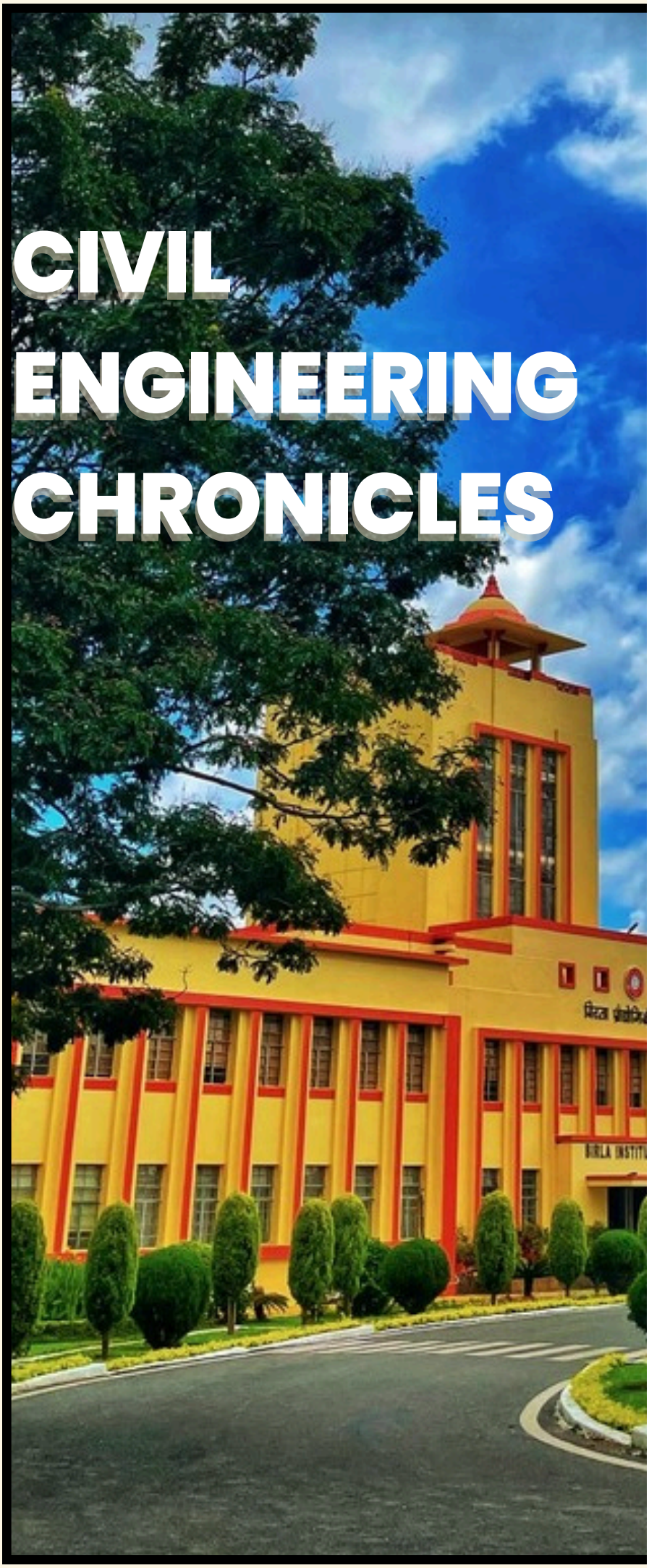


CIVIL ENGINEERING CHRONICLES

4TH EDITION

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

BIRLA INSTITUTE OF TECHNOLOGY MESRA

CONTENT

MESSAGE FROM HOD

It gives me immense pleasure to address you through this edition of our Civil Engineering Newsletter. The Department of Civil Engineering at BIT Mesra continues its journey of excellence in academics, research, and professional growth. Our students and faculty have been actively contributing through innovative projects, industry collaborations, and participation in national and international conferences.

The department remains committed to nurturing technically sound, innovative, and socially responsible engineers. With the dynamic advancements in areas like sustainable construction, smart infrastructure, environmental engineering, and emerging technologies, we encourage our students to keep learning, adapting, and excelling.

I take this opportunity to appreciate the efforts of the faculty, staff, and students in making this newsletter a success. I look forward to seeing more achievements, innovations, and contributions from our Civil Engineering family in the future editions.

Dr. R. Naresh Kumar
Head of Department
Civil and Environmental Engineering

EDITOR'S DESK

It is with great enthusiasm that I present to you this edition of the Civil Engineering Newsletter. This publication is more than just a collection of updates—it is a testament to the vibrant academic culture, innovative spirit, and relentless commitment of our department. Each page reflects the dedication of our students, faculty, and alumni who constantly strive for excellence in academics, research, and professional growth.

This newsletter serves as a bridge, connecting ongoing departmental activities with the larger Civil Engineering community. It showcases not only our achievements but also the values we uphold—teamwork, curiosity, and the drive to create sustainable, impactful solutions for the real world.

I would like to extend my sincere appreciation to the editorial team, contributors, and everyone involved in bringing this edition to life. I hope it continues to motivate our students to participate in research, industry collaborations, and co-curricular activities, strengthening the legacy of Civil Engineering at BIT Mesra.

Dr. Puja Rajhansh

Assistant Professor, Dept. of CEE

editor in chief

EDITORIAL TEAM

STUDENT EDITORS

SOAMYA PARASHAR

ANAND AGNIHOTRI

HIMANSHU KUMAR

HARSHIT BAJAJ

PRINCE RAJ

TOMI NYODU

ROUNAK CHANDRA

ABHIJEET DUTTA

RICHIK KUMAR

ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in 1957, later in 2014, it was renamed as Department of Civil and Environmental Engineering. Being one of the Oldest and largest department of the institute, its mission is to develop professional skills through quality education & research with the well established laboratories furnished with promising equipments. The department has also contributed towards the infrastructural and industrial growth of the country.

The vision is to develop quality intellectuals through education, research and motivation, so that they can bring contribute towards the building of a better society via there expertise in civil & environmental engineering.

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

We have 17 well qualified and highly experienced faculty members who are actively involved in teaching, research and consultancy. The current areas of research includes Air Pollution, Concrete Structures, Geotechnical engineering, mine slope stability, soil Stabilisation, Wastewater Management, Transportation Engg. etc.

VISION AND MISSION OF DEPARTMENT

VISION

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

MISSION

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

COURSES OFFERED

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

LIST OF PHD SCHOLARS GRADUATED FROM THE DEPARTMENT

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

LABORATORIES AND FACILITIES

The Department of Civil Engineering has well-equipped laboratories to carry out effective research in various specializations.

