

Sardar Vallabhbhai National Institute of Technology, Surat.

Department of Civil Engineering

Syllabus for ICCR (M. Tech) SE

1.	Mechanics of solid	Stress, Strain, Poisson Ratio, Slenderness Ratio.
2.	Structural Analysis	Basic analysis-determinate indeterminate structural analysis, analysis of building frame, computer method of analysis, Slope, Deflection.
3.	Design of concrete structure	Design of RCC beam, column, slab, Footing.
4.	Design of steel structure	Limit state design, Tension member, compression member, flexural member, basic connection, Welding.
5.	Foundation Engineering	Type of foundation, Bearing capacity, Pile, Isolated slope footing, type of soil.