

# PhD

in  
Civil  
Engineering



## DEPARTMENT OF CIVIL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

**PhD APPLICATIONS FOR MONSOON SEMESTER  
2022-23**

### MAJOR RESEARCH AREAS

#### STRUCTURAL ENGINEERING

- Seismicity Studies
- Fibre Reinforced and Geopolymer Concrete
- Retrofitting
- Fire Resistance
- Bio mechanics

#### GEOTECHNICAL ENGINEERING

- Soil Dynamics
- Ground Improvement
- Soil Behaviour
- Foundation Engineering
- Marine Geotechnique

#### ENVIRONMENTAL ENGINEERING

- Wastewater Treatment
- Environmental Modelling
- Pollution Control
- Air Pollution
- Environmental Forensics

#### OFFSHORE AND COASTAL ENGINEERING

- Modelling and Behaviour of Fixed, Compliant and Floating Structures
- Reliability Studies
- Coastal Processes and Hydrodynamics

#### WATER RESOURCES ENGINEERING

- Hydrological Modelling
- Environmental Hydraulics & Hydrology
- Climate Studies
- Water Resources Systems
- Remote Sensing and GIS Applications
- Coastal Hydraulics

#### TRANSPORTATION ENGINEERING

- Travel Demand Modelling and Forecasting
- Urban Transportation Planning
- Traffic Flow Modelling
- Capacity and LOS of Traffic Facilities
- Road Traffic Safety
- Transport Systems Design & Evaluation
- Pavement Materials Design and Management
- Sustainable Pavement Materials & Construction
- Rheology of Bituminous Binders
- Mechanistic-Empirical Pavement Design
- Pavement Evaluation and Management

#### BUILDING SCIENCES AND CONSTRUCTION MANAGEMENT

- Sustainable Construction Materials & Alternatives
- Advanced Concrete Technology
- Special Concrete - Geopolymer, Self curing, SCC, FRC, 3D Printing, etc.
- Durability of RC Structures,
- Structural Performance Assessment, NDT
- Structural Health Monitoring
- Functional Performance of Buildings & Services
- Construction Project Management and Allied Areas

### Available PhD Programmes

- Scheme I: Full-time candidates including direct Ph.D. after B.Tech. (with Institute Fellowship). Score from GATE/ JRF/ UGC/ NET/ CSIR/ KSCSTE etc. any point of time is required.
- Scheme II: Full-time candidates under self-sponsored category
- Scheme III: Full-time (Sponsored)/ External Registration for candidates from industry or other organizations including educational institutions

### CONTACT

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National Institute of Technology Calicut (NITC) is one of the premier National institutions in India imparting technical education since 1961. The Department of Civil Engineering, which was established at the inception stage itself provides opportunities for zealous students to pursue research. The Department has well qualified and dedicated faculty. It is proud of its eminent alumni excelling in both academia and industry.

### Why choose Dept. of CE at NITC

- Learn from the world-class faculty with international exposure
- Opportunity to work in laboratories with state-of-the-art facilities
- Support to attend the national and international conferences
- Placement opportunities
- Collaboration with international universities and student exchange programs
- Incubation for start-ups

To apply

Info Brochure



**APPLICATION DEADLINE**



**MAY 03, 2022  
(5:00 PM)**