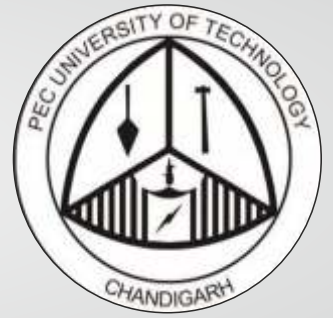




EXPLORE INNOVATION EXCEL



# CIVIL ENGINEERING

## PEC UNIVERSITY OF TECHNOLOGY

### PLACEMENT BROCHURE'16

The college took a plunge into the immensely refreshing and challenging field of Civil Engineering with the setting up of the Civil Engineering Department, right from the genesis of the college. The Department of Civil Engineering is excellently suited to meet the ever changing requirements of engineers with courses that combine the study of management, business skills and computers with engineering. The department ensures not only that the courses are updated, but also that they reflect the current needs of commerce, industry and the society as a whole.

#### PROGRAMS OFFERED

**B.Tech.**

**M.Tech.**

**PhD**



# COURSES OFFERED

## Engineering Science Courses

- Engineering Graphics
- Introduction to Manufacturing
- Basics of Electrical Science

## Basic Science Courses

- Mechanics
- Probability and Statistics
- Physical Chemistry

## Departmental Core Courses

- Building Construction and Estimation
- Fluid Mechanics
- Solid Mechanics
- Engineering Analysis and Design

## Structural Engineering

- Structural Analysis
- Concrete Technology and RCC Design
- Steel structures

## TRANSPORTATION ENGINEERING

Transport Planning and Management  
Mass Transportation System  
Traffic Engg

## HYDROLOGY AND DAMS

Flood Control and River Engg  
Irrigation and Hydraulic Structures  
Ground Water Hydraulics

## INDUSTRIAL WASTE MANAGEMENT

Water and Wastewater Engineering  
Solid Waste Management  
Environmental Pollution and Management

# RESEARCH AREAS

## Water Resources Engineering

- Computational fluid mechanics
- Computational hydraulics
- Multiphase flows
- Open-channel hydraulics
- Rainfall-runoff modelling

## Structural Engineering

- Seismic & Wind Performance
- Fatigue & Fracture
- fibre-reinforced
- prestressed concrete

## Environmental Engineering

- Water Quality and Wastewater treatment
- Climate Change
- Environmental Impact Assessment

## Transportation Engineering

- Traffic Design



## INDUSTRIAL COLLABORATIONS

CPWD Delhi  
IPH, HP  
PRSC, Ludhiana  
SASE, DRDO, Chandigarh  
Kalpna Chawla Chair on Geospatial Technologies,  
Indian Railways  
Engg Department UT Chandigarh  
PUDA, HUDA  
RWSS, Punjab

## INTERNSHIPS

### INDUSTRY & RESEARCH INTERNSHIPS

CPWD | Alstom | Amazon | IIT Delhi | L&T | Gammon  
| IIT Bombay | DAAD-WISE Scholarships | Mitacs-  
GlobalINK | Ilsc Bangalore | CBRI | CRRRI | Ramboll |  
BMSF Design Consultants Pvt. Ltd.

### FINANCE & ANALYTICS

JP Morgan | Uber

## LABORATORIES & EQUIPMENTS

### LABORATORIES

- Structural Model
- Structural Engineering
- Reinforced Cement Concrete
- Fluid Mechanics
- Hydraulic Machines
- Irrigation Engineering
- Surveying
- Soil Mechanics
- Transportation
- Highway Materials & Material Testing

### ENVIRONMENTAL ENGINEERING

- UV Spectro-photo meter
- BOD and COD Apparatus
- Microbial Incubator
- Centrifugal

### SURVEY INSTRUMENTS

- Automatic Level
- Dumpy Level
- Vernier Theodolite
- Military Theodolite
- Kern Theodolite

### FLUID MECHANICS

- Form losses in pipe
- Pilot Tube
- V Notch
- Friction Losses through Various Diameter Pipes
- Venturimeter

### IRRIGATION ENGINEERING

- Rainfall Simulator
- Demonstration Lysimeter
- Flumes and Gauging Weirs
- Demonstration Infiltration Apparatus

### TRANSPORTATION ENGINEERING

- Sieve Shaker
- Test Sieves G.I. Frame
- C.B.R Test Apparatus
- Abrasion Testing Machine

