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INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI

**MTECH-GEOINFORMATICS
PLACEMENT BORCHURE**

MESSAGE FROM DIRECTOR

Greetings from Indian Institute of Technology (BHU), Varanasi and a hearty welcome to the Land of Shiva !!!

We are proud to be the first to pioneer degree level engineering education in undivided India almost a century ago in 1919 and by none other than our revered Bharat Ratna Mahamana Pt. Madan Mohan Malviya Ji. The present day institute was created after the merger of three erstwhile colleges – Banaras Engineering College, College of Mining and Metallurgy and College of Technology.

In this age of liberalization, privatization and globalization, there is an ever increasing industry requirement for professionals who have high employability index and required competencies with an inquisitive mind set for innovations. Our collective and continuous commitment is to create vibrant and technology savvy environment where excellence is the credential. Our students imbibe all personality traits, values of the cultural city of Kashi and diversity of the BHU campus within which this Institute exists. Academic curricula not only provide them strength in their own area, but also from open electives in multiple disciplines. This uniqueness helps our students in successfully carrying out their responsibilities as a member of cross–functional team in any organization. Our excellent placement record over years speaks about the value of our students to their employers.

I am confident that our students will prove their mettle and will contribute immensely towards growth and success of your organization. Looking into great achievements of the alumni of this Institute, I am sure that you and your organization is going to have a wonderful experience of intern and full-time hiring at this Institute and this relationship will go beyond for having other kind of engagements as well for mutual benefits.

I extend my deep appreciation for our industry partners who have recognized the depth of our rich and diverse talent pool and accorded valuable opportunities. I am looking forward to your visit to this campus soon.



**PROF. PRAMOD
KUMAR JAIN**

**DIRECTOR,
IIT (BHU) VARANASI**

MESSAGE FROM TPC INCHARGE

It gives me immense pleasure to extend you a most cordial invitation to participate in the Campus Recruitment Programme of the Indian Institute of Technology (BHU), Varanasi. With an increasing thrust being placed on Institute-Industry Interaction, it is my sincere belief that your esteemed organization and IIT (BHU) Varanasi will stand to gain immensely from this symbiotic relationship.



**PROF. ANIL KUMAR
AGRAWAL**

**TRAINING AND
PLACEMENT OFFICER,
IIT (BHU) VARANASI**

Our Institute holds the pride of place being pioneer in the field of engineering and technical education in this country and has a glorious heritage. We have been continuously ranked amongst the elite by all peers and stakeholders. Our constant pursuit of excellence has made our institute a focal point in technical education for students and faculty members alike. Admissions to the institute take place through the reputed Joint Entrance Examination (JEE) and Graduate Aptitude Test in Engineering (GATE).

At this institute, we take utmost care to groom our students according to the needs of the industry. We seek to open frontiers of knowledge and reveal new horizons of change to broaden mindset and to create positive attitude in our students. Our students receive industrial exposure by their frequent industrial visits. Besides, our undergraduate students undergo an eight-week training during summer vacation in reputed industries/institutions/organizations (in India as well as abroad) as part of their academic requirements.

Brochure will provide brief profile of the Institute, as well as details of the various programmes/courses offered by the Departments and Schools including details of the contact persons. More details with regards to our placement policy can be had from our website. Please feel free to contact the Training & Placement Office should you require any further information/clarification.

We would be most delighted to host you for campus recruitment and beyond. I am looking forward to a mutually beneficial relationship.



ABOUT US:

Indian Institute of Technology (Banaras Hindu University) Varanasi (abbreviated Indian Institute of Technology (BHU) Varanasi is a public technical and research university located in Varanasi, Uttar Pradesh, India. Founded in 1919 as the Banaras Engineering College, it became the Institute of Technology, Banaras Hindu University in 1968. It was designated an Indian Institute of Technology in 2012

IIT (BHU) Varanasi has 16 departments, 3 inter-disciplinary schools and Humanities & Social Sciences Section. It is located inside the Banaras Hindu University Campus, however is not dependent on it.



