

# PLACEMENT BROCHURE

2022-23

भारतीय  
प्रौद्योगिकी  
संस्थान  
काशी हिन्दू विश्वविद्यालय



INDIAN  
INSTITUTE OF  
TECHNOLOGY  
BANARAS HINDU UNIVERSITY

## DEPARTMENT OF MINING ENGINEERING

# ABOUT US



The Department of Mining Engineering: IIT(BHU), Varanasi, was established in 1923 as the country's first institute imparting education in mining engineering. Over the next century of its pioneering existence, the department has produced stellar engineers and researchers - many of whom are today leading the mineral industry in India and abroad. The teaching methodology and the course structure ensure that the department's students excel professionally in whichever paradigm they choose to pursue, be it mining engineering, software development, consulting or finance.

The department offers a four-year B.Tech in Mining Engineering and a five-year Integrated Dual Degree (IDD) course. M.Tech programmes in Mine Planning, Rock Mechanics and Mine Ventilation, and PhD degrees in various specializations of mining engineering are also offered.

# FROM THE HOD'S DESK

**Prof. Piyush Rai**

**Dear Recruiters,**

**Achieving organizational excellence in the hyper-competitive business environment of today is a herculean task. I am sure you feel the need to have motivated and skilled individuals in your organization to help you succeed in your endeavors.**



With immense pleasure, I introduce you to the 2023 batch of the Department of Mining Engineering, IIT(BHU). What makes this batch special and unique is their ability to excel in any paradigm - engineering, consulting, research, software development, analytics and various important business verticals.

The students that are about to graduate are enthusiastic and self-driven. They have secured education from one of the country's most prestigious institutes, the Indian Institute of Technology (BHU), by excelling in the most competitive entrance examination. Their years of study, learning and training in this unique institution have carved them as excellent human beings, dedicated to various noble causes of humanity and society. They are capable and eager to learn, ready to help you achieve your organization's goals.

# COURSE STRUCTURE

## Core Mining

Mine Development  
Mining Geology  
Mining Machinery  
Mine Surveying  
Drilling and Blasting  
Underground Coal Mining  
Mine Planning  
Underground Mine Environment  
Rock Mechanics and Instrumentation  
Surface Mining  
Underground Metalliferous Mining  
Mine Management and Mineral Economics  
Mine Management and Mineral Economics  
Environmental Management in Surface Mines  
Mine Legislation  
Computer Applications in Mining  
Data Analytics  
Operations Research in Mining  
Reliability Engineering  
Geoinformatics



## Open Electives

Machine Learning  
Data Mining  
Network Security  
Natural Language Processing  
Parallel Computing and Distributed Systems  
Mathematical Modeling and Simulation  
Smart Materials and Structures  
Ubiquitous Computing  
Fuzzy Set Theory  
Finite Element Analysis  
Distribution Theory  
Supply Chain Management  
Integrative Intelligence: Cognition Learning  
Industrial Management  
Data and Digital Economy  
Finance and Economy for Engineers  
Quality Management and Business Strategy  
Media Environment



## Other Courses

Computer Programming  
Physics I: Classical, Quantum & Relativistic Mechanics  
Engineering Mathematics  
Engineering Mechanics  
Fundamentals of Electronics Engineering  
Fundamentals of Electrical Engineering  
Numerical Techniques  
Probability and Statistics  
Engineering Drawing  
Manufacturing Practices



# LABS AND FACILITIES

- Rock Mechanics Laboratory
- Mine Planning and Design
- Mine Ventilation and Pollution Control
- Mine Processing and Benefication
- Mine Machinery Laboratory
- Mine geology Laboratory



