



# DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering was established with the principal long-range goal of becoming a leading center of excellence in the field of Civil Engineering. The department focuses on various specialized areas including Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, and Water Resources Engineering. It provides comprehensive training to students from all over India as well as from international destinations. The department boasts a state-of-the-art Structural Engineering laboratory, which is one of the most advanced and well-equipped facilities in the country, offering a wide range of testing and research opportunities for students and professionals alike.



Department of  
Civil Engineering  
was established

## DOMAINS OF STUDY

- Structural Engineering
- Geotechnical Engineering
- Environmental Engineering
- Transportation Engineering
- Water Resources Engineering
- Computational Mechanics and Methods
- Surveying and Geomatics
- Hydraulic and Fluid Mechanics
- Construction Management
- Tunneling and Underground Structures
- Reliability and Risk Assessment
- Earthquake and Disaster Engineering
- Applied Engineering Statistics
- Blast Protection of Structures
- Contaminant Transport Modelling

## LABORATORIES - UG, PG

- Computational and Model Development
- Advanced Testing Laboratory
- Water Resources Engineering
- Structural Detailing Laboratory
- Surveying Laboratory
- Material Testing.
- Transportation Engineering Laboratory

Courses	Strength
B.Tech	169
M.Tech	48
Ph.D	85

## PLACEMENTS & INTERNSHIPS

**36+** LPA  
Max. CTC

**9+** LPA  
Median CTC

**40k/ mo**  
Median Stipend during  
Internship

## Core Companies



**TATA PROJECTS**  
Simplify.Create



**RELIANCE**  
Infrastructure



**HCC**  
Hindustan Construction Company



**JAYPEE**  
GROUP



**JINDAL**  
JINDAL INFRASTRUCTURES PVT. LTD.

# Meet our Head of Department



**DR. SARAT KUMAR DAS**  
(Professor)

17-08-2018 - Present

**Master of Technology - IIT Kanpur**  
**Doctor of Philosophy - IIT Kanpur**

Primary Areas of Research

Geotechnical Engineering, Geo-environmental Engineering, AI And Optimization Methods In Geotechnical Engineering



**Citations 3567**  
**H-index 34**

Foreign University Experience

- post-doctoral under Endeavour Fellowship, Government of Australia

Achievements

- Published more than 80 journal papers, 3 edited books and conference proceedings, 10 book chapters, and more than 25 full conference papers.
- Is Editorial Board member of Environmental Geotechnics, ICE, London, International Journal of Geotechnical Engineering, and Indian Geotechnical journal
- Guest Editor for Sustainability and Reviewer of more than 70 Journals.
- Patent granted in 2020 for 'A corrosion resistant cementitious material from industrial waste'

## Ongoing & Completed Departmental Research

- Title of the Project: Corrosion potential of Industrial waste as a geomaterial using Inverse dielectric spectroscopy; Funding Agency: SERB, DST, Govt of India, Financial Support for the project: Rs. 32.71 Lakhs, Status: Ongoing
- Title of the Project: Feasibility Study of M-Sand from Coal OB; Funding Agency: Tata Steel, India, Financial Support for the project: Rs. 20.53 Lakhs, Status: Ongoing
- Title of the Project: Geotech & Geoenv. Issues of Coal Mine Overburden; Funding Agency: SPARC, MHRD, Financial Support for the project: Rs. 43.92 Lakhs, Status: Completed
- Title of the Project: Characterization and Utilization of red mud as a Structural fill and Embankment Material; Funding Agency: SERB, DST, Govt of India, Financial Support for the project: Rs. 36.7 Lakhs, Status: Completed
- Title of the Project: Delineation of the Administrative Boundary of the Banki River, Garhwa District, Jharkhand: An Implication on Restoration and Conservation of the Ganga River Basin ; Funding Agency: IIT (ISM) Dhanbad, Sanctioned amount: Rs. 21,00,000/-, Role: PI, Status: Ongoing
- Title of the Project: Scientific study on stability of proposed diversion of Bokkalavagu nallah over goaved out Longwall Panels of GDK-10 Incline on the surface and assessment of Impact of blasting in RG OCP-I on embankment of proposed diversion nallah and assessment of water danger to Adriyala Longwall Project, RG OCP-I Expansion; Funding Agency: The Singareni Collieries Company Limited, Sanctioned amount: Rs. 9,73,500/-, Role: Co-PI , Status: Ongoing
- Title of the Project: CONSTRUCTING STRUCTURES ON BACKFILLED OPEN CAST COAL MINES: AN ATTEMPT TO SUGGEST VIABLE METHODOLOGIES; Funding Agency: Ministry of Coal , Duration of the project: Five Years, Financial Support for the project: Rs. 3 Crores (Approximately), Multidisciplinary: No, Co-Investigator: Prof. Sarat Panda, Prof. Sanket Nayak, and Prof. Lohit Nainegali
- Title of the Project: INELASTIC SEISMIC TORSIONAL BEHAVIOUR OF R/C MULTISTORIED BUILDINGS WITH ASYMMETRY, Funding Agency: Council of Scientific and Industrial Research , Sanction Order No.: 22(0347) /02/EMR-II, Duration of the project: Three years (w.e.f August 2002 to February 2007), Financial Support for the project: Rs. 5,58,000/- (Approximately)

# Active Student Run Societies



## ASCE - American Society of Civil Engineers

- **Aim** : to advance the science and profession of Civil engineering and enhance student welfare
- **objective** : to impart additional practical knowledge to the Civil Engineering students, provide more and enhanced technical knowledge, develop leadership skills, teamwork, and all such qualities which will play a major role in their career

ASCE has been keen and active in organizing various workshops , competitions and guest lectures by professors and industrial experts having renowned backgrounds for the students of IIT(ISM) Dhanbad.

## Competitions Conducted -

- **Architectura** - Creating an architectural drawing of a building using AutoCAD
- **Industrial Genix** - case study and presentation in front of a panel of Industry
- **Trust the Truss** - Testing the strength of the 3D printed designs

## Alumni Network

- NITISH DHANRAJ - Deputy Manager, National Highways Authority of India
- MAYANK KUMAR GUPTA -Officer @ Indian Oil
- AMAN KUMAR TRIGUN - Indian Engineering Services
- PHILIP ROY - MS (Mechanics and Materials) @ Carnegie Mellon University
- Dr. Ram Gopal Agarwal - VP, PetroTel; Ex-Sr. Tech. Advisor, BP; AIME Hon. Member; SPE Distinguished Member

## GATE Results

### GATE 2024

- Rishabh Dev Kunwar- AIR 76
- Saurabh Ranjan- AIR 387
- Yashraj Garg- AIR 625
- Vibhav Chandra Srivastava- AIR 660

### GATE 2023

- Gaurav Singh- AIR 12
- Animesh Tiwary- AIR 38

## Foreign University and industrial Collaborations

