assistant Professor	No
5.	Mr. Abhay Kumar	Assistant Professor	No
6.	Dr. (Mrs.) Sandhya Rani	Assistant Professor	No
7.	Dr. Satish Kumar	Assistant Professor	No
8.	Dr. T. K. Parashar	Assistant Professor	No
9.	Dr. (Mrs.) Neeru Singh	Assistant Professor	No
10.	Mr. Pradeep Toppo	Assistant Professor	No
11.	Mr. Ramnish Sinha	Assistant Professor	No
12.	Mr. Rajendra Mahto	Assistant Professor	No
13.	Dr. (Mrs.) Sumana	Assistant Professor	No
14.	Mrs. Rekha Kumari	Assistant Professor	No
15.	Dr. Mohd. Neyaz Ahsan	Assistant Professor	No
16.	Dr. Chanchal Kumar Mishra	Assistant Professor	No
17.	Mr. Manoj Kumar	Assistant Professor	No
18	Mr. Niraj Kumar	Assistant Professor	No
19.	Ms. Nirupam	Assistant Professor	No

Sr. No.	Name	Designation	TEQIP Sponsored
20.	Dr. Rohit Kamal Chatterjee	Assistant Professor	No
21.	Mr. Rakesh	Associate Lecturer	No
22.	Mr. N. K. Mukherjee	Associate Lecturer	No
23.	Mr. Maqubool Hossain	Associate Lecturer	No
24.	Mr. Narendra Kumar Singh	Physical Training Instructor	No
25.	Mr. Sanjay Jha	Teaching Assistant	No
26.	Mr. Shankar kumar	Teaching Assistant	No
27.	Mr. P.R.mahto	Teaching Assistant	No

6.3 Board of Studies

Sr. No.	Name of the Member	Designation	Role
1.	Prof. (Dr.) Vinay Sharma	Director (Ex-Officio)	Chairman
2.	Dr. D. P. Mishra	HoD., Mechanical Engineering, B.I.T. Mesra	External
3.	Dr. Joyjeet Ghose	HoD, Mechanical and Industrial Engineering	External
4.	Mr. Pradeep Kr. Gupta	DGM, Tata Motors Ltd., Jamshedpur	External
5.	Mr. Pranay Kant Prasad	DGM, Tata Motors Ltd., Jamshedpur	External
6.	Mr. Dhiman Das	Mind Tree, Tatisilwai, Ranchi	External
7.	Mr. Manoj Kumar	Course Coordinator, Automobile Engineering	Internal
8.	Mr. Ramkesh	Course Coordinator, Mechanical (Production) Engineering	Internal
9.	Mr. Rakesh	Course Coordinator, Mechanical Engineering	Internal
10.	Dr. Sarbani Chhakraborty	HoD, EEE, B.I.T. Mesra	External
11.	Dr. Sandeep Dutta	HoD, CSE, B.I.T. Mesra	External
12.	Prof. (Dr.) S.S. Solanki	H.O.D., Electronics & Communication Engineering, B.I.T. Mesra	External
13.	Dr. Swastika Ganguly	HoD, PST, B.I.T. Mesra	External
14.	Mr. Randhir Prasad	DGM, Tata Motors Ltd., JSR (EEE)	External
15.	Mr. N.C. Aggarwal	CEO, Meditron, Ranchi (ECE)	External
16.	Mr. Praveen Kumar	SDE, Admin and T M, BSNL, Ranchi (CSE)	External

Sr. No.	Name of the Member	Designation	Role
17.	Dr. K. K. Das	CCL, Head of Path., Gandhinagar Hospital (BMLT)	External
18.	Mr. N. K. Mukherjee	Course Coordinator, Electrical and Electronics Engineering	Internal
19.	Mrs. Nirupam	Course Coordinator, Electronics and Communication Engineering	Internal
20.	Mr. Abhay Kumar	Course Coordinator, Computer Science Engineering	Internal
21.	Dr. Chanchal Mishra	Course Coordinator, BMLT	Internal

7.4 Achievements of Students:

Sr. No	Name of Student	Achievement/Position/ Award etc	Organised by	Date and Venue
1.	KAVITA BHARTI	Best OET of the year 2021	Dana Anand India Pvt. Ltd., Pune	23.05.2022, Pune

7.5 Distinguished Visitors from Industry/Academia/Research organizations

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. Vivek Kumar Sr. Innovation Officer National Innovation Foundation, Department of Science & Technology, Government of India	23.03.2022	

7.6 List of Distinguished Alumni

Sr. No	Name, Batch and Affiliation	Short Description
1.	Himanshu Mahto Electronics – 2007	Senior Section Engineer, Indian Railway
2.	Ravi Chandra Mechanical- 2010	Customer Support team GMMCO (C. K. Birla Group)
3.	Nikhil Kumar Rajak Electronics-2005	Automation Engineer, Hindalco Industries Ltd. Muri (Aditya Birla Group)
4.	Pooja Prasad EEE – 2013	Junior Electrical Engineer, Bihar State Power Holding Company Limited
5.	Mantu Kumar Electronics – 2009	Junior Engineer, Indian Railway
6.	Nitish Bhardwaj Electronics- 2007	Senior Software Engineer, ServiceNow

7.7 Infrastructure Development

- ₹ 35 Lac was received from ITDA office, Department of welfare, Govt. Of Jharkhand in the month of November 2021 for construction of left over portion of New Electrical Trade Building. Out of which nearly 5000 sqft area has been casted.
- A new Strength of Material Lab for Mechanical and Automobile is set up in which Digital Universal Testing Machine with all attachments capacity 20 t model

7.8 Any other relevant information

- Dr. Sandhya Rani is serving the Institute as President of Ladies Club having fifty lady members. The club has introduced variety of activities including Spiritual, dance, Music, Yoga etc. for the campus resident.
- 2. Dr. Satish Kumar served as a member of Expert committee constituted for assessment of water quality of Rukka Dam and Water Treatment Plant of Drinking Water and Sanitation Department, Government of Jharkhand in July 2021.
- 3. Dr. Satish Kumar served as an Evaluator of Poster Session-2 in the International Symposium on Plant Biotechnology Towards Improving Agri-Food Industry and Healthcare Products (ISPB-2021) organized by Department of Bioengineering and Biotechnology, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India from OCTOBER 27–30, 2021
- 4. Dr. Satish Kumar appointed as an Expert of STATE CURRICULUM FRAMEWORK COMMITTEE under New Education Policy (NEP 2020) constituted in the Jharkhand by Education Department and NCERT in February 2022.
- 5. Dr. Satish Kumar served as JURY MEMBER in INSPIRE AWARD SCHEME (Science exhibition) organized by Deptt. of Science & Technology, Govt. of India and Education deptt. in state level program of Jharkhand from 21–01–2022.
- 6. Dr. Shambhu Sharan Kumar has been selected as Editorial Board member of

- AMT 20 E Price 3.25 Lacs, Digital Torsion Testing Machine capacity 50 kg-m motor 2hp price 2.52 Lacs, Muffle furnace Max temp 1000° C, furnace size 12 × 6 × 6 inch and Digital Impact Testing Machine having Impact capacity 300 joule price 1.23 Lacs are installed.
- In Automobile Lab LMV Driving Simulator Full Cabin of Amount: 4,00000.00 has been installed.
 - Journal of Research in Engineering and Applied Sciences"; www.ijreas.com, www. mgijournal.com, ISSN: 2348-1862
- Dr. Shambhu Sharan Kumar has been selected as Editorial Board member of International Journal of Engineering and Applied Sciences- IJEAS, ISSN: 2394–3661.
- 8. Dr Chanchal Mishra Organized Internship for BMLT 2K19 batch in association with PULSE Hospital, Ranchi, Bariatu, Rani Hospital, RIMS, Ranchi and Tata Motors Hospital, Jamshedpur.
- Narendra Kumar Singh and Chanchal Kumar Mishra organized "8th International Yoga Day" on 21st June 2022 for students, non-teaching and all faculty members at University Polytechnic, BIT Mesra campus.

Training and Placement Cell

 Diploma and BMLT 168 students were placed in various reputed companies and hospitals, respectively, in the year 2021-2022.

NSS

Dr. Neeru Singh, Programme officer NSS
has conducted various events such as
Women's & Teacher's Day celebration,
Essay & Poster competition. Furthermore,
the team organized various events under
International Yoga Day. Swachh Bharat
Abhiyan was conducted every month in the
campus of University Polytechnic.



6.9 Special Covid Initiatives, if any:

1. Automatic Body Sanitization Machine with Tunnel was developed by D124/2019 Raj and D127/2019 Aditya Patralekh under the guidance of Dr. Sumana Kumari.



2. Smart (Contactless) Dustbin using Bluetooth is developed by D157/2019 Omprakash Nag, D162/2019 Mrityunjay Kumar, and D164/2019 Vikram Kumar Thakur under the guidance of Mrs. Nirupam.



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 24×7) 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 also Eye Specialist, Dentist, Physiotherapist, Skin, & Gynecologist 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 SBI General Insurance Company. 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	
4.	Dr. Dharmendra Kumar	9576174033	

S.N	Medical officers Contact No		
	Visiting Specialist	Specialization	
1.	Dr. Rishi Raj	Dentist	
2.	Dr. Renu Sinha	Gynaecology	
3.	Dr. R.P.Choudhary	Skin Specialist	
4.	Dr. Promod Kumar	Phsiotherapist	
5.	5. Dr. M.E.Asraf Eye Specialist		
6.	Dr. Subhodh Kumar	Psychiatrist	
	Homeopathy Physician		
1.	Dr. P.Mohanty	9430118376	
	Name of Pharmacist	Name of Store Keeper	
1.	Mr.A.K.Tarun	Mr. Mahesh Kumar Sinha	
2.	Mr.B.P.Yadav	Mr.Rajeev Ranjan	
3.	Mr.Umesh Prasad		
	Nursing Staff	X-Ray Technician	
1.	Mrs. Renu Kumar	Mr.Kaleshwar Mahto	
2.	Ms. Suman Lovely Tigga		
3.	Mr. Ram Eqbal Singh	Lab Technician	
4. Mrs. Sanju Devi Mr.Surendra Kumar Singh		Mr.Surendra Kumar Singh	
5.	5. Mrs. Pinki Kachhap		
	Dressing Staffs	Office Attendant	
1.	Mrs. Janki Devi	Mr.Bhuneshwar Munda (Peon)	
	ATTENDANT		
1.	Mr. Radhe Shyam Mahto	Medical Lab Attendant- (IV)	
2.	Mr.Saurav Kumar	Attendant-(IV)	
3.	Mr. Jitendra Kumar	Ward Attendant- (A-IV)	
4.	Mr. Akash Kumar	Ward Attendant-(IV)	
5.	Mr. Bijay KumarLakra	Office Attendant-(IV)	
6.	Mrs. Sunita Pallai	Ward Attendant-(IV)	
7.	Mrs. Nupur Tigga	Attendant-(IV) Nursing	
8.	Mrs. Parmila Devi	Attendant-(IV)	
8.	Mrs. Aruna Goswami	Ward Attendant-(V)	
9.	Mrs. Pramila Devi	Attendant-(IV)	
10.	Mr. Anil Kumar	Attendant-(IV)	

S.N	Medical officers	Contact No
	Sweeper	
1.	Mrs. Gita Devi	Safai Karamchari (A-V)
2.	Mr. Rajendra Munda	Safai Karamchari (A-V)
3.	Mr. Mukesh Ram	Safai Karamchari (A-V)

Facilities and Services:-

- OPD Services including part time specialist OPD viz. Skin Obs/Gynecologist & Dental Surgeon & Physiotherapist.
- 2. In patient Service for minor ailments.
- 3. Emergency Service
- 4. Homeopathy Clinic
- 5. Dental Clinic
- 6. Physiotherapy Unit
- 7. X-Ray Unit
- 8. ECG Unit
- 9. Isolation Ward 02 (One each for male &Female Patients)
- 10. Dressing unit
- 11. 02 Ventilators are available
- 12. 03 Oxygen concentrators & portable oxygen cylinders are available.

Service Details

SI.No		
1.	Total Number of patient	26964
2.	2. Number of outdoor patients treated &Supplied medicines	
3.	Male	13620
4.	Female	8470
5.	Staff members & their dependants Non- entitled Cases Number of patients admitted & treated Number of patients referred	
6.		
7.		
8.		
9.		
10.		
11.	Number of X-Rays	121
12.	Number of Covid - 19 Vaccinations Till Date:-12/02/2022	13630

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 groomed to inculcate qualities of leadership along with the feelings of patriotism.

» No. of units in NCC: 3 JHAR COMPO TECH COY, NCC BIT MESRA

2. No. of students enrolled:

K20 - 66	Boys:	Girls:
k21 - 64	K20 - 57	K20 - 09
Total Students – 130	K21 - 50	K21 - 14

3. Achievement of NCC:

- » 63 number of students cleared B certificate Exam.
- » 10 number of students cleared C certificate Exam.

4. Any other relevant point:

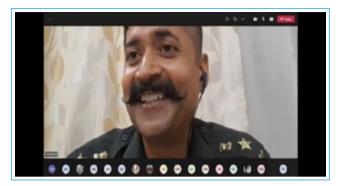
EVENTS CONDUCTED

» Conducted flag hoisting ceremony on Independence Day (i.e., 15th Aug 2021)





» Conducted a visual meet with **Lt. Col Amit kumar** on the occasion of Kargil Vijay Diwas (i.e., 26 July 2021).



» ATC IX camp (i.e 22nd Dec 2021 to 28th Dec 2021)



» Republic day parade and flag hoisting ceremony (i.e 26th Jan 2022)



» ATC XI Camp (i.e 21st Feb 2022 to 27th Feb 2022)





» Safai abhyan (i.e 24th Feb 2022)



» Blood donation camp (i.e 5th March 2022)



» Yoga day (i.e 21st June 2022)



5. NCC Team:

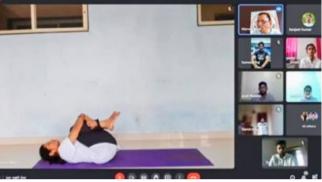
Sr. No	Rank	Name of Faculty Member / NCC Officer	Department / NCC	Designation
1.	LT. COL	Praveen Thakur	NCC	СО
2.	LT	Dr. Kishore Kumar Senapati	CSE	ANO
3.	SUB	Shashi Kumar	NCC	Sr. JCO
4.	SUB	Purshotam Tiwari	NCC	JCO
5.	NB. SUB	SK Sahoo	NCC	JCO
6.	СНМ	Suresh Chandra	NCC	OR
7.	HAV	Sudeep Tyagi	NCC	OR
8.	HAV	Ishwar Singh	NCC	OR

National Service Scheme

Yoga Day(21-06-2021)

To live the spirit of the ancient science of Yoga, we at NSS, BIT MESRA, organized an instructed session and webinar on the occasion of International Yoga Day. Our esteemed guest of honor was DrVishwas Vasant Mandlik, founder and Yogacharya of Yoga Vidya Dham, Nasik andhis team.

