

# PRODUCTION TECHNOLOGY LAB

**Objective:** The objective is to impart technical skills to learner in the areas of Casting, Welding, press working and Processing of plastics



Sections Handled: I YEAR II SEM A, B

## Major Equipment Details:

S. No	Name of the Equipment	Quantity
1	Injection Molding	1
2	Permeability Meter	1
3	Sand Rammer	4
4	Spot Welding Machine	1
5	TIG Welding Machine	1
6	Universal Strength Machine VUM (Incl. attachments)	1
7	Wood Turning Lathe	1
8	Gas Welding Torch & House Pipe	1
9	Manual metal arc welding machine with accessories	1
10	Aluminum melting Furnace	1
11	Hydraulic press, 5 ton capacity	1
12	Leather apron	4
13	Chipping hammer	4
14	Molding boxes, 12*12*30	6
15	Steel shovel	4

Faculty In Charge with Qualification: P V Siva Teja, M.E., (Ph.D.)

Lab Technician Name with Qualification: Mr. V S Venkateswara Rao, Diploma

Experiment list as per curriculum:

1. Preparation of A Single Piece Solid Pattern.
2. Preparation of A Mould Cavity for Stepped Cone Pulley.
3. Preparation of A Mould Cavity for Bush Pattern.
4. Testing of Various Moulding Sand Strength Properties.
5. Conducting Permeability Test on Moulding Sand.
6. Preparation of Lap Joint by Arc Welding Process.
7. Preparation of a Split Pattern.
8. Preparation of a Mould Cavity for Hand Wheel. Preparation of Open Scoop
9. Preparation of Single V Butt Joint by Arc Welding Process.
10. Preparation of a Butt Joint by Spot Welding Process.
11. Preparation of a Lap Joint by Spot Welding Process.
12. Preparing a Cap by Using Injection Moulding Process.

Experiment list beyond the curriculum

1. Preparation of T -Joint by Arc Welding Process.
2. Blacking and Piercing Using Hydraulic Press