DEPARTMENT OF CIVIL ENGINEERING

The Civil Engineering Department was established in 1949 (then known as Civil and Municipal Engineering) in BENCO (Banaras Engineering College) which was a part of BHU. Presently, it caters its student with various Post Graduate courses like Environmental Engineering, Geotechnical Engineering, Hydraulic Engineering, Structural Engineering, and Transportation Engineering etc. The department has taken up various research programmes apart from regular teachings and the research activities, namely CSIR, UGC, SAP, HUDCO, DST and AICTE. It has created cooperation with industries to work for the various tasks given by Govt., Semi-Govt. and other Private organisations. The department has its own Civil Engineering Society which is dedicated in organising lectures by various experts in their respective field, group discussions, sports and various other extra-curricular and cultural activities so that there would be an holistic all round development of students.

MTECH

Department of Civil Engineering Conducts
M.Tech Program in Structural Engineering,
Hydraulics and Water Resources
Engineering, Geotechnical
Engineering, Environmental
Engineering, Transportation Engineering,
Geoinformatics and
Geosciences Engineering. Admission to this
program is offered to GATE
qualified/sponsored candidate through
departmental level screening test/counseling. In
addition to their course studies, the students are
offered big platform for their overall
personality development through
the participation in various extra-curricular
activities of the institute.

GEOINFORMATICS

ABOUT US

Geoinformatics is the science and the technology which develops and uses information science infrastructure to address the problems of geography, cartography, geosciences and related branches of science and engineering.

IIT (BHU) started MTech program in Geoinformatics in 2017

COURSE STRUCTURE

- Principles of Remote Sensing
- Geographical Information System
- GIS Applications in Transportation
- Geodesy & GNSS
- Digital Image Processing
- Principles of Surveying & Photogrammetry
- Geoinformatics Applications
- Geoinformatics in Disaster Management
- Remote Sensing & GIS for Geological engineering

FACULTY PROFILE



Dr. Anurag Ohri

Associate Professor

Department of Civil Engineering, IIT (BHU)

aohri.civ@iitbhu.ac.in

Dr Anurag Ohri did his PhD from IIT (BHU) . He did his B.Tech. from Regional Engineering College, Kurukshetra in Civil Engineering and M.Tech. (Remote Sensing and Photogrammetric Engineering) from IIT ROORKEE.

The major research work of Dr Anurag Ohri are based on Remote Sensing, GIS, Surveying, Solid Waste Management, Aerial Photogrammetry, Image Processing & Smart cities.



Dr. Shishir Gaur

Assistant Professor

Department of Civil Engineering, IIT (BHU)

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Dr Shishir Gaur did his PhD from IIT (BHU) with collaboration of the institute Ecole Des Mines, France. He did his B.E. from M.B.M. Jodhpur in Civil Engineering and M.Tech. from M.N.I.T. Jaipur. He did his Postdoctoral research from France and worked with several esteemed French organizations i.e. CNRS, ANR, ARMIN, Municipal corporation St Etienne, ENS Lyon and received several prestigious fellowships in France.

The major research work of Dr Shishir gaur are based on Simulation-Optimization techniques, Geoinformatics, Super-resolution & Thermal imaging, machine learning techniques, autonomous surface water vehicle, water resource management, Smart cities.

LABORATORY:

