

## MANUFACTURING TECHNOLOGY LAB

### OBJECTIVES:

- To understand and appreciate the importance of basic principles of Production Engineering.
- To understand the application of those principles in practice.
- To understand the design and manufacture of simple patterns.
- To understand the Arc welding, gas welding and resistance welding equipment for the fabrication of welded joints.
- To understand the concept of blow and injection moulding processes

### LIST OF EXPERIMENTS:

#### 1. Pattern Design And Making

- Single Piece Pattern
- Two Piece Pattern

#### 2. Gas Welding

- Lap Joint
- Butt Joint

#### 3. Moulding, Melting And Casting

- Preparation Of Mould Cavity
- Preparation Of Casting

#### 4. Arc Welding

- Lap Joint
- Butt Joint

#### 5. Spot Welding

- T- Joint
- Lap Joint

#### 6. Tig Welding

- Butt Joint

#### 7. Brazing

- Butt Joint

#### 8. Plasma Welding/Cutting

- Cutting of Ms Plates

#### 9. Mechanical Press Working

- Preparation of V-Rod
- Preparation of Cup

#### 10. Processing of Plastics

- Preparation of JBIET Token
- Preparation of Plastic Bottle

#### 11. Permeability Test on Moulding Sand

- Preparation of Specimen By Using Sand Rammer
- Permeability Test of one Specimen

