

3rd Semester

THEORY

SUBJECT CODE

SUBJECTS

- * TH-1 Engineering Mathematics - III
- * TH-2 Circuit & Network Theory
- * TH-3 Elements of Mechanical Engg
- * TH-4 Electrical Engg. Material
- * TH-5 Environmental Studies

PRACTICAL

SUBJECT CODE

SUBJECT

- PR-1 Mechanical Engg Lab
- PR-2 Circuit & Simulation Lab
- PR-3 Mechanical Workshop

* ENGINEERING MATHEMATICS - III *

* 3rd SEM *

Engineering Mathematics-III

SL NO.	LECT. NO.	LECT	DETAILS	Date	status
1	1.1	↑ Number ↓ Complex ↓	Real & Imaginary numbers	12.9.22	Completed
2	1.2		complex numbers, conjugate	13.9.22	Completed
			complex numbers, Modulus of		
			complex number.		
3	1.3		Geometrical representation	14.9.22	Completed
4	1.4		properties	15.9.22	Completed
5	1.5		Three cube roots of unity	19.9.22	Completed
6	1.6	De Moivre's theorem	20.9.22	Completed	
7	1.7	Numericals	21.9.22	Completed	
8	2.1	↑ Matrix ↓	Rank of matrix	22.9.22	Completed
9	2.2		state Rouché's theorem	23.9.22	Completed
10	2.3		Three unknowns testing consistency.	24.9.22	Completed
11	2.4		problems	26.9.22	Completed
12	3.1	↑ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Homogeneous & Non-homogeneous	27.9.22	Completed
13	3.2		Find Y.C.F & Y.P.I	28.9.22	Completed
14	3.3		Derive rules for Y.C.F & Y.P.I	29.9.22	Completed
15	3.4		Find Y.P.I by $N/P(D)$	30.9.22	Completed
16	3.5		Partial Differential eq ⁿ	10.10.22	Completed
17	3.6		Form P.D.E by elimination.	11.10.22	Completed
18	3.7		Solve P.D.E	12.10.22	Completed
19	3.8		do	13.10.22	Completed
20	3.9		problem ON P.D.E & L.D.E	14.10.22	Completed
21	3.10		do	15.10.22	Completed
22	4.1	↑ ↓ ↓ ↓ ↓	Define Laplace Transform	17.10.22	Completed
23	4.2		Define Gamma fun ⁿ	18.10.22	Completed
24	4.3		Find $\Gamma(1/2) = \sqrt{\pi}$	19.10.22	Completed
25	4.4		Inverse Laplace & L.T	20.10.22	Completed
26	4.5		Existence of L.T &	21.10.22	Completed
			condition.		

ENGG. MATHEMATICS - III
* * *

3rd sem

SLNo.	LECT. No	LECT.	DETAILS	Date	status	
27	4.6	↑	Linear properties	22.10.22	comple ted	
28	4.7		The shifting properties	25.10.22	comple ted	
29	4.8		L.T of derivatives, Integral	26.10.22	comple ted	
30	4.9		Multiplication t ⁿ & deriv ⁿ by t.	27.10.22	comple ted	
31	4.10		Derive . DLT	28.10.22	comple ted	
32	4.11		Method of partial fraction	29.10.22	comple ted	
32	4.12		problems ON L.T.	1.11.22	comple ted	
					comple ted	
					co	
34	5.1	↑	Define periodic fun ^s .	2.11.22	comple ted	
35	5.2		Dirichlet's condition & it's convergences	3.11.22	comple ted	
36	5.3		do	4.11.22	comple ted	
37	5.4	↓	Express f(x) as a Fourier series	7.11.22	comple ted	
38	5.5		Define odd & even fun ^s & it's fourier series.	9.11.22	comple ted	
			do			
38	5.6	↑	F.S of continuous functions	10.11.22	comple ted	
39	5.7		F.S of dis. continuity fun ^s	14.11.22	comple ted	
				do		
40	5.8		Numerical methods ↓	do	15.11.22	comple ted
41	5.9			Numericals	16.11.22	comple ted
42	5.10			do	17.11.22	comple ted
43	6.1	↓	Analytic methods of Algebraic eq ^s	21.11.22	comple ted	
44	6.2		Bisection method	22.11.22	comple ted	
45	6.3		Newton - Raphson method.	23.11.22	comple ted	
46	6.4		Numerical.	24.11.22	comple ted	

