

# PLACEMENT BROCHURE

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(2022-23)

DEPARTMENT OF CIVIL ENGINEERING  
IIT (BHU)

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## **ABOUT US**

- »» In 1949, BENCO (Banaras Engineering College), which was part of BHU, created the Civil Engineering Department (then known as Civil and Municipal Engineering).**
- »» Environmental Engineering, Geotechnical Engineering, Hydraulic Engineering, Structural Engineering, and Transportation Engineering are among the Post Graduate courses available to its students.**
- »» CSIR, UGC, SAP, HUDCO, DST, and AICTE are some of the research programmes that the department has taken up. It offers short-term courses, training courses, seminars, workshops, and conferences to help students improve their skills.**
- »» Structural Engineering, Transportation Engineering, Geotechnical Engineering, Environmental Engineering, Hydraulics, and Surveying & Geo-informatics are among the labs available. It has its own computer lab as well as a department library.**
- »» There is also a Ganga Laboratory that deals with issues like Ganges River Pollution, Flood Control, and other related issues. a slew of other issues relating to the river Ganga.**
- »» A seminar hall and an R.H.D. centers are also available.**



- India has embarked on a large infrastructure expansion that would require Civil Engineers to play a key role in national construction for the second time since independence in 1947.
- As a result, the Department has set its goals for a new period, focusing on technology, and has begun making reforms to fulfill the nation's demands.
- Three major modifications are now underway: updating academic programme content, laboratory facilities (including a computer lab with updated software), and including younger students in projects.
- The Department of Civil Engineering's critical work is guided by its active academic members. The Department of Civil Engineering, with its diverse staff, continues to build and maintain strong ties with the infrastructure industry, as well as academic and research institutions both within and without the country.
- So, with the objective of providing world-class undergraduate and postgraduate education, research guidance, professional consultancy, outreach and manpower training, and civil engineering leadership, the Department of Civil Engineering will continue to preach its objective with dedication.



- The Department offers two types of courses: Undergraduate & Postgraduate.
- The UG and PG teaching programmes emphasize both on basic Civil Engineering subjects and technologies to make the students suitable for Indian construction industries.
- The programmes leading to M. Tech. and Ph. D. degrees in Civil Engineering emphasize course work in modern as well as traditional Civil Engineering fields, coupled with a strong programme of individual studies and research.
- With a vision of the future, the programmes in the Department are aimed at preparing the students to be in the forefront of an advancing field.

- There are nine autonomous research laboratories in the department. The majority of the facilities are air-conditioned and include cutting-edge equipment.
- The B.Tech. program's curriculum comprises successful completion of the most recent experiments in these facilities.
- Laboratories are well prepared to carry out advanced level teaching and research in Civil Engineering, and the facilities created are being extensively utilized for research into cutting-edge national and international areas of interest.





# Structural Engineering Lab

- This Lab has facilities related to construction technology, Construction Management, Functional Design of buildings, and Building Materials.
- It is equipped with the following equipment: Universal Testing Machine of 100-ton and 200-ton capacity, Non-destructive test hammer, Furnace 1200° C, Concrete core cutter, Prestressing bed, Load Frame, Data printer (strain measuring system), Ultrasonic tester, Rebar locator, Flexural testing machine, Resistivity meter for measuring the rate of corrosion, Shake Table (Seismic Analysis Table) etc.
- This Lab has a heavy testing floor with the necessary facilities for testing scaled structural models.





# Transportation Engineering Lab

- This Lab is furnished for pavement materials testing and traffic engineering studies.
- This Lab is facilitated with the latest equipment. These facilities enrich teaching and are also of much value in conducting research and consultancy services.
- The Lab has different types of equipment, such as a Computer-driven testing system, Automatic Pavement, Unevenness Integrator, In-situ Pavement Sampling and Testing Equipment, Bitumen Extraction and Processing Equipment, Materials Testing Equipment, Traffic Engineering Laboratory, Marshall Stability Test Equipment with Digital Display and Graphic Plotter, etc.



