

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M. E. Semester I**  
**Civil Engineering ( Structural Engineering )**

**Subject: - Basic Concepts Of Structural Behavior ( Interdisciplinary Elective I )**

<b>Sr. No.</b>	<b>Course Contents</b>
1	Structures and Overview: Classification, Basic issues in analysis and design of structures. Types and selection of suitable structural system.
2.	Principles Of Mechanics: Revision of internal forces and moments. Mechanical properties of building materials.
3	Introduction to Structural Analysis and Design criteria of structural Elements like truss, Cable, arch, Beam, Column and Shell.
4.	Introduction to plate and grid structures:

**REFERENCE BOOKS:**

- 1) "Structures" Daniel L.Schodek,