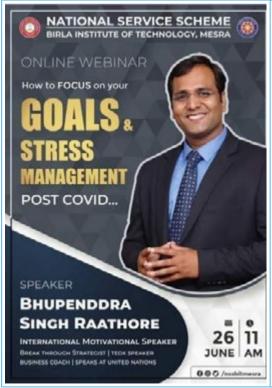




Webinar on "How to focus on goal and stress" (26-06-2021)

COVID-19 Pandemic has left a huge impact on our lives. Many of them are dealing with stressful, overwhelming, and elicit powerful emotions in both theadults and children. On this note, NSS BIT

Mesra, invited Dr Bhupendra Singh Rathore, popularly known as BSR sir, to host an online webinaron "How to focus on goal and stress".





Van Mahotsav Week (01.07.2 021-07.07.2 021)

Van Mahotsav Week started to create awareness in the mind of the people for the conservation of forests and planting of new trees. To thisend, NSS BIT Mesra organised an online QUIZ on Van Mahotsav on 4thJuly.

Pravad (14-07-2021)

Pravad: A Debate Competition." NSS, BIT ,Mesra, organized a debate competition on 14th August, 2021 to celebrate this auspicious day to remember the efforts of those countless Indians who sacrificed their lives for our bright future. In Round 1-the participants were divided into a number of subgroups in accordance with the total number of candidates. Atotal of 5 different topics were given to them. Then in the final round, 2 groups were made (For and Against the Motion). A Google doc was circulated in which a topic was given, and the person had to choose which side he wants to pick. The choosing of which side a person wants wasbased on first come first priority. Then one team spoke on the topic and from another team each member asked at least one question. If no answer was given by the participant, then the other person will got the point.



Quiz on Independence Day (15-07-2021)

August 15 marks the occasion of Independence Day, one of the three National holidays, in India, and this year we are celebrating 75 years of Independence from British Rule. To this end, NSS BIT MESRA organised an online Quiz on Independence Day, 15th August.

Plantation Drive (02-10-2021)

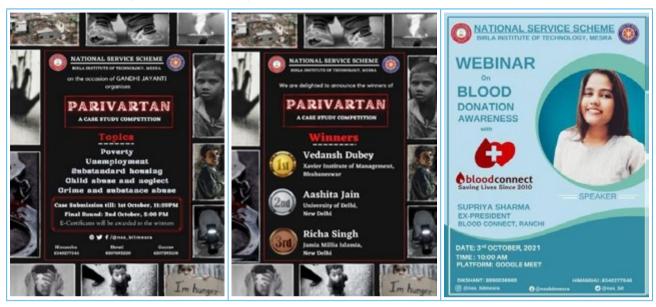
NSS planted saplings celebrating Azadi Ka Amrit Mahotsav on the eve of Gandhiji's birthday on 2nd October'21, the Mahatma who played a key role in said 'Azadi'.





Parivartan (02-10-2021)

Every year on 2nd October we celebrate Gandhi Jayanti to mark the birthday of Mahatma Gandhi and his selfless contribution to India's freedom struggle. So inorder to solve the underlying issues of our society we, NSS BIT Mesra, are organised a case study competition.



Webinar on Blood Donation Awareness (03-10-2021)

It is necessary to promote public knowledge about the need and importance donating blood and as wellas the role voluntary blood donors play. In view ofthis, NSS BIT Mesra in association with Blood Connect organised a webinaron blood awareness and the importance of blood donation. The webinarwas conducted on Google Meet.



Shape The Scrap (20-12-2021)

NSS, BIT Mesra organized a week-long event "Shape The Scrap" where participants were required to create art out of waste materials. Through this event, we aimed to promote Waste to Wealth Mission and Swachh Bharat Abhiyan, a cleanliness campaign launched by the Government.





National Integration Camp (16-12-2021 to 22-12-2021)

A week-long event, from 16th to 22nd of December in which volunteers from 17 different states gathered to show the social and cultural aspects of India. In this event NSS BIT Mesra represented Jharkhand with 4 NSS volunteers along with Programme officer Dr. SS yadav. The camp was held at CCS_HAU, Hisar, Haryana.

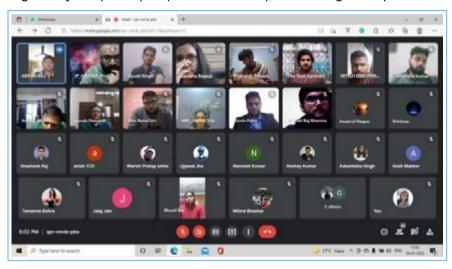




Pravad 2.0 - A Debate competition (26-01-2022)

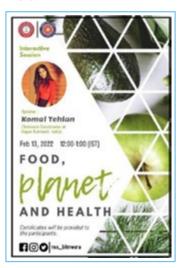
To commemorate India's 73rd Republic Day, we at NSS, BIT MESRA organizedPravad 2.0, a debate competition. We saw huge participation from colleges from all over India. The event was conducted in two rounds, both of which were a success. In Round 1-the participants were divided into a number of subgroups in accordance with the total number of candidates. A total of 5 different topics were given to them. Then in the final round, 2 groups were made (For and Against the Motion). A Google doc was circulated in which atopic was given, and the person had to choose which side he wants to pick. The choosing of which side a person wants was based on first come first priority. Then one team spoke on the topic and from another team each member asked at least one question. If no answer was given by the participant, then the other person will got the point.

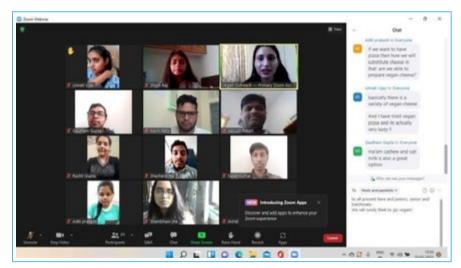




Webinar on Food, Planet and Health (13–02–2022)

NSS, Birla Institute of Technology, Mesra with the support of Vegan Outreachand its coordinator, Komal Tehlan, successfully conducted a webinar on the impact of food choices on our health, our environment and the animals.





Awareness Session on Blood Donation (26-02-2022)

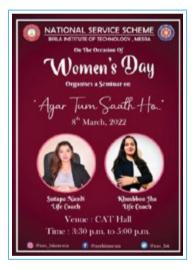
NSS BIT Mesra organized an awareness session on the topic "Blood Donation "in association with Blood Connect foundation. The event witnessed a huge number of participation of NSS volunteers.





Seminar on "Agar Tum Saath Ho" (08-03-2022)

On the occasion of Women's Day, NSS BIT, MESRA had organised a seminar 'Agar Tum Sath Ho" at BIT - Cat Hall from 3:30 - 5:00 P. M. The seminar was successfully conducted by life coach Sutapa Nandi and Khushboo Jha.





Blood Donation Camp (13-03-2022)

NSS BIT, MESRA had organised a Blood Donation Camp at Bit Dispensary on 13th March. 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. A total of 250 plus units of blood was donated. All the NSS volunteers and executives joined the Campand made it a successful one.







Awareness Session on Tobacco Control and Cancer (22-03-2022)

NSS BIT, MESRA in collaboration with Ranchi Cancer Care Foundation and Tata Trusts had organised an awareness session on tobacco control and cancer to create awareness on thehazardous effects of tobacco use, at BIT -Cat Hall on 22-03-2022 from 3:30 - 4:30 P. M.





Environment day (05-06-2022)

NSS BIT Mesra, in association with Institute Innovation Council (IIC) and Environment Protection and Awareness Club (EPAC) organized a series of events for World EnvironmentDay on 5th June, 2022. The events which took place were :

Cleanliness Drive

A cleanliness drive was also organized wherein a group of students went and cleaned up aparticular area with that unit being led by the NSS. Dustbins and broomsticks were procured from the NSS office and distributed.

Environmental Campaign

Posters raising awareness about Environment Day were distributed and students went doorto door, teaching residents how to properly dispose hazardous wastes such as batteries, sanitary pads, and razor blades.

Plantation Drive

A plantation drive was also organized in the premises wherein 50 plants were plantedbehind Hostel No. 9 in order to nourish the soil and environment.

Webinar

An insightful webinar was also organized by Dr. Jit Mukherjee and Dr. Rajat Kumar on the same day from 12:00 P.M. to 1:00 P.M. on Google Meet platform wherein famous ecologist and environmentalist, Dr. RajuKumar had been invited as the guest speaker. The webinar saw an active participation of more than 100+ volunteers.





Internation Yoga Day (21-06-2022)

NSS, BIT MESRA organised a yoga session on the occasion of International Yoga Day on 21st of June, 2022. It took place at Sports Complex and was attended by 155 volunteers. It began with the yoga session followed by an encouraging speech. This was followed by various pranayama and asana performed by all the participants. Thus, the event was conducted successfully witnessing an enthusiastic participation of the volunteers and executives, and the revered presence of our faculty members and dignitaries.





ENVIRONMENTAL INITIATIVES

Intro - The Environment Protection and Awareness Club of BIT Mesra, popularly known as EPAC, is the student club whose primary motive is to instigate awareness about the detrimental effects rapid urbanisation and industrialisation has on our environment, and provide a space for contemplating the possible solutions to lift this pressure. We, as the student body, aim to improvise the existing systems which lay in the favour of nature and thusly started a plethora of initiatives in our lush green Institute Campus, and elsewhere, to aid the upliftment of the environment, and inform our peers about the consequences of an unhealthy environment. With an objective to nurture nature in return to all she does for us, we selflessly carry out activities with paramount dedication and unequivocal semblance of ideas to save what has been ours for all these years. We work in consonance with the latest advancements in technology to bring about small differences which might lead towards a green future.

Flagship events

- Jumanji Organized by the Environmental Protection and Awareness Club (EPAC) BIT Mesra, Jumanji V5.0 is a treasure hunt that truly did justice to its namesake movie. Filled with rampant adrenaline rushes, a seemingly endless array of perplexing clues and enthusiastic participants despite conducting it in virtual mode.
- 2. JSEF As a club, we organize the Jharkhand Science and Environment Festival (JSEF), the largest science festival in the East Zone exclusively for school students went pan-India this year by conducting the event online. It included events like poster making, debate, games, etc.

Major events

 Nat Frames - A photography competition testing the ability of BIT students to look at Nature tenderly by asking them to capture their surroundings in a way that appeals to them. Beyond Crisis - An online quiz and case study competition that tests the knowledge of nature that college students hold, held in multiple stages.

Webinars

- Know and Grow by Mrs. Nupur, the cofounder of Greenmyna: Mrs. Nupur talks about the challenges and the emotions involved in making an eco-friendly wedding ceremony, and making a business out of it. Mrs. Nupur also talks about her experience leading an ecofriendly life and her approach to teaching her friends to do so as well.
- By Mr. Akhilesh Anil Kumar, UN India climate leader: On the account of Energy Conservation Day, Mr. Akilesh talks about changing the manufacturing industry to be more eco-friendly, his personal endeavours educating school children waste management and green education, improving college and school campuses by collaborating with the local vendor community.

Other initiatives

 #Plantmoretrees: On the account of Van Mahotsav, EPAC 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.

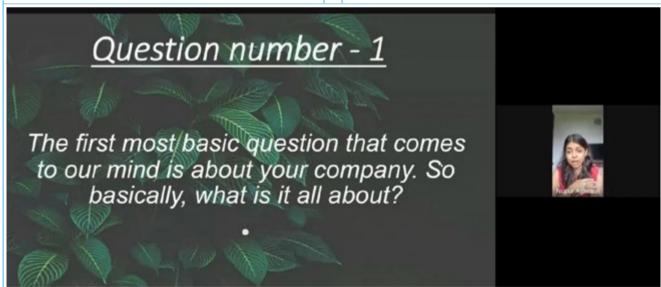
Achievements

- EPAC launched its website epacbitmesra. in as another channel to publicise its events and to spread awareness about environmental issues.
- 2. EPAC organized plantation drive in the locality inhabited by its club members by collaborating with the local nurseries.

Event Gallery



















The Entrepreneurship Development Cell

The Entrepreneurship Development Cell was founded in the year 2007 by students Amit Chaudhary and Ankit Jain with Dr. B.M Karan as Mentor to foster the spirit of entrepreneurship among students. EDC's prime objective is to be a stepping stone for students who want to take the unconventional path and start their own enterprise. To gather the required expertise for them and help them to approach Venture Capitalists (VCs), investors and banks are the major areas of focus. EDC also plays a vital role in encouraging entrepreneurship among students of the Jharkhand region through workshops, activities, and guest lectures by eminent personalities. The Institute is governmentally recognized as the Nodal Centre for Entrepreneurship in the state of Jharkhand.

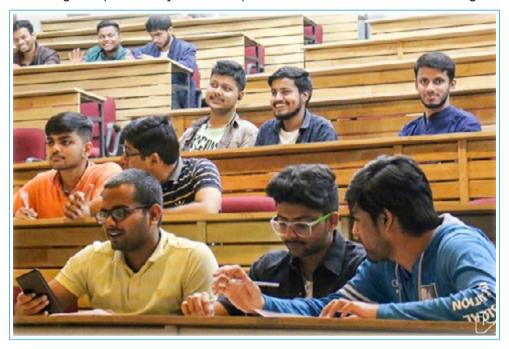
The major events held for the duration May'21 – March'22 included The Annual Entrepreneurship Summit which accounted for a footfall of more than 1000 young and budding entrepreneurs looking to take part in a series of challenging events & be a part of guest talks from renowned industry moguls. IPL Kickoffs, The Feud & Bellagio were the major

highlights of informal events. Participants had the opportunity to demonstrate their skill and expertise in one of the best financial showdowns thanks to Pennywise. Online contests like OG Karts and Spike Rush drew participants from various colleges and involved them in an exciting activity. Participants gained knowledge about market speculation through Sahifolio, Pentagon provided the right opportunity to the folks to put up their skills in the real business world. Participants got a taste of what it's like to handle the heat of unpredictability through experiences like Under Pressure. With Bizalytics, participants in a data analytics hackathon with thrilling challenges and rewards gain first-hand experience with the analysis, structure, and specification of the design and implementation of a solution to solve actual business problems. For those who wanted to start in this domain pitch, Unicorn League presented a perfect opportunity to come and pitch their ideas to judges and take home exciting prizes. The total prize pool for the entire summit was a whopping 2.5 crore thanks to a strong sponsorship from a variety of brands.





E-Summit'22 witnessed a stellar speaker line-up that included Mr. Satish Ray, a comedian, and a YouTube personality; Mr. Vatsal Kanakiya, the CTO of 100X.VC; Mr. Vijay Srivastava, ASEAN Academy of Entrepreneurship and Employability; Mr. Rajive Sinha, COO at U2CA Consultants Pvt. Ltd., Co-founder and member Governing Board, Indian Academy of Entrepreneurship; Mr. Vijay Aggarwal, CTO of Bharat Pe; Mr. Nitin Jain, CEO and co-founder of INDIBNI Pvt Ltd; Mr. Harish Uthayakumar, CEO and co-founder of Bluelearn.in; Mr. Aman Kumar, (Ex-Microsoft) Co-founder at Pepcoding; Mr. Prasanna Swain, Mentor at Pepcoding Education Pvt Ltd; Mr. Vinayaka Kalra, Founder of Mining Devs; Mr. Dmitry Gerasimov, CEO of CellFrame and a Software Engineer.



E-Summit had strong backing from renowned sponsors & corporate partners like Angel One, HPCL, PUMA, BMW, Pizza Hut, Geeks for Geeks, Coding Ninjas, Floxus & the list goes on. Overall E-Summit was an overwhelming plethora of events, speakers & an entrepreneurial vibe.