The Department has the following laboratories:

- Hydraulics Laboratory
- Structural Engineering Laboratory
- Environmental Engineering Laboratory
- CAAD Laboratory
- Concrete and Road Material Laboratory
- Advanced Instrumentation Laboratory
- Surveying Field Work Laboratory
- Soil Mechanics and Soil Testing Laboratory

The department's advanced Instruments Laboratory is being developed, which now houses FTIR Microscope (Thermo Fisher Scientific) and Atomic Absorption Spectrophotometer (Perkin Elmer). FTIR Microscope (Thermo Fisher Scientific), procured from DST-FIST Grant in 2024 is used for microscopic imaging and chemical analysis simultaneously for various organic materials.

Atomic Absorption Spectrophotometer (Perkin Elmer) is a high end equipment used for elemental analysis from various environmental samples.

INFRASTRUCTURE DEVELOPMENT

>>> NEW FACILITIES UPGRADATION

DST-FIST SPONSORED MICROFTIR IN THE ADVANCED INSTRUMENTS LABORATORY • PROCURED

DIGITAL TRIAXIAL TESTING MACHINE FOR SOIL

>>> NEW FACILITIES UPGRADATION

- TWENTY EIGHT (28) STUDENTS OPTED FOR AN INTERNSHIP AND PLACEMENT. THE COMPANIES WERE NAMELY KBP MINING PRIVATE LIMITED, TEACHNOOK, OUR DEPARTMENT HAS STRENGTHENED ITS IT FACILITIES WITH 36 COMPUTER SYSTEMS INSTALLED ACROSS VARIOUS LABORATORIES. THESE SYSTEMS SUPPORT STUDENTS IN SOFTWARE APPLICATIONS, DESIGN SIMULATIONS, AND TECHNICAL PROJECTS, ENHANCING THE OVERALL LEARNING AND RESEARCH ENVIRONMENT WITHIN THE BRANCH.

KEY ACHIEVEMENTS

1. FACULTY ACHIEVEMENT :

• DR. SUKALYAN CHAKRABORTY HAS BEEN SELECTED FOR THE PRESTIGIOUS NASI-MEMBERSHIP 2024.

• DR. TANUSHREE BHATTACHARYA RECEIVED THE INDIAN NATIONAL SCIENCE ACADEMY, GOI, ASSOCIATE FELLOW, 2024, YOUNG SCIENTIST AWARD, IN 9TH INTERNATIONAL CONGRESS AND EXHIBITION ON ARSENIC IN THE ENVIRONMENT, 20-24TH OCTOBER, 2024 ORGANISED BY KALINGA INSTITUTE OF INTERNATIONAL TECHNOLOGY, INTERNATIONAL SOCIETY OF GROUNDWATER FOR SUSTAINABLE DEVELOPMENT, AND KTH ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN, AND AWARD FOR HIGHEST NUMBER OF RESEARCH PAPERS, BIRLA INSTITUTE OF TECHNOLOGY, 2024.

2. STUDENT ACHIEVEMENTS:

- TWENTY EIGHT (28) STUDENTS OPTED FOR AN INTERNSHIP AND PLACEMENT.
- THE COMPANIES WERE NAMELY KBP MINING PRIVATE LIMITED, TEACHNOOK, ACMEGRADE PVT LTD, DIONY CONSTRUCTION PRIVATE LIMITED, SLNKO ENERGY PRIVATE LIMITED, SIGMOID, AXXELA, BAIN CAPABILITY NETWORK, AND VETTY, ADITYA BIRLA GROUP, S.K. SAMANTA & CO. (P) LTD , THE JHARKHAND STATE C0-OPERATIVE MILK PRODUCES FEDERATION , VISA STEEL LIMITED.
- THEY WERE OFFERED A STIPEND OF 13,000 TO 40,000 (MAXIMUM STUDENTS GOT 20,000/ PER MONTH OF STIPEND).
- AVINASH KAPOOR (BTECH/10784/21) WAS ABSORBED IN AXXELA (PPO) WITH A PACKAGE OF 1,400,000/- PER ANNUM, AND AVINASH KUMAR PANDEY (BTECH/10449/21) IN BAIN CAPABILITY NETWORK (PPO) WITH A PACKAGE OF 1,400,000/- PER ANNUM.

3. GATE RANKERS :

Aman Ujjawal(2016-2020)
AIR 99 in GATE 2021
AIR 244 in GATE 2022

Ankur Mishra(2018-2022)
AIR 432 in GATE 2022

Ashish Nand(2019-2023)
AIR 628 in GATE 2022

Navneet Kumar(2019-2023)
AIR 517 in GATE 2022

3. TEN STUDENTS HAVE QUALIFIED GATE 2025 FROM BATCH 2021 & 2022.

AYUSH SINGH

HARSHVARDHAN

AYUSH KUMAR RANJAN

ANUPAM KARAN

PRABHUTVA VERMA

VIPUL PARASHAR

PRINCE

RAJVEER LALA TIGGA

ARYAN RAJ

ANAND AGNIHOTRI

FACULTY MEMBERS

Our esteemed professors play a pivotal role in shaping the success and growth of our Civil Engineering Department. Their unwavering commitment to excellence is reflected in their profound contributions to both academia and industry. Beyond the classroom, their impactful research endeavors push the boundaries of innovation, addressing real-world challenges in infrastructure, construction, and sustainable development.

The professors' engagement with industry partnerships and collaborative projects further enhance the department's standing, fostering a dynamic learning environment. Their passion for advancing the field and cultivating a culture of curiosity and exploration is integral to the department's continuous progress and the overall development of aspiring civil engineers.

List of Faculties as on 30.6.2025s

S.NO.	Name	Designation	Expertise Area	Highest Qualification
1.	Dr. Anand Kumar Sinha	Professor	Water Resources Engineering	Ph.D
2.	Dr. Bindhu	Professor	Soil Mechanics	Ph.D
3.	Dr. Rajeev Ranjan Sahay	Professor	Water Resources	Ph.D
4.	Dr. Birendra Kr. Singh	Professor	Water resource	Ph.D
5.	Dr. Siddhartha Sengupta	Associate Professor	Geotechnical Engineering	Ph.D
6.	Dr. Kirti Avishek	Associate Professor	Environmental Science	Ph.D
7.	Dr. R Naresh Kumar	Associate Professor	Environmental Science	Ph.D

List of Faculties as on 30.6.2025

S.NO.	Name	Designation	Expertise Area	Highest Qualification
8.	Dr. Sukalyan Chakraborty	Associate Professor	Environmental Science	Ph.D
9.	Dr. Tanushree Bhattacharya	Associate Professor	Environmental Science	Ph.D
10.	Dr. Mani Mohan	Assistant Professor	Structure and concrete	Ph.D
11.	Dr. Ashish Kr. Patnaik	Assistant Professor	Transportation	PhD
12.	Dr. Jawed Iqbal	Assistant Professor	Environmental Science	Ph.D.
13.	Dr. Neeta Kumari	Assistant Professor	Water Quality Management and Modeling	Ph.D.
14.	Dr. Puja Rajhans	Assistant Professor	Structure and concrete	Ph.D.
15.	Dr. Saptarshi K Lahari	Assistant Professor	Structure and concrete	Ph.D.
16.	Dr. Ravi Kumar Mudragada	Assistant Professor	Structure and concrete	Ph.D.

