



BIRLA INSTITUTE OF TECHNOLOGY, MESRA

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PLACEMENT  
BROCHURE  
2021 - 22

*Department of*  
**CIVIL & ENVIRONMENTAL ENGINEERING**



### Programmes Offered :

#### *Undergraduate Programmes*

- B.Tech. (Civil Engineering)

#### *Post-Graduate Programmes*

- a) M.Tech. (Structural Engineering)
- b) M.Tech. (Soil Mechanics and Foundation Engineering)
- c) M.Tech. (Environmental Science and Engineering)

#### *Doctoral Programmes*

- Ph.D.

The Department of Civil Engineering was established in 1957. It was renamed as Department of Civil and Environmental Engineering in 2014. There are well established laboratories in the department. The faculty members are well qualified and are having degrees from reputed Institutes. 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.

The department's vision is 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.

The department focuses on developing professional skills through quality education & research, to outreach various sectors of society through interdisciplinary programmes and practical oriented approach and to create dynamic, logical and effective leaders with inspiring mindsets.

## FIELD OF STUDY

- Design of Hydraulic Structures
- Specification, Estimation and Costing
- Airport, Dock and Harbor Engineering
- Construction, Planning and Management
- Bridge Engineering and Tunneling
- Soil Engineering
- Computer Aided Design
- Concrete Structures
- Structural Engineering
- Pre-Stressed Concrete
- Disaster Management
- Reinforced Concrete Design
- Surveying
- strength of Materials
- Steel Structure Design
- Structural Analysis
- Geotechnical Engineering
- Highway Engineering
- Railway Engineering
- Environmental Engineering
- Water Resource Engineering
- Earthquake Resistant Design

The Department of Civil Engineering has well equipped laboratories related to various specializations such as Surveying, Structural Engineering, Soil Mechanics and Foundation Engineering, Hydraulics, Building Materials, Transportation Engineering, Rock Mechanics, Environmental Science and Engineering and a Computer Laboratory. The field tests generate topics for the advanced laboratory courses in the respective areas.

### LABORATORIES

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

### FACILITIES

- Field-testing in Geotechnical Engineering
- Transportation Engineering
- Non-Destructive Testing Equipment for Structural Engineering.
- Environmental sample testing

### MAJOR EQUIPMENT AVAILABLE

- Carbonation chamber
- Accelerated curing tank
- ACM Instrumentation
- Rapid Chloride Penetration
- Concrete Maturity meter
- Heat of hydration
- half-cell potentiometer
- Rebound hammer
- Static – cum- Cyclic triaxial testing machine
- Laser diffraction particle size analyser
- Automatic soil compactor
- Relative density testing equipment
- Consolidation bench
- Large box shear test
- Core Cutter
- Pulveriser

## IEI

Institute of Engineers represents India in the Engineers Mobility Forum. The institution has been prominent in World Mining Congress (WMC) the World Federation of Engineering Organizations (WFEO), the Commonwealth Engineers' Council (CEC), the Fédération International e du Béton (fib), and the Federation of Engineering Institutions of South and Central Asia (FEISCA). The IEI, Students Chapter of BIT MESRA connects the students with engineers and engineering institutions across India.



## AAROHAN

Aarohan is a 3-day Technical Extravaganza organized by IEI, Students Chapter of BIT Mesra to whet the inquisitiveness, to unleash the Engineer within and to explore the techie side of the students. An inter college fiesta consisting of online, formal & informal events, the fest is also equipped with various Guest Lecturers specialized in their field of work.



Research Areas include Air Pollution, Applied Hydrology, Bioremediation, Composite Materials, Concrete Structures, Durability Of Concrete, Geo-Environmental Engineering, Groundwater Flow Modelling, Groundwater Quality Management, Heavy Metal Pollution Monitoring & Remediation, Intelligent Modelling in Geotechnical Engineering & Air Pollution, Mine Slope Stability Analysis, Open Channel Hydraulics, Pavement Materials, Soil Stabilisation, Solid Waste Management, Structural Dynamics, Wastewater Treatment, Water Quality Assessment, Assessment & Remediation of Emerging Pollutants in Water, Climate Change, Ecosystem Assessment & Management.

## RESEARCH

- “Effect of Blasting on Opencast Mine Dump and development of relationship between Blast Induced Vibration and Dump Design.” (Coal India Limited R&D, Ministry of Coal)
- Prediction of Particulate Matter and Gaseous Pollutant Concentration Through ANN, PNN and CART Models and Comparison With Calpuff and Aermoc In Singrauli Coal Mines (Coal India Limited R&D, Ministry of Coal)
- Modeling Carbonaceous Aerosol Source Influence and Atmospheric Effects (MoEFCC)

## ACHIEVEMENTS

- Mr. Neeraj Kumar Sharma a, Civil Engineering BIT Mesra, Alumnus named as one of the ten New Faces of Civil Engineering by ASCE (American Society of Civil Engineers).
- Miss Mansi Jha (2017 Batch) was selected for Dr. A.P.J Abdul Kalam Summer training fellowship program 2020 at CSIR-CBR
- Mr. Sharique Khan (2017 batch) was selected for Winter Internship Program at IIT Indore under Dr. Neelima Satyam

The students have in them a varied sense of understanding in the current methods and operating procedures by the help of subsequent internships during summer and winter breaks. In order to facilitate the students with new advancements the department also ensures industrial visits over the period of semester so that students are convinced by practical means of theoretical sorts. These are some of the places wherein our students have worked as interns:

**Industries:**

- BSRDC
- SAIL
- Tech Mahindra
- Cognizant
- ODA Classes
- NHAI
- L & T
- Rodic
- MECON
- Navayog
- DMRC

**Institutes:**

- Illinois Institute of Technology, Chicago
- IIM Ranchi
- IIT Delhi
- CBRI, Roorkee
- IIT, Indore
- IIT, Kharagpur
- Virigina Tech



*Few of our proud*  
**RECRUITERS**





**Thank You**

*for your Time & Attention !*

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**Contact Us :**

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