

Study material to share with students

Link: [library/gcoerc/](#)

Path :-[library/gcoerc/libraryeresources/mechanical/](#)

Year	Semester	Subject Name	PPT	Videos
BE	Sem-I	CAD CAM Automation	Y	Y
		DOM	Y	Y
		Elec-I FEA	Y	Y
		Elec-II Auto Engg	Y	Y
		Elec-II EAM	Y	
		H&P	Y	Y
	Sem-II	EE	Y	
		Elec-III IE	Y	Y
		Elec-IV AMP	Y	Y
TE	Sem-I	DME-I	Y	
		HT	Y	
		MQC	Y	Y
		TM	Y	
		TOM-II	Y	
		Skill Devp		Y
	Sem-II	Metx	Y	
		MP-II	Y	
		RAC	Y	
SEME	Sem-I	MP-I	Y	Y
		MS	Y	Y
		CAMD	Y	Y
		Solid Mechanics	Y	
	Sem-II	ATD	Y	
		EEE	Y	
		Engg Meta	Y	
		TOM-I	Y	Y

Google Classroom			
Sr No	Innovative Practice	Name of Teacher	Weblink
1	Online Learning Resorce	Mr.V.J.Dhore	https://mechacademy2019.wordpress.com/
2	Google Class room	M. S. Patil	https://classroom.google.com/u/3/w/MTI5NDEwMzM2MzU2t/all
3	Google Class room	Mr. S. S.Patil/ Mr.P.P.Kudale	https://classroom.google.com/c/MTQxMjQ2MDczNDUy?cjc=bt62cbk
4	Google Class room	Mr. V. J. Kathe	https://classroom.google.com/u/1/c/MTE1NjUyNjg3NTMw
5	YouTube Channel	M. S. Patil	https://studio.youtube.com/channel/UCIMrDcaRrQctos-WYfgDJOA
6	Google Classroom	H.B.Tambat	https://classroom.google.com/c/MTE2Mjk1MDQ1ODE4?cjc=ofmfnrv
7	Google Class room	K. R. Pagar/ V. B. Sarode	https://classroom.google.com/u/0/c/MTE1NjM2MjM2MTI2
8	Google Class room	K. R. Pagar/ D. D. Patil	https://classroom.google.com/u/0/c/MTE1NjM2MjM2MTE2
9	Google Class room	Mr R S Khandare	https://classroom.google.com/u/3/c/MTUxNjg1NzA4Mjg3
10	Google Class room	K.V. Dhande	https://classroom.google.com/c/MTE4ODExNjM3MTg3?cjc=bcic2ib
11	Google Class room	K.V. Dhande	https://classroom.google.com/c/MTE1Njc3Nzg4MTM5?cjc=60dcyfy
12	Google Class room	H.B.Tambat/S.V.Shinde	https://classroom.google.com/u/1/c/MzQ3MDMwNDEzMDI4
13	Google Class room	M.S.Patil/ H.B.Tambat	https://classroom.google.com/u/1/c/MzQyODQyNjkyNzQy
Youtube Channel List			
1	YouTube Channel	Mr.D.P.Chavan	https://www.youtube.com/channel/UCBSQn8-Ncx7VTd0Lc4-Xocw
2	Youtube Channel	Mr.P.P.Kudale	https://youtube.com/channel/UCxL338zvuOdhXryAM7z7X8w

NPTEL VIDEOS

Sr. No	SubJect	Link
1	Heat Transfer:-	https://nptel.ac.in/courses/103/105/103105140/
2	Energy Engineering	https://nptel.ac.in/courses/112/107/112107291/
3	RAC	https://nptel.ac.in/courses/112/105/112105129/
4	CAD CAM Automation	https://nptel.ac.in/courses/112/102/112102101/
5	DOM	https://nptel.ac.in/courses/112/104/112104114/
6	MQC	https://nptel.ac.in/courses/112/106/112106179/
7	TM	https://nptel.ac.in/courses/112/106/112106200/
8	DME-I	https://nptel.ac.in/courses/112/105/112105125/
9	Metx	https://nptel.ac.in/courses/112/103/112103174/
10	SOM	https://nptel.ac.in/courses/105/105/105105108/
11	ATD	https://nptel.ac.in/courses/112/103/112103262/
12	FM	https://nptel.ac.in/courses/112/105/112105171/
13	NMO	https://nptel.ac.in/courses/111/107/111107105/
14	FEA	https://nptel.ac.in/courses/112/104/112104193/

