

# Department of CIVIL ENGINEERING

Structure your future & nation



NAAC (UGC) accredited  
With Grade 'A'



Accredited by National  
Board of Accreditation  
(For CSE & ECE)

# ABOUT NIST

**NIST** is an autonomous institute, established in 1996 as the first NRI higher educational venture in the state of Odisha with an objective to be a Center for academic and research excellence at par with international universities. It is promoted by SM Charitable Educational Trust established in 1995 by Dr. Sukant K. Mohapatra and Mrs. Sanjeeta Mohapatra as founder / donor trustees. Located at foothills of Pallur Hills in Berhampur, spanning over sixty acres of lush green campus, NIST is a premiere research institute in the country offering undergraduate, graduate, and Ph.D. program in Engineering, Science, and Management.



## OUR VISION

Focused on high quality teaching, creative innovation, entrepreneurship, and universal partnership

## OUR MISSION

A research institute committed to academic excellence, fundamental research and innovation, nurturing global citizens, and collaborative engagement.

## Department of Civil Engineering

The Department of Civil Engineering was established in the year 2013 with a capacity of 60 seats with a view to contribute its modest share of Civil Engineering graduates for national needs. The Department is actively involved in basic and applied research in the field of Structural Engineering, Geotechnical Engineering, Water Resources Engineering, Transportation Engineering, and Environmental Engineering along with high quality technical advisory support to various organizations through R&D projects and consultancy. Research is given equal importance in addition to academics, in the Department of Civil Engineering, NIST. The faculty members of the department carry out both core and interdisciplinary research with other departments of the institute. Broadly, there are two research groups in the department (Appraisal Research Group, Geo Technical Research Group). The department of civil engineering gives equal importance to Placement, Higher Education and Research. In association with career development group, about 50% students are placed every year in different well reputed organization. Every year our students are joining in reputed organization like NITs and IITs.

### Why join Civil Engineering @NIST

- The opportunity of Civil Engineering lies in developing, designing, planning, estimating, monitoring construction as well as executing and managing the construction of buildings, roads and physical structures like bridges, dams, Sky Scrapers etc. and their maintenance.
- MoU with National Highway Authority of India (NHAI) which facilitating faculty researcher and students of the institute to familiarize with latest trends in the highway and transport sector with a common object of sharing knowledge in their respective domain. This gives scope as a field study for faculty, researchers and students and offers internship to the students.
- The Department of Civil Engineering registered as Soil Testing Laboratory with Engineer-in-chief (Works Department), Government of Odisha.
- Ample opportunities in Central Government Jobs (IES, SSC, RRB etc.), Public Sector Jobs, State Government Jobs (OPSC). Job Placement, Higher Education, and Entrepreneurship with average 80% student placed in last 2 years.
- Conducts Field visits, Study tours, Workshops, Webinars, Industrial Expert Talks to gain practical knowledge.

## Highlights

- Faculties are actively working with research scholar from the best institutes in the country and abroad.
- State of the art infrastructure and facilities including Center of Research Excellence Labs: Geotechnical Engineering Lab, Structural Engineering Lab, Transportation Engineering Lab.
- Active industry internship, partnership and collaboration with NHAI – enabling student to the exposure of real-world solution, products and working environment.
- Paid research and student assistance for eligible students beyond scholarship
- Opportunities for students to pursue their own interest though over 12 clubs (Music, Social Service, Photography ...) and state of art sports facilities beyond academics.
- Conducting classes for GATE and other competitive examinations.
- In-person interaction with industry and thought leaders around the globe during various talks, conferences, seminars and events.
- Student counselling and mentoring from day one in campus till graduation.