Entrepreneurship Development Cell also hosted individual events like Virtual Stock Simulation which simulated a stock trading environment wherein participants with the highest profits at the end were hailed the big bulls.

Fostering the young entrepreneurs, the new and young members of the cell hosted a unique corporate case

study, Gulf of Entrepreneurs with prizes worth 5K, which required the participants to submit a marketing solution as a case study for the preliminaries. This was followed by the finale, which consisted of 6 teams going head-to-head in solving tricky case studies.

Following this, a variety of webinars and workshops, including the HULT Prize – Introductory session and others, gave all of the students an equal opportunity to test and fuel their entrepreneurial fire.

Expansion of the cell to further generations is as important, and therefore the recruitment drive was carried out, which tested the student's various skills and knowledge domains. In the end, EDC recruited 65 talented individuals full of ideas and willing to put in the work and hustle in life.

Brief details about different workshops and activities conducted by EDC, BIT Mesra to contribute and promote Entrepreneurship among students of BIT Mesra.

- a) <u>Unicorn League</u> It is a fun event where participants had to pitch their ideas which test their entrepreneurial skills. The Top 3 teams received cash prizes, support and mentoring from the known stalwarts of the startup industry.
- b) <u>Under Pressure</u> It is a brainstorming event filled with a myriad of exciting levels to test one's risk analysis acumen. Teams were given hypothetical and real crises based on a pre-decided theme and they have to submit their best possible solution to the crises.
- c) <u>Basics of Product Management</u> Its a well-known fact that Product Management is a challenging task. Between interfacing with multiple teams, prioritizing customer satisfaction, and driving the mobile product roadmap, one often gets caught up in the hustle, bustle, and stress. EDC BIT Mesra in collaboration with Angel One had a session with Mr. Ankit Rastogi, Chief Product Officer of Angel One to enlighten students about the 'Basics of Product Management'. This session witnessed a footfall of more than 100 students.
- d) <u>BIT NISHAN</u> Apart from the E-Summit, The Institute of Innovation council in association with Entrepreneurship Development Cell and Finance Club presented (BIT-NISHAN) an initiative to provide seed funding to home startups run by students and faculty of BIT Mesra and off campuses. This new initiative served as a landing platform for providing hands-on support to entrepreneurs. BIT NISHAN is focused on scouting early-stage ventures to help them upscale and provide guidance for necessary outreach and growth.
- e) Strategies for College Ventures.- Indian millennials are even more interested in start-ups and entrepreneurship at a time when the country is witnessing a significant and strong increase in the number of unicorns. However, the road to entrepreneurial success is fraught with erratic and, at times, unprecedented challenges. To further understand these challenges, EDC BIT Mesra conducted an interactive seminar with Mr. Nitin Jain, CEO and Founder INDIBNI Pvt Ltd. and also an alumnus of BIT Mesra Jaipur campus. He guided students with his life journey as an entrepreneur and what challenges he faced in past 9 years.
- f) Fire Side Chat. The journey of Entrepreneurs is not a path full of roses, but the path can be made easy with the help of proper guidance. For enlightening the aspiring entrepreneurs, EDC BIT Mesra conducted an interactive seminar with Vijay Aggarwal, CTO of BHARAT.PE is a technological leader with more than 13 years of experience in the internet sector, all of which have been with high-energy companies.

Not only this, EDC BIT Mesra has developed long-term relationships with more than 50 corporate partners including Angel One, HPCL, Dare2Compete, Puma, Floxus, and many more.

We have also conducted numerous sessions on Entrepreneurship, Business Development, Marketing, Finance and Technical skills that have helped many students to enhance their skills and excel in their careers.

SPEAKERS' SESSION



- 1. My Journey from Bihar to Bombay EDC BIT MESRA had an interactive online session with Satish Ray, A Youtuber and Standup Artist. He described his journey from real to reel life and how art and wits are more important than sophisticated equipment for content creation.
- 2. <u>Basics of Product Management</u> It's a well-known fact that Product Management is a challenging task. Between interfacing with multiple teams, prioritizing customer satisfaction, and driving the mobile product roadmap, one often gets caught up in the hustle, bustle, and stress. EDC BIT Mesra in collaboration with Angel One had a session with Mr. Ankit Rastogi, Chief Product Officer of Angel One to enlighten students about the 'Basics of Product Management'. This session witnessed a footfall of more than 100 students.
 - 3. <u>Start-up in Colleges.</u> Intendending to instill an entrepreneurial spirit in students, the Entrepreneurship Development Cell at BIT MESRA conducted an interactive session with Mr. Harish Uthayakumar, CEO and Co-Founder of bluelearn.in for the session Creator Conclave at angel one E-Summit'22.
 - 4. Strategies for College Ventures. Indian millennials are even more interested in start-ups and entrepreneurship at a time when the country is witnessing a significant and strong increase in the number of unicorns. However, the road to entrepreneurial success is fraught with erratic and, at times, unprecedented challenges. To further understand these challenges, EDC BIT Mesra conducted an interactive seminar with Mr. Nitin Jain, CEO and Founder INDIBNI Pvt Ltd. and also an alumnus of BIT Mesra Jaipur campus. He guided students with his life journey as an entrepreneur and what challenges he faced in past 9 years.

- 5. <u>Learning blockchain from Cell Frame</u>. -Technology is advancing a breakneck pace. Blockchain is maybe todays most quickly growing technology. EDC BIT MESRA presented a session titled «Learning Blockchain using Cell Frame.» Mr. Vinayaka Kalra, Founder of Mining Devs, and Mr. Dmitry Gerasimov, CEO of Cell Frame.
- 6. Fire Side Chat.- The journey of Entrepreneurs is not a path full of roses, but the path can be made easy with the help of proper guidance. For enlightening the aspiring entrepreneurs, EDC BIT Mesra conducted an interactive seminar with Vijay Aggarwal, CTO of BHARAT.PE is a technological leader with more than 13 years of experience in the internet sector, all of which have been with high-energy companies.
- 7. World of Investment <u>-</u> Mr. Vatsal offers everything you need to succeed as an investor, entrepreneur, and self-improvement expert. Mr. Vatsal Kanakiya, CTO of @100x.vc and a member of his family office Mehta Ventures' venture investing team. BIT Entrepreneurship Development Cell Mesra was thrilled to have him as a guest speaker at our massive angel one E-Summit-22.
- 8. <u>Data Analytics Workshop.</u>- Entrepreneurship Development Cell, in partnership with Google Developer Student Club, proudly introduced Mr. Aman Kumar (Ex-Microsoft), Co-Founder at Pep coding, and Mr. Prasanna Swain, Mentor at Pep coding Education Private Limited, DTU grad, a specialist at Python & Machine Learning, as keynote speakers for the fifth edition of Mega Entrepreneurial Fest, angel one E-Summit.
- 9. Leadership and Execution Lessons I learned as an Entrepreneur.- EDC BIT Mesra, in collaboration with the Institution's Innovation Council, was delighted to welcome Mr. Anand Prahlad, Founder & CEO of Parablu Inc., to share his important experience as an entrepreneur on leadership and execution lessons. Mr. Prahlab created Parablu Inc., a B2B SaaS firm located in Santa Clara, CA with R&D operations in India, with over 25 years of expertise in designing Enterprise software solutions.
- 10. <u>Finance Workshop.</u> The BIT Mesra Entrepreneurship Development Cell and Institute Innovation Council was delighted to submit Mr. Satish Krishnan's Finance Workshop, which covered personal finance, financial markets, fundraising, investments, revenue forecasting, and everything else you need to know to scale your financial growth.
- 11. The screenplay called Life_- Mr. Raj A. Kapoor, Chief Blockchain Advisor of India Blockchain Alliance, spoke at EDC BIT Mesra about the complexities that define who we are. He is a multifaceted personality who has mentored pupils outside of the classroom to bring out the best in them.
- 12. <u>Product roles in Startup.</u>- To discover what goes into creating killer products within high-growth firms EDC BIT Mesra held a workshop with the Speaker Mr. Ajeet Singh Kushwaha, Co-Founder of Seekho
- 13. Fintech and Neobanking.- Fintech (a combination of the words "finance" and "technology") is the use of technology to improve and automate financial services and operations. Fintech and Neo- Finance are broad terms that refer to a fast-rising industry that serves the interests of both consumers and corporations in a variety of ways. The list goes on and on, from mobile banking and insurance to cryptocurrency and investing apps. EDC BIT Mesra organized a workshop to educate the students more on the topic.
- 14. Emotional intelligence.- The Student Alumni Relations Cell, BIT Mesra, in collaboration with the Entrepreneurship Development Cell (EDC) and the Institution's Innovation Council (IIC), brought forth a delightful webinar in _"How Emotions Drive Innovation"_ from the author of two renowned self-help books "How to unleash your true potential" and "Finding the magic in you."



- Mr. Shivam is a renowned life coach, an avid researcher on the subject of aerodynamics, and a former professor.
- 15. <u>Building innovation Fit for Market.</u> With the shared objective of creating an inclusive entrepreneurial ecosystem in mind, EDC presented a one-of-a-kind webinar on "Building Innovations Fit for Market," with the youthful and lively Piyush Verma as the session's guest.



CREATIVE ARTS



Students who opt for Creative Arts as their cocurricular subject attend a CREATIVE ART's number of theory and sessional classes in Music and fine arts as well as stage performances, etc under the guidance of Mr. Mrinal kumar Pathak & Mrs. Alka Srivastava



They are exposed to different aspects of Creative Arts in their first to fourth semesters.



Music

Creative Arts, Mesra is dedicated to fostering a passion for the Arts by providing exceptional instruction in visual and performing arts to a diverse population of students.





Perfomance at Foundation Day

Round the year students not only learn but also Perform for different events at BIT

Art speaks where words are unable to explain. Art is a diverse range of human activities in creating visual, auditory or performing artifacts which make us learn a lot.



Institutions Innovation Council

Sr. No.	Name of The Event	Date	Evidence
		Webinar	
1.	Machine Learning Engineering Solutions for end-to-end product creation: Computer Vision & E-commerce case studies. Resource Person: Ms. Sohini Roy Chowdhury Senior Manager, Digital Strategy, Al Expert Accenture & Adjunct Professor Santa Clara University	12.06.21	STOCKEY ASSIMAN BELATIONS CRIL BRILL RESTRICT OF TECHNOLOGY, MESSA A Uniting of MACHINE LEARNING EMORNEYS SOLUTIONS FOR END TO CHIP PROCEET CRIST STOCKES A STOCKES EMORNE CASE STOCKES SOCKES BOYENO MORREY ASSIMAN AND E COMMERCE CASE STOCKES SOCKES BOYENO OF STOCKES SOCKES
2.	Resource Person: Mr. Piyush Verma Founder & CEO, Manush Labs	20/06/21	Entrepreneurship Development Cell, Biff Meara To Jan 2 "Entrepreneurship and lanovation are two sides of the same coin." With a common goal of fostering an inclusive entrepreneuri. See More BUILDING INNOVATIONS FIT FOR MARKET PLYUSH VERMA Floreiss & CEO, Manyer Lab Floreiss & CEO, Manyer
3.	Creating, building & Transforming business & people opportunity for early-stage Entrepreneurs Resource Person: Mr. Debashish Sen CEO, Acelot Academy (Building Careers & Transforming Lives)	21.06.21	CREATIVE WEBINAR CREATIVE WEBINAR CREATIVE BUSINESS & FIGURE OF CREATIVE STANDS OF THE PARTY O

Sr. No.	Name of The Event	Date	Evidence
4.	Webinar on Emotional Intelligence -How Emotions Drive Innovations Resource Person: Mr. Shivam BIT Alumnus	27/06/21	Webinar On Emotional Intelligence **Now Emotional Intelligence *
5.	Lean Startup and Minimum Viable Product Resource Person: Mr. Ashutosh Kumar Advisor, Ph.D Chamber of Commerce and Industry	12.07.21	Entrepreneurship Development Ext
6.	Resource Person: Ms. Anindita Bose Co-Founder CEO and partner at Aspersion	16.08.21	Entrepreneurship Development Coll, BIT Mears 16 App +20 The young mind is always a cestful one, and we feel it is our responsibility to guide and hone it. If you've come up with an id See More SESSION ON ACCELERATORS/INCUBATION - Spantanical to States & Teaching - Engineers Anindita Bose Colleged Coll and Fartner at Appalian - Engineers - Anindita Bose - Colleged Colleged Fartner at Appalian - Engineers - Engineer
7.	Hindrance faced by Entrepreneurs Resource Person: Mr. Nitin Jain Co-Founder/CEO Indidni Group	24.08.21	Entrepreneurship Development Extra lag + 26 Entrepreneurship Development Cell BIT Mesra is feeing bonoured and excited to host Mr Natin Jain, CRO & Co-Founder of Indian, See More Plant Market HINDRANCE FACED BY ENTREPRENEURS NITTN JAIN Business Bedgefts Community Indiantly Foundation

Sr. No.	Name of The Event	Date	Evidence
8.	Orientation Session IIC 4.0 Resource Person: Mr. Dipan Kumar Sahu, Assistant Innovation Director, MoE Innovation Cell	24.01.22	
9.	The Entrepreneurial Journey behind building the Incredible Indian Startup Ecosystem Platform -YNOS Resource Person: Mr. Ramesh Kuruva CEO-YNOS Venture Engine CC Pvt. Ltd.	30.01.22	Bets lutilities of Tachesday, Moor Off Concern founder Off Concern founder Off Concern founder Off Institution's Innovation Council & Department of Electrical and Electronics Engineering presents Invited Tolk The Vision Institute of Tolk List. The Enterpersurial Journey Behind Stabiling the Incredible Indian Start-up Econyment Platform - VNOS 30th January 2022, 03 00 pm.
10.	Career Pathways on Al: Academia, Industry and Entrepreneurship Resource Person: Ms. Sohini Roy Chowdhury Senior Manager, Digital Strategy, Al Expert Accenture & Adjunct Professor Santa Clara University	05.02.22	CAREER PATHWAYS ON AIL ACADEMIA, INDUSTRY AND ENTREPREDEURSHIP Solver Reprohessed hery Solver
11.	STARTNREV Department of Management in collaboration with Institute Innovation Council, BIT Mesra, has organized Startup Awareness program under the Team Sustainability, i.e., "STARTNREV "is a group of startups encouraging students to become Job creators instead of Job seekers. Resource Person: Mr. John Kuruvilla Chief Mentor of BRIGADE-REAP	16.02.22	THE WORLDS FIRST EV COLLABORATORS OUR SPAREIT OUR SPONSORS Fine her substantly broad to accluding you disably an incention.