S.L.No.	LECT.NO.	LECT.	DETAILS	DATE	STATUS
47	7.1	Interpolation	Difference bet ⁿ forward & backward difference	28-11-22	Completed
48	7.2		do	29-11-22	Completed
49	7.3		shift operator	30-11-22	Completed
50	7.4		Relationship bet ⁿ E & difference operator (A)	1-12-22	Completed
51	7.5	difference	Numerical Integration Definator	5-12-22	Completed
52	7.6		Newton's cote's formula	6-12-22	Completed
53	7.7		Trapezoidal rule	7-12-22	Completed
54	7.8	Finite	Simpson's 1/3rd rule	8-12-22	Completed
55	7.9		do	12-12-22	Completed
56	7.10		Numerical of forward & backward difference	13-12-22	Completed
57					
58	7.11	↓	Numerical on Newton's cote's formula,	14-12-22	Completed
59					
60	7.12		Langrange's interpretation formula for unequal intervals,	15-12-22	Completed

* ELECTRICAL
ENGINEERING
MATERIAL *

* 3rd SEM *

Electrical Engineering material (EEM)

3rd Sem

SNo	Lect No	Topic	Lect details	Date	Status
1	1/1	Conducting material	Introduction	12/9/22	Completed
	1/1	Resistivity	Resistivity, factors affecting resistivity	13/9/22	Completed
	1/2		classification of conducting materials resistivity materials	18/9/22	Completed
	1/3		Low resistivity Materials and their Application (Copper, silver, gold, Aluminium, steel)	19/9/22	Completed
	1/4		Stranded conductors	20/9/22	Completed
			Bundled conductors	20/9/22	Completed
	1/5		Low resistivity copper alloys	24/9/22	Completed
	1/6		High Resistivity Materials and their Applications (Tungsten, Carbon, platinum, mercury)	26/9/22	Completed
	1/7		Superconductivity	27/9/22	Completed
	1/8		Superconductivity materials	29/9/22	Completed

		1/9	Application of Superconducting materials	29/9/22	Completed
2	1/1	Semi Conducting materials	Introduction	10/10/22	partially comp
	1/2		Semiconductors	11/10/22	Completed
	1/3		Electron energy and Energy band theory	13/10/22	Completed
	1/4		Excitations of atoms	17/10/22	Completed
	1/5		Insulators, Semi conductors and conductors	18/10/22	Completed
	1/6		Semi Conductor Material	20/10/22	partially comp
	1/7		"	28/10/22	"
	1/8		"	22/10/22	"
	1/9		Covalent bonds	31/10/22	Completed
	1/10		Intrinsic Semi conductors	10/11/22	Completed
	1/11		Extrinsic Semi conduction	2/11/22	Completed
	1/12		N-type Materials	3/11/22	Completed
	1/13		P-type Materials	4/11/22	Completed

1/14		Minority and Majority Carriers	8/11/22	Comp
1/15		Semi-conductors Materials	9/11/22	Comp
1/16		Applications of Semiconductor materials	10/11/22	Comp
		(1) Rectifiers		
		(2) Temperature Sensitive resistors or thermistors	11/11/22	Comp
1/17		(3) photo conduction cell	12/11/22	Comp
		(4) photo V. Voltic cells	15/11/22	Comp
		(5) Varistors		
		(6) Transistors		
		(7) Hall effect		
		(8) Solar power	16/11/22	Comp
3	Insulating material	Introduction General properties of insulating materials	17/11/22	Comp
		• Electrical properties	18/11/22	Comp
		• Visual properties		
		• Mechanical properties		
		• Thermal properties		
		• chemical properties		
		• Aging		

