

SYLLABUS :-

Expt. No. Titles of Experiments  
1 Principles of metallographic sample preparation and observation.  
2 Solidification of metals and alloys, and determination of phase diagrams.  
3 Observation of macrostructures.  
4 Work hardening and recrystallization annealing of metals and alloys.  
5 Study of different types of eutectic microstructures.  
6 Heat treatment of different plain carbon steels, and their microstructures and hardness.  
7 Microstructures of some commercially available non-ferrous alloys.  
8 Microstructures, compositions and hardness of different components used in a bicycle.