

<b>Department of ME</b>	
<b>B.Tech - II-Year</b>	
<b>CO</b>	<b>Subject Name -CO Statements</b>
<b>C202: Mechanics of Solids</b>	
<b>CO#</b>	<b># Student will be able to</b>
<b>C202.1</b>	Student will be able to Study and evaluate the elastic properties of engineering materials.
<b>C202.2</b>	Student will be able to Apply theory of solid mechanics to calculate forces, deflections, moments, stresses, and strains in a wide variety of structural members subjected to tension, compression and torsion, bending, both individually and in combination with temperature effects.
<b>C202.3</b>	Student will be able to Plot Shear and Bending moment diagram, and to determine bending and shear stresses in beams to determine suitable cross-sections.
<b>C202.4</b>	Student will be able to Determine principal stresses, maximum shearing stresses and the stresses acting on any arbitrary plane within a structural element
<b>C202.5</b>	Student will be able to Solve problems and identify the fundamental elements involved in the mechanical design of engineering structures; e.g. which failure / safety criterion to apply for different applications, failure prediction and analysis.
<b>C202.6</b>	Student will be able to Analyze and design shafts and thin shells