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

SR. NO.	Name	Designation	Affiliation (Regular or Previous)
1	Dr. Pulak Kumar Munshi	Professor of Practice	
2	Dr. Somnath Ghosh	Professor of Practice	IITKGP

BOARD OF STUDIES

Sr. No.	Name of the Member	Designation	Role
1	Prof. Bindhu Lal	HOD (Ex-Officio)	Chairman
2	Prof. Anand Kr. Sinha	Professor	Internal Member
3	Prof. Rajeev Ranjan Sahay	Professor	Internal Member
4	Prof. Sudeshna Chakravarty	Professor	Internal Member

5	Prof. Birendra Kr. Singh	Professor	Internal Member
6	Dr. Sukalyan Chakraborty	Associate Professor	Internal Member
7	Dr. Ashish Kr. Patnaik	Assistant Professor	Internal Member
8	Prof. Manjari Chakraborty	Professor (Architecture and Planning)	Internal Member
9	Prof. Rabindra Prasad Sharma	Professor (Mechanical Engineering)	External Member
10	Prof. S. K. Maity	Professor (ESE), IIT (ISM), Dhanbad	External Member

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
1.	Dr. Sukalyan Chakraborty	Member of the National Academy of Sciences, India	NASI	National
2.	Dr. Tanushree Bhattacharya	Young Scientist Award	KTH Royal Institute of Technology, Stockholm, Sweden.	International
3.	Dr. Tanushree Bhattacharya	Associate Fellow	Indian National Science Academy	National
4.	Dr. Tanushree Bhattacharya	Highest number of research papers award	Birla Institute of Technology	National

SPONSORED RESEARCH PROJECTS

(a) New Project Funded

Sr. No.	Project Title	PI/Co PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Development of Guidelines for design of future Internal, External dumps and Final quarry batter of Opencast Mines of CCL.	Dr. Mani Mohan PI /CO_PI Dr. Indrajit Roy, Dr. Anand Kumar Sinha, Professor Dr. Bindhu Lal,	Coal India R&D	To be sanctioned	38.64 lakhs	
2	Designing of drinking water system for the removal of groundwater fluoride using biochar derived from agro industrial waste	PI: Dr. Neeta Kumari Co-PI : Dr. Shubha Rani Sharma	JCSTI	29.05.2025	3 Lakh	2025-27
3	Development of Mix Design Method for producing Sustainable Geopolymer Concrete Prepared with Waste Materials Employing EMV Method	Dr. Puja Rajhans/Dr. Ashish Kumar Patnaik	Jharkhand Council for Science Technology and Innovation (JCSTI)	29.05.2025	3,20,000/-	2 Years

(b) Ongoing Projects

Sr. No.	Project Title	PI/Co PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Performance Evaluation of the Roads Constructed using TerraZyme in the State of Jharkhand under PMGSY	PI – Prof. Bindhu Lal Co-PIs – Prof. Anand Kr. Sinha and Dr. Mani Mohan ,	NRIDA, Ministry of Rural Development, Government of India	01.09.2023	Rs. 23.54 lakhs	22 Months
2	Performance Evaluation of the Roads Constructed using Steel Slag in the State of Jharkhand under PMGSY	PI – Prof. Bindhu Lal Co-PIs – Prof. Anand Kr. Sinha and Dr. Mani Mohan	NRIDA, Ministry of Rural Development, Government of India	01.09.2023	Rs. 23.54 lakhs	22 Months
3	Prediction of particulate matter and gaseous pollutants concentration through Artificial Neural Network [ANN], Probabilistic Neural Network [PNN] and Classification and Regression Tree [CART] models and comparison with CALPUF and AERMOD in singrauli coal mines	Co PI	Coal India Ltd.	30 Apr 2021	Rs 85.25 lakhs	3 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	ANRF	10th May 2022	Rs. 38,10240/-	2016-25
5	National Carbonaceous Aerosol Programme (NCAP) Working Group III- Modeling Carbonaceous Aerosol Source Influence and Atmospheric Effects	Dr. R Naresh Kumar (PI) / Jawed Iqbal (Co-PI)	MoEFCC	30 Mar 2016	RS:159.54 Lacs	2016-25
6	Assessing The Abiotic and Biotic Factors in The Pit Lakes For Sustainable Management of Water and Environment – Implementing Agencies: BIT Mesra, CMPDI Ranchi, CCL Ranchi, MCL Sambalpur	Dr. R Naresh Kumar (PI) / Jawed Iqbal (Co-PI)	MoC	6 Jul 2023	RS: 208.58 Lacs	2023-25

(c) Completed Projects

Sr. No.	Project Title	PI/Co PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	Prediction of Particulate Matter and Gaseous Pollutant Concentration Through ANN, PNN And CART Models and Comparison with CALPUFF and AERMOD In Singrauli Coal Mines	PI: Dr. Tanushree Bhattacharya	Coal India Ltd.	5 Feb 2021	85.25 Lakhs (2021-2024)	2024

(c) Consultancy Projects

Sr. No.	Project Title	PI/Co PI/Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount (Rs.)	Duration
1	for Management of Waste Dump with Power Plant Ash together for optimum ash volume utilisation in OB and Backfilling in the mine pit of Ghogha Surkha Lignite Mine, Bhavnagar	PC Mahakaxmi	April, 2024 to December, 2024	5.9 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	completed
2	Slope Stability Study of Junad ocm	WCL	April to September, 2024	5.19	PI – Indrajit Roy CO-PI – Dr. Manimohan	completed

3	Slope Stability Study of Reclaimed Land of Rajmahal ocm	ECL	January to March, 2025	9.14 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	completed
4	Slope Stability of Pahari Mandir	Jharkhand Govt	May to November, 2025	12.4 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	On going
5	Hill Slope for Crusher house installations	S K Samanta ltd	June to August	10.21 lakhs	PI – Indrajit Roy CO-PI – Dr. Manimohan	On going

SEMINAR/CONFERENCES

>>> EVENTS CONDUCTED BY THE DEPARTMENT:

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

DR. KIRTI AVISHEK

- A three-day International Workshop on Wetland Ecosystem Management was successfully conducted at BIT Mesra from January 13 to 15, 2025. The workshop was organized as part of a collaborative initiative under the Royal Society of Edinburgh Sapphire Partnership Scheme, involving faculty members from Scotland and BIT Mesra.
- The workshop featured renowned international experts including Dr. Edward Curley from the University of Glasgow, Scotland, and Dr. Biyanka Kawasin, Associate Professor at the University of Canterbury. Their sessions offered deep insights into ecological restoration, wetland conservation strategies, and sustainable management practices.
- Participants included students and researchers from various parts of India and abroad, with significant representation from African universities, as well as premier Indian institutions such as IIT Roorkee, IIT Kharagpur, and IIT BHU. The event provided a valuable platform for knowledge exchange, cross-cultural academic dialogue, and exploration of collaborative research opportunities.
- This workshop reaffirmed BIT Mesra's commitment to fostering global academic partnerships and promoting interdisciplinary solutions to pressing environmental challenges.

