

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Department of Chemical Engineering

Heat Transfer Lab

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1. To determine the thermal conductivity of metal rod.
 2. To determine the equivalent thermal conductivity of composite wall.
 3. To determine heat transfer coefficient in forced convection.
 4. To determine heat transfer coefficient in natural convection.
 5. To determine heat transfer coefficient with the help of Stephan Boltzman Apparatus.
 6. To calculate emissivity of the test plate by emissivity measurement apparatus.
 7. To determine heat transfer coefficient in double pipe heat exchangers.
 8. To study the heat transfer characteristics of a shell and tube heat exchanger (Heating / cooling)of water.
 9. To determine heat transfer coefficient in counter and parallel flow heat exchanger
 10. To measure the rate of evaporation using an open pan evaporator.
 11. To measure the rate of condensation of pure water vapor and to determine the heat transfercoefficient.
 12. Demonstrate the film wise, drop wise condensation and determination of heat transfercoefficient.
 13. To study the single effect evaporator and find out the heat transfer coefficient.
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