

	Semester 7th Semester	Name of the Teaching faculty
Discipline Mechanical engg		S. Sout
Subject	No. of days/ per week class alloted 4	Semester start - 10:08:22 Semester end - 30:06:22 No. of weeks - 60
thermofl engg - 2		

Month	Weeks	Class day	theory topics
Mar	2nd	1st	Define Mechanical efficiency
		2nd	Indicated thermal brake thermal efficiency
		3rd	Overall efficiency
		3rd	1st
	3rd	2nd	Problem solving
		3rd	volumetric efficiency
		4th	Mean effective pressure
		5th	Specific consumption
	4th	01st	Define air/fuel ratio
		2nd	Colorific value of oil
		3rd	Problem to determine efficiency
		4th	Determine specific fuel consumption

Month	Week	Class Day	Theoretical Topics
		5th	Explain the function of compressor
		6th	Industrial use of compressor or air
APR	1st	1st	Classify air compressor and principle operation
		2nd	Describe parts of reciprocating air compressor
		3rd	Working principle of reciprocating air compressor
		4th	Explain the terminology of reciprocating compressor
		5th	Pressure ratio, free air delivered and volumetric efficiency
	2nd	1st	Derive workdone of single stage compressors with clearance
		2nd	Derive workdone without clearance
		3rd	Some related simple problem
		4th	Definition of steam
		5th	Difference between gas and vapour
	3rd	1st	Formation of steam
		2nd	Representation of P-V and T-S
		3rd	Properties of steam
		4th	Steam table discussion

Month	Weeks	clauday	theory topics
		5th	Finding moister chart on table
		6th	flow process of vapour
	4th	1st	Non flow process vapour
		2nd	PV and TS diagram
		3rd	Determine change on properties
		4th	solve numerical
		5th	more numerical
MAY	1st	1st	definition of Generator
		2nd	classification of boiler
		3rd	types of Boiler
		4th	important terms of Boiler
		5th	Boiler accessories
		6th	Boiler mounting
	2nd	1st	Fire tube boiler
		2nd	Water tube boiler
		3rd	Cochran, Lancashire.

month	weeks	class day	main topic
		4th	Barcock and Watt/Cox boiler
		5th	Boiler draught (Induced, Balanced)
	3rd	1st	Boiler draught (forced)
		2nd	Numerical solved
		3rd	Carnot cycle with vapour
		4th	derive work and efficiency of the cycle
		5th	Rankine cycle
		6th	Representation P.v and T.S
	4th	1st	Work and efficiency
		2nd	Effect of various end cond's on Rankine cycle
		3rd	Reheat cycle and regeneration
		4th	Numerical in Carnot cycle
		5th	Numerical in Rankine cycle
June	1st	1st	modes of heat transfer
		2nd	Conduction, Convection, Radiation

Months	Weeks	clau day	theory topic
		3rd	Fouriers law of heat conduction
		4th	Thermal conductivity
		5th	Newton's law of cooling
	2nd	6th	Radiation of heat transfer
		1st	Stefan Boltz's law & Kirchoff Law
		2nd	Blackbody radiation
		3rd	definition emissivity, absorptivity & transmissivity.
	3rd	1st	Numerical Problem
		2nd	Radiation of heat transfer
		3rd	Thermal conductivity

