



S. N. Patel Institute of Technology & Research Centre, Umrakh

(A Vidyabharti Trust Institution)

Mechanical Engineering Department

Subject Name: Heat and Mass Transfer

Subject Code: 3151909

Sr.No.	Experiment
1	To determine the thermal conductivity of given metal rod
2	To determine the thermal conductivity of the given composite walls.
3	To determine Stephan Boltzmann constant experimentally.
4	To determine heat transfer co-efficient by forced convection.
5	To determine heat transfer co-efficient by natural convection.
6	To determine the overall heat transfer co-efficient of shell and tube type heat exchangers.
7	To determine the emissivity of gray body.
8	To study film and drop wise condensation and to determine the film co-efficient
9	To measure convective heat transfer co-efficient and effectiveness of the fin under forced convection.
10	To measure convective heat transfer co-efficient and effectiveness of the fin under natural convection.
11	To determine heat transfer co-efficient for hair pin heat exchanger.
12	To determine heat transfer co-efficient for transient heat transfer process.
13	To determine critical radius of insulation