



INDIAN INSTITUTE OF TECHNOLOGY PATNA



DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

**B. Tech
Placement Brochure
2021-22**

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About Us



The Department of Civil and Environmental Engineering (DCEE) of IIT Patna was established in Year 2013. The Department offers a four-year and two-year program leading to Bachelors and Masters Degree in Civil Engineering. It constitutes five independent disciplines: Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering, and Environmental Engineering. DCEE, IIT Patna is adopting an integrated approach to forge all these areas into a multi-disciplinary and application-oriented course. This interdisciplinary nature will lead to the development of the creative and analytical ability of the students, thus improving the knowledge-based approach towards real-life situations. The Department has proved itself on the quality of its academic programs and is keeping pace with the latest developments in engineering education and is well equipped with state-of-the-art research laboratories to enable the students to carry out research and experimentation. It is committed to providing holistic and enriching industrial/research training opportunities to the students to help them excel in their professional life. The Department has several ongoing/approved projects and consultancy works. It makes a continuous effort of setting up and upgrading experimental and computational facilities.

Message from HOD's Desk



**Dr. Ramakrishna
Bag**

We are a part of the modern and growing IIT founded in 2008. Since its inception in 2013, the Department of Civil and Environmental Engineering at IIT Patna has continually upgraded itself in terms of academic programs and research infrastructure including state-of-the-art laboratories. The Department attracts the finest young and dynamic faculty members and the best of students for its Bachelors, Masters, and Doctoral programs. Since the inception of the Department, we have been imparting quality education by focusing on technical advancements and research. Students are exposed to well-defined academic programs along with a host of sport, cultural and organizational activities on a vibrant and splashing green campus of IIT Patna at Bihta.

Keeping in mind the infrastructure requirements for improved quality of life in a growing society as well as for industry and economic development, our curricula are designed as per the need of the hour and to meet the challenges of tomorrow. Apart from Institute and program core courses, our curricula provide flexibility to students to choose elective courses of interdisciplinary nature including humanities, social sciences, and management streams. Emphasis is provided on project-based learning. Students are encouraged to work on their projects or dissertation on topics of industrial and societal needs. The presence of state-of-the-art experimental and computational facilities, the active institute - industry interaction, rigorous training - both inside the classrooms and laboratories as well as through immersive industrial/research internships prepare the students of the Department with their innate quality to meet more than adequately any challenge in their competitive professional life and also, take on leadership roles in later years in their career. The Department is continuously striving for greater heights in teaching and research that is relevant to the industry and shall help in nation-building.

Various national and multinational companies, reputed public sector undertaking, etc. regularly visit our Institute for campus recruitment. The Institute maintains cordial relationships with the recruiters and all possible hospitality is extended to them by our Training and Placement Cell (TPC). I heartily welcome both the recruiters and our graduating students to come to a common platform and get the best out of each other. I am quite sure that students of our Department will prove themselves competent enough to meet the challenges of the modern technological world and society. I wish them all the best for their future.

FACULTY

Structural

1. Dr Vaibhav Singhal
2. Dr Avik Samanta
3. Dr Koushik Roy
4. Dr Sourav Gur

Transportation

1. Dr Syed K.K. Hussaini
2. Dr Sudhir Varma
3. Dr Bachu Anilkumar

Geotechnical

1. Dr Pradipta Chakrabortty
2. Dr Amarnath Hegde
3. Dr Ramakrishna Bag
4. Dr Arvind Kumar Jha

Environmental

1. Dr Subrata Hait
2. Dr Trishikhi Ray Choudhury

Water Resources

1. Dr Om Prakash
2. Dr Vishal Deshpande

COURSES OFFERED

CORE COURSES

- Geomatics Engineering
- Fluid Mechanics
- Structural Engineering
- Structural Analysis and Mechanics
- Infrastructure Drawing and Estimation
- Civil Engineering Materials
- Foundation Engineering
- Numerical Methods in Civil Engineering
- Water Resources Engineering
- Transportation Engineering
- Design of Reinforced Concrete Structures
- Design of Steel Structures
- Construction Planning and Management



- Structural Engineering and Concrete Technology Lab
- Geotechnical Engineering Lab
- Surveying Lab
- Soil Dynamics Lab
- Environmental Engineering Lab
- Water Resource Engineering Lab
- Transportation Engineering Lab
- Railway Engineering Lab
- Computer-Aided-Design Lab



LABS

ELECTIVES

- Programming: Data Science, Python, and Algorithm
- Microeconomics, Macroeconomics and Finance
- Industrial and Organizational Psychology
- Sociology and Globalization
- Optics and Vacuum



