FACULTY GROUP

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Dr. Avik Samanta

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Dr. Om Prakash

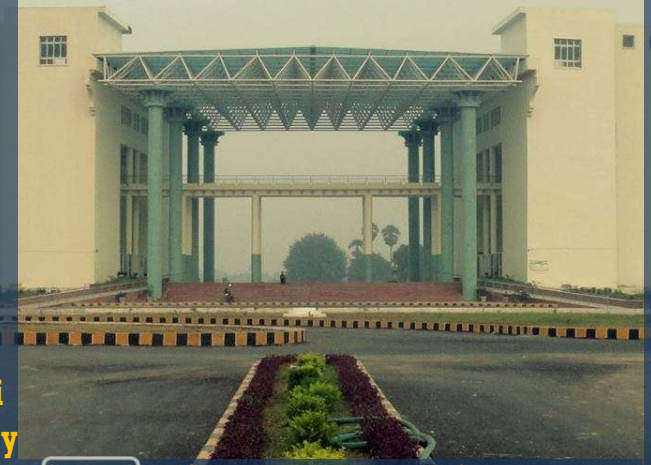
Dr. Amarnath Hegde

Dr. Trishikhi Raychoudhury

Dr. Ramakrishna Bag

Dr. Vishal Deshpande

PLACEMENT BROCHURE



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INDIAN INSTITUTE OF TECHNOLOGY, PATNA

M.TECH 2018-2019

CIVIL AND ENVIRONMENTAL ENGINEERING

ABOUT US

Keeping in mind the infrastructure requirements for improved quality of life in a growing society as well as for industry and economic development, the need of the hour is to focus on Civil and Infrastructure Engineering with interdisciplinary approach. In order to satisfy the current societal needs and growing industry demands, the M.Tech in Civil and Infrastructure Engineering program started in 2014 under the aegis of Department of Civil and Environmental Engineering at Indian Institute of Technology Patna intends to be the forefront of imparting engineering education by amalgamating traditional Civil Engineering with modern Infrastructure Engineering.

The program is designed to provide in-depth knowledge in the fundamentals, design, analysis and implementation of solutions for modern-days Civil Infrastructure problems. Moreover, the program intends to emphasize application-oriented and thesis/project-based learning.

COURSES OFFERED

Core Courses

1. Advanced Engineering Mathematics
2. Civil Engineering Design I &II
3. Finite Element Methods
4. Technical Communication
5. Civil Engineering Lab I&II

Electives

1. Structural Dynamics
2. Soil Exploration
3. Ground Improvement Techniques
4. Air Pollution and Control
5. Railway Engineering
6. Site Remediation
7. Groundwater Hydrology

PROJECT LIST

1. Vulnerability and fragility analysis of unreinforced masonry structures
2. Damage identification and localizations using mode shape
3. Probabilistic & seismic stability analysis of tailing dam
4. Groundwater Arsenic contamination remediation

SPONSERED PROJECTS

1. Microzonation of Jaipur City Based on Shear Wave Velocity.
2. Occurrence, fate and Removal of Emerging Contaminants in Surface Water.
3. Development of Gravity-based Household Filter for Simultaneous Removal of Arsenic and Iron Contamination of Groundwater in Patna District, Bihar, India.
4. Seismic response, damage and vulnerability of structures in Patna for future earthquakes.
5. Arsenic immobilization by in-situ synthesis of iron-based adsorbent under reducing environment within porous media.
6. Evaluate the fate and transport and implication of engineered nanoparticle retention in porous media
7. Performance evaluation of laboratory synthesized AC-LDH composite for fluoride removal and assessing the possibility of using the filtering waste as building material

RESEARCH LABS

Railway Engineering Lab

Structural Engineering Lab

Geotechnical Engineering Lab

Environmental Engineering Lab

Soil Dynamics Lab

CAD Lab

Civil Engineering Workshop

Transportation Engineering Lab