

Year & Sem:	Course Code:	Lab Name: Manufacturing processes	No. of Credits: 2	L	T&PS	P
E2S2	ME2801			0	0	2

Experiment-I: *Experiments to be performed on Lathe:*
I. Performing Step turning, Facing operation on Lathe.
II. Performing Taper turning operation by compound swivel method.
III. Performing Eccentric turning on lathe.
IV. Effect of process parameters in turning on cutting forces & temperatures

Experiment-II: *Experiments to be performed in Milling Machine:*
V. V- groove cutting on Milling machine.
VI. Spur gear cutting on Milling machine

Experiment-III: *Experiments to be performed in Grinding Machine:*
VII. Making of a Single point cutting tool by formed grinding wheel on tool cutter grinder. And measuring angles using Profile Projector or Tool Makers microscope.

Experiment-IV: Experiments to be performed by using combination of Machine tools:
VIII. Drilling, reaming, tapping and counter sinking.
IX. Wood turning

Experiment-V: List of experiments in Casting:
X. Study on moulding properties like permeability, Green hardness, Dry tensile & compression strength, Green tensile & compression strength, Moisture measurement.
XI. Study on riser design & shieve analysis.

Experiment-VI: List of experiments in Welding:
XII. Study the characteristics of MIG welding with movable work table
XIII. Study of arc welding characteristics using automatic moving torch.
XIV. Demo of TIG and Resistance spot welding

Experiment-VII: List of experiments in Forming
XV. Disc compression & Ring compression test
XVI. Extrusion & deep drawing

References/ Books:
1.
2.