Course	Course Name	L-T-P -	Year of
code ME333	HEAT ENGINES LAB	Credits 0-0-3-1	Introduction 2016
ME333	HEAT ENGINES LAD	0-0-3-1	2010
Prerequisite	e : Nil		
Course Obj			
-	ive hands on experience in tesing different	properties of	fuels &
lubrio		inst A K	4
	erform characteristic tests on petrol and diesel eng cises/Experiments :	ines.	A
	termination of viscosity using Saybolt Viscometer	TO A	
	termination of viscosity using Redwood Viscome		
	termination of Flash point and Fire point using Pe		s Apparatus.
	el Injection Pump Testing and Calibration of Fuel		11
	rformance Test on Multi cylinder Four Stroke Die	U	
	rformance Test on Multi cylinder Four Stroke Petr	-	
	tardation Test on Twin cylinder Four Stroke Diese	-	
	orse Test on Multi cylinder Four Stroke Petrol eng		
	at Balance Test on Multi cylinder Four Stroke Die dumetric Efficiency Test on Multi cylinder Four S	•	Engine
	olumetric Efficiency Test on Multi cylinder Four S		•
	ooling curve Test on Twin cylinder Four stroke D		Lingine.
	alve Timing on Four stroke Diesel/ Petrol Engine		
	etermination of calorific value of liquid fuel using		neter
14. D	etermination of calorific value o <mark>f</mark> gaseous fuel usi	ng Junker's ca	alorimeter
	: Minimum 12 experiments are mandatory		
Expected			
	will be able to different Properties of fuels and lubricants.		
ii. Test petrol and diesel engines to evaluate their performance			
1. 10501	outor and dieser engines to evaluate men performance		
List of Equi	pments ESIQ.		
•	olt viscometer		
	vood viscometer		
	xy Marten's flash & fire point apparatus		
	pump testing and calibrating machine		
U	e/multicylinder engine (petrol/diesel) for valve tin e/Twin cylinder 4 stroke diesel engine with rope of	U	l dynamometer
0	cylinder petrol engine with eddycurrent/hydraulio		•
	cylinder diesel engine with eddycurrent/hydrauli		
	b Calorimeter	5	
• Junk	er's gas calorimeter		