

# Department of Mechanical Engineering

## Material Technology Laboratory

### ❖ Objective :-

- To study Basic engineering materials, their properties, applications & selection.
- To study Types & cause of failure of components in service.



### ❖ List of experiments:

- Study of metallurgical microscope.
- Metallographic sample preparation & etching.
- Microstructure of plain carbon steels.
- Fatigue test.
- Annealing, Normalizing, Hardening of C.I.
- Jominey End quench apparatus

### ❖ List of Equipment:

- Microscope.
- Muffle furnace.
- Jominey End quench apparatus.
- Magnetic stirrer with hot plate.
- Fatigue testing machine.