Sr. No.	Name of The Event	Date	Evidence
12.	Technology Interventions on Bio-Fuel Production using Municipal and Industrial Organic Solid Waste for Enhanced Thermal Conversion Efficient Resource Person: Dr. P. Shanmugam Head of Dept.& Chief Scientist, Professor of AcSIR Environmental Science Department	28.02.22	Institution's Innovation Council, Birla Institute of Technology Mesea Process A william of TECHNOLOGY INTERVENTIONS ON BIO-PULL, PRODUCTOON USING MUNICIPAL AND INDUSTRIAL ORGANIC SOLUTI MASTIT FOR ENGANCED THERMAL CONVERSION EFFECIENCY USING IN AUTOMOBILES? Der : MAID 2002 Weise: Get find MY Mesea Der P. Shammapen Industry of Council Lorder Season Council Technology of California Challenge of Council Lorder Season Council Lorder
13.	Science Engineering Technology Synergy for Sustainable Growth Resource Person: Prof. Indranil Manna Hon'ble Vice chancellor BIT Mesra Ranchi	28.02.22	National Energy Conservation Day National Science Day CSR, Colloquium UGC-0.RE Conservation for Sciencific Research, Indice Science-Engineering-Technology: Synergy for Sustainable Growth Speaker Prof. Indianal Manna for the roles, When Sandard States Date 28 466 2022, Membry Time 12:10-13:10-362.
14.	Future of Block Chain & Cryptocurrency Mr. Ajay Pathak Industry Expert Crypto University	13.03.22	Crypto university organises webinar on FUTURE OF BLOCKCHAIN & CRYPTOCURRENCY at interpretation Birla Institute of Technology, Mesra, Ranchi, Jharkhand We would request you to join us on 13th March 2022 Sunday 4:00 pm to 5:00 pm
15.	Intellectual Property Rights Awareness Programme Resource Person: Shri. Dhiren Pattanayak Examiner of Patents & Designs (Group A – Gazetted.) Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Govt. of India.	23.03.2022	Social ground of the section of the

Sr. No.	Name of The Event	Date	Evidence
16.	"A Journey Called Life" Resource Person: Karan Bajaj Founder & CEO White Hat Jr/ BYJU's Future School	24.03.2022	A JOURNEY CALLED LIFE JOOKS Karan Bajaj Frontier of the printing of the filter of reference from the control of the control
17.	"Accelerating Innovation through WIN" Resource Person: Dr. G.P. Mishra, Professor, Department of Management, BIT Mesra, Jaipur Campus	06.04.22	ACCELERATORS BY FMCG MINCS for Scale up of start upon the second s
18.	"CONVERTING RESEARCH TO PATENT" Resource Person: Dr. Rahul Kapoor, Founder & Director-Turnip innovation	26.04.2022	CONVERTING RESEARCH TO PATENT ORGANIZED BY BC & IPR CELL BIT MESRA SEMINAR TOPICS A MIND BET TO CONVERT BEAR INDOSTRANCE OF INVENTION WINTERNO, AMARINE STAMP, PATENT BEARENES DATE 1 26.04.22 TIME : H.OO AM PLATFORM I MISTRAM LINK'S SHORTURE, AT/FWPSX DEFARITE APPORT FORMATION STAMP LINK'S SHORTURE, AT/FWPSX
19.	TechnoTren Practical Approaches to Intellectual Property Development for Engineers Resource Person: Mr. Akhil Singhal	23 .06.2022	TECHNOTION Online tookcurry on "PRACTICAL APPROACHES TO INTELLECTUAL PROPERTY DEVELOPMENT FOR ENGINEERS" HR AXIV. SINCHAL Only Transcript Control of the

Sr. No.	Name of The Event	Date	Evidence
		Event	
1.	IIC -BIT initiative to provide -seed funding to the early-stage startup for all BIT students In association with Entrepreneurship Development Cell (EDC) and Finance Club (FC)	23.10.21 to 24.10.21	BIT - NISHAN BC-BIT beliative to provide send duration to the same startum by subserts were function to the same startum by subserts were function to the same startum by subserts were function to the same startum of the landstate of Technology Means and 8x official mentioned and startum startum by subserts and 8x official same startum of the s
2.	"QUIZANCE" A Business & Finance Quiz Competition In Collaboration with Finance Club BIT Mesra	22-12-21 To 23-12-21	Team size: 1-2 Prizes morth Finance
3.	"30 Hours Non-Credit Workshop on Strategic Finance" In Collaboration with Finance Club BIT Mesra	29.01.22 To 09.04.22	INAUGURATION CEREMONY 30 HOUR NON CREDIT WORKSHOP ON STRATEGIC FINANCE WAS LEARNES WAS BARNES (DEPARTMENT) WE SHOULD SEE THE ARREST WE SHOULD SEE

Sr. No.	Name of The Event	Date	Evidence
4.	"ENIGMA" A Technical Case Study Competition In Collaboration with Finance Club BIT Mesra & Robolution Club	26.02.22	FINANCE CLUB ENIGMA It seems and second se
5.	Internal Hackathon for Smart India Hackathon	14.03.2022	INTERNAL HACKATHOR INTERNAL LORE STATE OF THE DOSG AND ONE INTOWARDON COUNCE. BIT THEST A INTERNAL LORE STATE OF THE DOSG AND ONE INTOWARDON COUNCE. BIT THEST A INTERNAL LORE STATE OF THE DOSG AND ONE INTERNAL INTERNAL LORE STATE OF THE DOSG AND ONE INTERNAL INTERNAL LORE STATE OF THE DOSG AND ONE INTERNAL
6.	World Earth Day Celebration The event was organized for a full one-week celebration which started on 18 th April to 22 nd April 2022 with a competition of River Mapping on Indian Map. Soil and Water Conservation, Earth Day with Plantation of Ashoka Tree	18.04.22 to 22.04.2022	GREENING OF EARTH Painting Competition on the Things I. SOIL AND WATER CONSERVATION PARTICIPANTS OF Thindson and to Thingship to the Month of the
7.	"National Technology Day" 'From Science to Systems: An imperative for 21st Century India'.	11.05.22	TECHNOLOGY DAY ANATONAL TECHNOLOGY DAY TECHNOLOGY D

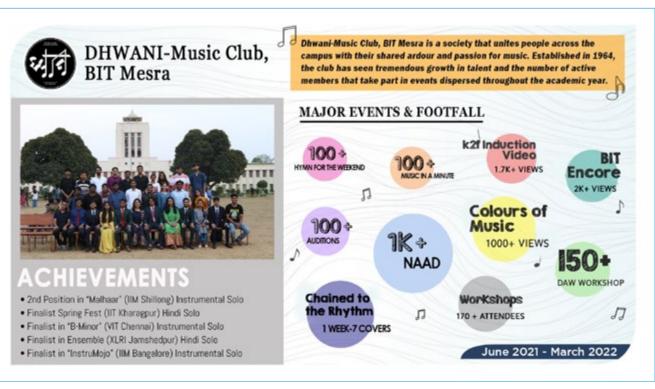
Sr. No.	Name of The Event	Date	Evidence
8.	World Environment Day The Institution's Innovation Council (IIC), in collaboration with the National Service Scheme and EPAC, Birla Institute of Technology, Mesra, celebrated World Environment Day on 5th June, 2022. The entire event was divided into three significant drives, namely Awareness Drive, Plantation Drive, and Cleanliness Drive.	05.06.2022	

Students Club Activities











ACHIEVEMENTS

- FINALIST

KEEL ANDRODY, JD., CONTROLD IN MA TROMAN

- FINALIST a "RESHUL YOUR

- 15T RUNNER UP

IN THE RESERVE AND THE SERVE

- IST RUNNER UP

IN LIGHTER HELDS . D., CHOICES IN C'YR Y KNOOF IL NAH

ERBAND DRAMMING SOCIETY IS ONE OF THE MOST PROMINENT CULTURAL CLUSS OF BIT MISSIA-BRIND AROUND FOR MOBE THAN A DECADE, SOME PROMISING AND TALENTED ACTORS, WRITERS AND DIRECTORS HAVE BEEN IT'S SARE WE ARE A TEAH OF DOAMA AND THATRE ENTHUDIATE ERBANDING MANURETY OF ART FORMS LIKE STADE PLAY, STREET PLAY, HIME, MUSICAL SUIT. STAND-UP CORDOT AND SHORET PLAN MAXING.

MAJOR EVENTS AND FOOTFALL



APOORV DRAMZEST 110- AWARD DISTRIBUTIONS



BALLYHOO 129 PARTICIPANTS





DRAMANITE 30- PARTICIPANTS



BARDS AND BREWS



KASHISH FEST 800- PARTICIPANTS

JUNE 2021 - MARCH 2022





About EEESoc

established in the year 2013 to promote technical growth and overal development of the student of EEE department.

The first president of the society was Jaivardhan Shivam under the patronage of Dr. T. Ghose and the faculty advisor Dr. R. C. Jha

.

Electrical and Electronics Engineering Society (EEESoc), BIT Mesra

Events and Footfalls

- Organised Summer Project Programme 65
- Organised Student Mentorship Programme 75
- EEESoc Interview Experience 20
- Organised Dev Week 50

Achievements

- Anshu, Suraj, Aditya, Shreya and Souhardya were a part of a team that qualified for Science India Hackathon 2022 in College level.
- Souhardya was a part of a team in Eyantra and went upto Quarter Finals.
- Suraj was Third Prize Winner At Hackstar Bengalu ru'22 organised by Deccan herald and MBRDI.
- Suraj was First Prize Winner At Tech-A-Thon by ECESoc BIT Mesra.





ACHIEVEMENTS

- Spread awareness among students on how they can pursue their career in the field of Electronics.
- Conducted workshops and quizzes to give an overview on the basic of Electronics.
- Conducted TECH-A-THON which has shown the participation from various prestigious colleges across the country.

The Electronics And Communication Society, BIT Mesra is a group of Electronics enthusiasts who share the compassion of innovativeness and creativity. The society conducts various activities including quizzes and workshops in the college to arouse the interest of the students in the subject.

MAJOR EVENTS & NO. OF PARTICIPATION



June'21 - June'22

ANNUAL REPORT 2021-22









The Environment Protection and Awareness Club of BIT Mesra, popularly known as EPAC, is the student club whose primary motive is to instigate awareness about the detrimental effects rapid urbanisation and industrialisation has on our environment, and provide a space for contemplating the possible solutions to lift this pressure. We, as the student body, aim to improvise the existing systems which lay in the favour of nature and thusly started a plethora of initiatives in our lush green Institute Campus, and elsewhere, to aid the upliftment of the environment, and inform our peers about the consequences of an unhealthy

FLAGSHIP EVENTS

- Jumanji
- Jharkhand Science and Environment Fest

MAJOR EVENTS

- Natframes
- Beyond Crisis

WEBINARS

- Know and Grow by Mrs. Nupur
- Energy Conservation Day by Mr. Akhilesh Kumar

OTHER INITIATIVES

 Plant More Trees on the occasion of Van Mahotsav

ACHIEVEMENTS

EPAC organized EPAC launched its website





At IEEE, we believe in disseminating what we know and learning what we don't. IEEE Global and its members aim at a better tomorrow through its more than 420,000 members in over 160 countries, and its highly cited publications, conferences, technology standards, professionals and educational activities.

MAJOR EVENTS

The Lost Coding

Code Weekender

200+ 200+

C/C++ Workshop 160+

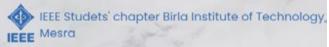
Educational CP contest 150+

Lead 2.0 Git GitHub Workshop 100+ 100+

t GitHub Mega orkshop Project 100+ 75+

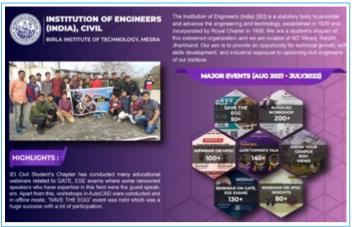
Member Count 101

July'21 - July'22

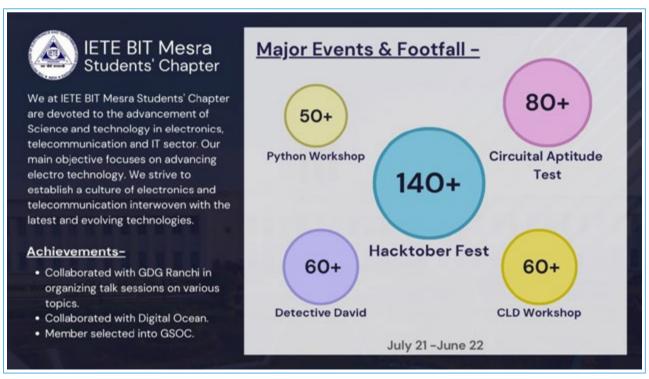




BEE BIT MISRA BELEVES IN A CONSTANT ENDEAVOR TO INCUCCATE AMONG STUDENTS THE REQUISITE KNOWLEDGE TO CATCHUP WITH THEIR PEERS ACROSS THE GLOBAL COMMUNEY. THE CLUE ENSURES THIS THROUGH QUALITY WORKSHOPS ON CONTEMPORANT FORCS AND THROUGH FUNTIS WHICH A RRE MATED AT SHARPENING COORDITION AMONG PARTICIPANTS AND ORGANIZERS ALIKE THE MEMBERS OF THE STUDENT BRANCH HAVE ACCESS TO A PLETHORA OF OPTIONS WHERE THE CLUB OPENS UP BEFORE THEM VARIOUS PLATFORMS FOR THEIR SPECIFIC PIELD.

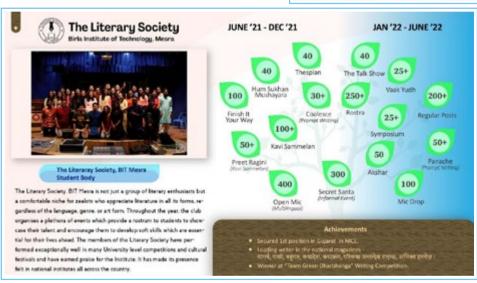














News and Publications Society



ACHIEVEMENTS

1ST POSITION

IN "BOLO AZADI" POETRY COMPETITION ORGANISED BY MAHE, MANIPAL

8TH POSITION

IN "QUEERENTINE" ORGANISED BY IIT GANDHINAGAR

The News and Publication Society of BIT Mesra consists of a dedicated bunch of Quasi-Workaholics striving to make a staggering impact amidst the cacophony and hullabaloo of the vibrant and ever-dynamic campus life of BIT Mesra.

MAJOR EVENTS AND FOOTFALL



THE JOURNALIST'S HOUR

WRITING WORKSHOP











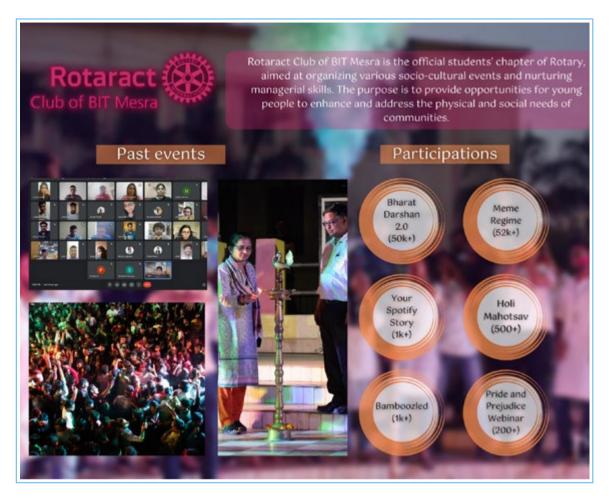
JUNE 2021 - MARCH 2022

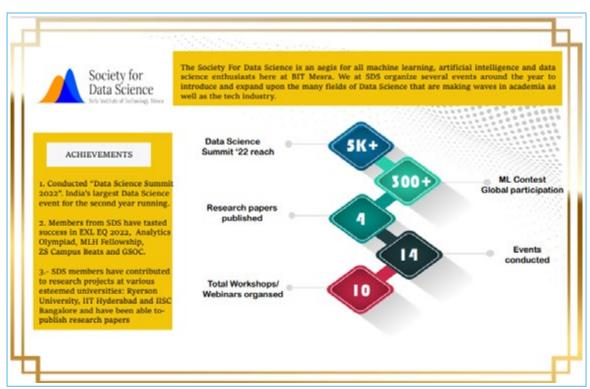














Formula Student UK July 2021 August 2021 Garud Manufacturing

Science Fest Car Expo 25 February ,2022

FORMULA BHARAT Rule Quiz Il June , 2022

FORMULA GREEN CRD presentation 9 July , 2022 FORMULA GREEN BPP presentation 16 July, 2022

Team Srijan is the Formula Student team of Birla Institute of Technology MESRA, that has been growing steadily since 2007. We are a group of 35 undergraduate students from various engineering streams who have come together to conceive, design and manufacture and test an



United Engineers' Speaking & Quizzing Organization The United Engineers Speaking and Qzizzing Organization (UNESQUO) is the official quizzing and oratory body of BIT Meera. The club is led by a group of top-tier orators, debaters, and quizzers who feel that erudation and confidence are two essential elements of one's persons that must be nurtured in order to be cornerstones to a prosperous future. The club's augmenting incentive its provide a rostrum for students and to introduce them to a multitude of opportunities, encouraging them to acquire the confidence and composites they need to establish themselves in the professional world. These invigorating events put one's eloquence, presence of mind, confidence, and, most importantly, cognition to the test.

