



# SRINIVAS UNIVERSITY

## COLLEGE OF ENGINEERING & TECHNOLOGY

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### DEPARTMENT OF CIVIL ENGINEERING

### M.TECH IN CONSTRUCTION MANAGEMENT

#### About the Course:

M.Tech in Construction Engineering and Management is a two-year post-graduate programme aimed at shaping the student's managerial and technical skills in the field of engineering. The programme is streamlined to give insights on the advanced process of construction planning, scheduling and management, and how to ensure efficient and timely implementation of building and construction projects. Students are imparted advanced learning in Resources Planning and Management, Project Management, Risk Management, Construction Optimization Techniques, Procurement Management, Standard Forms of Construction Contracts, Financial Planning & Procurement. The students are exposed to practical learning by working on real-world projects in the management lab, construction material lab, and quality practice labs integrated with the latest software. The practical lab sessions require students to apply theoretical knowledge to realise their value through implementation.

**Duration :** 2 years, Four semesters.

**Eligibility:** Candidates passing B.E / B.Tech. Examinations in Civil Engineering with minimum marks of 45% from Engineering Colleges affiliated to AICTE New Delhi are eligible for admission to M.Tech program. For SC/ST candidates, the minimum marks percentage required is 40% in B.E / B.Tech.

#### Vision and Mission:

##### Vision

To create Technically sound, Dynamic ,Skilful, Innovative Civil Engineers, imbued with good entrepreneurial and human virtues, who are quality conscious, efficient and who will be the leaders in building safe, sustainable world for the future generations.

##### Mission:

Providing Uncompromising Standard of Excellence in Technical Teaching to the students with an excellent Academic Environment to acquire comprehensive knowledge in the Civil Engineering, reinforced with opportunities to develop Skill ,Personality, Entrepreneurship Qualities and Ethical Values.

#### Special Features of the Programme:

- Study material will be provided from the college for every subject according to the syllabus.
- Industry oriented syllabus with special focus on experimental learning.
- Seminars, Technical Talks and Interactions with industrial experts.

- Innovations in examination system with opportunity for personal seeing of evaluated papers.
- Placement support and research-oriented projects for every student.
- Focus on smart skill development & training on Civil Engineering practices.
- Opportunity to visit Civil / Construction Industry and Project Sites.

### **Program Educational Objectives:**

- To prepare students to meet the industrial requirements at global level competitiveness.
- To develop the students analytical skills to enable them to understand real world problems and formulate solutions.
- To impart basic education to students in the areas of Construction Management , that will enable them to take up higher studies in these areas.
- To allow students to work in teams through group project works and seminars and thus help them achieve interpersonal and communication skills.
- To inculcate the habit of lifelong learning, adherence to ethics in profession, concern for environmental and regard for good professional practices.

### **Career Opportunities:**

As India strives to develop its infrastructure and with the upcoming projects like 100 Smart Cities housing, there will be a pool of opportunities for the students graduating from this programme. The post-graduate programme will play a crucial role in developing industry-ready professionals. Construction Engineering & Management graduates get good opportunity both in private and public sector organizations in India and at Abroad engaged in the execution of major infrastructure projects such as roads, railways, airports, harbours, smart cities, high rise buildings, bridges, tunnels, power plants, shopping malls, satellite towns, hybrid towns, resorts, etc.

### **Unique Features:**

The Department has been recognized as Research and Development Centre by Srinivas University for carrying out Research activities leading to Ph.D. Degrees. The department offers PG program namely, M.Tech.(Construction Management).

Being under a private university we had a feasibility to form our own syllabus. Thus, we have approached several industrialists and have framed the syllabus according to the industry requirements and prepared an Industry oriented syllabus.

The students of the department will undergo internship in various reputed organizations all over the country. Students participate in various National and International level competitions, Events regularly. The department possesses the state of the art research facilities to support our academic programs and research. Several projects of the students have been funded by the Government of Karnataka.

Our department has a distinguished record in both teaching and research. Faculty members have excellent academic credentials and are highly regarded. They have publications at National and International levels.

**SRINIVAS UNIVERSITY**  
**College of Engineering and Technology**

**SCHEME OF TEACHING AND EXAMINATION 2020-21**

**M.TECH IN CONSTRUCTION MANAGEMENT**

<b>SEMESTER I</b>		<b>SEMESTER II</b>	
Sl. No.	Subjects	Sl. No.	Subjects
1	Construction Planning, Scheduling & Control	1	Construction Contracts & Management
2	Advanced Construction Techniques	2	Operation Research & Decision Theory
3	Construction Equipments and Planning	3	Human Resource Management in Construction
4	Advanced Construction Materials	4	Engineering Valuation
5	Advanced Concrete Technology	5	Elective II
6	Elective I	6	Elective III
7	Project Management Lab	7	Advanced Concrete Lab
8	Seminar	8	Seminar
	<b>Elective -I</b> Disaster Management & Mitigation Construction Management Information Systems Construction Safety & Management Repair, Rehabilitation and Retrofitting Principles of Sustainable Construction		<b>Elective II</b> Construction Contracts & Management Energy Conservation Techniques in Building Construction Operation Research & Decision Theory Human Resource Management in Construction Engineering Valuation <b>Elective III</b> Infrastructure Development Energy Conservation Techniques in Building Construction Facilities Planning & Management Principles of Architecture & Landscaping Shoring, Scaffolding and Formwork
<b>SEMESTER III</b>		<b>SEMESTER IV</b>	
Sl. No.	Subjects	Sl. No.	Subjects
1	Seminar/Presentation on Internship (After 8 weeks from the date of commencement)	1	Project Work Phase: 1
2	Report on Internship	2	Report on Project work

3	Evaluation and Viva-Voce	3	Final Evaluation of Project Work and Viva-Voce
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## Internship

- 1. Internship:** All the students shall have to undergo mandatory internship of 16 weeks during III semester and University examination shall be conducted at the end of 16 weeks. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.
- 2. Seminar /Presentation of Internship:** Students in consultation with the guide/co-guide if any, shall prepare and present a seminar after 8weeks of Internship. IA marks shall be awarded by a committee comprising of HOD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The IA marks awarded for Seminar/Presentation on Internship, shall be based on the evaluation of Internship Report, Presentation skill and Question and Answer session.
- 3. Evaluation and Viva-Voce:** Students in consultation with the guide/co-guide if any, shall prepare relevant Internship report, and present a seminar at the end of 16 weeks. IA marks shall be awarded by a committee comprising of HOD as Chairman, Guide/co-guide if any, and a senior faculty of the department based on the evaluation of Internship Report, Presentation skill and Question and Answer session. Examination marks shall be awarded by External Guide sand the Internal Guide/co-guide if any, based on the evaluation of Internship Report, Presentation skill and Question and Answer session.

## Project Work

- 1. Project Phase-1:** Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. IA marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The IA marks awarded for project work phase:1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session.
- 2. Final Evaluation of Project Work and Viva-Voce:** Students in consultation with the guide/co-guide if any, shall prepare relevant project report, and present a seminar. IA marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department based

on the evaluation of Project Report, Project Presentation skill and Question and Answer session. Examination marks shall be awarded by External Guide and the Internal Guide/co-guide if any, based on the evaluation of Project Report, Project Presentation skill and Question and Answer session.