

DISCIPLINE:  
MECHANICALSEMESTER:  
4thName of Faculty:-  
Kailash Panda

SUBJECT - 1E-II

NO. OF WEEKS  
allotted :- 4Semester from 10.3.22<sup>15</sup>  
to :- 10.06.22

Week	clm, day	Theory Topics
10th March to 12th March	1st 2nd	Introduction to T.E. Engine mechanical efficiency & brake power
14th March to 19th March	1st 2nd 3rd 4th	Determine of overall efficiency Specific fuel Consumption Determine of efficiency "DOLA PURNIMA"
21st March to 26th March	1st 2nd 3rd 4th	Introduction to air compressor classification & principle of operation Function of Compressor Industrial Use
28th March to 2nd April	1st 2nd 3rd 4th	Types of air compressor principle of Reciprocating air compressor Bore, Stroke "UTKAL DIAS"
4th April to 9th April	1st 2nd 3rd 4th	Volumetric efficiency Derivation of workdone Compressor problems problems without clearance
11th April to 16th April	1st 2nd 3rd 4th	problems properties of steam "MAHA VISUBA SHUKRANTI" "GOOD FRIDAY"

Week	Classday	Theory
	1st	Formation of Steam
18th April	2nd	Representation P-V, T-S, diagram
to	3rd	Representation H-S, T-H diagram
23rd April	4th	Use of Steam table & Mollier chart
25th April	1st	properties of vapor
to	2nd	P-V, T-S diagram
30th April	3rd	Introduction to steam generator
	4th	classification of Boiler
	1st	Cochran Boiler
2nd May	2nd	Lancashire Boiler
to	3rd	Babcock & Wilcox boiler
7th May	4th	Draught
9th May	1st	Induced & Balanced draught
to	2nd	Mountings of boiler
14th May	3rd	Accessories of Boiler
	4th	Carnot cycle with vapor
16th May	1st	
to	2nd	Work done & efficiency of cycle
21st May	3rd	Rankine cycle
	4th	Representation on P-V, T-S, H-S diagram

Week	Classday	Theory Topics
23rd May	1st	Various end conditions of Rankine cycle
to	2nd	Regenerative cycle
28th May	3rd	problems on Carnot cycle and Rankine cycle.
	4th	
30th May	1st	"SABIRI AMARASYA"
to	2nd	Introduction to heat transfer
4th June	3rd	Modes of heat transfer
	4th	Fourier law of heat conduction, Radiation.
6th June	1st	Newton's law of cooling
to	2nd	Stefan's Boltzman law
10th June	3rd	Kirchoff's black body radiation
	4th	Emission, absorptivity & transmissibility
		Verified H/W 10/03/2022