In-House Internship Program (IIP)
On
Computational Fluid Dynamic Simulation using ANSYS
June 19-30, 2023

Schedule of IIP

Day/Date	3.00 - 5:00 PM
Day-1 19/06/23	**Inaugural Session** Introduction of IIP: Objective and contents of Program
	Dr. Kamlesh Sharma
Day-2 20/06/23	**Session-1** Introduction to CFD: Computational approach to Fluid Dynamics and its comparison with experimental and analytical methods
	Dr. Mangal Singh Lodhi
Day-3 21/06/23	**Session-2** Governing differential and boundary condition
	Dr. Mangal Singh Lodhi
Day-4 22/06/23	**Session-3** Solution Metrology: Domain discretization with FDM, FVM and FEM, Stability, Convergence and Accuracy
	Dr. Neetesh Singh Raghuwanshi
Day-5 23/06/23	**Session-4** Finite Volume Method: Domain discretization, Pressure velocity coupling, SIMPLE method.
	Dr. Neetesh Singh Raghuwanshi
Day-6 26/06/23	**Session-5** Introduction CFD software: Geometry, grid generation, solver, post processing
	Dr. Mangal Singh Lodhi
Day-7 27/06/23	**Session-6** Lab session on Simulation of Microchannel Heat Exchanger
	Dr. Mangal Singh Lodhi
Day-8 28/06/23	**Session-7** Lab session on Simulation of Natural Circulation Loop
	Dr. Neetesh Singh Raghuwanshi
Day-9 29/06/23	**Session-8** Lab session on Simulation of Vapour Compression Refrigeration System
	Dr. Kamlesh Sharma
Day-10 30/06/23	**Valedictory Session** Feedback, Test and Certificate Distribution