	1/2		Insulating materials	21/11/22	Complete
	1/3		Introduction	24/11/22	Complete
	1/4		Classification of insulating material on the basis of physical and chemical structure	23/11/22	Complete
	1/5			29/11/22	Complete
	1/6			20/11/22	Complete
	1/7		Insulating Gases	24/11/22	Complete
			(i) Introduction	24/11/22	Complete
			(ii) Commonly use insulating gases	30/11/22	Complete
4	1/1	Dielectric Materials	Introduction	1/12/22	(Complete)
	1/2		Dielectric Constant of Permittivity	2/12/22	Complete
	1/3		Polarization	3/12/22	Complete
	1/4		Dielectric loss	8/12/22	Complete
	1/5		Electric Conductivity of Dielectric and their Break down	6/12/22	Complete

	116	Properties of dielectrics	9/12/22	Completed
	117	Application of Dielectrics	9/12/22	Completed
5	111	Magnetic Materials		
		Magnetic Introduction	10/12/22	Completed
	112	Classification	12/12/22	Completed
	113	Diamagnetism	14/12/22	Completed
	114	Paramagnetism	15/12/22	Completed
	115	Magnetization Curve	16/12/22	Completed
	116	Hysteresis	18/12/22	Completed
	117	Eddy Currents	20/12/22	Completed
	118	Curie point	24/12/22	Completed
	119	Magnetostriction	23/12/22	Completed
	1110	Soft and hard magnetic Materials	24/12/22	Completed
	1111	Soft magnetic materials	26/12/22	Completed
	1112	Hard magnetic materials	30/12/22	Completed

6	111	Methods for special purpose	Introduction	12/1/23
	112		Structure materials	13/1/23
	113		protective Materials	14/1/23
	114		• Lead • Steel tubes, wires and strips	17/1/23
	115		Other Methods	18/1/23
	117		thermo-couple material Bimetals	19/1/23
	118		Soldering Materials fuse and fuse materials	20/1/23
	119		Dehydrating material	21/1/23

* ENVIRONMENTAL

* 3rd SEM *

STUDIES *

ENVIRONMENTAL * STUDIES

3rd sem

Sl NO.	Lect No.	Topic	Lecture Details	Date	Status
1.	1/1	Multi-disciplinary	Defination, Scope	13.9.2022	Completed Completed
2.	1/2	Nature of environmental studies	Importance	14.9.2022	Completed
3.	1/3	"	Need for Public Awareness	16.9.2022	Continue
4.	1/4	"	- do -	20.9.2022	Completed
5.	2/5	Renewable R E	Natural resources & associated Problem	22.9.2022	Completed
6.	2/6	S O	Forest resource	23.9.2022	Completed
7.	2/7	U R	Water resource	27.9.2022	Completed
8.	2/8	C E	Mineral resource	29.9.2022	Completed
9.	2/9	S &	Food Resource	30.9.2022	Completed
10.	2/10	Non R	Energy resource	11.10.2022	Completed
11.	2/11	E N	Land resource	12.10.2022	Completed
12.	2/12	E W A	Role of individual in conservation of natural resources	13.10.2022	Continue
13.	2/13	B L	- do -	14.10.2022	Completed
14.	2/14	E Sources	Equitable use of resources for Sustainable life styles	18.10.2022	Completed

ENVIRONMENTAL STUDIES

Sl No.	Lect. No.	Topic	Lecture Details	Date	Status
15	2/15	↑	Concept of eco system	19.10.2022	Completed
16	2/16	S Y	Structure and future of an eco system	20.10.2022	Completed
17	2/17	S T	Producers, consumers, Decomposers.	21.10.2022	Completed
18	2/18	E	Energy flow in the eco system.	25.10.2022	Completed
19	2/19	M	Ecological succession	27.10.2022	"
20	2/20	S	Food chains, Food webs and ecological Pyramids.	28.10.2022	Continue
21	2/21	↓	- do -	1.11.2022	Completed
22	2/22	↓	Characteristics	2.11.2022	Completed
23	2/23	↓	Forest ecosystem	3.11.2022	Completed
24	2/24	↓	Aquatic eco system	4.11.2022	Completed
25	3/25	↑	Bio - Introduction, Defination	5.11.2022	Continue
26	3/26	diversity	- do -	9.11.2022	Completed
27	3/27	and	Biogeographically Classification	10.11.2022	Continue
28	3/28	etc	- do -	11.11.2022	Completed
29	3/29	Conser-	Value of Biodiversity	15.11.2022	Continue
30	3/30	vation	- do -	16.11.2022	Completed
31	3/31	↓	Biodiversity at global	17.11.2022	Completed
32	3/32	↓	National & local level.	18.11.2022	Completed
33	3/33	↓	Threats to biodiversity.	22.11.2022	Continue
34	3/34	↓	- do -	23.11.2022	

