



# G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

(An Autonomous Institute under UGC Act 1956 & Affiliated to Savitribai Phule Pune University)

Domkhel Road , GAT No.: 1200 Wagholi, Pune – 412207

## Course wise Teaching Plan for Session : Summer 2019

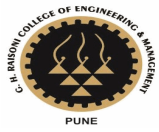
Course : ENERGY CONVERSION II

Faculty : naresh.kumar@raisoni.net - NARESH KUMAR

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Positive displacement Compressors.	17/12/2018	BMEL308	A
1	2	Reciprocating compressors : Parts, Operations	18/12/2018	BMEL308	A
1	3	Work done during isothermal, polytropic and	19/12/2018	BMEL308	A
1	4	adiabatic compression process,PV diagram,	20/12/2018	BMEL308	A
1	5	isothermal efficiency, Effect of clearance	24/12/2018	BMEL308	A
1	6	volumetric efficiency, Mechanical efficiency	01/01/2019	BMEL308	A
1	7	condition for minimum work input Multistage compressor	02/01/2019	BMEL308	A
1	8	Actual indicator diagram	03/01/2019	BMEL308	A
2	9	Rotary and vanes blower and screw compressor: Principle, operation, parts,	07/01/2019	BMEL308	A
2	10	indicator diagram, work done, Roots efficiency, vanes efficiency	08/01/2019	BMEL308	A
2	11	Centrifugal Compressor: Principle, operation, parts, velocity diagram	09/01/2019	BMEL308	A
2	12	static & total head quantities, work done by impeller, isentropic efficiency of compressor,	10/01/2019	BMEL308	A
2	13	slip factor, pressure coefficient, power input factor	14/01/2019	BMEL308	A
2	14	Axial flow compressor: Principle, operation, parts, velocity diagram	15/01/2019	BMEL308	A
2	15	work done, Degree of reaction stage efficiency compressor characteristics	16/01/2019	BMEL308	A
2	16	surging & chocking. Poly tropic efficiency	17/01/2019	BMEL308	A
3	17	I.C. Engines: Air standard cycles & fuel air cycles	21/01/2019	BMEL308	A
3	18	Parts of I.C engines,working of I.C. Engines	22/01/2019	BMEL308	A
3	19	Two stroke I.C. Engines SI & CI Engines	23/01/2019	BMEL308	A
3	20	four stroke I.C. Engines SI & CI Engines	24/01/2019	BMEL308	A

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Unit	Topic Code	Topic Covered	Date	Course	Section
3	21	Introduction to combustion in SI& CI Engines	28/01/2019	BMEL308	A
3	22	carburetion and fuel injection	29/01/2019	BMEL308	A
4	23	I.C. Engine Testing: Measurement of power: Indicated, friction and brake power	30/01/2019	BMEL308	A
4	24	measurement of speed, fuel and air consumption	31/01/2019	BMEL308	A
4	25	calculation of indicated and brake thermal efficiency	04/02/2019	BMEL308	A
4	26	calculation of indicated and brake thermal efficiency	05/02/2019	BMEL308	A
4	27	calculation of indicated and brake thermal efficiency	06/02/2019	BMEL308	A
4	28	calculation of indicated and brake thermal efficiency	07/02/2019	BMEL308	A
4	29	Heat balance sheet, performance	11/02/2019	BMEL308	A
4	30	characteristics and factors influencing the performance of I.C. Engines.	12/02/2019	BMEL308	A
5	31	DEPP: Plant Layout, Diesel Engine Power Plant Performance Analysis	13/02/2019	BMEL308	A
5	32	Application, selection of engine size, advantages & disadvantages of diesel power plant	14/02/2019	BMEL308	A
5	33	Gas Turbine Power Plants : Introduction, fuels	18/02/2019	BMEL308	A
5	34	materials selection for GTPP, Brayton Cycle analysis	19/02/2019	BMEL308	A
5	35	Thermal Efficiency, Work ratio, maximum & optimum pressure ratio	20/02/2019	BMEL308	A
5	36	Actual cycle effect of operating variables on thermal efficiency, inter-cooling	21/02/2019	BMEL308	A
5	37	Actual cycle effect of operating variables on thermal efficiency, inter-cooling	25/02/2019	BMEL308	A
5	38	reheating, & regeneration cycle	26/02/2019	BMEL308	A
5	39	Closed & Semi Closed cycles Gas Turbine Plant , combined cycle plant	27/02/2019	BMEL308	A



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<b>Unit</b>	<b>Topic Code</b>	<b>Topic Covered</b>	<b>Date</b>	<b>Course</b>	<b>Section</b>
6	40	Hydroelectric Power Plant: Introduction, Site Selection, Advantages and Disadvantages of HEPP	28/02/2019	BMEL308	A
6	41	Hydrograph , Flow duration curve	05/03/2019	BMEL308	A
6	42	Mass Curve, Classification of HEPP with layout	06/03/2019	BMEL308	A
6	43	Nuclear Power Plants: Elements of NPP	07/03/2019	BMEL308	A
6	44	Nuclear reactor & its types	11/03/2019	BMEL308	A
6	45	fuels moderators, coolants, control rod	12/03/2019	BMEL308	A
6	46	classification of NPP, N-waste disposal	13/03/2019	BMEL308	A