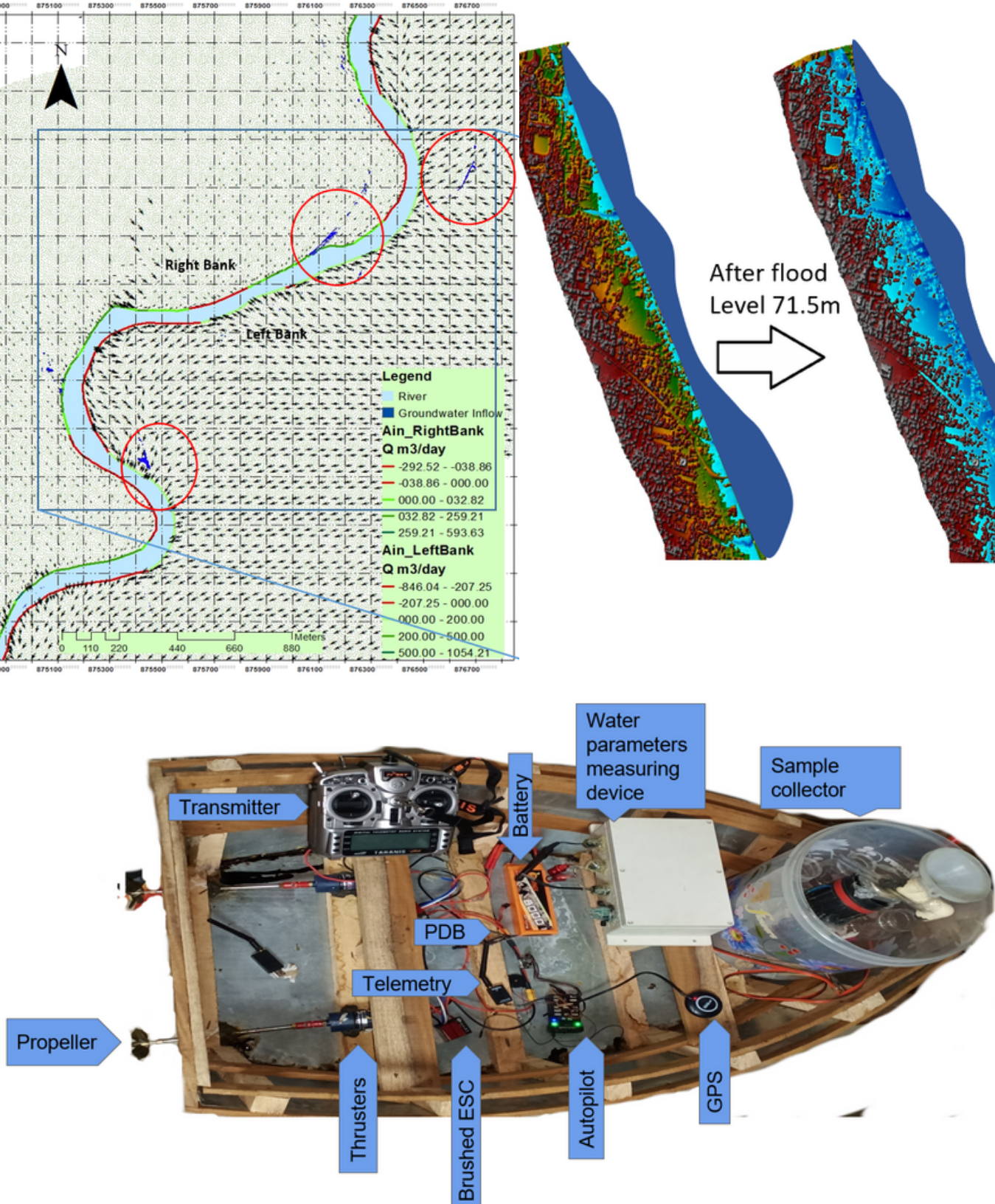
Lab is equipped with

- 40 advanced computer, work stations & servers.
- Drones having RGB and thermal cameras
- Eco-sounder
- Differential GPS
- Total station
- Different surveying instruments

SOFTWARES AVAILABLE

- ArcMap
- Arc Enterprise
- Arc City Engine
- Erdas Imagine
- Photogrammetri
- ENVI
- MALAB
- ANSYS
- Groundwater
- Modelling Software (GMS)