# Geotechnical Engineering Lab

- Excellent laboratory facilities exist for advanced research in various areas of Geotechnical Engineering.
- The facilities are used for conducting undergraduate and post-graduate laboratory classes and post-graduate research works.
- It has facilities such as a Mini pressure meter, a Large size direct shear machine, Soil Properties Testing Equipment, Creeps testing facilities for geosynthetics, etc.





# Environmental Engineering Lab

- The environmental engineering laboratory has almost all state of the art equipment such as a Spectrophotometer, Atomic absorption spectrometer, total carbon analyser, and US-VIS spectrophotometer.
- Gas chromatograph, flue gas analyser, stack monitoring kit, phase contrast microscope, flame photometer, laminar hood, and COD digester and this equipment make it a mobile Lab.





# Hydraulics Engineering Lab

- This laboratory is well equipped with table-top hydraulic models, different types of flumes, Turbines, Pumps, a Fluorimeter, a Hydraulic bench, an Electro magnetometer, and a facility for physical model studies.
- Excellent computational facilities, towing tank, and open-air physical models.



# Surveying and Geoinformatics Lab

- This laboratory is well equipped with: Remote sensing and Geographical information system software (Erdas Imagine, Arc GIS 10.2, IDRISI Taiga, ArcGIS Engine), AutoCAD Software, DGPS, Handheld GPS Receivers, Total Stations, Theodolites, Auto Levels, Dumpy Levels, Tachometer, Plane Tables, EDM, StereoScope.
- This Lab has the Pentium i7 PCs on the windows networking, AO size Color Plotter, Color printer and scanner, Digital Camera etc.



# Computer Lab

- The Computing Facility supports the computing and programming requirements of the students with Hardware and Software maintenance in the department.
- It is housed in a large, Air Conditioned, and well-furnished hall that accommodates 40 Personal Computers powered by 25 KVA UPS with additional service and peripheral rooms.
- This facility is being utilized as an online classroom for conducting computer-based courses such as GIS, computer application in Civil Engineering and building drawing etc.
- Peripherals such as laser Printers, Scanners and Data Storage facilities are made available for students and faculty.
- A list of software available are: Visual Studio 6.0, Borland C++, SAP 2000, STAD PRO 2005, Autodesk(full), Microsoft Office, etc.





The department has its own Civil Engineering Society which is dedicated in organizing lectures by various experts in their respective field, group discussions, competitions, sports and various other extra-curricular and cultural activities so that there would be an holistic all round development of students. Also this society conducts a separate fest for the Civil Engineering Students, known as, Shilp.



- **SHILP is the Civil Engineering Society of IIT (BHU), Varanasi's Department of Civil Engineering's Technical Festival.**
- **Its goal is to establish a learning and innovative environment while also presenting you with a variety of complex work issues that will force you to apply all of your knowledge while also acquiring new abilities.**
- **Case studies, paper presentations, management, and real-life work difficulties would all be part of the festival.**
- **SHILP provides a platform for aspiring Civil Engineers like you to expand their current knowledge and participate in a variety of events.**





# FACULTY PROFILE

## **Prof. Virendra Kumar**

Qualification: B.Tech Cv Engg L BT Kanpur,  
M.Tech Suctural Engg 1 T Kanpur, Ph.D ST  
BHU

Areas of Interest: Stuctural Engineering  
Materials, Plastic Analysis

## **Prof. Prabhat Kumar Singh**

Qualification: B.E.(Civil Engg.JAMU,Aligarah,  
M.Tech IIT Roorkee, Ph.D IIT Kanpur  
Areas of Interest: Environmental Engineering -  
Water Quality Control, Environmental Impact  
Assessment

## **Prof. Devendra Mohan**

Qualification: B.Tech(Civil Engg.) IT-BHU,  
M.Tech (Environmental Engg.) IT-BHU, Ph.D IT  
BHU

Areas of Interest: Environmental Engineering -  
Air Pollution Control, Abatement of  
Automobile Exhaust Pollution

## **Prof. Gautam Banerjee**

Qualification: B.E(Civil Engg.1 B.E. College  
Shivpur, M.Tech (Environmental Engg.) IIT  
Kharagpur, Ph.D IIT Kharagpur