>>> EVENTS ATTENDED BY FACULTY

Sr. No.	Faculty Name	Event Title	Organizer	Funding Agency	Venue	Date
1	Dr. Sukalyan Chakraborty	Invited lecture: Land restoration, desertification and drought resilience	University of Kalyani	ENVIS	Online	27th May, 2024
2	Dr. Sukalyan Chakraborty	Invited Lecture in Strategy Workshop on "Microplastics Pollution: Strategies for Remediation in Sustainable Environmental Management"	National Academy of Agricultural Sciences, Delhi	NAAS	Online	23rd November 2024
3	Dr. Sukalyan Chakraborty	Invited talk in the National Seminar on Clean Environment Envisioned towards Viksit Bharat on at	Central University of J harkhand (CUJ).	CUJ	CUJ	11-12th March 2025
4	Dr. Sukalyan Chakraborty	Participated in the "National Level Awareness Program on Institutional Development Plan (IDP) for Higher Education Institutions"	Telangana Council of Higher Education (TGCHE), and Institute for Academic Excellence (IAE), Hyderabad.	IAE	Online	6th March, 2025
5	Dr. Siddhartha Sengupta	Workshop entitled "Microplastics in the Environment"	BIT Mesra	CUJ	BIT Mesra	23/08/2024 - 24/08/2024
6	Dr. Siddhartha Sengupta	Seminar entitled " Aerospace Technologies in Defence Sector – An Overview"	BIT Mesra	IAE	BIT Mesra	28th November 2024

7	Dr. Siddhartha Sengupta	One Day Faculty Development Workshop on "Know Yourself as a Teacher (KYaaT)"	BIT Mesra	BIT Mesra	BIT Mesra	23/04/2025
8	Dr. Siddhartha Sengupta	One Day Workshop on "Biodiversity: Preserving Nature for a Sustainable Future"	BIT Mesra	Jharkhand Biodiversity Board	BIT Mesra	25/04/2025
9	Dr. Siddhartha Sengupta	Workshop on "Clean water, Clean future: Training on Water Quality Analysis"	BIT Mesra	Govt. of India	BIT Mesra	30/04/2025
10	Dr. Siddhartha Sengupta	Short Term Training Programme on Professional Values Ethics	NITTTR Kolkata	Govt. of India	NITTTR Kolkata (Online)	19/05/2025 - 23/05/2025
11	Dr. Siddhartha Sengupta	Five-Day Online FDP on "From Waste to Wonder: Transforming Industrial Byproducts into Next-Gen Construction Material"	RTC Institute of Technology	RTC Institute of Technology	RTC Institute of Technology (Online)	02/06/2025 – 06/06/2025
12	Dr. Neeta Kumari	An invited talk in International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN) Mahatma Gandhi University, Kerala on "Groundwater fluoride management using waste materials	Mahatma Gandhi University, Kerala	MGU	Online	06/07/2024 - 07/07/2024

13	Dr.Neeta Kumari	An invited talk in International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN) Mahatma Gandhi University, Kerala on "Groundwater fluoridemanagementu sing waste materials	Mahatma Gandhi University, Kerala	MGU	Online	06/07/2024 07/07/2024
14	Dr. Neeta Kumari	Attended MMTTC NEP training from IIT-ISM Dhanbad	IIT-ISM Dhanbad	IIT-ISM Dhanbad	Online	21/10/2024-02/11/2024
15	Dr. Ashish Kumar Patnaik	INAE CEEE Program	INAE & IIT Kharagpur	INAE & Infosys	IIT Kharagpur	30.06.2025 to 11.07.2025
16	Dr. Puja Rajhans	CEEE Programme	IIT Delhi	INAE/Infosys	IIT Delhi Campus, New Delhi	24.06.2025 to 04.07.2025
17	Dr. Tanushree Bhattacharya	9th International Congress and Exhibition on Arsenic in the Environment	Kalinga Institute of International Technology, International Society of Groundwater for Sustainable Development, and KTH Royal Institute of Technology, Stockholm, Sweden	International Society of Groundwater for Sustainable Development	Bhubaneshwar	20.10.2024-24.10.2024
18	Dr. Tanushree Bhattacharya	5th International Conference on Waste Management-RECYCLE 2025	IIT Guwahati	IIT Guwahati	Guwahati	05.06.2025-06.06.2025

19	Dr. Tanushree Bhattacharya	National Seminar on Clean Environment Envisioned towards Viksit Bharat India. Topic: Biochar for Arsenic Remediation: A Sustainable approach to Soil Recovery and Circular Economy Promotion.	Central University of Jharkhand	Central University of Jharkhand	Jharkhand	11-12th March, 2025
20		Invited talk and session chair in The 2nd International Conference on Biochar Research and Application & The 7th Asia Pacific Biochar Conference"	Shenyang agricultural University	Biochar Journal	Shenyang, China	September 20th to 22nd, 2024
21	Dr Jawed Iqbal	Guest Lecture on World Environment Day 2025 on "Combating Plastic Pollution"	CSIR-CIMFR, Barwa Road, Dhanbad	CSIR-CIMFR,	CSIR-CIMFR, Barwa Road, Dhanbad	5th June 2025

RESEARCH PUBLICATIONS

Sr. No	Author(s)	Title of Paper	Journal Name	Vol and Issue	Indexed In (SCIE/Scopus)	National/ International
1	Kausher, R., Sinha A.K., and R.Singh,	Delineation of Groundwater Potential Zones for Sustainable Development and Planning using AHP and GIS Techniques in the Coal Mining Province of Mahan River Catchment Area	Archives of Mining Sciences	Vol – 69, Issue – 1	SCI Indexed Journal, Impact Factor 1.2	International
2	Kausher, R., Sinha A.K., and R.Singh,	Hydrological Modeling and Watershed Simulations using the SWAT Model in the Coal Mining Province of the Mahan River Catchment, Central India	Environmental Earth Sciences	Vol – 83	SCI Indexed Journal, Impact Factor 2.8	International
3	Anand, P., Sinha, A.K., and P. Rajhans,	Study on Mechanical and Durability Properties of Aerated Concrete Block Containing Construction & Demolition Waste with Aluminum Stearate Powder along with Alkaline Solution and Considering Accelerated Curing Tank	Iranian Journal of Science and Technology, Transactions of Civil Engineering	Vol – 48	SCI Indexed Journal, Impact Factor 1.7	International