ACHIEVEMENTS

During the year, UNESQUO conducted plenty of oratory and quizzing events in the online mode attrating massive participtions from institutions across the country.

B 1st Position in Filmbuzzers Movie Quiz 21 by XIM.
B Best Delegate at the JECRC MUN 22 in Jaipur.
B 2nd Position in Bamboozled Pop Culture Quiz 21 by XLRJ Jamshpur.

B 3rd Position in Arthushastra Art Quiz '21 by St. Stephen's College. DV.

M 3rd Position in Sci Tech Quiz in Linquiztics'21 by MPI.
B Participated in the Model United Nations Refugee Challege under United Nations High Commissioner For Refugees' with the agenda Protecting LGBTQI+ Refugees'.



Physical Education & Sports

- 1. Badminton Open Tournament 2021 -22 was organized from 02.9.2021 to 13.9.2021 inaugurated by Dean of students affairs BIT Mesra Ranchi on 02.9.2021. Total 16 teams participated from BIT Staffs and Research Scholars. Match was played on knockout Cum knockout basis final match was played between Priyank Saxena & S. Tripathy faculty (ECE) Vs Abhishek & Washim (Civil). They declared combined winner. Prof. Indranil Manna distributed the prizes to the winners. Most senior Prof S.S. Sahay and Registrar Sukhpal Singh awarded for senior and motivating person. On the occasion of final match Prof. A.K Sinha, Dr. K. Sridhar Patnaik, Dr. V.S Rathore, Dr. Sammer, Mrs. Nidhi Jaiswal, Dr. Abhijet Mustafi and another guest were present.
- 2. Knockout Cum knockout single staff & scholar students stated from 28.9.2021 to 06.10.2021 total 32 teams were participated. Chief guest Dr. Anand Kumar Sinha (Dean of student's affairs) distributed the prizes to winner -up Mayur, and runner -up Kunal.
- 3. Jharkhand Master Athletics association, Ranchi organized one day Athletic Meet on 26th September 2021. Dr. Mahua Manjhi Chief guest distributed the prizes.
- 4. Cross Country Race was organized on 02.10.2021 at 6.00 am on the occasion of **Gandhi Jayanti**. Prizes were distributed by Registrar Colonel Sukhpal Singh Khetarpal (Retd.) & other Senior Professor.

Results

	Men			Women	
Sr. No.	Name	Position	Sl No.	Name	Position
1.	Rajan Kumar	First	1.	Nilam Kumari	First
2.	Ranjeet Mahto	Second			
3.	Dilip Kumar	Third			

5. Cross Country Race for Staffs and wards was organized on 29.01.2022. prizes were distributed by Dr. Mahendra Kumar I/C Physical Education & Sports, Sri Rajesh Longiyer, Sri D.C. Murti (PTI). Results of the prizes winners.

	Men's			Women's	
Sr. No.	Name	Position	SI No.	Name	Position
1.	Abishek Soren	I	1	Naha Kumari	I
2.	Abinay Kumar	II	2	Anjali Kumari	II
3.	Rishav Deo Pandey	III	3	Neelam Kumari	III





6. The Final match of Inter Hostel Football Tournament will be played between Hostel No. 10 and Hostel No.12 on 22.03.2022. Hostel No. 10 winner and Hostel No. 12 Runner's – up. Chief guest Registrar Sukhpal Singh distributed the prizes.





7. Powerlifting Championship 2021–22 was organized on 23.3.2022.

Men's Results

	51 Kg – 59 Kg	Position		59 Kg - 66 Kg	Position
1.	Avijeet Kumar	I	1.	Siddhant	I
2.	Nawal Kishore Soren	II	2.	Saurabh	II
3.	Shobhit Jha	II	3.	Mohit Deep Singh	III
	66 Kg - 74 Kg			74 Kg – 83 Kg	Position
1.	Deepak Soren	I	1.	Atul	I
2.	Samanya Raina	II	2.	Rohan Saxena	II
3.	Sudip Chakraborty	III	3.		
	83 Kg - 93 Kg	Position		105 Kg - 120 Kg	Position
1.	Shashwat	I	1.	Tathajat Saranj	I
2.	Sauhard Suman	II	2.		
3.	Mukul	III	3.		





Women's Result

Weight -55	Weight -59	Weight - 60
Sanjhi Sharma (I)	Shweta (I)	Ambika (II)



- » Chief Guest Sri Inderjeet Singh (chief Judge), Prizes were distributed by Sri Inderjeet Singh.
- » Overall, Champion Deepak Soren (B. Tech.)
- » Present Officer & Staff's Prof. A.K. Sinha (Dean of Student Affairs), Col. Sukhpal Singh Khetarpal (Registrar), Dr. K.S Patnaik, Dr. S.K. Singh, Dr S.S. Sahu, Dr. Pankaj Gupta, Dr. Mahendra Kumar, Mr. Chirag (GYM Instructor), Mr. Durga Charn Murti (Assistant Physical Training Instructor) and Mr. Ranjeet Munda.





8. Inter Hostel Volleyball Final Tournament 2021 – 2022 was organized on 01.04.2022 Hostel No. 5 won the championship and Hostel NO. 12 Runner -up. Chief Guest Sri Prashant Kumar Police Commissioner (RPF) SER Ranchi distributed the prizes.





9. Inter Hostel Basketball Final Tournament 2021 – 2022 was organized on 06.04.2022 Hostel No. 5 won the championship and Hostel No. 12 Runner up. Chief Guest Dr. Anand Kumar Sinha (DoSA) and Guest of Honour Smt. Dr. A. Nigam distributed the prizes.





10. Inter Hostel Badminton Tournament 2021–2022 was held on 08.4.2022. Results is Men's & Women's final are:

Men's Section

» Winner - Ved Prakash Gope (Single) Harshjeet & Armaan (Double)





Women's Section

Winner - Meghana Tripathy (Single)Meghana Tripathy & Harshal Jain (Double)

Value Education Cell

A Value Education Cell has been setup in the Institute under the guidelines of AICTE. It aims for Holistic development of students and also to create a pool of potential faculty members to propagate value-based quality education in the institute.

Value Education Cell implements teaching of Universal Human Value courses proposed by AICTE. The BOS has approved "MT131: Understanding Harmony" in line with Universal Human Value course to be taught in 3rd or 4th Semester in all engineering departments.

30 Faculty Members have undergone online/offline faculty development program on "Inculcating Universal Human Values in Technical Education" conducted by AICTE.

Value Education Cell conducts Students Induction program for newly inducted first year UG students in the institute, which aims to make students familiar with the ethos and culture of the institute and help them set a healthy daily routine and also to create bonding in batch as well as between faculty members and students.

Students Induction program (SIP) was conducted for MO 2021 batch during December 15th, 2021 to Jan 3rd 2022 using MS Teams platform where more than 550 freshly inducted students actively participated who were introduced to Institute facilities, administrative resources, club activities, annual sports, technical and cultural events. The students were also exposed to various aspects of academic and personal well-being such as Importance of yoga in mental health, association of happiness with relationships, aspects of uncertainties in life and coping mechanism through self-management, gender and socioenvironment sensitiveness, and Importance of extracurricular activities in self-management.



Words of Encouragement by Hon'ble Vice Chancellor, BIT Mesra: Prof. Indranil Manna

SIP Committee



Prof. Indranil Manna
Hon'ble Vice Chancellor, BIT Mesra
and Patron Value Education Cell



Dr. Vibha Rani GuptaDean of Undergraduate Studies



Dr. Sanjay JhaController of Examinations



Dr. Sanjay Kumar Chairperson: Value Education Cell



Dr. K. S. PatnaikConvenor: Value Education Cell



Dr. Kirti AvishekUniversity Coordinator: Value
Education Cell



Mr. Mrinal Pathak
Co-cordinator: Value Education
Cell



Mr. Vishal H. ShahMember: Value Education Cell



Dr. Praveen MishraMember: Value Education Cell



Dr. Richa Pandey Member: Value Education Cell



Dr. Shashank Pushkar Member: Value Education Cell











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। कुलपित 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 कुलपित श्री इंद्रनील मन्ना हैं। वहीं संस्थान के कुल सचिव कर्नल सुखपाल सिंह खेतरपाल (सेवानिवृत्त) इस समिति के कार्यकारी सदस्य हैं। डॉ. अमित कुमार तिवारी, प्रकोष्ठ के कार्यान्वयन समिति के सदस्य सचिव हैं। सभी विभाग हिन्दी भाषा को बहुत महत्व देते हैं। राजभाषा प्रकोष्ठ के प्रतीक चिन्ह का कुलपित द्वारा अनावरण भी किया गया। 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। रविवार 27 जून, 2021 को चित्रा मुद्रल की पुस्तक "तिल भर जगह नहीं का लोकार्पण किया गया। 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। राजभाषा प्रकोष्ठ 5 दिन का हिंदी पखवाड़ा 9 सितंबर से 14 सितंबर तक धूमधाम से मनाता रहा है। इस वर्ष हुए कार्यक्रम का विवरण अधीलिखित है।

09/09/2021 : कवि सम्मेलन आगंतुक कवियों द्वारा और "अभिधा" का विमोचन

10/09/2021 : कवि सम्मेलन संस्थान के सदस्यों और विद्यार्थियों द्वारा

11/09/21 एवं 12/09/21 : छात्रों द्वारा "लॉकडाउन की यात्रा" विषय पर गद्य लेखन, नाटक, कविता, स्लोगन आदि प्रतियोगिताओं के लिए दो दिवसीय कार्यक्रम

13/09/2021 : हिंदी वेब गोष्ठी का आयोजन, विषय: "तकनीकी शिक्षा में हिंदी का योगदान"

14/09/2021 : हिंदी वेब गोष्ठी का आयोजन, विषय: "प्रौद्योगिकी संस्थान में हिन्दी का समावेश"

दिनांक 09/0 9/2021 को समारोह का उद्घाटन हुआ। राजभाषा प्रकोष्ठ के माध्यम से इस वर्ष "अभिधा" नामक पत्रिका प्रकाशित करके इस उद्देश्य में एक और आयाम जोड़ा गया। पत्रिका के प्रकाशन और प्रसार से संस्थान में और छात्रों के बीच हिंदी के उपयोग और संस्कृति को काफी बढ़ावा मिलेगा। हिंदी के प्रयोग से सरकारी गतिविधियों से परे भी संस्कृति और रचनात्मक कार्यों का विकास होगा। 10 सितंबर को डॉ ओ पी पाण्डेय, डॉ अमित तिवारी, डॉ नीरज सिंह, डॉ प्रवीण श्रीवास्तव, डॉ रजनीश, विद्यार्थियों और अन्य ने कविता पाठ किया। 11 सितंबर को दो प्रतियोगिता वक्तृत्व स्पर्धा तथा लेखन स्पर्धा हुई। इसमे

हर्ष अग्रवाल- प्रथम पुरस्कार, अभिनय कुमार- द्वितीय पुरस्कार, स्पर्श आनंद एवं शौर्य राज- तीसरा पुरस्कार तथा लेखन स्पर्धा में आयुष- प्रथम पुरस्कार, शौर्य राज- द्वितीय पुरस्कार तथा गोल्डी मिश्रा ने तृतीय पुरस्कार प्राप्त किया। डॉ ऋचा पाण्डेय की पुस्तक "मन के लम्हे" का भी लोकार्पण किया गया। हिन्दी में उत्कृष्ठ कार्य के लिए यूनिवर्सिटी पॉलीटेक्नीक की श्रीमती निरुपम को दिनांक 14 को सम्मानित किया गया। सम्मानित सदस्य में श्री अशोक प्रियदर्शी, और सुनील बादल (झारखंड के प्रबुद्ध पत्रकार) आदि को सम्मानित किया गया। दिनांक 10 जनवरी 2022, विश्व हिन्दी दिवस को शाम 4-6 बजे तक हिन्दी और अन्य क्षेत्रीय भाषाओं में तकनीकी शिक्षा पाठ्यक्रम शुरू करने के लिए संसाधनों की उपलब्धता पर एक संगोष्ठी आयोजित की गई, जिसमें डॉ ओम विकास, डॉ आर के पांडे, बनारस हिंदू विश्वविद्यालय, डॉ बुद्धा चंद्रशेखर, एआईसीटीई, प्राध्यापक सुदीप्ता चक्रवर्ती, बी आई टी, प्रो. अविनाश कुमार, डायरेक्टर, केन्द्रीय हिंदी डायरेक्टरेट(पूर्व), डॉक्टर प्रेम मोहन मिश्रा, एमएलएसएम कॉलेज बिहार, डॉ आरएस राठौर, स्किल यूनिवर्सिटी, डॉ राजीव रावत, आई आई टी खड़गपुर, और डॉ अंजू खंडेलवाल ने अपने विचार व्यक्त किए। इस कार्यक्रम का संचालन डॉक्टर मृणाल पाठक ने किया।

राजभाषा प्रकोष्ठ समय-समय पर संस्थान के समस्त विभागों, कार्यालयों के अधिकारियों, प्राध्यापकों और कार्मिक व्यक्तियों को राजभाषा अधिनयम के अनुसार कार्य करने की सलाह देता है, साथ ही वेबसंगोष्ठी द्वारा उन्हें शिक्षित भी करता है। प्रशिक्षण कार्यक्रम "भारत सरकार की राजभाषा नीति और संस्थान में कार्यान्वयन" का डॉ राजीव रावत, हिंदी अधिकारी, आइ. आइ. टी खड़गपुर द्वारा संचालित किया गया। जिसमें लगभग 60 लोगों ने भाग लिया। हमारे संस्थान की वेबसाइट, कई प्रकार के फॉर्म और पत्र द्विभाषीय हो गए हैं। प्रकोष्ठ के कार्यकारी समूह में संस्थान के छात्र-छात्राएं भी हैं जिसमें मानस कुमार, हिमांशु शेखर, इशिता श्रेष्ठ, देवलीना, प्राची प्रणम्या, आयुष वर्मा और अन्य सदस्य शामिल हैं।

ईमेल : inc.hindicell@bitmesra.ac.in अभिधा वेबलिंक : https://abhidha-bitm.web.app/mobile.html

SANSHRAY (Rekindling Hope)

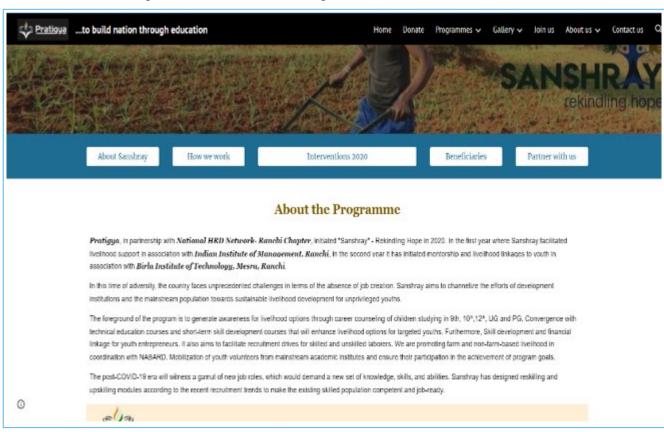
Department of Management in association with National HRD Network and Pratigya, an NGO, are working on Project "SANSHRAY" (Rekindling Hope) since June, 2021. Sanshray aims to provide the best career counselling to students at different early education stages to make them informed decisions about their career paths. In these difficult times where optimism is everything one needs, the MBA students, with the help of Pratigya, have chosen to be the guiding light for underprivileged children.