- Lab is also a regional Academic center of ISRO



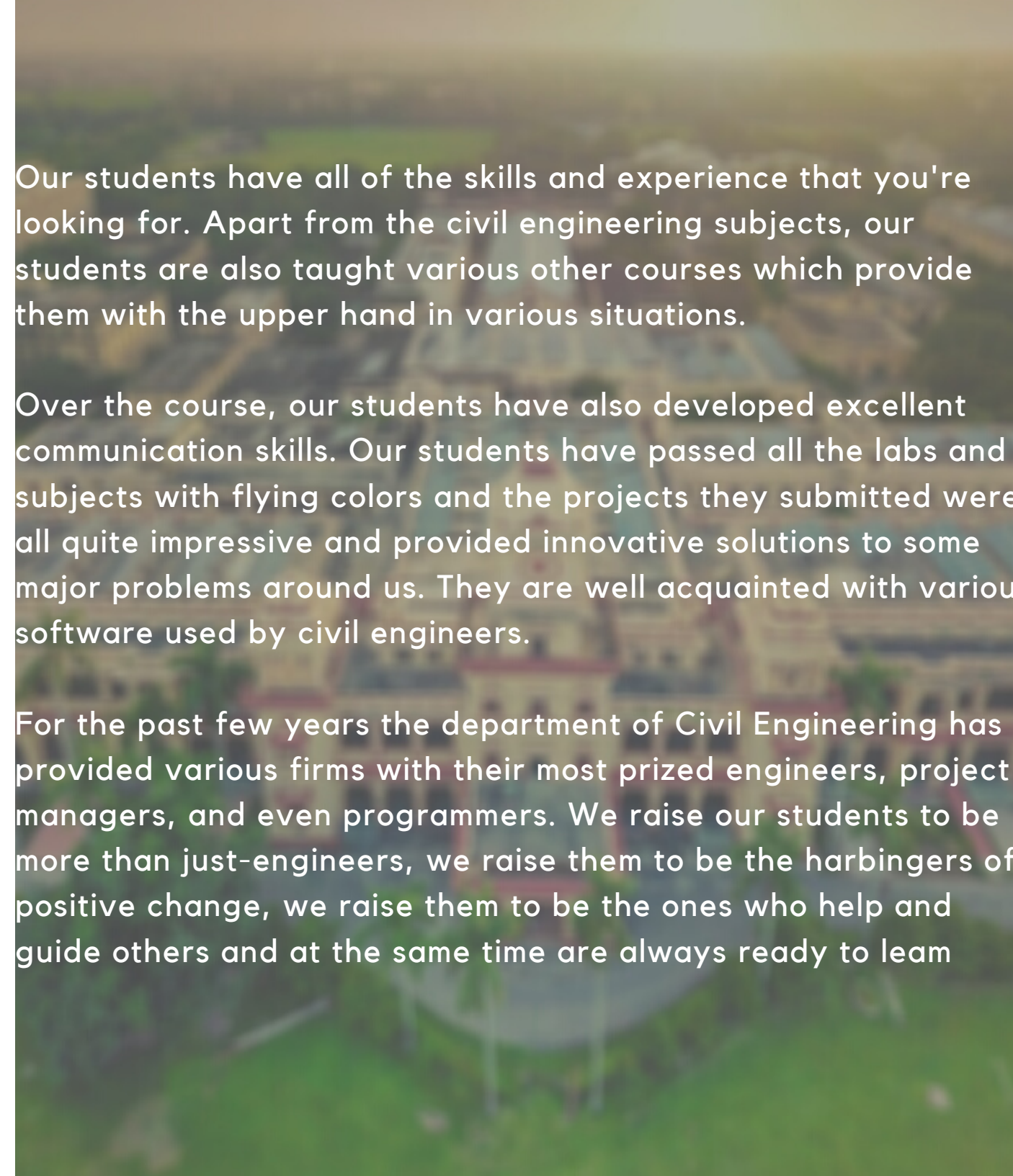
Research Topics

Collaboration with Foreign Universities:

- University of Lyon
- FranceNEcole Des Mines St Etienne, France
- Ecole National Engineering Saint Etienne, France

- Sensors mounted autonomous surface water vehicle for data collection.
- GIS based app for 3D vector data
- Application of deep learning techniques for the classifications of super-resolution imageries.
- UAV based photogrammetry for development of DEM
- Application of thermal mapping in the field of water resources
- Study of river-aquifer exchanges through mathematical models
- Application of Simulation-optimization models for groundwater resource management.
- Sustainable planning for the Smart City using Geospatial Techniques, Analysis and Modeling.

Research work is going on projects funded by: European Union, NRDMS-DST, NSDI, Defence corridor



Our students have all of the skills and experience that you're looking for. Apart from the civil engineering subjects, our students are also taught various other courses which provide them with the upper hand in various situations.

Over the course, our students have also developed excellent communication skills. Our students have passed all the labs and subjects with flying colors and the projects they submitted were all quite impressive and provided innovative solutions to some major problems around us. They are well acquainted with various software used by civil engineers.

For the past few years the department of Civil Engineering has provided various firms with their most prized engineers, project managers, and even programmers. We raise our students to be more than just-engineers, we raise them to be the harbingers of positive change, we raise them to be the ones who help and guide others and at the same time are always ready to learn

**WHY
SHOULD
YOU
HIRE?**

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For any queries, please contact department placement co-ordinators or TPO during office hours.
For additional information on Department of civil engineering please visit : www.iitbhu.ac.in/civ