4	Bhuinyan, S.S., Sinha, A.K., and Bhagate, K.	A Case Study: Innovating Energy Dissipation in Ogee Spillways with Modified Ski Jump Designs	Educational Administrati on: Theory and Practice	Vol – 30, Issue – 5	Scopus Indexed Journal	International
5	Anand, P., Sinha, A.K., and Rajhans, P.	Effect of Loading Rate on Mechanical Properties of Autoclaved Aerated Concrete having Steel Wool Fibres, Construction Waste, and	European Journal of Environmental and Civil Engineering	Vol – 28, Issue – 8	SCI Indexed Journal, Impact Factor 2.1	International
6	Anand, P., Sinha, A.K., and Rajhans, P.	Investigating the Effects of Carbonated Construction and Demolition Waste with Two Different Granulometries on the Mechanical and Durability Properties of AAC Blocks	AIP Conference Proceedings	Vol – 3108, Issue – 1	Scopus Indexed	International
7	Anandita, K., Sinha, A.K., and Jeganathan, C.	Understanding and Mitigating Climate Change Impacts on Ecosystem Health and Functionality	Rendiconti Lincei. Scienze Fisiche e Naturali	Vol – 35, Issue – 3	SCI Indexed Journal, Impact Factor 2.1	International
8	Anand, P., Sinha, A.K., and Rajhans, P.	Impact of Zeolite and Various Doses of Aluminium Stearate Powder on the Properties of Aerated Concrete Blocks	Engineering Research Express	Vol – 6, Issue – 4	SCI Indexed Journal, Impact Factor 1.5	International
9	Das, S., Chakraborty, S., & Sengupta, S.	Soil Quality Assessment and Future Agricultural Land Use Potential of a Municipal Dumpsite (Jharkhand, India).	Soil and Sediment Contamination: An International Journal,	1–27. https://doi.org/10.1080/15320383.2025.2509738	**SCIE**	International

10	Pal, A., Chakraborty, S.	Hidden hazards: microplastics in intravenous admixtures and their path into the body.	Environ Monit Assess	197, 400 (2025) https://doi.org/10.1007/s 10661-025-13850-9	SCIE	International
11	Kumari, A., Chakraborty, S.	Influence of soil characteristics and agricultural practices on microplastic concentrations in sandy soils and their association with heavy metal contamination.	Environ Monit Assess	197, 111 (2025). https://doi.org/10.1007/s 10661-024-13585-z	SCIE	International
12	Jha, A. K., Chakraborty, S., & Biswas, J. K.	Green synthesis of low-cost graphene oxide-nano zerovalent iron composite from solid waste for photocatalytic removal of antibiotics.	iScience,	27(12), 111486. https://doi.org/10.1016/j.isci.2024.111486	SCIE	International
13	Bhola, S., Chakraborty, S.	Morphology and Polymeric Composition-Based Source Apportionment of Microplastics in Surface Water and Sediment of Drinking Water Supply Reservoirs in Ranchi, India.	Environ. Process	11, 32 https://doi.org/10.1007/s 40710-024-00708-4	SCIE	International
14	Chahar, R., Mukherji, R., Chakraborty, S.	Effective removal of toxic dye [Malachite green] by aquatic plant Hydrilla verticillata and Najas minor as low cost adsorbent.	Environ Dev Sustain	https://doi.org/10.1007/s 10668-024-05406-7	SCIE	International

15	Azim, U., Sengupta, S.	Prediction of slope stability with comparative study between unstable slopes reinforced with breast wall and soil nailing using kNN and least square regression analysis	Innovative Infrastructur e Solutions	9:431. https: //doi.org/10. 1007/s41062-024-01749-2	Scopus	International
16	Priya, S., Dhandapani, A., Kumar, R.N., & Iqbal, J.,	Integrated Approach (MCD19A2 and PM10 Datasets) for Spatiotemporal Assessment of Aerosol and Revealing Approachable Predictive Model Across the Mega-Mining Region (Jharkhand), India Along with its Accuracy Measures.	. J Indian Soc Remote Sens	53, 1667–1684	SCIE	International
17	Pullokaran D., Bhardwaj A., Haswani D., Yadav K., Raman R. S., Shukla D., Dhandapani A., Iqbal J. Kumar R N., Prasad L., Venkatesh P., Murthy BMS.,	Spatio-temporal trends of the relationships between surface PM2.5 and its chemical constituents across three COALESCE network locations in India: A mass closure investigation,	, J of Geophysical Research: Atmospheres	129, 8	SCIE	International
18	Shreya Nandi, Radhakrishnan Naresh Kumar, Abisheg Dhandapani, Jawed Iqbal,	Characterization of microplastics in outdoor and indoor air in Ranchi, Jharkhand, India: First insights from the region,	Environmental Pollution	346	SCIE	International

19	Garima Chaturvedi, Kirti A vishek	Geospatial approach to identify the indicators of Wetland change: A study for Kabartal (Ramsar Wetland), India. , .	Results in Engineering	Volume 24, December 2024, 102999	SCIE https://www.sciencedirect.com/science/article/pii/S2590123024012544. https://doi.org/10.1016/j.rineng.2024.10299 9	International
20	Lakra, K., Avishek, K.	Influence of meteorological variables and air pollutants on fog/smog formation in seven major cities of Indo-Gangetic Plain	. Environ Monit Assess	196, 533 (2024).	SCIE https://doi.org/10.1007/s10661-024-12662-7	International
21	Majumdar, A., Avishek, K	Assessing heavy metal and physiochemical pollution load of Danro River and its management using floating bed remediation	. Sci Rep	14, 9885 (2024).	SCIE https://doi.org/10.1038/s41598-024-60511-x	International
22	Akash Mishra, Bindhu Lal	Fate of potentially toxic elements derived from coal mining in soil"	Water Air Soil Pollution	Vol.235(4)	SCIE	International
23	Prasad, N., Mishra, A., Bhattacharya, T., Lal, B., Jha, P.C., Kumar	Validation of AERMOD Prediction Accuracy for Particulate Matters (PM10, PM2.5) for a Large Coal Mine Complex: A Multisource Perspective	Aerosol Sci Eng	Vol.8 (2)	Scopus	International

24	Akash Mishra, Bindhu Lal	Application of soil quality evaluation indices and multivariate statistics to assess soil health: a case study	Environmental Earth Sciences	Vol 83(16)	SCIE	International
25	Ram Kishore Singh, Bindhu Lal and Navin	Evaluating Vehicular Pollution Via Artificial Intelligent Models (Neural Networks, Regression and Deep Learning): Estimation of SOx, NOx and PM10 Levels"	Indian Journal of Environmental Protection	Vol 45(1)	Scopus	National
26	Munshi, A.K., Patnaik, A.K., Bhuyan, P.K.	Modelling the Entry Capacity Reduction Factor and Pedestrian Movement Analysis at Roundabouts: A Case Study of Tier-II Cities in India	Slovak Journal of Civil Engineering	Vol. 3 (3)	Scopus	International
27	Munshi, A.K., Patnaik, A.K.	Genetic Programming for Estimating Passenger Car Equivalent in Unsignalized Intersections	Bulletin of the Polish Academy of Sciences Technical Sciences	Vol. 72 (3)	SCIE	International
28	Munshi, A.K., Patnaik, A.K.	Selecting a Suitable Model for Roundabout Entrance Capacity Estimation: A Case Study	Romanian Journal of Transport Infrastructure	Vol. 12 (2)	Scopus	International
29	Munshi, A. K., Patnaik, A. K	Modelling roundabout entry capacity for mixed traffic flow using ANN: A case study in india	Scientific Journal of Silesian University of Technology. Series Transport.	Vol. 123 (1)	SCIE	International