Areas of Interest: Environmental Engineering  
Air Pollution Control, Abatement of  
Automobile Exhaust Pollution

## **Prof. P.K.S.Dikshit**

Qualification: B.Tech Civil Engg.) GBPUA&T  
Paninagar, M.Tech IT-BHU, Ph.D GBPUA&T  
Pantnagar

Areas of Interest: GIS, Remote Sensing  
Application in Water Resource Engineering,  
Application and Design of Hydraulic Structures

## **Prof. S. Mandal**

Qualification: B.E.ICMI Engg.) Jadavpur  
University, M.E.(Structural) Roorkee University,  
Ph.D IIT Roorkee

Areas of Interest: Structural Engineering -  
Finite element analysis of Structures, Wind  
effect on structures





# FACULTY PROFILE

## **Prof. Rajesh Kumar**

Qualification: B.E.(Civil Engineering), BIT Sindri, Dhanbad M.E.(Structural Engg.), NIT Rourkela, Ph.D. (Structural), IIT Kharagpur  
Areas of Interest: Structural Optimization, Non-Linear Structural Mechanics, Finite element analysis, Earthquake

## **Prof. S.B. Dwivedi**

Qualification: B.Sc.(Hons), M.Sc., Ph.D. (Geology), B.H.U.  
Areas of Interest: Minerology, Minerological Thermodyn Matamorphic Petrology & Applied Geochemistry

## **Prof. Krishna Kant Pathak**

Qualification: B.Tech (Civil Engg) KNIT Sultanpur, M.E (Structural Enggl, MNNIT Allahabad, Ph.D (Solid Mechanics) IIT Delhi  
Areas of Interest: Structural Engineering - Confinuum Mechanics, Structural Analysis & Design, Structural Shape

## **Dr. Brind Kumar**

Qualification: B. E. ( Civil Engineering) KREC Suratkal (Manglore University), M.E. M.M.M. Engg. College, Ph.D.(Gorakhpur University)  
Areas of Interest: Transportation Engg. Traffic Noise Pollution, Subgrade Stabilization of Organic Solls, Rigid Pavements.

## **Prof. Arun Prasad**

Qualification: B.Sc Engg.), M.Sc., Ph.D., Post Doctoral (UPM, Malaysia)  
Areas of Interest: Soil Stabilization, Ground improvement.

## **Dr. K.K. Pandey**

Qualification: M.Tech (IIT Kanpur ), Ph.D (IT BHU Varanasi)  
Areas of Interest: Concrete Fracture mechanics, Hydrau and Water Resource Management.



# FACULTY PROFILE

## **Dr. Pabitra Ranjan Maiti**

Qualification: B.E.(Civil Engineering) BESU Shibpur, M.E. BESU Shibpur, Ph.D. IIT Kharagpur

Areas of Interest: Fluid-Structure interaction, Hydraulic Structure, Fluid Flow, Computational Dyn.

## **Dr. Ankit Gupta**

Qualification: B.Tech(Civil Engg.), Govt. Engg College Kota M.Tech IIT Roorkee, Ph.D. IIT Rorkee

Areas of Interest: Pavement Performance Modelling, Pavem. Material Characterization, Pavement Manag. Systems.

## **Dr. Anurag Ohri**

Qualification: B.Tech NIT Kurukchetra, M.Tech IIT Roorkee Ph.D. IIT (BHU) Varanasi

Areas of Interest: Surveying, Remote Sensing, GIS, Image Classification, Spacial Decision Support Sys.

## **Dr. Rosalin Sahoo**

Qualification: M.Tech (Structural) NIT Rourkela, Ph.D. IIT Kharagpur.

Areas of Interest: Shear Deformation Theories, Laminated Composites, Sandwich Construction, Plate and Shell Struc. Finite Element Method, Uncertainty Quantification.

## **Dr. Medha Jha**

Qualification: B.Sc., M.Sc.(Geology), Ph.D.[Rani Durga wati University M.P.)

Areas of Interest: Hydro-geomorphology, Hydro-Geology Engineering Geology, Petrography.

