

**MVSR Engineering College, Nadergul.**  
**Department of Mechanical Engineering**  
**COURSE OUTCOMES**

Class: B.E.II Year I Sem (Mech. Engg.)

Name of the Course: Metallurgy Laboratory

Course Code: ME 231

At the end of the course student is able to

<b>No.</b>	<b>Course Outcomes</b>	<b>PO</b>
M231.1	Prepare specimen for metallographic observation	1
M231.2	Analyze and identify low, medium and high carbon steels from the study of their microstructure	2,3
M231.3	Analyze and identify different types of cast irons from the study of their microstructure	2,3
M231.4	Analyze and identify Non-ferrous alloys such as Brass, babbitt and Al-Si from the study of their microstructure	2,3
M231.5	Analyze and identify microstructures after annealing, normalizing, hardening and tempering	1,2
M231.6	Relate the properties of the materials using image analyser	1,2,5