30	Paritosh Kumar Singh, Puja Rajhans	Influence of treated recycled concrete aggregate and modified mixing approach on the mechanical properties of ternary blend geopolymer concrete: Experiments and machine learning algorithms	Journal of Cleaner Production	443	SCIE	International
31	Paritosh Kumar Singh, Puja Rajhans	Optimizing mechanical and durability properties of recycled aggregate concrete using pozzolanic slurries and modified mixing approach	European Journal of Environmen t al and Civil Engineering	28 and 15	SCIE	International
32	Paritosh Kumar Singh, Puja Rajhans	Comparative analysis of regression and ANN algorithm for predicting compressive strength of sustainable geopolymer concrete at varying NaOH concentration and curing temperature	Iranian Journal of Science and Technology, Transaction s of Civil Engineering	48 and 3	SCI	International
33	Mala Kumari, Tanushree Bhattacha rya	Selection of tropical trees and shrubs for urban greening in coal mine complex: a case study of Singrauli, Madhya Pradesh	Environ Sci Pollut Res	31 13003-13025	SCIE	International
34	Abhishek Kumar, Tanushree Bhattacha rya ,Wasim Akram Shaikh,Arpi ta Roy	Sustainable soil management under drought stress through biochar application: Immobilizing arsenic,amelioratingsoilq uality,and augmenting plant growth	Environmen t al Research	259 119531	SCIE	International

35	Prasad, N., Mishra, A., Bhattacharya, T. et al.	Validation of AERMOD Prediction Accuracy for Particulate Matters (PM10, PM2.5) for a Large Coal Mine Complex: A Multisource Perspective	Aerosol Sci Eng	9 30-44	SCIE	International
36	Roy, A., Bhattacharya, T., Kumari, M. et al.	Exploring heavy metal dynamics and risks from dust and soil in urban cities of Jharkhand, India	Nature publishing house.	14 32101	SCIE	International
37	Kumar, A., Bhattacharya, T., Shaikh, W.A. et al.	Valorization of biomass wastes into dairy manure–enriched biochar: Application for soil quality amelioration and arsenic remediation.	Biomass Conv. Bioref.	15 14653-14673	SCIE	International
38	Kumari, M., Bhattacharya, T., Singh, S.S. et al	Bioaccessibility, human health risks, and source apportionment of heavy metals in street dust from coal mining-influenced environments.	Environ Geochem Health	47 146	SCOPUS	International
39	Mishra, A., Prasad, N., Bhattacharya, T. et al.	Artificial neural network modeling for predicting PM10, PM2.5, NOX, and SO2 in coal mining areas	Earth Sci Inform	18 439	SCIE	International
40	Malakumari, Abhishek Kumar Tanushree Bhattacharya, and Arpita Roy	Assessment of dust retention capacity and metal(loid) accumulation in plants of Singrauli region, India	Land Degradation and Development	85 (2) 219-23	SCIE	International

>>> CONFERENCE PROCEEDINGS

Sl No	Author(s)	Title of Paper	Conference / Proceedings Name	ISBN	Venue	National/International
1	Kumar, G. and Kumari, N	Surface Water Quality Assessment of Lakhisarai stretch of Kiul River in Bihar	LNCE : Advances in Water Treatment and Management: Select Proceedings of ICAWTM 2023	978-981-97-5955-2	Pandit Deendayal Energy University Gandhinagar, Gujarat	International
2	Sunanda Bhola and Sukalyan Chakraborty	Characterization and Source Apportionment of Microplastic Contamination in Water Reservoirs: A Case Study in Ranchi, India	Pollution Control for Clean Environment—Volume 1	ISBN-13: 978-9819778416	IIT, Bhubaneswar	International
3	Singh, B.K., Sengupta, S., Kumar, R.	Performance evaluation of industrially produced fly ash-sand based geopolymer bricks in acidic condition.	International Conference on Sustainable Energy and Environment (ICSEE-2024)	-	MANIT, Bhopal, 23/02/2024 – 25/02/2024	International
4	Azim, U., Sengupta, S.	Seepage analysis of road embankment resting on geotextile reinforced soil.	Recent Trends in Engineering and Sciences (RTES – 2024)	-	BIT Mesra, 29/03/2024 – 30/03/2024	National

5	Lal, S.R., Sengupta, S.	Assessment of the impact on permeability in layered Soil: A State of-the-Art Review.	Recent Trends in Engineering and Sciences (RTES – 2024)	-	BIT Mesra, 29/03/2024 – 30/03/2024	National
6	Lal, S.R., Sengupta, S.	Behaviour of Sand Reinforced with Bio polymer: A State-of-the-Art Review.	Recent Trends in Engineering and Sciences (RTES – 2024)	-	BIT Mesra, 29/03/2024 – 30/03/2024	National
7	Das, S., Chakraborty, S., Sengupta, S.	Characterization and risk assessment of MSW dumpsite soil with special emphasis on heavy metal contamination.	9th International Congress & Exhibition on Arsenic in the Environment – Arsenic and other Pollutants, Water Security and One Health under Global Climate Change Scenario	-	KIIT, Bhubaneswar, 20/10/2024 – 24/10/2024	International
8	Azim, U., Sengupta, S.	Seepage analysis of soil nail reinforced embankment resting on soft soil.	International Conference on Research and Innovation for Sustainability in Civil Engineering.	-	BIT Sindri, 25/11/2024-26/11/2024	International
9	Das, S., Chakraborty, S., Sengupta, S.	Sustainable municipal solid waste management: Addressing generation, composition and environmental concerns	International Conference on Research and Innovation for Sustainability in Civil Engineering.	-	BIT Sindri, 25/11/2024-26/11/2024	International

10	Aditya Raj, Shalini Priya, Jhilly Dasgupta, Radhakrishnan Naresh Kumar, Jawed Iqbal	Comprehensive Assessment and Prediction of Air Quality Trends Using ARIMA Model,	International Conference On Research and Innovation for Sustainability in Civil Engineering (RISCE 24),	Accepted	BIT Sindri, Dhanbad, India, 25-26 Nov'2024	International
11	Kirti Avishek, Garima Chaturvedi	-	An International Conference on Environmental Challenges, Opportunities and Sustainable Solutions.	-	IIT Guwahati 9-11 Dec 2024	International
12	Dr. Ashish Kumar Patnaik	Development of Conflicting Flow Model for Unsignalised Intersections: Tier II Cities of India	15 th TPMDC, Transportation Planning and Implementation Methodologies for Developing Countries	-	IIT Bombay	International
13	Dr. Ashish Kumar Patnaik	Quantification of Urban Traffic Congestion: A Case Study of Ranchi City Using K-Means Clustering	17th Urban Mobility India Conference	-	Gurgaon, Haryana	International

