II YEAR-II Semester ME4L2 PRODUCTION TECHNOLOGY LAB

Credits:	2
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Lecture:	Internal assessment: 25 marks
Lab Practice: 3 period /week	Semester end examination: 50 marks

Course Objectives:

- Preparation of wooden pattern using carpentry tools.
- Making sand mold using pattern.
- Various operations performed on press tools.
- Simple joints like T-joint, butt joint are prepared using arc, oxy-acetylene, MIG, TIG welding techniques.
- Preparation of gear wheel and hub nut cover using injection molding machine.

Course Outcomes:

Upon the completion of this course the student will be able to:

- 1. Make the wooden pattern using carpentry tools.
- 2. Use the pattern for creating mould cavity.
- 3. Perform blanking and piercing operations on press tools.
- 4. Fabricate welded structures for engineering applications.
- 5. Prepare components using blow and injection molding.

Any 12 Experiments of the following

I)FOUNDRY

- 1) Preparation of single piece pattern
- 2) Preparation of split pattern
- 3) Sand Molding
- 4) Testing Sand Properties

II) WELDING

- 1) Arc welding Two exercises
- 2) Spot Welding
- 3) TIG welding
- 4) Gas Welding

III) PRESS WORKING

1) Piercing and Blanking

IV) PLASTICS PROCESSING

- 1) Injection Molding Two exercises
- 2) Blow Molding