24 MBA students are working on the project.

The students have been divided under following teams:

- » Program Implementation One to one career counselling of selected students studying in class X, XII and Graduation. Pratigya provided profiles of 33 students who were assigned to the team equally for mentorship.
- » Research and Documentation Secondary research to prepare potential convergence schemes, development institutes and a compendium comprising all necessary details for different job roles.
- » IT Support- Creating database, dashboard, MIS and templates as per program requirements.

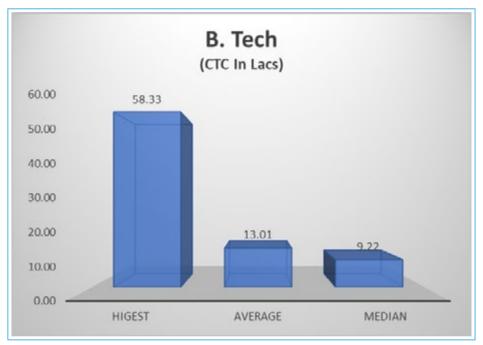
As the Covid-19 pandemic has shifted the entire world to an online space. Therefore, Sanshray adheres to the new normal and is being conducted online until things become normal.

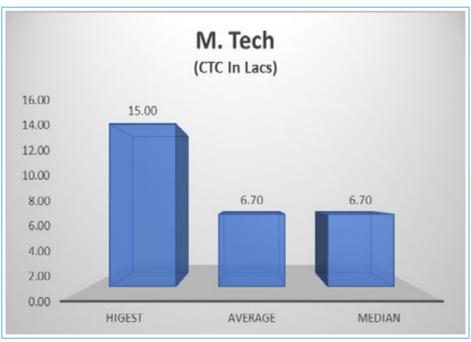


Training and Placement

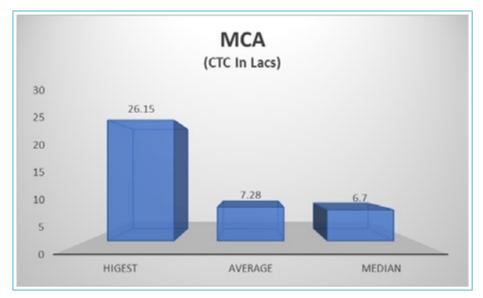
The Campus Recruitment Programme of BIT has been strengthening and nurturing value-added relationships with recruiters across a wide spectrum of industries over the years. Every year new milestones are achieved which speak for the strength of the BIT student community as well as the diversity in academic programmes. One of the key factors which bring BIT into limelight, as an institution of high repute, is its campus recruitment.

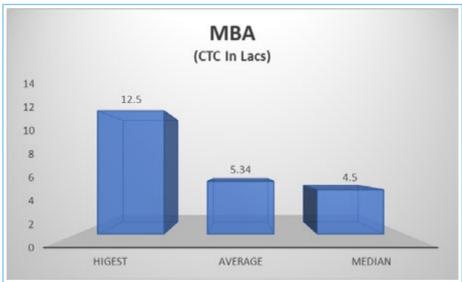
In the Campus Recruitment Programme of 2021–22, around 232 recruiters from different sectors visited for full time recruitment and internship, achieving an overall target of 925 job offers. The Mesra campus boasts of an average package of ₹ 13.01 Lacs per annum and the highest national salary of ₹ 58.33 Lacs per annum for BE Programme.

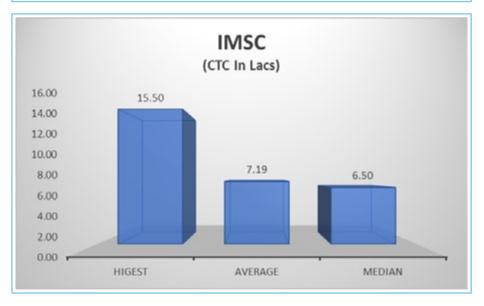


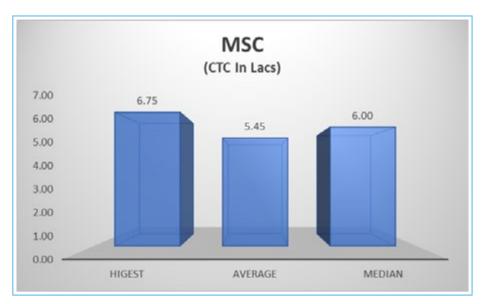


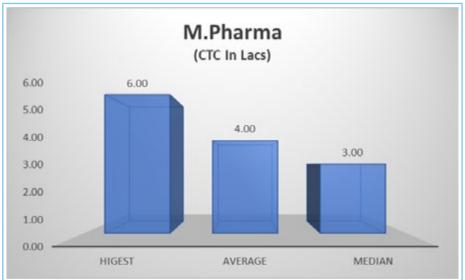


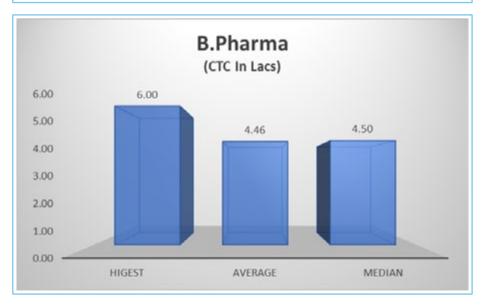












List of Company and Number of Offers (Full Time)

Table below shows the Student placed in various Departments of BIT Mesra

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	MCA
Aakash Institute		2	1			1	1		
Accenture		15							
Acty System									3
Additus Medi-Healthcare LLP				1					
Addverb		1							
Aditya Birla (Pantaloon)								6	
Aditya Birla Group		10							
Adrosonic		5					3		1
Airtel								1	
Albedo							2		
Amadeus		1							
Amantya Technologies									3
Amazon		2							
Amdocs		4	3						8
American Express		1							
Anchanto		2							
Aris Global		1	1						
Atlassian		4							
Axis Bank		4						1	
Axis Bank		4							
Bain Capability Network		3							
Bandhan Bank								5	
Barclays india								1	
BCN		1							
Bhanix Finance and Investment Ltd.							2		
Bharti Airtel								2	
Board Infinity								5	
Box8		1							
Briisk Global								5	
Byjus			1				1		
Byjus (Academic Specialist)			1	3	1	2			

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	МСА
Byjus (Content)		1	3	2					
Byjus (Faculty Position)						1	3		
Byjus BDA		1							
Capgemini		11	1						1
Carwale								1	
Chubb									3
ClearWater							2		
Cognizant Elevate		6	2				5		8
Cognizant GenC		35	6				10		17
Collabera								1	
Commvault		1							
Comviva		1							
Couture							1		
Daimler			1						
DE Shaw		2							
Delhivery		1							
Deloitte Consulting		39	2				4		7
Dezerv		1							
Dover		1							
DRL (B.Pharma)				4					
DRL (Engg)		1							
Ernst & Young Services Pvt. Ltd		2							
ESAF Small Finance								2	
Exl Services		16					5		1
FarEye		1							2
Fastenal		14					2		3
Federal Bank			1				2		
FICO									1
Flipspaces								1	
Gainwell		1							
Ganit							2		
Gap		4							
Genpact		5							1
GEP		3							

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	MCA
Goldman Sachs		7							
Goldman Sachs PPO		7							
Google		4							2
HCL Technologies		10	6						
HDFC Asset								1	
Hero MotoCorp		5							1
ICICI Bank								17	
ICICI Prudential								2	
ICICI Securities								3	
IDBI Bank								6	
ileadHR								1	
Incture Technologies		3					1		1
Infineon		1							
Infoedge		1							
Infosys		1	2				4	1	1
Infosys								2	
Interra Systems		1							
ITC - TM&D		4							
Jio Platforms		4							
Jio Platforms Ltd.		6							
JSW		3							
Jubliant Food		2							
JWIL		2							
Kantar		4							1
KMK Consulting									2
Knowlvers		2							
KPMG		26							
L&T		6	1						
L&T		1							
Logic Fruit Technology		4							
Lowe's PPO		1							
MAQ Software		1							3
Market Intelligence								2	
Maruti Suzuki		2							

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	MCA
Meibach		2							
Merkle Sokrati								1	
Microsoft - PPO		17							
Microsoft Off-Campus		1							
MindTickle		7							
MMT		2							
Nation with Namo		2							
Natwest Group			1						
NBC		2							
Nexus Power			1						
Nielson IQ									1
No Broker								3	
Nomura RI									1
Oracel OFFS		6	1						11
Oracle		13							
Paytm		20							
PEOPLESTRONG		2							
Pickrr		1							
Planet Spark		1						1	
Poncho Hospitality Pvt Ltd (Box8)		6							
PWC		30	1				7		
PWC PPO		6							
Reliance Industries Limited		20							
Reliance Jio Infocomm								1	
Revature									1
Robo MQ		2							1
Samsung R&D Bangalore		2							
Samsung R&D Delhi		9							
Samsung R&D Delhi PPO		8							
Samsung R&D Noida		4							
Scanpoint			1						
Schlumberger		2							
Signicent LLP			1		2		2		
Simpli Learn			1				2		9

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	MCA
Srelite Technologies		1							
Sunstone Eduversity								6	
SVI Public Company Limited, Thailand		1							
SWYM		1							
Synopsys		8							
Tata Autocomp		2	3					1	
Tata Digital		2							1
Tata IQ		1							
Tata Motors		4							
Tata Power		2							
Tata Steel		5							
TATA STEEL DOWNSTREAM		2							
TATA STEEL LONG PRODUCTS LTD		1							
Tata Steel PPO		3							
Tata Technologies		1							
Tata Unistore Limited		2					2		
Tech Mahindra		3							
Techture structures	1	1							
Times Internet							1		
Tredence Analytics Solutions Pvt Ltd		7							
Trumind		1					1		
Ugam Solutions		2					2		
Unilever		1							
Utkarsh Bank								1	
VMWARE		4							
Walkaroo								3	
Walmart Labs		11							
Walmart PPO		5							
Wells Fargo		5							
Wells Fargo PPO		4							
white Hat Junior		6					2		
Wipro Turbo		10					13		

Company Name	B.Arch	B.Tech	M.Tech	B.Pharm	M.Pharm	M.Sc	Integrated M.Sc	МВА	МСА
Xiaomi								2	
Xoxo Day									2
Yamaha		1							
Zensar		2							
ZS Associate		13							
ZS PPO		8							

List of Company and Number of Offers (Internship)

Recruiter Name	Pre- Final Year	Final Year
Accenture	7	
Addverb		1
Adobe Systems	2	
Adrosonic		8
Adrosonic (MCA)		1
Aegon Life		2
Agile Capital Services	7	
Amantya Technologies		3
Amazon		7
American Express		3
Anchanto		2
Atlassian	4	
AxisBank	4	6
Bain & Co		6
BHARTI AIRTEL LIMITED	1	
Capital Flot		3
Chawla Publication	2	
Cisco		1
Commvault		1
CropIn		2
Delighful Gourmet Pvt Ltd		1
Dover		1
DRL Engg.		9
DRL Phrma.		7
Ericsson Global IT Services		1
Fastenal	2	19
Flipkart		2
Future First		6

Recruiter Name	Pre- Final Year	Final Year
Ganit		2
GAP	5	
Genpact		10
GEP	5	
Goldman Sachs	6	13
Google		
Great Learning		3
Infineon		6
Infoedge		1
Interra Systems		1
ISWPL	4	
ITC - TM&D	2	
ITC Centre	2	
Jiyonwall	2	
Jubliant Food		8
KPMG		26
Leadsquare	1	
Logic Fruit		4
Magnik India	3	
MAQ Software		4
Microland		7
Microsoft	29	1
Miebach		2
MindTickle		9
MMT		2
MOZOHunt	3	
Nexus Power		1
Nielson IQ		1
Nomura RI		1
Oracle GBU		13
Oracle OFFS	5	
Paytm		20
Philips		2
Praedico Global Research Pvt. Ltd	4	
Publicis Sapient		2
Puresh Daily Foods Pvt.ltd.	3	
PWC	20	
Relecura		3

Recruiter Name	Pre- Final Year	Final Year
Robo MQ		3
Salesforce	3	
Samsung Bangalore	13	
Samsung R&D Delhi		12
Samsung R&D Noida		5
Siemens Industry		2
Signicent LLP		5
Smartserv		3
Star TV		1
Steradian Semiconductor		4
SWYM		1
Synopsys		8
Tata Steel	4	
Tata Unistore Limited		4
Tech Mahindra		3
The Gene Box		1
Times Internet		3
Trumind		2
Verzeo		12
VMWARE		5
Walmart	6	30
WELLS FARGO	10	9
Workex Solutions and Services Pvt. Lmt.		3
WOXEN DIGITAL for MBA	11	
ZS Associate		21

Central Instrumentation Facility

Central Instrumentation Facility, at BIT Mesra, has been created with an objective of providing a central facility of latest and advanced analytical techniques for research in various areas of science and technology. It houses several highly sophisticated and modern analytical equipments offering its users, a wide range of analytical methods/techniques for chemical/material analysis/testing/characterization enabling them to keep pace with developments taking place globally, publish their research findings in peer reviewed high impact factor journals and through their concerted efforts contribute to the upliftment of the society at large. This facility is extensively used by undergraduate and post graduate students, doctoral research scholars and faculty members. The facility

is also extended to external organizations (Industry, academic Institutions and R & D Labs) on chargeable basis. Presently Research Scholars from Departments of Chemistry, Physics, Civil and Environmental Engineering Pharmaceutical Science Technology, Bioengineering, Chemical Engineering and Technology, Mechanical Engineering, Production Engineering, Space Engineering and Rocketry, Hotel Managment and Catering Technology, Electrical and Electronics Engineering, Electronics and Communication Engineering and Remote Sensing are extensively using this facility. This facility is also used for organizing short term courses/ workshops on the use and application of various instruments and analytical techniques.