- Staad Pro and STAad Foundation
- ABAQUS
- AutoCAD
- MATLAB
- SAP2000
- GeoStudio
- LISCAD
- PLAXIS 3D
- FLAC 3D

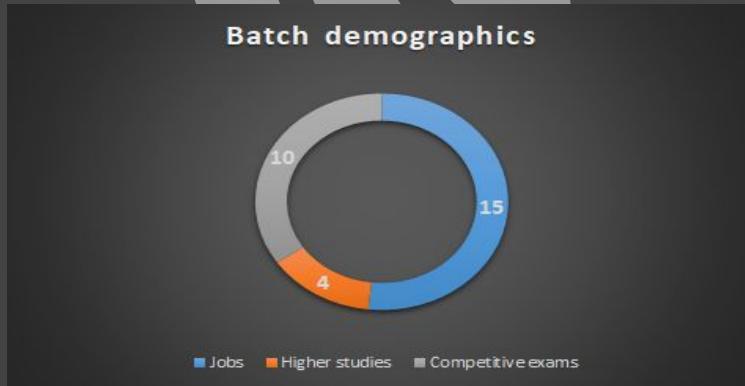
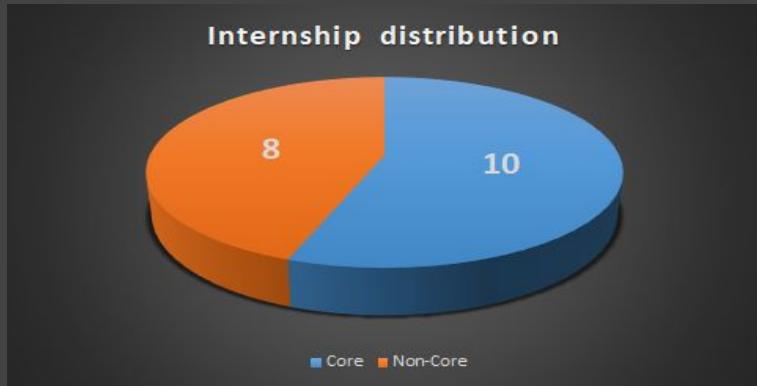
SOFTWARE RESOURCES



EQUIPMENTS



STATISTICS OF B.TECH 2022



ACHIEVEMENTS



CORE

1. Gopikrishnan Nair.S, UG Batch 2021, got admission for Masters into Georgia Institute of Technology.
2. Five UG students of Batch 2022 participated in Inter IIT Civil Conclave organized by IIT Roorkee in November 2020 and secured 1st position in 2 events.
3. Shashank Kumar, UG Batch 2022, secured AIR 249 in GATE 2021.
4. Six UG students of Batch 2022 qualified GATE 2021 in their third year.



NON - CORE

1. Pritam Kumar Singh, UG Batch 2022, is a Certified Hyperledger Fabric Administrator.
2. Maurya Bhatt, UG Batch 2022, is one of the founders of the startup - 'Boox Wox'. It is started to create a strong local network for book communities where people can have access to all the books, libraries, digital resources, etc.
3. Preetam Abhinay Kamaji, UG Batch 2022, has founded his startup, 'Preetam Services'. It currently provides freight vehicle services in few districts of Maharashtra.

1. Sushma Peddamile, UG Batch 2022 worked on a research paper on the topic 'Travel time variability analysis of public transit buses using GPS data' under the guidance of Dr. Bachu Anilkumar. It was presented at the TPMDC 2020 Conference.
2. Ananya Singh, Vijaya Gonugade, and Rajveer Tholiya worked on a research paper on 'Impact of social lockdown due to COVID-19 on environmental and health risk indices in India' which got published in the journal, Environmental Research, Elsevier.
3. Ajay and Ch. Nagamanikanta Sai, UG Batch 2021 worked on 'Surface water groundwater interactions in estimating groundwater recharge using genetic programming' under the guidance of Dr Om Prakash. It was selected and presented at the 25th Hydro2020 International Conference.

NON - CORE



RESEARCH WORK



CORE

1. Kamal Kaushik Varanasi, UG Batch 2022, worked on research paper on the topic 'Additional Context Helps! Leveraging Cited Paper Information to Improve Citation Classification'. It was presented at the ISSI 2021 Conference.
2. He also worked on a paper, 'IITP@3C @ SDP @ NAACL 2021: Citation Classification (Task A) and Significance Detection (Task B)'. This paper was accepted in SDP workshop under NAACL conference.

