

Course Number and Name												
BME4L3&Thermal Engineering & Fluid Mechanics Lab												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Mr.Arun Rejus Kumar												
Text Books and References												
Text Books: Lab Manual												
Course Description												
To equip students with the knowledge of the initiation of combustion in Internal Combustion Engines, their classification, basic operating cycle and the functioning of various parts.												
Prerequisites						Co-requisites						
Nil						Thermal Engineering & Fluid Mechanics						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: To apply theoretical concepts developed in course work of thermodynamics to hands-on experiments												
CO2: To apply theoretical concepts developed in course work of fluid mechanics to hands-on experiments												
CO3: To conduct thermodynamics experiments and analyze experimental data												
CO4: To understand the operation of all thermodynamic and fluid mechanic equipment's												
CO5: To gain knowledge in designing and troubleshooting various problems in engines												
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		S		M	S		M	H		S	S	M
CO2				L	S	H	M				S	S
CO3	S	L	S	S		L	S	H	H	M	H	S
CO4	S	M	S	S		L	S	H	H	M	M	
CO5	S	H	M	H	M	M	M	M	L	H	L	M
List of Topics Covered												
<ol style="list-style-type: none"> 1. Load test on a diesel engine 2. Performance test on a refrigerator 3. Performance test on a reciprocating pump and on a centrifugal pump 4. Performance test on a air – compressor, air pressure measure and regulation 5. Plain turning and taper turning operation on a lathe 6. Drilling and tapping on a radial drilling machine 7. Round to hexagon on a milling machine. 												