Services provided by the CIF

A. Analytical Services:

- i) Sample Preparation: CIF provides facilities and assistance in sample preparation to the users.
- ii) Sample Analysis: CIF carries out analysis of samples received from researchers and provides spectra/results of analysis on routine basis.
- iii) Testing facility: CIF caries out testing of quality of raw materials and end products for industries.
- iv) Water Quality Testing: CIF carries out water quality testing as per the BIS norms.

B. Short Term Courses/ Training Programmes: The CIF organizes the following types of

Short term courses/Training Programmes / Workshops on application and use of various

Instruments available at CIF:

A. Spectroscopy:

- Inductively coupled plasma optical emission spectroscope, (OPTIMA 2100DV ICP-OES), Perkin Elmer, USA.
- 2. Ultraviolet-Visible Spectroscope, (Lambda25), Perkin Elmer, USA.

instruments and analytical techniques for UG /PG students, research scholars, faculty members, teachers and personnel from other academic institutions, R&D Labs and industries. Repair/maintenance and operation of sophisticated instruments for technicians.

C. Consultancy on analytical problems:

The CIF offers consultancy on solution to analytical problems including development of analytical methods for specific needs, sampling problems, spectrum analysis and interpretation of results etc. as well as on R&D problems/issues.

D. Repair and maintenance of high end instruments:

The CIF personnel make a concerted effort to develop expertise to repair and maintain the high end instruments available with them.

- 3. FTIR Spectrophotometer, Mid IR Range (IR-PRESTIGE 21), Shimadzu, Japan.
- FTIR Spectrometer, Far & Mid IR Range(L1280044), Perkin Elmer, USA
- 5. FTIR Spectrometer, Far & Mid IR Range (L1280026, Frontier NIR), Perkin Elmer, USA

- 6. Color Measurement System, (Colorflex), Hunter Lab, USA.
- 7. Spectro Fluoro photometer, (RF-5301 PC), Shimadzu, Japan.
- Nuclear magnetic Resonance Spectroscopy (JNM ECZ400S/LI), Jeol, Japan
- Dynamic Light Scattering, (NANO ZS), Malvern Instruments, UK.

B. X Ray Diffraction:

- X-Ray Diffractometer (Smart Lab 9KW), Rigaku, Japan
- 2. Single Crystal X Ray Diffraction, Rigaku, Japan

C. Microscopy:

- 1. Scanning Electron Microscope (SEM), (JSM-6390 LV), JEOL, Japan.
- Field Emission Scanning Electron Microscope, (Sigma300) CarlZeiss, Germany
- 3. Atomic Force Microscope , (Solver Pro-47), NT-MDT, Russia.

D. Thermal Analysis:

- 1. Thermo Gravimetric Analyzer, (DTG-60), Shimadzu, Japan.
- 2. Simultaneous TGA-DTA-DSC, (Discovery SDT 650) Waters, USA
- 3. Differential Scanning Calorimeter, (Q-10), TA Instruments, USA.
- Modulated Differential Scanning Calorimeter (Discovery DSC 25), Watrs, USA
- 5. Thermal Conductivity Analyzer (LFA 467), Netzsch, Germany

E. Chromatography:

- Gel Permeation Chromatograph, Waters, USA.
- 2. Ion Chromatography (ICS 5000), Thermo Fisher, USA
- Analytical HPLC (Vanquish), Thermo Fisher, USA

- 4. Flash Chromatography(Cheetah, MP 200), Bonna Agela, USA
- 5. Analytical Cum Semi Preparative HPLC (Ultimate 3000), Thermo Fisher, USA
- 6. HighPrecisionThinLayerChromatography, Camag, Switzerland
- 7. Liquid Chromatography Mass Spectrometry (Ultimate3000, LTQXL), Thermo Fisher, USA

F. Water and Soil Analysis:

- Ion Analyzer(VERSA STAR), Thermo Orion, USA
- 2. Anodic Stripping Voltammeter, Metrohm, Switzerland
- 3. Microwave Digestion System, (Multiwave 3000), Anton Paar, Austria.
- 4. Flame Photometer(CL 378), Elico, India
- 5. pH Meter (2 Star), Thermo Orion, USA
- 6. Turbidity Meter(AQ 3010), Thermo Orion, USA
- 7. Conductivity Meter (4 Star), Thermo Orion , USA
- 8. Colorimeter (), HACH, Usa
- 9. COD Reactor (DRB 200), HACH, USA
- 10. Magnetic Stirrer (MCO2), Tarson, India
- 11. Shaking Incubator, Lab Tech
- 12. Hot Air Oven
- 13. Muffle Furnace
- 14. Centrifuge Machine

G. Other Facilities:

- 1. Electrochemical analyzer, (680B), CH Instruments, USA.
- 2. CHNSO Analyzer (Vario EL III), Elementar, Germany.
- 3. Pulse Analyzer, (OR 38/ ORS), Oros SA, France.
- 4. Mercury Porosity meter, (PASCAL 440), Thermoelectron, Italy



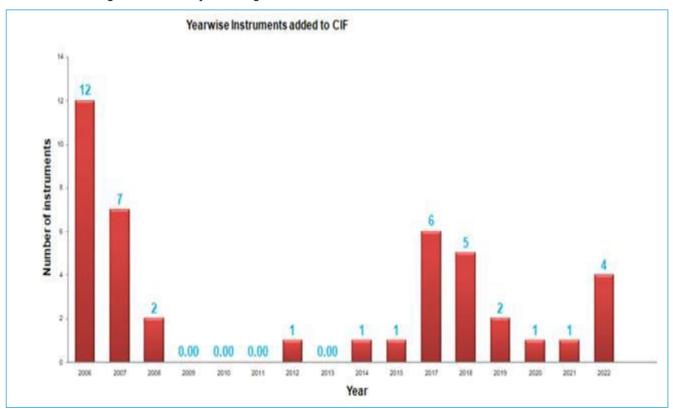
- 5. Universal Testing Machine , (8801), Instron, UK.
- 6. Impedance Analyser, (Alfa ATB), Novocontrol Tech, Germany.
- Optical Contact Angle (OCA), (OCAH 230), Dataphysics, Germany.
- 8. Dynamic Contact Angle , (DCAT-21), Dataphysics, Germany.
- Printed Circuit Board (PCB), (LPKF PCB), Germany.
- 50. Ellipsometer (Se MG-VIS) Nano View Inc., Korea

- 11. 51. Machine Fault Simulator(MFS2010), Spectraquest Inc., USA
- 12. 52. BET Surface Area Analyser, Quantachrome Instruments, USA
- S3. Rheometer(MCR320), Anton Paar, Austria
- 14. 54. Tribometer(TR 705), Ducom Instruments, Banglore

Procedure for Submission of samples:

For internal (BIT) samples the student/ faculty member has to fill up the specific form for the instrument, which is then signed by the respective departmental head during submission of the samples. The charges are deducted from the annual research budget of the concerned department or project fund (if any). For outsiders, there will be CGST of 9% and SGST of 9% along with the analysis charges and the

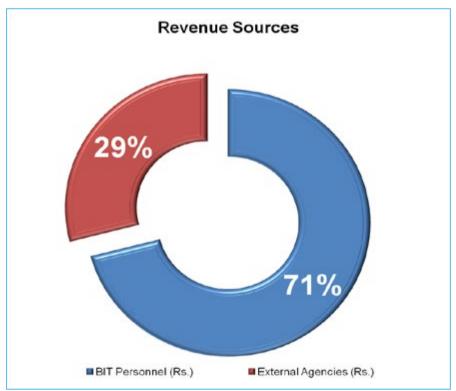
payment has to be made in the form of demand draft (DD) drawn in favour of "Birla Institute of Technology " from any Nationalized Bank, payable at Ranchi. For Invoice, user is requested to send/bring a self addressed envelope with stamp of requisite amount.



Revenue Generated:

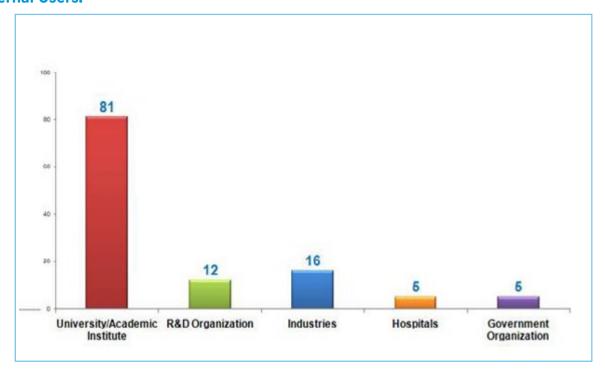
Total revenue of ₹62, 06,641.00 (Internal; ₹54,82,650.00, Outsider: ₹7,23,991.00) was generated in the FY 2021–22.







External Users:





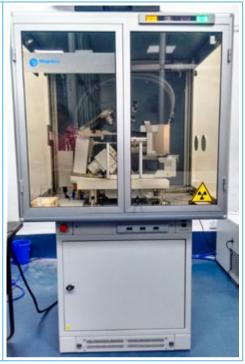
















Central Library

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. Library has been fully automated with RFID technology using Koha software. The collection comprises of print and electronic documents in the field of basic science, engineering, pharmacy, management, Architecture & Planning and hotel management. Online journals like IEEE, Science Direct, Springer, ABIC, Statista and others subscribed through Institute fund & e-Shodh Sindhu Consortium. E-Library section consisting of a number of networked terminals to access e-journals, e-books and other e-reference resources to the library users under Intranet and Internet environment.

Print Books		
Total Volumes	:	1, 52,149
Total Titles	:	49,282
Online Books	:	2, 13,000
Online Journals, Conference		
Proceedings, Standards	:	38,683
Print Journals/Magazine	:	174
Print Journals		
Indian	:	174
Foreign	:	00
Magazine	:	00
Indian	:	00
Foreign	:	00
CD/ DVD	:	4,400
Bound Volumes	:	18,902
Library home page	:	http://bitmesra.ac.in/library/default.asp
Library Services	:	Bibliographic services
		Document Lending Services
		E Document Delivery Services
		Inter Library Loan
		Language Laboratory
		Literature search
		New arrivals
		News clippings
		Off Campus Service
		ON/Offline database search
		Reference
		Referral
		Reprographic
Library Membership	:	7,402

The library serves more than 5000 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

Library Consortium/Membership

Central library enrolled its membership for following consortium

- » e-Shodh Sindhu Consortium
- » Shodh Ganga
- » NDL India



Library Statistics

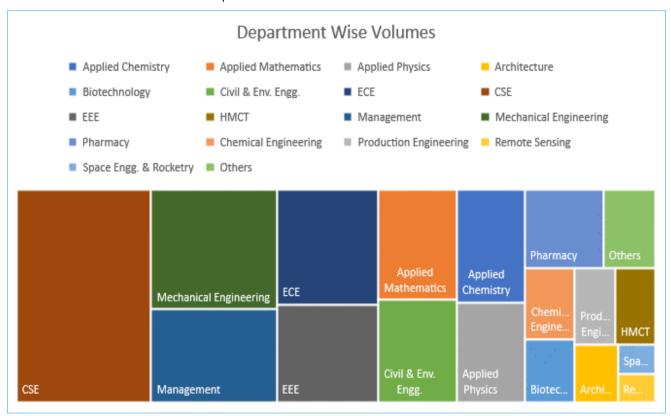
Total Books Added: Title - 43 & Volumes - 359

Total Journals Procured: Print - 174 & Online - 38,683

Total Online books Procured: 2,13,000

Total Number of Membership enrolled: 1,055

Total Number of Books Issued : 4,786 Total Number of Books Returned : 5,165



Details of Online Journals/books/thesis & dissertations

SI.No.	Publishers	Web Link
1.	ABI/Inform (Management Collection)	http://search.proquest.com
2.	American Chemical Society	http://pubs.acs.org
3.	American Institute of Physics	http://www.aip.org
4.	American Physical Society	http://www.aps.org
5.	Annual Reviews	http://www.annualreviews.org
6.	EBSCO (e-book Academic Subscription)	http://web.ebscohost.com
7.	Economic & Political Weekly	http://www.epw.in
8.	Elsevier's Science Direct	http://www.sciencedirect.com
9.	Chemical Engineering	http://www.sciencedirect.com

SI.No.	Publishers	Web Link
10.	Chemistry	http://www.sciencedirect.com
11.	Engineering	http://www.sciencedirect.com
12.	Materials Science	http://www.sciencedirect.com
13.	Pharmacology, Toxicology and Pharmaceutics	http://www.sciencedirect.com
14.	Grammarly (Online Grammar & Spell checker)	http://www.grammarly.com/edu
15.	IEEE/IEL Online	http://ieeexplore.ieee.org/Xplore
16.	Project Muse	http://muse.jhu.edu/browse
17.	Springer Link	http://www.springerlink.com
18.	Taylor & Francis	http://www.tandfonline.com
19.	iThenticate (Anti Plagiarism Tool)	https://www.ithenticate.com/
20.	Shodh Shuddhi Resource URKUND (Anti Plagiarism Tool)	https://pds.inflibnet.ac.in
21.	Web of Science (Bibliographic Database)	http://apps.webofknowledge.com
22.	RemoteXs	https://bitmesra.remotexs.in

Annexure-I: List of Deans and Associate Deans

Deans

Sr. No.	Name and Address	Designation
1.	Dr. (Mrs.) Vibha Rani Gupta Professor Department of Electronics and Communication BIT-Mesra, Ranchi	Dean of Undergraduate Studies
2.	Dr. (Mrs.) Nisha Gupta Professor Department of Electronics and Communication BIT-Mesra, Ranchi	Dean of Postgraduate Studies
3.	Dr. Kunal Mukhopadhyay Professor Department of Bioengineering and Biotechnology BIT-Mesra, Ranchi	Dean of Faculty Affairs
4.	Dr. Anand K. Sinha Professor Department of Civil and Environmental Engineering BIT-Mesra, Ranchi	Dean of Student Affairs
5.	Dr. C. Jeganathan Professor Department of Remote Sensing BIT-Mesra, Ranchi	Dean of Research, Innovation, Entrepreneurship
6.	Dr. (Mrs.) Manjari Chakraborty Professor Department of Architecture BIT-Mesra, Ranchi	Dean of Infrastructure and Planning
7.	Dr. Sudip Das Professor Department of Space Engineering and Rocketry BIT-Mesra, Ranchi	Dean of Admission, Accreditation and Coordination and Director (Internal Quality Assurance Committee)
8.	Dr. Utpal Baul Professor Department of Management BIT- Mesra, Ranchi	Dean of Alumni and International Relations

Associate Deans

Sr. No.	Name and Address	Designation
1.	Dr. Vinod Kumar Nigam Associate Professor Department of Bioengineering and Biotechnology BIT-Mesra, Ranchi	Associate Dean (Student Affairs)
2.	Dr. K. Sridhar Patnaik Associate Professor Department of Computer Science and Engineering BIT-Mesra, Ranchi	Associate Dean (Student Affairs)
3.	Dr. Ritesh Kumar Singh Associate Professor Department of Production and Industrial Engineering BIT-Mesra, Ranchi	Associate Dean (Faculty Affairs)
4.	Mr. Vishal H. Shah Assistant Professor Department of Electronics and Communication Engineering BIT-Mesra, Ranchi	Associate Dean (Alumni and International Relations)
5.	Dr. Sujan Kumar Saha Associate Professor Department of Computer Science and Engineering BIT-Mesra, Ranchi	Associate Dean (Undergraduate Studies)
6.	Dr. Laxmi Narayan Pattnaik Associate Professor Department of Production and Industrial Engineering BIT-Mesra, Ranchi	Associate Dean (Postgraduate Studies)