# DEMOGRAPHICS

## **B.Tech:**

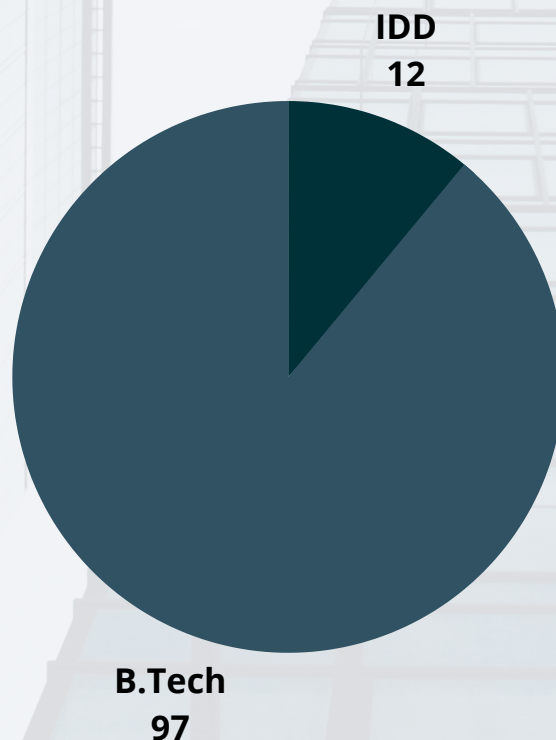
The Department runs a four-year B.Tech. program in Mining Engineering since 1921. Students, for the program, are admitted through the most prestigious UG engineering entrance exam of the country, JEE (Advanced). The program covers eight broad areas of Mining Engineering discipline.

## **M.Tech:**

Department of Mining Engineering Conducts M.Tech Program in Mine Planning, Rock Mechanics and Mine. It is a full-time program of two years duration. The students are admitted through the Graduate Aptitude Test in Engineering(GATE).

## **Integrated Dual Degree (IDD)**

Students, for the program, are admitted through the most prestigious UG engineering entrance exam of the country, JEE (Advanced). The students work on a research problem independently leading to PG Dissertation for a period of one year after completion of B.Tech programme.



# MINOVATION



The Mining Engineering Society, IIT(BHU), conducts an annual department event named Minovation.

Minovation engages the student community in finding new and more efficient approaches based on modern technologies such as Machine Learning and the Internet of Things (IoT) to replace the traditional methods prevalent in the mineral industry. This experiential learning approach has been imperative in ensuring a high level of competence in mining engineering and new-age technologies and techniques.

## WORKSHOPS

- 1) **Application of IOT in Mining** by Mr BP Singh, Director of DGMS
- 2) **Supply chain and management in Mining** by Dr Pankaj Chandra, Ex-director of IIMB.

## EVENTS

- 1) **Geocarter** - using image processing simulation for the identification of rocks
- 2) **Dig in the Data** - using **ML algorithms** to solve complex Rock Mechanics problems

# NOTABLE ALUMNI



**Prof. Pankaj Chandra**

**Vice Chancellor & Chairman**  
Board of Management, Ahmedabad  
University

**Former Director**  
Institute of Management, Bangalore  
(IIMB)

**Chairperson,** Doctoral Program ,IIM  
Ahmedabad

**Chairman & Managing Director**  
CMPDI

**Ex-Director technical(CRD)**  
CMPDI

**Co-Chairman**  
Coal sub-committee



**Mr. Shekhar Saran**



**Mr. B.N Shukla**

**Chairman & Managing Director,**  
MCL

**Ex-Director** Technical  
Operations SECL

**Ex-director (Technical)** at CMPDI.

**Vice President & Head**  
**(Mining)** at Jaypee Group

**Mr. Uma Shankar**

**Emeritus Professor and Director** of  
the Petroleum Development  
laboratory at the University of Alaska,  
Fairbanks, Alaska.

Served on the **United Nations**  
**Development Program** as a TOKTEN  
consultant.



**Prof. Sukumar Bandopadhyay**

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# Contact us

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## Department Website

<http://www.iitbhu.ac.in/min/>

## T & P Website

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## Student Training and Placement Coordinators

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