

Lesson Delivery Plan, Execution Status and Progress Monitoring

Academic Year: 2022-23
Name of the Staff Member: Dr. Nandeesh M
Hrs required as per Syllabus: 50

Subject: Heat transfer
Hrs available as per COE: 50

Semester: VI
Subject code: 18ME63
Additional Classes required: 50

Lesson Delivery Plan		Execution Status		Progress Monitoring	
Module No : 1. Introductory concepts and definitions: Steady-state one-dimensional heat conduction problems in Cartesian System					
Planned Start Date : 21-3-23		Planned Completion Date: 1-4-23		Planned Hrs : 10 Engaged Hrs: 12	
Class No	Portion to be covered per hour	Engaged Date	Extra	Experiences worth noting	HOD Sign.
1	Modes of heat transfer: Basic laws governing conduction, convection, and radiation heat transfer; Types of boundary conditions.	20-3-23		Black board presentation, Interaction, PPT, Handouts, Animations, Videos, Analyzing problems through Group more classes needed as students are slow learners.	
2	General three dimensional Heat Conduction, Equation: Derivation of the equation in (i) Cartesian, coordinate only.	21-3-23			
3	Numerical examples	23-3-23			
4	Discussion of three dimensional Systems Heat Conduction Equation in Polar and Spherical Co-ordinate.	24-3-23			
5	Steady-state one-dimensional heat conduction problems (i) without heat generation and (ii) constant thermal conductivity	25-3-23			
6	Numerical examples	27-3-23			
7	Numerical examples	28-3-23			
8	Brief Introduction to variable thermal conductivity and heat generation [No numerical on variable thermal conductivity and heat generation] Thermal Resistances in Series and in Parallel.	30-3-23	31-03-23		
9	Critical Thickness of Insulation in cylinder and spheres Concept. Derivation	1-4-23			
10	Numerical examples	5-4-23	6-4-23		



Activate Windows