



# Construction Technology & Management

ज्ञानम् परमम् ध्येयम्

# A bit on Origin...

Established in 1958, IIT Bombay is recognised worldwide as a leader in the field of engineering education and research. Reputed for the outstanding caliber of students graduating from its undergraduate and postgraduate programmes, the institute was one of the first institutes to be given the tag of **Institute of Eminence**.

Department of Civil Engineering has been a part of IIT Bombay from its inception. The department had an incredible journey so far and has positioned itself among the apex Civil Engineering Institutes worldwide.

Inception of  
IIT Bombay



1958



Journey of  
**Dept. of Civil Engineering**  
begins

(with) Structural Engineering &  
Water Resource Engineering

1959

Geotechnical Engineering

1980

Remote Sensing, Ocean Engineering

1988

Transportation Systems  
Engineering

2016

**Construction Technology  
and Management (CTaM)**



QS  
Rankings  
2020–

172

in World

1

in Civil Engg.  
in India

1

in India



## CTaM@IITs...

Aiming at bridging the gap between current needs of construction industry and academia through application oriented world class research, IIT Bombay started M.Tech programme in Construction Technology and Management.



VISION

The vision of the programme is to create sustainable infrastructure systems for the society through high quality teaching, research, outreach, manpower training and academic leadership in the area of Construction Technology and Management.



MISSION

The specialisation strives to equip students with in-depth knowledge of emerging technologies in construction and helps transforming them into management professionals as per industry requirements.

**Major Thrust areas** are  
Construction Materials &  
Technology, Construction  
Management and Urban &  
Building Sciences

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## Why Choose us?

This post-graduate programme builds quality manpower, who can effectively manage large construction projects throughout their lifecycle including planning, construction and maintenance; with in-depth understanding on the materials used in construction.

The students are exposed to latest advancements in construction materials, quality management paradigms, policies and sustainability aspects in construction.



3

State of the Art  
Labs



51

Post-Graduate  
Students

26

PhD

M.Tech

25



# What we are trained in...



## Management Courses

- Construction Planning & Control
- Construction Economics & Finance
- Construction Contracts
- Quality & Safety in Construction
- Construction Equipment & Personnel Management
- Construction Mgt. Studio



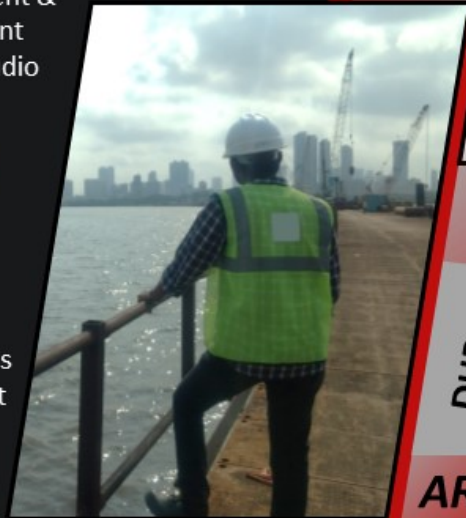
## Material Courses

- Advanced Concrete Technology
- Construction Materials
- Condition Assessment & Rehabilitation of Structures



## Additional Courses

- Economics of firm Strategy
- Sustainability Assessment of Urban Systems
- International Competitiveness
- Infrastructure Development & Finance
- Urban Planning in India: Theory, Challenges and Approaches
- Urban Environmental Infrastructure
- Optimization in Civil Engineering
- Computation in Civil Engineering
- Applied Statistics



**BIM**

**UHPC**

**NLP**

**LEAN**

**REHOLGY**

**ALKALI  
ACTIVATION**

**SUSTAINABILITY**

**DURABILITY  
OPTIMIZATION**

**AR**



## Certifications



**Lean 6σ  
Green Belt**



As a part of Team Shunya, M.Tech CTaM students represented India in Solar Decathlon 2017 held in China

## Industrial Visits

Cement plants, Processed Fly ash and slag plants, AAC block manufacturing plant

# ...& Accolades



## Soft Skills







We work in  
Collaboration with...

## INDUSTRY

L&TECC Afcons  
Godrej Constructions  
NHSRCL BEL SPCIL  
RBI  
BMC  
MMRC  
ACC  
Tata Realty PWD  
BASF Ultratech CPWD

## ACADEMIA



## Research Facilities



### Material Characterization Laboratory

A dedicated facility with sophisticated instruments for characterization of cementitious materials



### Construction Management Laboratory

High performance computing facility with advanced software required for construction management research



### Structural Evaluation & Materials Technologies Lab.

World-class equipment for understanding physical and chemical properties of construction materials



## Faculty Speaks....



**Prof. Prakash Nanthagopalan** | Associate Professor

"The USP of this programme is the development of excellent manpower to manage infrastructure projects through rational selection of materials, technologies, planning, construction and maintenance."

**Prof. Muhammad Salman** | Assistant Professor

"This programme provides a unique opportunity to amalgamate fresh and experienced engineers together to build up and strengthen fundamental concepts as well as develop know how of field applications which helps towards honing managerial skills."



**Prof. Albert Thomas** | Assistant Professor

"Courses that are designed with practical and field components, coupled with the interactions of experienced professionals in the class, equip our students to gain implementation know how of various facets of construction technology and management"

**Prof. Venkata Santosh Kumar Delhi** | Assistant Professor

"The students are trained with technical know how of the state of art cutting edge technologies in the areas of construction management and materials. Students understand the existing best practices and are geared up to imbibe latest innovations."





# Past Recruiters -



## Get in Touch –



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