

II Year - II Semester

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**PRODUCTION TECHNOLOGY LAB**

**Course Objective: To impart hands-on practical exposure on manufacturing processes and equipment.**

Minimum of 12 Exercises need to be performed

**I. METAL CASTING :**

1. Pattern Design and making - for one casting drawing.
2. Sand properties testing - for strength and permeability
3. Mould preparation, Melting and Casting

**II WELDING:**

1. Gas welding
2. Gas cutting
3. Manual metal arc welding - Lap & Butt Joints
4. TIG/MIG Welding
5. Resistance Spot Welding
6. Brazing and soldering

**III METAL FORMING AND POWDER METALLURGY:**

1. Blanking & Piercing operations and study of simple, compound and progressive dies.
2. Deep drawing and extrusion operations.
3. Bending and other operations
4. Basic powder compaction and sintering

**IV PROCESSING OF PLASTICS**

1. Injection Moulding
2. Blow Moulding