Annexure II

Board of Governors

Sr. No.	Name	Official Designation	In the Capacity Of
1.	Shri C.K. Birla	Chairman CK Birla Group	Chairman
2.	Joint Secretary (CU)	Dept. of Higher Edu. MoE, New Delhi	Member (Nominee of MoE)
3.	Addl. Secretary – II	University Grants Commission (UGC) New Delhi	Member (Nominee of UGC)
4.	Professor. Ajit K. Chaturvedi	Director, IIIT-Roorkee	Member (Nominee of AICTE)
5.	Shri K.K. Khandelwal, IAS	Addl. Chief Secretary Dept. of HTE- GOJ	Member (Ex-Officio)
6.	Shri Nitin Madan Kulkarni, IAS	Pr. Secretary to Hon'ble Governor	Member (Nominee of the Chancellor)
7.	Shri Nitin Madan Kulkarni, IAS	Commissioner South Chhotanagpur, GOJ	Member (Ex-Officio)
8.	Shri Rohit Saboo	M/s. National Engineering Industries Limited	Member (Nominee of the HCT)
9.	Shri S.N. Agarwal	Chairman M/s Bhoruka Power Ltd.	Member (Nominee of the HCT)
10.	Professor. (Dr.) Indranil Manna	Vice Chancellor	Member (Ex-Officio)
11.	Dr. Swapan Kr. Ghorai	Professor Dept. of ELECTRONICS AND COMMUNICATION ENGINEERING, BIT Mesra	Member (Institute Faculty)
12.	Dr. Itu Snigdh	Asst. Professor Dept. of CSE, BIT Mesra	Member (Institute Faculty)
13.	Dr. P. Ghosh	Executive Director BISR	Member (Nominee of GC)
14.	Dr. Arup Roy Choudhury	Pr. Advisor to West Bengal Govt.	Member (Nominee of GC)
15.	Shri Aroop Zutshi	Fremont, CA-94539 USA	Member (Nominee of GC)
16.	Shri Y. Goenka	Treasurer Honorary Birla Tower, New Delhi	Special Invitee
17.	Col. Sukhpal Singh (Retd.)	Registrar	Secretary (Ex-Officio)

Annexure III

Academic Council

Sr. No.	NAME	DESIGNATION	DEPARTMENT	As
1.	Dr. Indranil Manna	Vice Chancellor		Chairman
2.	Dr. (Mrs.) Nisha Gupta	Dean	Post Graduate Studies	Member
3.	Dr. (Mrs.) Vibha Rani Gupta	Dean	Under Graduate Studies	Member
4.	Dr. Sudip Das	Dean	Admission, Accreditation and Academic Coordination and IQAC	Member
5.	Dr. Utpal Baul	Dean	Alumni and International Relations	Member
6.	Dr. Kunal Mukhopadhyay	Dean	Faculty Affairs	Member
7.	Dr. C. Jeganathan	Dean	Research, Innovation and Entrepreneurship	Member
8.	Dr. Anand Kumar Sinha	Dean	Student Affairs	Member
9.	Dr. (Mrs.) Manjari Chakraborty	Dean and Head of Department	Infrastructure and Planning; Architecture and Planning	Member
10.	Dr. Sanjay K. Jha	Controller of Examinations	Examination	Member
11.	Dr. K. K. Senapati	Controller of Admissions	Admission, Accreditation and Academic Coordination	Member
14.	Dr. Rakesh Kumar Sinha	Professor and Head of Department	Bioengineering and Biotechnology	Member
15.	Dr. Akhil Kr. Sen	Associate Professor and Head of Department	Chemical Engineering	Member
16.	Dr. Ashoke Sharon	Professor and Head of Department	Chemistry	Member
17.	Dr. Sudeshna Chakravarty	Professor and Head of Department	Civil and Environmental Engineering	Member
18.	Dr. Sandip Dutta	Professor and Head of Department	Computer Science and Engineering	Member
19.	Dr. S.S. Solanki	Professor and Head of Department	Electronics And Communication Engineering	Member
20.	Dr. (Mrs.) Sarbani Chakraborty	Professor and Head of Department	Electrical And Electronics Engineering	Member
21.	Dr. S.K. Jain	In-Charge	Hotel Management and Catering Technology	Member
22.	Dr. Shradha Shivani	Professor and Head of Department	Management	Member
23.	Dr. S.K. Jain	Professor and Head of Department	Mathematics	Member

Sr. No.	NAME	DESIGNATION	DEPARTMENT	As
24.	Dr. Dipti P. Mishra	Professor and Head of Department	Mechanical Engineering	Member
25.	Dr. Swastika Ganguly	Professor and Head of Department	Pharmaceutical Sciences and Technology	Member
26.	Dr. S.K. Sinha	Professor and Head of Department	Physics	Member
27.	Dr. Joyjeet Ghose	Associate Professor and Head of Department	Production and Industrial Engineering	Member
28.	Dr. Vinay Sharma	Professor	Production and Industrial Engineering	Member
29.	Dr. A.P. Krishna	Professor and Head of Department	Remote Sensing	Member
30.	Dr. Dipti P. Mishra	Professor and Incharge Head	Space Engineering and Rocketry	Member
31.	Professor Soumendranath Sikdar	Actg. Head and Visiting Professor	Centre for Quantitative Economics and Data Science	Member
32.	Mrs. (Dr.) P. Padmanabhan	Professor	Bioengineering and Biotechnology	Member
33.	Dr. Ramesh Chandra	Professor	Bioengineering and Biotechnology	Member
34.	Dr. (Mrs.) Sudipta Goswami	Professor	Chemical Engineering	Member
35.	Dr. Gautam Sarkhel	Professor	Chemical Engineering	Member
36.	Dr. (Mrs.) Usha Jha	Professor	Chemistry	Member
37.	Dr. P.K. Srivastava	Professor	Chemistry	Member
38.	Dr. J.P. Pandey	Professor	Chemistry	Member
39.	Dr. Birendra Kr. Singh	Professor	Civil and Environmental Engineering	Member
40.	Dr. (Mrs.) Bindhu Lal	Professor	Civil and Environmental Engineering	Member
41.	Dr. Rajeev R. Sahay	Professor	Civil and Environmental Engineering	Member
42.	Mrs. (Dr.) Vandana Bhattacharjee	Director Incharge	BIT Lalpur	Member
43.	Dr. Srikanta Pal	Professor	Electronics And Communication Engineering	Member
44.	Dr. S.K. Ghorai	Professor	Electronics And Communication Engineering	Member
45.	Dr. D.K. Mohanta	Professor	Electrical And Electronics Engineering	Member
46.	Dr. T. Ghose	Professor	Electrical And Electronics Engineering	Member
47.	Dr. (Ms.) Vijaya Laxmi	Professor	Electrical And Electronics Engineering	Member
48.	Dr. Soubhik Chakraborty	Professor	Mathematics	Member

Sr. No.	NAME	DESIGNATION	DEPARTMENT	As
49.	Dr. S.K. Jain	Professor	Mathematics	Member
50.	Dr. (Mrs.) Manju Bhagat	Professor	Management	Member
51.	Dr. R.N. Bhagat	Professor	Management	Member
52.	Dr. A.N. Jha	Professor	Management	Member
53.	Dr. R.P. Sharma	Professor	Mechanical Engineering	Member
54.	Dr. P.R.P. Verma	Professor	Pharmaceutical Sciences and Technology	Member
55.	Dr. Shiveshwar Jha	Professor	Pharmaceutical Sciences and Technology	Member
56.	Dr. K. Jayaram Kumar	Professor	Pharmaceutical Sciences and Technology	Member
57.	Dr. B.N. Sinha	Professor	Pharmaceutical Sciences and Technology	Member
58.	Dr. (Mrs.) Papiya Mitra Mazumder	Professor	Pharmaceutical Sciences and Technology	Member
59.	Dr. (Mrs.) S.M. Verma	Professor	Pharmaceutical Sciences and Technology	Member
60.	Dr. Venkateshan Jayaprakash	Professor	Pharmaceutical Sciences and Technology	Member
61.	Dr. S. Konar	Professor	Physics	Member
62.	Dr. (Mrs.) Sunita Keshri	Professor	Physics	Member
63.	Dr. Sanjeeb Kr. Rout	Professor	Physics	Member
64.	Dr. Nilanchal Patel	Professor	Remote Sensing	Member
65.	Dr. Vinay Sharma	Director	University Polytechnic	Member
66.	Col. Sukhpal Singh (Retd.)	Registrar	General Office	Member Secretary
67.	Dr. R.C. Jha	Director	Director Off-campus, Deoghar	Member
68.	Dr. Arbind Kumar	Professor	Off-campus, Deoghar	Member
69.	Dr. S.L. Gupta	Professor	Director Off-campus, Noida	Member
70.	Mrs. (Dr.) Asha Prasad	Professor	Off-campus, Noida	Member
71.	Dr. Arbind Kumar	Professor	Director (I/c) Off-campus, Patna	Member
72.	Dr. Balram Singh	Professor	Off-campus, Patna	Member
73.	Dr. Shree Prakash Lal	Professor	Off-campus, Patna	Member
74.	Dr. Abhinav Dinesh	Director	Director Off-campus, Jaipur	Member
75.	Dr. Ganesh Prasad Mishra	Professor	Off-campus, Jaipur	Member
76.	Dr. Roopali Sharma	Professor	Off-campus, Jaipur	Member
77.	Dr. M. Krishna Mohan	Professor	Off-campus, Jaipur	Member
78.	Dr. Laxmi Narayan Pattnaik	Associate Dean	Postgraduate Studies	Special Invitee
79.	Dr. Sujan Kumar Saha	Associate Dean	Undergraduate Studies	Special Invitee
80.	Md. Nadim Quaiser	Assistant Registrar	Academic Programme	Special Invitee
81.	Mr. Rahul Rai	Dy. Registrar	Academic	Special Invitee
82.	Ms. Shruti Sharma	Assistant Registrar	Student's Affairs	Special Invitee

Annexure IV

Finance Committee

Sr. No.	Name and Address	Designation
1.	Shri C.K. Birla Group Chairman CK Birla Group of Companies	Chairman (Ex-Officio)
2.	Professor Indranil Manna Vice Chancellor BIT-Mesra	Member (Ex-Officio)
3.	Professor Jose Varghese Professor of Eminence Christ University (Deemed University)	Member (Nominee of UGC)
4.	Shri Nitin Madan Kulkarni Pr. Secretary to the Hon'ble Governor	Member (Nominee of the Chancellor)
5.	Shri P.C. Agarwala GMMCO Ltd Kolkata	Member (Nominee of the General Council)
6.	Shri Rohit Saboo M/s National Engineering Industries Ltd.	Member (Nominee of Board of Governors)
7.	Shri Y. Goenka Hon. Treasurer	Member

Annexure V

Building Works Committee

Sr. No.	Name and Address	Designation
1.	Vice Chancellor	Chairman
2.	Honorary Treasurer	Member
3.	Registrar	Member
4.	Dr. Manjari Chakraborty Professor and Dean of Infrastructure Planning And Head - Department of Architecture and Planning	Member
5.	Deputy Finance Officer	Member
6.	In-Charge (Construction)	Member
7.	Asst. Registrar (Works)	Member Secretary

Annexure VI

List of Heads / In-charges of Departments

Sr. No.	Name	Department	Designation
1.	Dr. (Mrs.) Manjari Chakraborty	Architecture and Planning	Professor and Head
2.	Dr. Rakesh Kumar Sinha	Bioengineering and Biotechnology	Professor and Head
3.	Prof. Soumyendranath Sikdar	Centre for Quantitative Economics and Data Science	Professor and Head
4.	Dr. Ashoke Sharon	Chemistry	Professor and Head
5.	Dr. Akhil Kumar Sen	Chemical Engineering	Associate Professor and Head
6.	Dr. Sandip Dutta	Computer Science & Engineering	Professor and Head
7.	Dr. (Ms.) Sudeshna Chakravarty	Civil & Environmental Engineering	Professor and Head
8.	Dr. Sandeep Singh Solanki	Electronics & Communication Engineering	Professor and Head
9.	Dr. (Mrs.) Sarbani Chakraborty	Electrical & Electronics Engineering	Professor and Head
10.	Dr. Saral Kumar Jain	Hotel Management & Catering Technology	Professor and Incharge
11.	Dr. (Mrs.) Shradha Shivani	Management	Professor and Head
12.	Dr. Dipti Prasad Mishra	Mechanical Engineering	Professor and Head
13.	Dr. Saral Kumar Jain	Mathematics	Professor and Head
14.	Dr. (Ms.) Swastika Ganguly	Pharmaceutical Sciences & Technology	Professor and Head
15.	Dr. Sanjay Kumar Sinha	Physics	Professor and Head
16.	Dr. Joyojeet Ghosh	Production Engineering	Professor and Head
17.	Dr. Akhouri Pramod Krishna	Remote Sensing	Professor and Head
18.	Dr. Dipti Prasad Mishra	Space Engineering & Rocketry	Professor and Incharge
19.	Dr. Gautam Sarkhel	Central Instrumentation Facility	In-charge
20.	Dr. Mahendra Kumar	Physical Education and Sports	In-charge

Annexure VII

Addresses of off Campuses of BIT Mesra

Deoghar

BIT Mesra, Deoghar Campus, P.O. Ratanpur JasidihDeoghar – 815142 (Jharkhand) Phone – 9334654856/9308139037

Telefax: 06432-292565

Email: bitdeoghar@bitmesra.ac.in

Jaipur

BIT Mesra, Jaipur Campus, 27, Malviya Industrial Area, Jaipur – 302017 (Rajasthan) Phone – 0141–4019798/4019819

Fax: 2751601

Email: bitjaipur@bitmesra.ac.in

Ranchi

BIT Mesra, Lalpur (Ranchi City) Campus P.O. and P.S. – Lalpur, Ranchi – 834001 (Jharkhand) Phone – 0651–2531817/2531676

Fax: 0651-2531686

Email: bitlalpur@bitmesra.ac.in

Noida

BIT Mesra, Noida Campus A-7 Sector – 1, Noida – 201301 (Uttar Pradesh) Phone –91–0120–2553661

Fax: 91-0120-2554146/5323095 Email: bitnoida@bitmesra.ac.in

Patna

BIT Mesra, Patna Campus Near Patna Airport, P.O. – Bihar Veterinary Colleger, Patna – 800014 (Bihar)

Phone: 0612-2223538, 2223545

Fax: 0612-2227050

Email: bitpatna@bitmesra.ac.in

Annexure VIII

Internal Complaint Committee

Sr. No.	Name	Designation
1.	Dr. (Mrs.) Papiya Mitra Mazumdar Professor, Dept. of Pharmaceutical Sciences and Technology	Chairperson
2.	Dr. Venkatesan J Associate Professor, Dept. of Pharmaceutical Sciences and Technology	Member
3.	Dr. (Mrs.) Itu Snigdh Asst. Professor, Dept. of Computer Science and Engineering	Member
4.	Mr. Awadhesh Kumar Singh Dy. Comptroller	Member
5.	Mrs. Kaushiki Sengupta	Member
6.	Student Nominees (03) to be co-opted if matter involves students	Member
7.	Mrs. Nidhi Jaiswal Asst. Registrar (Legal) General Office	Member Secretary



