



Materials Science & Technology (BMEP-303)

List of Programs:

1. Preparation of plastic mould for small metallic specimen.
2. Specimen preparation for micro structural examination-cutting, grinding, polishing, etching.
3. Grain size determination of a given specimen.
4. Comparative study of microstructures of different material specimens (mild steel, gray cast iron, brass, copper etc.).
5. Heat treatment experiments such as annealing, normalizing, quenching, case hardening and comparison of hardness before and after heat treatment.
6. Material identification of, say, 50 common items kept in a box..
7. Study of corrosion and its effects.
8. Study of microstructure of welded component and HAZ. Macro and Micro Examination.