

Course Number and Name												
BME405 & Thermal Engineering & Fluid Mechanics												
Credits and Contact Hours												
3 & 45												
Course Coordinator's Name												
Mr.Ravi												
Course Objectives												
To understand the concepts of Energy in general and Heat and Work in particular, to understand the fundamentals of quantification and grade of energy, to understand fluid statics and fluid dynamics and to study the applications of mass, momentum and energy equation in fluid flow.												
Prerequisites						Co-requisites						
Basic Mechanical Engineering						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1:To understand a thermodynamic system, closed and open systems, state, equilibrium, process, cycle and system properties, thermo dynamic laws and apply it to solve problems. CO2:To study and analyze the efficiency of IC engines and compressor and to solve problems. CO3:To understand the thermodynamics of refrigerators and heat pumps CO4:To study the fluid flow and the various theorems and concepts associated with that. CO5:Ability to understand to identify, formulate, and to solve problems of dimensional analysis, pumps and turbines												
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	L		M		M		M			M		M
CO2	L				H	H	M	M		M		H
CO3	L	H			H	H	L	L		M		H
CO4	M	H	L		H	H	L	M		M		H
CO5	L	M	M		H		M			M	L	M