Sl. No.	Lect. No.	Topic	Lecture Details	Date	Status
35	4/35	↑ E N ↓ I R O	Air Pollution	24.12.2022	Continue
36	4/36		- do -	25.12.2022	Completed
37	4/37		Water Pollution	29.12.2022	Continue
38	4/38		- do -	30.12.2022	Completed
39	4/39		Soil Pollution	1.12.2022	Completed
40	4/40	N M	Marine Pollution	2.12.2022	Completed
41	4/41	E N	Noise Pollution	6.12.2022	Completed
42	4/42	T A	Thermal Pollution	8.12.2022	Completed
43	4/43	L	Nuclear Pollution	14.12.2022	Completed
44	4/44	P O ll	Solid Waste Management	16.12.2022	Completed
45	4/45	U T	Role of an individual in prevention of pollution.	20.12.2022	Completed
46	4/46	I O N	Disaster Management	21.12.2022	Completed
47	5/47	↑ Human Population	Population growth and variations among nations.	22.12.2022	Completed
48	5/48	and the environ-	Population explosion - Family welfare program.	27.12.2022	Completed
49	5/49	ment	Environment & human health	29.12.2022	Continue
50	5/50		- do -	30.12.2022	Completed
51	5/51		Human rights	3.1.2023	Continue
52	5/52		- do -	4.1.2023	Completed
53	5/53	↓	Value education.	5.1.2023	Completed

Sl No.	Lect No.	Topic	Lecture Details	Date	Status
54	6/54	Social Issues	From unsustainable to sustainable development	10.1.2023	Completed
55	6/55	a n d	Urban problems related to energy.	12.1.2023	Completed
56	6/56	the E N	Water conservation, rain water harvesting Environmental ethics	13.1.2023	Completed
57	6/57	V I R D	Climate Change, global warming and nuclear accidents.	17.1.2023	Completed
58	6/58	N M	Air Act	18.1.2023	Completed
59	6/59	E N T	Water Act	19.1.2023	Completed
60	6/60		Public awareness	20.1.2023	Completed

CIRCUIT & NETWORK THEORY
3rd SEM :-

CIRCUIT & NETWORK THEORY

3rd Sem

SL. NO	LECT. NO	TOPIC	LECTURE DETAILS	DATE	STATUS
1	1/1	M A G N E T I C	Introduction	2/9/22	Completed
2	1/2		Magnetising force, Intensity MMF, flux & relations	5/9/22 6/9/22	Continue Completed
3	1/3		Permeability, reluctance and permeance	7/9/22 9/9/22	Continue Completed
4	1/4		Analogy between electrical and magnetic circuits	12/9/22 13/9/22	Continue Completed
5	1/5		B-H curve	14/9/22	
6	1/6		Series & parallel magnetic circuit.	16/9/22 19/9/22	Continue Completed
7	1/7		Hysteresis Loop	20/9/22	Completed
8	2/1	C O U P L E D	Self inductance & mutual inductance	21/9/22 23/9/22	Continue Completed
9	2/2		Conductively coupled circuit & mutual impedance.	26/9/22 27/9/22	Cont. Completed
10	2/3		Dot convention	28/9/22	Completed
11	2/4	C I R C U I T	Coefficient of coupling	30/9/22	Completed
12	2/5		Series & parallel connection of coupled inductors & some applications	10/10/22 11/10/22 12/10/22	Cont. Cont. Completed
13	3/1	Circuit elements	Active, passive, unilateral & bilateral, linear & Non linear elements	14/10/22 17/10/22 18/10/22	Cont. Cont. Completed
14	3/2		mesh Analysis, mesh & equations by inspection.	19/10/22 21/10/22	Cont. Completed
15	3/3		Super mesh Analysis	25/10/22	Completed
16	3/4	Analysis	Nodal Analysis, Nodal equations by inspection	26/10/22 28/10/22	Cont. Completed
17	3/5		Super node Analysis	31/10/22	Completed
18	3/6		Super transformation technique & applications	1/11/22 2/11/22	Cont. Completed