Guru Gobind Singh College of Engineering & Research Centre, Nashik
Department of Mechanical Engineering
List of Charts

Sr. No.	Name of Charts	Name of Lab
1	Types of Pivot Bearing	TOM
2	Single Plate Clutch	
3	Multiplate clutch	
4	Cone Clutch	
5	Centrifugal Clutch	
6	Gear tooth terminology	
7	Cam & Follower terminology	
8	Equipment and Tools	WS
9	Instructions and Safety Rules	
10	Safety Instruction Charts	
11	Fire Action	CCA
12	Shape Function	
13	Types of Elements	
14	Pascal Triangle	
15	3D Printing System	
16	Final Product Prepared on Ansys & MasterCAM	
17	Introduction to Finite Element Analysis	
18	Meshing Techniques	
19	Stereolithography	
20	Computer Integrated Manufacturing (CIM)	
21	Principles of FEA	
22	Modules Available in CAD/CAM	
23	Flowchart of Basic Steps in FEA	
24	Thermal Power Plant	
25	VCR Engine Set up	RAC
26	Multi Cylinder Test Engine Set up	
27	psychometric chart	
28	summer air conditioning system with outdoor air for ventilation and non zero bypass factor	
29	single stage vapor compression refri system with two evaporators/ multi evaporator refri system with single compressor and individual expansion valve	
30	vapour compression/ absorption refrigeration system	
31	cooling and humidification process	
32	carnot cycle of refrigeration	
33	actual vapour compression refrigeration cycle	
34	comparison cycle with and without LSHX	
35	basic vapor absorption refri system with solution heat exchanger on pressure vs temperature diagram	
36	various psychometric process that can take up with air washer	
37	refrigeration circuit of small diffusion absorption (platen munters) system	
38	axial flow compressor	

39	pressure compounded steam turbine	
40	two stage velocity compounded steam turbine	
41	francis turbine velocity triangle	
42	governing of francis turbine	
43	francis turbine	
44	governing of pelton turbine	
45	impulse turbine velocity diagram	
46	pelton wheel	
47	layout of coal based thermal power plant	
48	refrigerant charts	
49	simple 100% recirculation type air conditioning system	
50	heating-humidification, coolong-dehumidification, sensible cooling, sensible heating process	TM
51	multi evaporator with individual compression and multiple expansion valve	
52	two stage vapour compression refrigeration system with flash tank used for intercooling only /	
53	automatix expansion valve	
54	two stage cascade refrigeration system	
55	Loeffler Boiler	
56	Jet Condensers	
57	Surface Condensers	
58	Combind Separating & Throttling Calorimeter	
59	Throttling Calorimeter	
60	Four Stroke Cycle	TD
61	Types of couplings	
62	Types of gears	
63	Types of bearings	
64	Various types of valves	
65	Cochran Boiler	
66	DAS System	
67	PLC System	MTX
68	PID System	
69	Buoyancy and archimedis Principle	
70	Simple Manometer	
71	orificesmeter	
72	venturimeter	
73	Differential Manometer	FM
74	Bernoullis Principle	
75	Viscosity	
76	Pitot Tube	
77	Boundary Layer	
78	Steels Classification Chart	
79	Iron Carbon Phase Diagram	META
80	Optical Metallurgical Microscope	
81	Optical Metallurgical Microscope Principal	
82	Types of Vibration	
83	Types of Vibration Isolation	
84	Human Ear System	
85	Types of Microphone	DOM
86	Sound Level	
87	Transmisibility	
88	Types/ Cases of Damping	
89	Pin Fin Apparatus Chart	
90	Force Convection Apparatus Chart	HT
91	Emissivity Apparatus Chart	
92	Critical Heat Flux Apparatus Chart	

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List of Miniprojects

Sr. No.	Title of Mini projects
1	Assembly and Disassembly of Multiplate Clutch
2	Robert's Straight Line Mechanisms
3	Elliptical Trammel
4	Grasshopper Mechanism
5	Assembly and Disassembly of Centrifugal Clutch
6	Watt's Straight Line Mechanisms
7	Band & Shoe Brake
8	Compound & Connecting Rod
9	Toggle Mechanisms
10	Multiplate Clutch Details
11	Eccentric Power Transmission with Variable Speeds
12	Crank & Slotted Lever Quick Return Mechanisms
13	Double Slider Crank Chain Mechanism
14	Clutch Plate Dis-Assembly
15	Battery Coil Ignition system