OUR ESTEEMED ALUMNI

1. Abhishek Mishra, UG Batch 2018, secured AIR 2 in GATE 2021.
2. Pranav Suresh, Associate at Exponent, California
3. Rahul Jain, M.S., Purdue University.
4. Amolika Sinha, PhD, UNSW, Australia.
5. Abhinav Gyan, IIM Bangalore

SPONSORED RESEARCH PROJECTS

1. Robust and reliability-based design optimization and performance assessment of superelastic shape memory alloy (SMA) damper for seismic vibration control of structures
2. Performance-based bituminous mix and road design
3. Experimental and Numerical Investigation of Interlocking Details for Stone Masonry under Quasi-Static Cyclic Loading
4. In-situ remediation of arsenic by ferrous sulfide under heterogeneous porous media Up-scaling effect and evaluation of long-term fate.
5. Experimental evaluation of THM processes in smectite clay and their key barrier functions

Association of Civil Engineers (ACE)



The Association of Civil Engineers is a student club established by DCEE to proliferate knowledge & provide industrial exposure by bringing corporates, professors, and students on a common platform. The various activities organized by ACE include technical seminars, research practices, site visits, Open-House Sessions, competitions, and quizzes. The students are also encouraged to participate in various fests to enhance their technical skills. ACE conducts regular discussions and brainstorming sessions for the DCEE students to bring awareness about civil and environmental-related works and new ideas related to this field.



Samnivesha

Samnivesha is the two day civil technical fest of DCEE, IIT P, organised by ACE. Starting in 2019 our vision was to reach out to interested students and provide a glimpse of beauty Civil engineering has to offer. With its maiden edition fetching 300+ participations, second edition with 500+ participations, and the third one being the latest and online edition witnessed 600+ registrations. Events organised in Samnivesha so far were spectacular and saw a great enthusiasm among the participants along with their engagements in workshops and guest lectures. Some of the highlighting events were CiviQ, Crack the Clue, Engineers conclave, and CADdesign. The extravaganza truly justifies the word " Fest ", and is definitely worth experiencing.

Message from ACE Faculty In-Charge

I am pleased to invite you for Placements 2021-22 of the B. Tech (Civil and Environmental Engineering) batch of 2018-22 and M.Tech. (Civil Engineering) the batch of 2020-22 at the Department of Civil and Environmental Engineering (DCEE), IIT Patna. Our department was established in 2013.

The DCEE offers courses and activities that encompass Planning, Design, Construction, and Management of engineering projects. The academic programs, B. Tech., M.Tech., and Ph.D., of the Civil and Environmental Engineering Department at IIT Patna, are some of the best in the country. Along with this, DCEE provides and ensures an academic and research environment, which is highly conducive to preparing civil engineering professionals who can handle the challenges associated with the multidisciplinary nature of genuinely committed to their specialization. On the academic front, our students have skills and traits that are methodically cultivated during their stay at the department.

In addition to academics, DCEE encourages a variety of co-curricular activities that are managed by students themselves with the due support of faculty members. They are motivated to take part in several competitions and activities. Through a diverse and integrated approach, our graduates and postgraduates have been since the inception of the Department, selected by leading national and multinational corporations and research /academic institutes. They have made us proud !!

I am delighted to present the current batch of DCEE B.Tech. and M.Tech. students. They are highly intellectual and academically robust. I am confident that students selected from this department will perform as per the employers' expectations and satisfaction.



Dr. Bachu Anilkumar

PAST RECRUITERS



Resonance
Where you will be in resonance with IIT-JEE
(A Unit of Resonance Eduventures Pvt. Ltd.)



PLACEMENT / INTERNSHIP PROCEDURE

1. Companies are contacted by the placement office or placement cell (authorised student representatives) and invitations are extended, providing relevant informations and the placement brochure.
2. Companies are given an exclusive login ID in the website after they submit the filled-in job announcement forms (JAF) via e-mail or fax. The JAFs are made available online, which helps the willing students to register for the same.
3. The placement cell and the company confer and finalize the date for pre-placement talks if necessary. During the pre-placement talk, the company taem can interact with the students and impart to them an idea of the company requires.
4. Each student who has registered for a particular company submits a resume so that the company can shortlist the students accordingly.
5. A detailed schedule is prepared by the placement cell evaluating the job offer, prospects, student intake and the like. The schedule is confirmed with all the companies.
6. The companies/organisations visit the campus, meet the registered (or shortlisted as the case maybe) students, and conduct the interviews, tests or group discussion sessions in accordance with their respective recruitment process. The date of the interview and other sessions should be in compliance with the mutually confirmed schedule discussed earlier.
7. The companies are required to prepare and submit, with the written confirmation letter the list of students who are selected after the interview process, on the day of the interview itself.
8. The job offer letters are to reach the placement cell, in due course of time. In case a student gets a job offer, he or she is not entitled to appear for further tests/interviews by any other company.

Contact Us

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