

MVSR Engineering College, Nadergul.
Department of Mechanical Engineering
COURSE OUTCOMES

Class: B.E.III Year II Sem (Mech. Engg.)

Name of the Course: **Heat Transfer**

Course Code: ME 354

At the end of the course student is able to

CO No.	Outcomes	POs mapped	PSOs mapped
M 354.1	To enable students to apply fundamentals of mathematics in formulating and analyzing 3D HCE in different coordinate system. Interpret the study state and transient conditions for 1D, 2D and 3D situations. Enumerate 2D numerical problems.	PO1,PO3,PO5	PSO-1,PSO-2
M 354.2	Analyzing students to arrive at situations enhancing heat transport phenomena.	PO1,PO2,PO4,PO7	PSO2
M 354.3	Enumerate the different situation where physically heat transport mechanism is involved with relevance to Conduction, Conduction-Convection, Convection, Radiation, and Conduction-Convection-Radiation. Situations of complex nature.	PO1,PO4,PO12	PSO2
M 354.4	Applications of differential equations in solving fluid flow problems with heat transport for various geometries with and without gravitational effects, binary phase flows for complex situations.	PO1,PO2,PO3,PO4 PO9,PO10,PO12	PSO2
M354.5	Study of heat transfer without any medium and understanding the radiative phenomenon with relevance to electrical networks for further analysis.	PO1,PO4,PO9,PO10, PO12	PSO2
M354.6	Enable students to self evaluate themselves in solving various situations with numerical problems relating to real time environments using CFD/Ansys.	PO1,PO5,PO6,PO7, PO8,PO9,PO10	PSO1,PSO2