

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

Class: B. E. 1<sup>st</sup> Semester – Common to all branches

Name of the course: Engineering Workshop-2

Course Code: ES 255 ME

At the end of the course student is able to

S.No	Outcomes	POs mapped	PSOs mapped
M 155.1	The student would be able to utilize the various tools of smithy namely forge, tongs, fullers, flatters, swage block, chisels, anvil, hammers, etc to perform various forging operations on the work piece (job) like flatterring, bending, upsetting, fullering, etc.	PO1, PO2, PO9, PO10, PO12.	PSO2.
M 155.2	The student would be able to understand the different types of welding techniques like arc welding, gas welding, brazing, soldering, etc and prepare various weld joints like lap joint, butt joint, T joint, etc.	PO1,PO2,PO4, PO9,PO10, PO12	PSO2.
M 155.3	The student would be able to utilize the various tools of machining namely lathe machine, cutting tools (single point cutting tool, knurling tool, parting tool, etc) to perform various machining operations like turning, facing, drilling, boring, threading, knurling, etc.	PO1, PO2, PO3, PO9, PO10, PO12.	PSO2.
M 155.4	The student would be able to utilize the various tools of plumbing namely pipe vice, hack saw, pipe cutter, wrench, dies, pipe fittings, etc to prepare various pipe joints. Subsequently the student would be able to estimate how to prepare pipe connections for domestic and industrial applications.	PO1, PO2, PO3, PO9, PO10, PO12.	PSO1, PSO2.