



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

Two Days Workshop

on

**Computational Methods for Solving Engineering Problems
(CMSEP 2023)**

Organized by

Department of Mathematics, Department of Mechanical and Industrial Engineering,

Department of Aeronautical & Automobile Engineering

Manipal Institute of Technology, Manipal

November 3-4, 2023

Program Schedule

Day 1 – Friday 3rd November 2023			
Time/Session	Events		
08:30 AM-09:00 AM	Registration		
09:00 AM-09:30 AM	Inauguration		
09:30 AM-09:45 AM	Tea Break		
Session A	Lecture Name	Speakers	Title of the Lecture
09:45 AM-01:00 PM	Session-A1	Prof. Tanmay Basak IIT Madras	Finite Element Method for Solving Engineering Problems
1:00 PM-02:00 PM	Lunch Break		
02:00 PM-03:30 PM	Session-A2	Dr. Aniruddha Sanyal NIT, Calicut	Basics of Computational Heat and Fluid Flow using Finite Difference Methodology-from Model Development to iterative solutions
03:30 PM-03:40 PM	Tea Break		
03:40 PM-05:10 PM	Session-A3	Prof. Yagnesh N. Sharma Former Professor, MIT Manipal	Solving Partial Differential Equations using Finite Volume Methodology
Day 2 – Saturday 4th November 2023			
Time/Session	Events		
Session B	Lecture Name	Instructor	Title of the Lecture
09:00 AM-11:30 AM	Hands on Training	Prof. Tanmay Basak IIT Madras	Implementation of Finite Element Method by using MATLAB
11:30 AM-11:45 AM	Tea Break		
11:45 AM-01:15 PM	Hands on Training	Dr. Aniruddha Sanyal NIT, Calicut	Use of ANSYS Fluent for a Bluff Body Flow Problem
01:10 PM-02:15 PM	Lunch Break		
02:30 PM-03:00 PM	Hands on Training	MATLAB Team	Usage of MATLAB in Solving Engineering Problems
03:15 PM-03:45 PM	Valedictory		
03:45 PM-04:00 PM	High Tea		