

CIVIL ENGINEERING DEPARTMENT

About:

Civil engineering is the discipline of global creator to meet the fundamental needs of human beings. Civil engineering provides comforts public life. It traditionally covers streams such as geotechnical engineering, surveying, construction technology, structural engineering, environmental engineering, transportation engineering, material engineering, urban planning, water resources engineering, architectural drawing, quantity analysis, earthquake engineering etc.

The Department of Civil Engineering was established in 2016 in full-fledged with an intake capacity of 60 students per annum. The course study involves in expansion of latest technology such as Computer Aided Drawing (AutoCAD), structure detailing, Surveying by Auto Level and Total Station etc., along with a rich Civil Engineering Lab. facilities, which impart high quality education and training to the students. The Civil engineering department has young, energetic and industrial experienced faculty members to bridge the gap between the academics and latest technology.

➤ Vision:

1. To become a centre of excellence in infrastructure development and Skill Development.
2. To occupy a place in eminent institute of the country and guide the student to become a responsible citizen and a competent professional.

➤ Mission:

1. To impart high quality technical education and skill for the upliftment for present era job demand.
2. To provide basic knowledge and strong foundation of civil engineering.
3. To aim for higher education setup with continuous improvement.
4. To become regional focal point in the human development in civil engineering.

➤ Objectives:

The main objective of civil engineering department is to disseminate the knowledge to the student to cater the demand of builders/contractors and construction industry people in and around the globe. This field of engineering enables the students to learn planning, analysis, design, construction method and maintenance of buildings, roads, dams, bridges, etc. They are also taught on utilization of natural resources such as water, minerals along with environmental education, transportation and urban engineering.

➤ LABORATORY FACILITIES:

The department is well equipped with state-of-the-art laboratories and modern infra-structure facilities, to help efficient learning of engineering principles and hand-on practical training. Different laboratories are involved in experiments and projects. The laboratory staffs are highly skilled and experienced and keep up-to-date with latest technologies and equipments.

1. Surveying Laboratory:

- ✓ Chain and Compass Surveying equipments
- ✓ Plain Table Surveying equipments
- ✓ Leveling instruments (Dumpy, Auto Level)
- ✓ Optical and Electronic theodolite
- ✓ Planimeter
- ✓ Total Station
- ✓ EDM



2. Concrete Laboratory:

- ✓ Slump cone apparatus
- ✓ Compaction factor apparatus
- ✓ Vee -Bee consistometer
- ✓ Sieving equipments
- ✓ Compression testing machine

- ✓ Vicat's apparatus
- ✓ Concrete Mixture Machine
- ✓ Le-Chateliers Apparatus
- ✓ Hot air Oven
- ✓ Weighing Machine (60 Kg)
- ✓ Vibrator
- ✓ Air Permeability Test Apparatus



3. Geo-technical Laboratory:

- ✓ C.B.R testing equipment
- ✓ Liquid limit device with all accessories
- ✓ Core cutter and Sand replacement apparatus
- ✓ Constant head and variable head permeability test apparatus
- ✓ Direct shear machine with complete accessories
- ✓ Proctor test apparatus
- ✓ Sieving apparatus
- ✓ Liquid Limit apparatus
- ✓ Plastic Limit apparatus
- ✓ Vane Shear Apparatus
- ✓ Extruder

- ✓ Unconfined Compressive Strength Test Apparatus
- ✓ Permeability Test Apparatus
- ✓ Hot Air Oven



4. Highway Engineering Laboratory:

- ✓ Impact Value testing apparatus.
- ✓ Elongation and Flakiness test equipments
- ✓ Los Angeles abrasion value testing apparatus
- ✓ Water absorption testing



5. Environmental Laboratory:

- ✓ Wall Thermometer
- ✓ Burette With Stand
- ✓ Pipette
- ✓ Conical Flask
- ✓ Oven Dry Machine
- ✓ Hot Plate
- ✓ Volumetric Flask
- ✓ White Porcelain Dish
- ✓ Hexamethylene Tetramine
- ✓ Ferric Chloride Anhydrous
- ✓ Conc. Sulphuric Acid
- ✓ Ferrous Sulphate
- ✓ Acetic Acid
- ✓ Magnese Sulphate

6. Fluid Mechanics Laboratory:

- ✓ Bernoulli's theorem apparatus
- ✓ Venturimeter/Orifice meter apparatus with all accessories.
- ✓ Pipe friction apparatus with all accessories.
- ✓ Orifice/Mouthpiece apparatus with all accessories.
- ✓ Reciprocating pump test rig with accessories.
- ✓ Centrifugal pump test rig.
- ✓ Pelton Wheel with test rig.

7. Computer Aided Design (CAD) Laboratory:

- ✓ AUTO CAD-2016.

8. Strength of Material Laboratory:

- ✓ Universal testing machine (UTM)
- ✓ Torsion testing machine
- ✓ Brinell Hardness testing machine
- ✓ Impact testing by Izod and charpy method.

9. Engineering Mechanics Laboratory:

- ✓ Screw Jaw
- ✓ ck apparatus
- ✓ Worm and Worm Wheel apparatus
- ✓ Model of sump

- ✓ supported beam
- ✓ Model to verify the Lami's theorem
- ✓ Model to verify Law of polygon forces
- ✓ Jib and Jib crane apparatus

FACULTY DETAILS

1. Name: Mr. Sanatan Kumar



Lecturer in Civil Engineering Department
M. Tech. (CIT, Tatisilwai, Ranchi)

Specialization: **“Structural Engineering”**

Experience: a) 1.6 year as Lecturer (CIP, Baheya) till now

2. Name: Mr. Hemant Kr. Priyadarshi



Lecturer in Civil Engineering Department
M.tech (CIT, Tatisilwai, Ranchi)

Specialization: **“Structural Engineering”**

Experience: a) 3 year as a site Engineer (Rebloon Impex, Ranchi)
b) 1.6 year as Lecturer (CIP, Baheya) till now.

3. Name: Mr. Vivek Kumar



Lecturer in Civil Engineering Department
B-tech. (DRIEMS,CUTTACK)

Experience: a) 2 YEARS EXPERIENCE IN TEACHING

4. Name: Mr. Arun Kumar



Lecturer in Civil Engineering Department
B.Tech (CIT, Tatisilwai, Ranchi)

Experience: a.

5. Name: Mr. Ashish Ranjan



Lecturer in Civil Engineering Department
M.tech (IIT ISM DHANBAD)

Specialized in “**Environmental Science & Engineering**”

Lab technician details

1. Name- Atikur Rahman



Lab-tech in civil engineering department
Diploma in civil engineering

2. Name- Md. Abbas Ansari



Lab-tech in civil engineering department
Diploma in civil engineering

3. Name- Kanahiya kumar



Lab-tech in civil engineering department
B-tech in civil engineering