

COMPUTATIONAL HEAT AND FLUID FLOW LAB

(Skill Based Lab Elective-I)

Course Code: 15CH11S1

1 Credit

Course Outcomes :

At the end of the Course, the Student will be able to:

- CO 1** Understand the important of CFD and its applications
- CO 2** Understand how to create a sphere and calculate the Nusselt number
- CO 3** Understand how to create a cylinder and calculate the Nusselt number
- CO 4** Understand the internal flow importance and calculate the Nusselt number
- CO 5** Understand how to implement moving boundary

LIST OF EXPERIMENTS/PROGRAMMES:

- 1) Flow past a flat plate, calculation of the drag coefficient.
- 2) Flow past a sphere, calculation of the Nusselt number.
- 3) Flow past a cylinder, calculation of the Nusselt number.
- 4) Flow in a tube, calculation of the Nusselt number.
- 5) Lid driven cavity, calculation of the nusselt number.