### DR. PRIYADARSHI TRIPATHY, PRINCIPAL



Ph.D in Electrical Engineering from Concordia University, Montreal, Canada and M. Math. in Computer Science from University of Waterloo, Waterloo, Canada. Dr. Tripathy has a strong Academic career with 17 years of software industry experience in Canada and USA at Nortel Networks, Cisco Systems, Airvana Inc. and NEC Labsat Princeton. Before

joining NIST, he worked as a Dean, School of Information & Computer Sciences (SICS), Ravenshaw University. He has co-authored two textbooks on Software Evolution and Software Testing and Quality Assurance which are being adopted as course text. His research interest is in the area of software engineering and computer networks.

### DR. BARADA PRASAD SETHY, HOD



Assistant Professor in the Department of Civil Engineering. He has received his Ph.D from National Institute of Technology (NIT), Rourkela. He is the affiliate member of American Society of Civil Engineers (ASCE). His research interest is Geotechnical Engineering ( Foundation Engineering, Ground Improvement Techniques, Numerical and Statistical Analysis). He has good number of research papers in reputed journals.



## MAJOR LABS

Research & Development, Material Testing, Advanced Surveying, Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation, Engineering, Fluid Mechanic and Hydraulic Machine, Basic Civil Engineering, CAD, Engineering Drawing ,Design.

## Major Equipments

- CBR Apparatus (Research & Development Lab)
- Marshall Apparatus (Research & Development Lab)
- Compression Testing Machine (Material Testing Lab)
- Compaction Factor Test (Material Testing Lab)
- Total Station (Advanced Surveying Lab)
- Dumpy level (Advanced Surveying Lab)
- Auto Level (Advanced Surveying Lab)
- Digital Theodolite (Advanced Surveying Lab)
- Ductility Testing Machine (Transportation Engineering Lab)
- Standard & Modified Proctor (Geotechnical Engineering Lab)
- Unconfined Compressive Strength (UCS) Apparatus (Geotechnical Engineering Lab)
- Los Angeles Abrasion Machine (Transportation Engineering Lab)
- Flexural Strength Test (Structural Engineering Lab)

## Research & Development Groups

Research is given equal importance in addition to academics, in the Department of Civil Engineering, NIST. The faculty members of the department carry out both core and interdisciplinary research with other departments of the institute. Broadly, there are two research groups in the department, which are detailed below.

### Appraisal Research Group

### Geo Technical Research Group

## Industry-Academia Partnership

- Industry-Academia Partnership by NHAI & NIST (Autonomous) for **Training and Research** at NIST, Berhampur on 13th July 2020.
- Approved for **Testing Laboratory** of Works Department, Govt. of Odisha.

## CIVENG'S CLUB

Burj Khalifa Model, Jenga, Human Ludoo, Mritika, Smart Village, Stick Bridge, MEGHALITH, IIT Kharagpur-March 2020 (won 18 events)



## STUDENT ACHIVEMENTS



**Arjuna Bisoyi**  
OPSC 2020 (AEE)



**Vivek Kumar**  
RRB JE 2020 (JE)



**Piyush Pritam**  
MS at University of Bologna, Italy, 2020



**Chinku Raj Pradhan**  
OPSC 2020 (AEE)



**Shubham Kumar Roy**  
RRB JE 2020 (JE)



**Debasis Swain**  
GATE Qualified

## STUDENT PLACEMENT



**Archita Panda**  
Capgemini, 4 LPA



**Shrishti Sourabh**  
Wipro, 3.5 LPA



**Ayush Jena**  
Zenus Group, 3 LPA



**Suprava Gouda**  
Zenus Group, 3 LPA



**Jyotshna Rani Routa**  
Zenus Group, 3 LPA

## EMPLOYMENT ORIENTED SUMMER TRAININGS (200 HOURS)

Summer Training plays an important role to accentuate on moulding the students to the requirements of the industry by making them conversant with the different software / hard ware tools used in industry and Research & Development sectors. At present, the following courses are being offered.

▶ AutoCAD

▶ STAAD.Pro

▶ Arc-GIS

▶ E-tab

▶ Revit Architecture

## OUR ESTEEMED RECRUITERS

