



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Bachelor of Engineering**  
**Subject Code: 3110011**  
**PHYSICS**  
**B.E. 1<sup>st</sup> YEAR**  
**(For Group I Branches)**

**Type of course:** Basic Science (Physics)

**Prerequisite:** Basic understanding of Calculus, Physics and Mathematics course on Differentiate equations.

**Rationale:** The basic science - physics program is to prepare students for careers in engineering where physics principles can be applied to the advancement of technology. This education at the intersection of engineering and physics will enable students to seek employment in engineering upon graduation while, at the same time, provide a firm foundation for the pursuit of graduate studies in engineering.

**Teaching and Examination Scheme:**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
3	0	2	4	70	30	30	20	150

**Content:**

Sr No	Topic	Teaching Hrs.	Module Weightage
	<b>MODULE 1: Properties of Matter</b> <ul style="list-style-type: none"> <li>• Concept of Load, Stress and Strain</li> <li>• Hook's Law</li> <li>• Stress-Strain Diagram</li> <li>• Ductility, Brittleness and Plasticity</li> <li>• Elastic behavior of solids</li> <li>• Working stress and factor of safety</li> <li>• Factors affecting elasticity</li> <li>• Types of Elasticity</li> <li>• Twisting couple on a cylinder or wire-shaft</li> <li>• Torsional Pendulum</li> <li>• Cantilever-Depression of Cantilever</li> <li>• Young's modulus by Cantilever</li> <li>• I-shape Griders</li> <li>• Viscosity and comparison of viscosities</li> </ul>	7	19

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**Chao Zhang**



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