MBU
MOHAN BABU
UNIVERSITY
DREAM. BELIEVE. ACHIEVE

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L&T
EduTech
ACADEMIC COLLABORATION
PARTNER

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B.Tech Civil Engineering with specialization in Structural Design System in collaboration with L&T

OVERVIEW

The structural design systems are undergoing transformation due to newer structural forms, materials and automation. Pre-engineered and precast construction calls for a different approach to design and construction.

Various challenges like complex-shaped high-rise buildings, deep pile foundations due to poor soil conditions and changes in climatic and seismic conditions have emerged in the construction industry, for which expertise from concept to commissioning is required. Due to the need for mass housing and faster construction, precast construction is in high demand.

The construction of steel buildings is in demand due to affordable pricing, energy savings, ease of constructability and erection. Increasing the efficiency of resource usage while reducing building's impact on human health and the environment is now more important due to which all industries are moving to a more sustainable design of buildings. Bridge engineering has undergone various transformations over the years.

Nowadays, bridges are constructed in different materials like RCC, steel, PSC or composites. Cable-stayed and balanced cantilever bridge constructions are adopted for the upcoming infrastructure projects. State of the art in launching of bridges during construction has brought innovation in this field.

Building planning and designing is a collaborative process that requires inputs from multiple stakeholders including engineers, architects, builders, clients, etc. Hence, an integrated approach to building services is an unavoidable part of building construction. The Advanced Building Information Modelling technique solves the problem of managing these multiple stakeholders at all levels of the construction process.

Technology-advanced construction methods require project planning and management as an integral part of the whole construction process. The construction industry currently faces major productivity, efficiency and cost management challenges.

Though the industry has been generating huge data, informed decision making using this data has become an imperative necessity of the hour. Construction analytics is the process of collecting, analysing and mining data to improve capital project outcomes, for risk mitigation and informed decision making at various stages of the construction process.

COURSES

S.NO.	COURSE	DISCIPLINE	COURSE CREDITS	SEMESTER
1	Construction Equipment and Techniques	Civil	3	II
2	Concreting Techniques & Practices	Civil	3	III
3	Building Information Modelling in Architecture,	Civil	3	IV
	Engineering and Construction			
4	Practical Design of Structural Steel Members	Civil	3	V
5	Design of Reinforced Concrete Buildings and Practices	Civil	3	VI
6	Structural Steel Buildings - Design and Practices	Civil	3	VI
7	Precast Members - Systems & Construction	Civil	3	VII
8	Design of Pre- Engineered Buildings	Civil	3	VII
	OPTIONAL COURSES			
1	Formwork Engineering Practices	Civil	3	V
2	Bridge Engineering Practices	Civil	3	VII
3	Design and Execution of Pile Foundations	Civil	3	VII
	OPTIONAL ELECTIVES			
1	Engineering Graphics and Design	Civil	3	I
2	Geospatial Techniques in Practice	Multi-disciplinary	3	VI
3	Project Management for Professionals	Multi-disciplinary	3	VII/VIII

