

M.Tech. in Civil Engineering (Structural Engineering and Construction Management) – 2 Years

An **M.Tech. in Civil Engineering with specialization in Structural Engineering and Construction Management** is typically a 2-year postgraduate programmed divided into 4 semesters. A

Semester I

Subject Code	Subject
MSC101	Advanced Structural Analysis
MSC102	Advanced Reinforced Concrete Design
MSC103	Theory of Elasticity and Plasticity
MSC104	Construction Project Management
MSC105	Research Methodology

Semester II

Subject Code	Subject
MSC201	Steel Structure Design
MSC202	Finite Element Method
MSC203	Construction Planning and Scheduling
MSC204	Contracts, Tendering and Arbitration
MSC205	Seminar

Semester III

Subject Code	Subject
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Subject Code	Subject
MSC301	Earthquake Resistant Design
MSC302	Pre stressed Concrete Structures
MSC303	Quality, Safety and Risk Management
MSC304	Elective – I
MSC305	Dissertation Phase–I

Semester IV

Subject Code	Subject
MSC401	Infrastructure Project Management
MSC402	Elective – II
MSC403	Dissertation Phase–II
MSC404	Viva Voce

Suggested Electives

Subject Code	Subject
MSC311	Bridge Engineering
MSC312	Advanced Foundation Engineering
MSC313	Structural Dynamics
MSC314	Green Building Technology
MSC315	Building Information Modelling (BIM)

Suggested Examination Scheme

Component	Marks
Theory (per paper)	70
Internal Assessment	30
Seminar	100
Dissertation	300
Viva Voce	100