SUBJECT NO-MT39005, SUBJECT NAME- HEAT TREATMENT OF MATERIALS LAB.

LTP- 0-0-3,CRD- 2

SYLLABUS :-

Expt. No.Titles of Experiments1Experimental determination of a binary phase diagram.2Solid state amorphization and crystallization. 3Solidification microstructure and solid state phase changes effected by cooling rates and related microstructural evolution in $\tilde{A}^-\hat{A}\hat{A}_i$ -brass (Cu-30 wt percent Zn alloy) and Al Bronze (Cu-11 wt percent Al alloy). 4Study on mechanism and kinetics of grain coarsening.5Microstructural features of discontinuous precipitation and coarsening.6Determination of boundary diffusion coefficient and Arrhenius parameters.7Annealing and normalizing of plain carbon steel.8Hardening and tempering of steel.9Microstructural features of selected grades of hardened steel.10Jominy end-quench hardenability test.11Curburising and heat treatment of carburised steel.