Course Number and Name
BME6L1 – HEAT TRANSFER LAB
Credits and Contact Hours
2 & 45
Course Coordinator's Name
Mr.Ravi
Text Books and References
Lab Manual
Course Description
To make the students to understand heat transfer characteristics materials and equipment.

Prerequisites	Co-requisites
Thermal lab	Nil

required, elective, or selected elective (as per Table 5-1)
Required

Course Outcomes (COs)	
CO1	To understand the mechanisms of heat transfer under steady and transient conditions.
CO2	To understand the concepts of heat transfer through extended surfaces.
CO3	To learn the thermal analysis and sizing of heat exchangers and to understand the basic
CO4	**T**he students can able to understand different heat transfer equipments
CO5	Apply different heat and mass transfer principles of different applications.
CO6	Will practically know about wind tunnel

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l
CO1	H							M			L	
CO2	H							M			L	
CO3			H	H	H						L	
CO4					M						L	L
CO5					M							L
CO6						M	M	M				L

List of Topics Covered

LIST OF EXPERIMENTS:

1. Thermal conductivity of insulating materials
2. Thermal conductivity of guarded hot plate method
3. Heat transfer through composite wall
4. Heat transfer by free and forced convection
5. Test on heat exchangers- parallel and counter flow
6. Emissivity measurement apparatus
7. Heat transfer from fins-natural and forced convection
8. Stefan-Boltzman apparatus
9. Test on Pinfin apparatus
10. Study on Wind tunnel- Drag and lift measurement