14	Sonali Pandey, Puja Rajhans	Evaluating the sustainability of concrete prepared with supplementary cementitious materials containing different percentage of recycled concrete aggregate by performing durability performance	AIP Conference Proceedings	Volume - 3108	-	-
15	Pradyut Anand, Anand Kr Sinha, Puja Rajhans	Investigating the effects of carbonated construction and demolition waste with two different granulometries on the mechanical and durability properties of AAC blocks	AIP Conference Proceedings	Volume – 3108 and Issue - 1	-	-
16	Mala Kumari, Tanushree Bhattacharya	Environmental Challenges in Coal Mining: Investigating Dust Pollution, Heavy Metals, and Sustainable Remediation with Indigenous Plants	ICPCCE 2023	978-981-97-7845-4	Bhubaneshwar	International

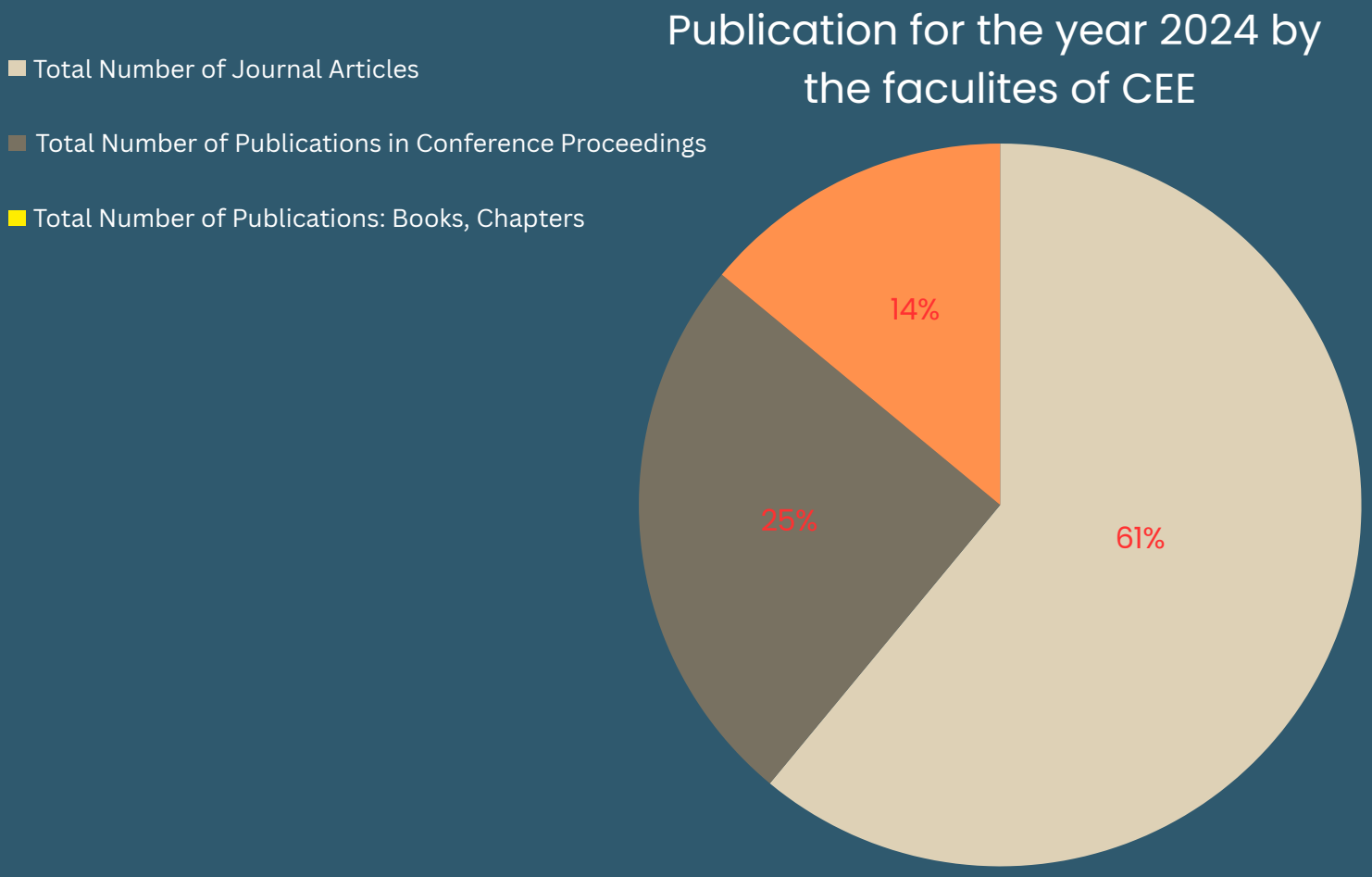
BOOK CHAPTERS

Sr. No	Author(s)	Title of Book Chapters	Publisher	ISBN
1	Akash Mishra, Bindhu Lal and Raj Kumar	Air quality monitoring and its impact on local tree species in and around mining areas of Dhanbad District, Jharkhand, India	Elsevier	9780323952835
2	Kumari, N., Pandey, S. and Kumar, G.,	Sand mining: A silent threat to the river ecosystem	Springer International Publishing	978-3-031-49163-4
3	Pandey, S., Kumari, N. and Mallick, L.,	Review on assessment of land degradation in watershed using geospatial technique based on unmanned aircraft systems	Wiley	9781394230648
4	Title of Book Chapters	Removal of toxic azo dyes from wastewater using multi-functional biochar-based nanocomposite in Nanotechnology for Environmental Management	CRC Press, Taylor Francis	9781003350941

5	Azim, U., Sengupta, S.	Seismic stability analysis of road embankment resting on geotextile reinforced soft soil.	Springer	https://doi.org/10.1007/978%20981-99-8505-0
6	Paritosh Kumar Singh, Puja Rajhans	Enhancement of Mechanical Behaviour of Recycled Aggregate Concrete Using Modified Mixing Approach in Combination with Surface Treatment Method	Springer Nature Switzerland	978-3-031-64873-1
7	WA Shaikh, S Chakraborty, A Kumar, T Bhattacharya, Rafique Ul Islam, Jayanta Kumar Biswas	Removal of Toxic Azo Dyes from Wastewater Using Multi-functional Biochar-based Nanocomposite	Nanotechnology for Environmental Management	9781040127179, 1040127177
8	S Das, A Pal, S Dawan, S Chakrabarty, T Bhattacharya	Environmental Hazards Associated with the Disposal of Municipal Solid Waste	Life as Basic Science: An Overview and Prospects for the Future	978-81-978955-7-9
9	A Kumar, WA Shaikh, T Bhattacharya.	Environmental risks associated with biochar	Biochar Amendments for Environmental Remediation edited by P.V. Nidheesh, Meththika Vithanage, Vandana Sreedharan, Nanthi Bolan, Bin Gao, Amit Bhatnagar	-

PUBLICATION DATA

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



STUDENT SECTION

>>> ABOUT THE CIVIL ENGINEERING SOCIETY

Civil Engineering Society (CES), BIT Mesra is the official student body of the Civil Engineering Department that acts as a bridge between students, faculty, and industry. CES organizes technical workshops, seminars, industrial visits, and alumni interactions to enhance students' practical knowledge and professional skills. It is also responsible for curating and publishing the departmental newsletter, highlighting achievements, events, and activities. Besides academics, CES actively promotes student welfare through cultural and social initiatives, fostering teamwork, leadership, and a strong community spirit.