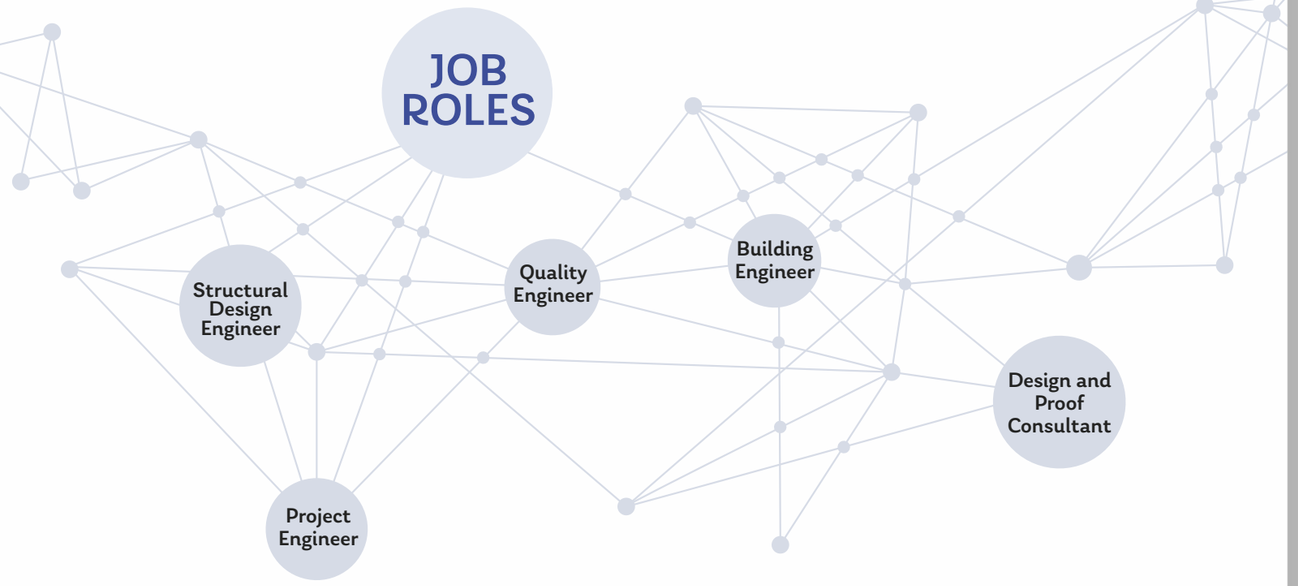
SOFTWARE TOOLS COVERED

- STAAD PRO
- SAFE
- ETABS
- AUTODESK REVIT
- MS PROJECT

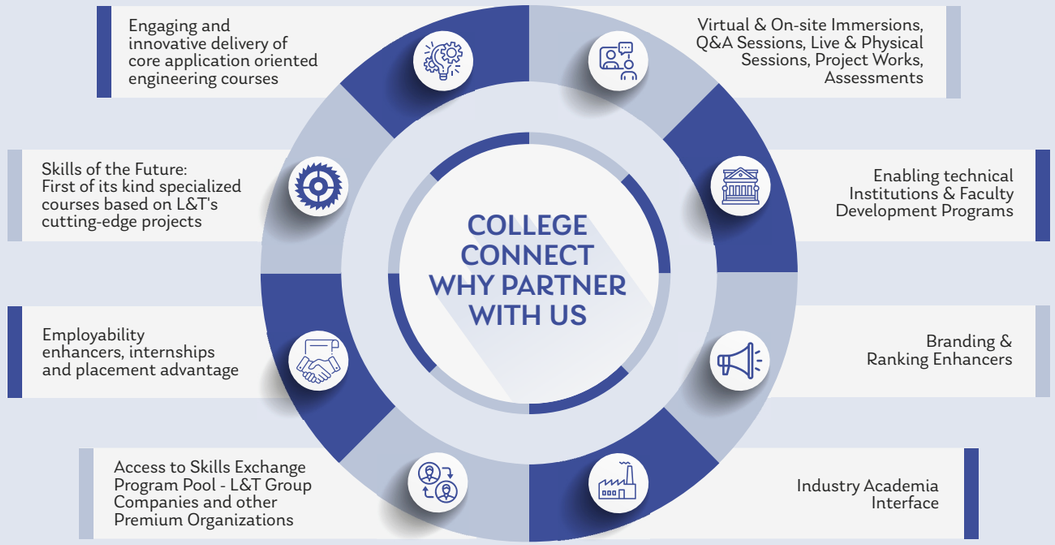
CASE STUDIES COVERED

- Excel spreadsheets development for design of steel Members
- ETAB analysis and design of shear wall building
- Precast commercial and residential buildings
- STAAD analysis an design of a multistoried steel commercial building
- Pre-engineered building of an automobile plant

EMPLOYABILITY POTENTIAL



USP OF L&T EDUTECH COURSES



CERTIFICATE SAMPLES

L&T EduTech

Ref: ./2022/00006

CERTIFICATE OF COMPLETION

This is to certify that

of .....

has successfully completed the Course

Offered by CollegeConnect programme

of L&T EduTech during the period **Dec-2021 - Mar-2022**

L&T EduTech, Larsen & Toubro Limited, 1st Floor, Right Wing, TCTC Building, Mount Poonamallee Road, Manapakkam, Chennai - 600 089, Tamil Nadu India

M.F. Febin
Head - CollegeConnect Business

Sabyasachi Das
Chief Executive Officer, L&T EduTech

L&T EduTech

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M.F. Febin
Head - CollegeConnect Business

Sabyasachi Das
Chief Executive Officer, L&T EduTech