

| Department of ME | |
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| B.Tech - II-Year | |
| CO | Subject Name -CO Statements |
| C203:Metallurgy and Materials Science | |
| CO# | # Student will be able to |
| C203.1 | Student will be able to Analyze and Identify the Structure of materials at different levels and conceptualize crystalline materials and Classify alloys. |
| C203.2 | Student will be able to Construct different phase diagrams, reactions and demonstrate different phases and phase changes. |
| C203.3 | Student will be able to Understand concept of mechanical behaviour of materials with change in alloying elements and suggest the heat treatment processes by evaluating its behavioural response with microstructure. |
| C203.4 | Student will be able to Design and synthesize different material like steels, cast irons, Non-ferrous alloys and its microstructure with its applications. |
| C203.5 | Student will be able to Explain features, classification, applications of newer class materials like ceramic, composites and polymers. |
| C203.6 | Student will be able to Apply core concepts in material science to solve engineering problems and recommend materials for design and construction. |