## **Dr. Nikhil Saboo**

Qualification: M.Tech (IIT Kharagput), Ph.D [IIT Roorkee)

Areas of Interest: Pavement Materials, Pavement Eval. Design and Analysis, Rheology of Asphalt Binders.



# **FACULTY** **PROFILE**

## **Dr. Abisek Mudgal**

Qualification: B.Tech (Civil Engineering] IIT Delhi, MS an Ph.D Iowa State University (USA)  
Areas of Interest: Vehicular Emissions Modelling, Transportation and Health Accident Analysis, Transportation Economics, Intelligent Transportation System

## **Dr. Supriya Mohanty**

Qualification: B.Tech (Civil Engineering] VSSUT, Ph.D IIT Kanpur  
Areas of Interest: Geotechnical Earthquake Engineering. Liquefaction Potential Evaluation, Nonlinear Dynamic Response Analysis, Soil Dynamics, Waste Utilization

## **Dr. Manash Chakraborty**

Qualification: B.E./Civil Engineering) Jadhavpur University, M.Tech IIT Kanpur, Ph.D. IISc (Banglore)  
Areas of Interest: Structural Engineering - Soil Mechanics, Finite Element Method, Limit Analysis Optimization; Finite Element Analysis; Building Materials Assessment

## **Dr. P. B. Ramudu**

Qualification: B.Tech (Civil Engineering] JNTU, ME and Ph.D MNNIT Allahabad  
Areas of Interest: Geotechnical Engineering- Critical State Soil Mechanics; Environmental Geotechnics; Soil Improvement using Waste by-products; Remediation of Contaminated Sites.

## **Dr. Suresh Kumar**

Qualification: Ph.D. IIT Delhi  
Areas of Interest: Ground Improvement Techniques & Geosynthetic application.



# PAST RECRUITERS



Larsen and Toubro



ATKINS



KALYANI

BHARAT  
FORGE



IndianOil



Bharat  
Petroleum

Thornton  
Tomasetti



ZS Associates



meesho

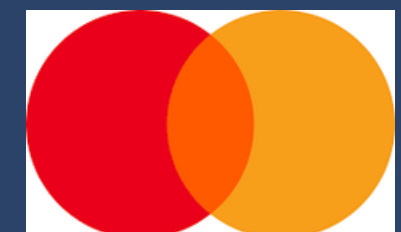
Goldman  
Sachs



AECOM

Uber

JPMORGAN  
CHASE & CO.



mastercard



Walmart

# WHY SHOULD YOU HIRE US?

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- Our candidates possess all of the necessary qualifications and experience. Apart from civil engineering studies, our students are taught a variety of additional courses that provide them an advantage in a variety of scenarios.
- Our students' expertise and experience include civil engineering, but they are not restricted to it; they are also effective managers, as seen by their participation in numerous summer internships and training during their holidays.
- Our pupils have also improved their communication abilities during the course of the programme. Our students aced all of their labs and subjects, and the projects they produced were all excellent, offering creative answers to some of the world's most pressing issues.
- They've also won a number of honors and are well-known in the industry.
- For the past few years, the Civil Engineering department has delivered some of the most sought-after engineers, project managers, and even programmers to a variety of companies.
- We prepare our students to be more than just engineers; we prepare them to be agents of positive change, to be those who assist and encourage others while remaining ever eager to learn.



# CONTACT US

## Head of Department

Prof. Prabhat Kumar Singh Dixit  
0542670-1526,1532  
head.civ@iitbhu.ac.in

## Department Placement Officer

Dr. Agnivesh Paani  
+91-7737810020  
agnivesh.civ@iitbhu.ac.in

## Training and Placement Office

+91-542-2307007  
placement.iitbhu.ac.in  
tpo@iitbhu.ac.in

## Student Placement Coordinators

Abhigyan Srivastava

+91-798-596-6703

abhisrivastava.civ18@iitbhu.ac.in

Bhawak Anand

+91-965-458-4636

bhawak.anand.civ19@iitbhu.ac.in

Palak Gupta

+91-951-563-0704

palak.gupta.civ19@iitbhu.ac.in

Akarshit Magotra

+91-600-620-0654

akarshit.magotra.civ19@iitbhu.ac.in