19	4/1		Star to delta & delta to star transformation	4/11/22	Cont.
20	4/2	Network	Superposition Theorem	7/11/22	Completed
21	4/3	Theorems	Thvenin's Theorem	11/11/22	Completed
22	4/4		Norton's Theorem	15/11/22	Completed
23	4/5		Maximum power transfer theorem.	16/11/22	Cont.
24	4/6		Non-practical Problems.	18/11/22	Completed
25	5/1	A	A.C through R-L, R-C, R-L-C Circuits.	22/11/22	Cont.
26	5/2	C	Non-practicals of A.C through R-L, R-C, R-L-C Series circuit by complex algebra method.	23/11/22	Completed
27	5/3	C R C V T	Non-practicals of A.C through R-L, R-C, R-L-C parallel & composite circuits.	25/11/22	Cont.
28	5/4	&	Power factor & power triangle.	29/11/22	Completed
29	5/5	R E J	Reduce expression for active, reactive, apparent power.	30/11/22	Completed
30	5/6	O N A N	Derive the resonant frequency of series resonance & parallel resonance circuits.	3/12/22	Completed
31	5/7	C E	Define bandwidth, selectivity & Q-factor in series circuits.	6/12/22	Completed
32	5/8		Non-practicals Problems.	7/12/22	Completed
				9/12/22	Completed

33	6/1	POLY P H A S E C I R C U I T S	Concept of poly phase system & phase sequence	12/12/22	Completed
34	6/2		Relation bet ⁿ phase & line quantities in star & delta connection	13/12/22	Completed
35	6/3		Power equation in 3 phase balanced ckt.	14/12/22	Completed
36	6/4		Numerical problems	16/12/22	Completed
37	6/5		Measurement of 3- ϕ power by two-wattmeter method.	17/12/22	Completed
38	6/6		Numerical problems.		
39	7/1	T R A N S I E N T S	Steady state & transient state response.	20/12/22	Completed
40	7/2		Response to R-L, R-C & R-L-C circuit under DC condition.	21/12/22	Completed
41	7/3		Numerical problems.	23/12/22	Completed
42	8/1	T W O	open circuit Impedance (Z) parameters.	26/12/22	Completed
43	8/2		Short circuit admittance (Y) parameters.	27/12/22	Completed
44	8/3	P O R T	Transmission (ABCD) parameters.	28/12/22	Completed
45	8/4		Hybrid (h) parameter.	30/12/22	Completed
46	8/5	N E T W O R K S	Inter relationship of different parameters.	2/1/23	Completed
47	8/6		T&T representation	3/1/23	Completed
48	8/7		Numerical problems.	4/1/23	Completed

49	9/1	Define filter	5/1/23	Completed
50	9/2	Classification of Pass band, Stop band & cut-off frequency	6/1/23	Cont.
51	9/3	Classification of filters.	7/1/23	Completed
52	9/4	Constant K -low pass filter.	10/1/23	Cont.
53	9/5	Numericals on constant K low pass filter.	11/1/23	Comp.
54	9/6	Constant- K high pass filter.	12/1/23	Cont.
55	9/7	Numericals on constant- K high-pass filter.	13/1/23	Comple
56	9/8	Constant- K Band-pass filter.	16/1/23	Comple
57	9/9	Numericals on Constant- K band pass filter.	17/1/23	Comple
58	9/10	Constant- K Band elimination filter.	18/1/23	Comple
59	9/11	Numericals on constant- K Band elimination filter.	20/1/23	Comp.
60	9/22	Overall discussion & numerical practice.	21/1/23	Comple