What makes CES stand out is its commitment to building connections — not just within the student community, but also with alumni, industry professionals, and faculty members. These interactions open doors to invaluable insights, mentorship, and even future career opportunities. From organizing field visits to live construction sites to conducting interactive sessions with experts, CES encourages students to explore all dimensions of civil engineering. Whether you are passionate about structural design, transportation systems, geotechnical research, or urban development, CES is your gateway to gaining hands-on experience and industry exposure.

In essence, CES is not just about learning — it's about engaging, connecting, and growing into a well-rounded civil engineer.

MESSAGE FROM VICE CHANCELLOR

It is heartening to see the proactive and dynamic role played by the Civil Engineering Society (CES) in shaping the future of our students. At BIT Mesra, we believe in fostering a culture of excellence, innovation, and practical learning — values that CES embodies through its diverse range of activities, including technical workshops, industrial site visits, and meaningful interaction with alumni and professionals.

The field of civil engineering plays a critical role in nation-building and sustainable development. It is encouraging to see our students take initiative through CES to bridge the gap between academic knowledge and industry demands. Such efforts contribute significantly to holistic development and professional readiness.

I extend my best wishes to all members of CES. May the society continue to inspire, innovate, and uphold the spirit of engineering excellence that BIT Mesra stands for.

PROF. INDRANIL MANNA
Vice-Chancellor
Birla Institute of Technology, Mesra

MESSAGE FROM HEAD OF DEPARTMENT

It gives me immense pleasure to witness the continued growth and enthusiasm of the Civil Engineering Society (CES). In today's rapidly evolving world, it is vital for engineering students to go beyond textbooks and immerse themselves in real-world challenges. CES provides exactly that platform — a space where learning extends to site visits, technical events, alumni interaction, and hands-on experience.

Civil engineering is not just about structures; it is about building the future with vision and responsibility. Through CES, our students are not only gaining exposure to the practical aspects of the profession but are also developing leadership, teamwork, and problem-solving skills that are essential for the engineers of tomorrow.

I commend the efforts of the students and faculty coordinators who have made CES a vibrant and active society. I encourage all civil engineering students to participate wholeheartedly and make the most of the opportunities it offers.

Let us continue to build, innovate, and inspire.

DR. R. NARESH KUMAR
Head of the Department
Civil Engineering Department

MESSAGE FROM FACULTY ADVISOR

It is a matter of great pride to serve as the Faculty Advisor for the Civil Engineering Society (CES). The society has consistently served as a bridge between theoretical knowledge and practical exposure, helping students gain deeper insight into the evolving world of civil engineering.

In an era where innovation and sustainability are at the forefront of infrastructure development, it is essential that our students are equipped not just with academic excellence, but also with real-world understanding. CES plays a crucial role in this journey by organizing site visits, technical events, expert lectures, and alumni interactions that enrich student learning beyond the classroom.

I commend the dedication and enthusiasm of the student members and coordinators who have worked tirelessly to make CES an active and engaging platform. I encourage all civil engineering students to make the most of these opportunities and contribute meaningfully to the growth of the society.

Let us continue to build a community that learns, leads, and leaves a lasting impact.

DR. PUJA RAJHANS
Faculty Advisor Of CES
Civil Engineering Department

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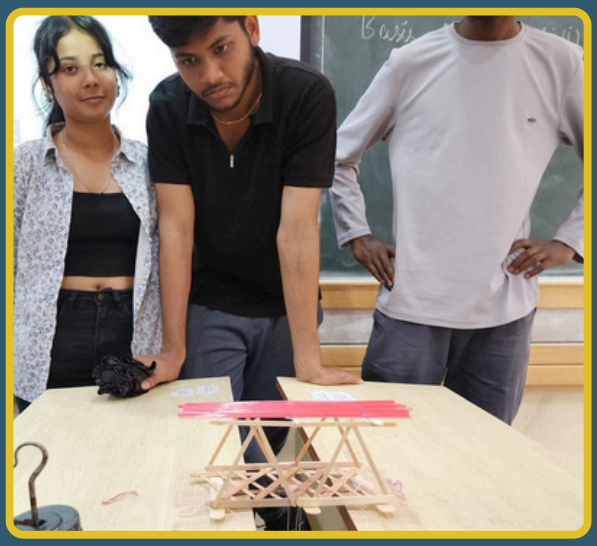
- DESIGN & TECHNICAL HEAD :- RICHIK KUMAR , AMRITASH SINHA
- EXECUTIVE MEMBERS :- UDIT RAJ , ARJUN BACHANI

STUDENT ACTIVITIES

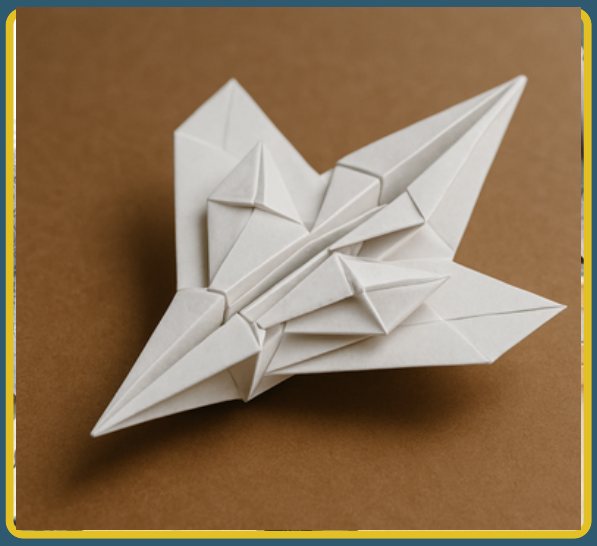
BRIDGE THE GAP

The "Bridge the Gap" event typically involved participants building a small bridge using the materials provided to them and possibly bear load. It was fun team-building exercise that encouraged creativity, collaboration, and problem-solving.



PLANE CRASH

The 'Plane Crash' event involved participants designing and building paper planes, aiming to fly them the farthest distance. It served as a fun and engaging team-building activity that fostered creativity, collaboration, and problem-solving skills.



RECENT GRADUATES