* ELEMENTS OF MECHANICAL ENGINEERING *

* 3rd Sem *

ELEMENTS OF MECHANICAL ENGG

3rd Sem

SL No	LECT. NO.	TOPIC	DETAILS	Date	Status
1	1.1	THERMODYNAMICS	Unit of Heat & Work	12/9/22	Comp
2	1.2		1st Law of thermodynamic	13/9/22	Comp
3	1.3		do	15/9/22	Comp
4	1.4		Laws of perfect gases.	19/9/22	Comp
5	1.5		Relationship of specific heat & pressure	20/9/22	Comp
6	1.6		←	do	22/9/22
7	2.1	Properties of steam	Use steam table for sol ⁿ for problem	23/9/22	Comp
8	2.2		do	26/9/22	Comp
9	2.3		do	27/9/22	Comp
10	2.4		Heat of wet, Dry	29/9/22	Comp
11	2.5		↓	super heated steam	10/10/22
12	3.1	Boiler	Types of Boilers	11/10/22	Comp
13	3.2		do	13/10/22	Comp
14	3.3		Cochran	17/10/22	Comp
15	3.4		do	18/10/22	Comp
16	3.5		Babcock Wilcox boiler	20/10/22	Comp
17	3.6		do	25/10/22	Comp
18	3.7		do	27/10/22	Comp
19	3.8		Mountings	31/10/22	Comp
20	3.9		do	2/11/22	Comp
21	3.10		↓	Accessories	3/11/22
22	4.1	Steam Engine	Simple steam Engine explanation	4/11/22	Comp
23	4.2		do	5/11/22	Comp
24	4.3		do	7/11/22	Comp
25	4.4		Indicator diagram	9/11/22	Comp
26	4.5		do	10/11/22	Comp
27	4.6		↓	Mean effective pressure.	11/11/22

S.No.	LECT. NO	TOPIC	DETAILS		
28	4.7	steam engine	IHP & BHP	12/11/22	Comp
29	4.8		do	15/11/22	Comp
30	4.9		Mechanical efficiency	16/11/22	Comp
31	4.10		simple problems	17/11/22	Comp
32	5.1		steam turbines	state types of turbines	18/11/22
33	5.2	do		19/11/22	Comp
34	5.3	do		21/11/22	Comp
35	5.4	Impulse & reaction turbine		22/11/22	Comp
36	5.5	do		23/11/22	Comp
37	5.6	do		24/11/22	Comp
38	6.1	Condenser	Fun ⁿ of condenser	25/11/22	Comp
39	6.2		do	28/11/22	Comp
40	6.3		Types of condenser	29/11/22	Comp
41	6.4		do	30/11/22	Comp
42	7.1	I.C Engine	Working of two strokes	1/12/22	Comp
43	7.2		Working of 4 strokes petrol & diesel engine	2/12/22	Comp
44	7.3		do	3/12/22	Comp
45	-		do	5/12/22	Comp
45	7.4		difference bet ⁿ them	6/12/22	Comp
46	8.1	Hydrostatics	properties of fluid	7/12/22	Comp
47	8.2		do	8/12/22	Comp
48	8.3		pressure at a point & measuring instrument	9/12/22	Comp
49	8.4			10/12/22	Comp
50	8.5		Numericals	12/12/22	Comp

S.No.	LECT. NR.	TOPIC	DETAILS	DATE	STATUS
51	9.1	Hydro-kinetics	Equations of continuity of flow	10/1/23	Comp
52	9.2		Energy of flowing liquid	11/1/23	Comp
53	9.3		do	12/1/23	Comp
54	9.4		do	13/1/23	Comp
55	9.5		Bernoulli's theorem	15/1/23	Comp
56	10.1	Hydraulic device & Pneumatics	Intensifier	17/1/23	Comp
57	10.2		Hydraulic lift	18/1/23	Comp
58	10.3		do	19/1/23	Comp
59	10.4		Accumulators	20/1/23	Comp
60	10.5		Hydraulic ram	21/1/23	Comp

CIRCUIT & SIMULATION LAB
* 3rd SEM

CIRCUIT & SIMULATION LAB

No	LECT. NO.	TOPIC	DETAILS	DATE	STATUS
1	1.1	↑ Exp-1 ↓	Demonstration on Measurement of Equivalent resistance in series and parallel circuit.	13/9/22	Comp
2	1.2		practical on Measurement of Equivalent resistance in series and parallel circuit.	14/9/22	Comp
3	1.3		Observation and Record work.	20/9/22	Comp
4	2.1	↑ Exp-2 ↓	Demonstration on Measurement of power and power factor using R-L-C load.	21/9/22	Comp
5	2.2		practical on measurement of power and power factor using R-L-C load.	27/9/22	Comp
6	2.3		Observation and Record work.	28/9/22	Comp
7	3.1	↑ Exp-3 ↓	Demonstration on Verification of KCL and KVL.	11/10/22	Comp
8	3.2		practical on Verification of KCL and KVL.	12/10/22	Comp
9	3.3		Observation and Record work	18/10/22	Comp
10	4.1	↑ Exp-4 ↓	Demonstration on Verification of Super position theorem.	19/10/22	Comp
11	4.2		practical on verification of super position theorem	25/10/22	Comp
12	4.3		Observation and Record work.	26/10/22	Comp

NO.	LECT. NO.	TOPIC	DETAILS	DATE	STATUS
13	5.1	Exp-5	Demonstration on verification of		
	5.2		Thevenin's Theorem	12/11/22	Comp
14	5.2		practical on verification of		
			Thevenin's Theorem.	19/11/22	Comp
15	5.3		Observation and Record work	26/11/22	Comp
16	6.1	Exp-6	Demonstration on verification of		
	6.2		Norton's theorem.	12/12/22	Comp
17	6.2		practical on verification of		
			Norton's theorem.	12/12/22	Comp
18	6.3		Observation and Record work.	14/12/22	Comp
19	7.1	Exp-7	Demonstration on verification of		
	7.2		Maximum power transfer Theo-		
			rem.	16/12/22	Comp
20	7.2		practical on verification of M.P.		
			T.T.	17/12/22	Comp
21	7.3		Observation & Record work	19/12/22	Comp
22	8.1	Exp-8	Demonstration on determine		
	8.2		resonant frequency of series R-L-C ckt	20/12/22	Comp
23	8.2		practical on determine resonant frequen		
			of series R-L-C ckt	26/12/22	Comp
24	8.3		Observation and Record work	29/12/22	Comp
25	9.1	Exp-9	Demonstration on low pass filter & determine		
	9.2		cut-off frequency.		
				3/1/23	Comp
26	9.2		practical on low pass filter & determine		
			cut-off frequency.	4/1/23	Comp
27	9.3		Observation and Record work	10/1/23	Comp

LECT. NO	TOPIC	DETAILS	DATE	STATUS
10.1	Emp-10	Demonstration of study of High pass filter & determination of cut-off frequency,	11/1/20	Comp
10.2		practical on study of High pass filter & determination of cut-off frequency,	17/1/20	Comp
10.3		Observation & Record work	18/1/23	Comp

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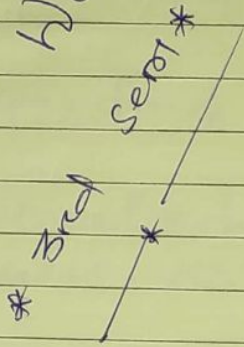
MECHANICAL ENGINEERING LABORATORY

SERIAL No.	LECTURE No.	TOPIC	DETAILS	DATE	STATUS
1	1.1	Exp-1	Demonstration on Determination of M.A, V.R. and efficiency of Screw Jack	19/9/22	Comp
	1.2		Practical	12/9/22	Comp
	1.3		Observation & Viva	26/9/22	Comp
2	2.1	Exp-2	Demonstration on Determination of friction coefficient of bearing	10/10/22	Comp
	2.2		Practical	17/10/22	Comp
	2.3		Observation & Viva	31/10/22	Comp
3	3.1	Exp-3	Demonstration on Determination of Young's modulus by Searle's Apparatus		
	3.2		Practical		
	3.3		Observation & Viva	7/11/22	Comp
4	4.1	Exp-4	Demonstration on Determination of M.A, V.R. and efficiency of wheel train		
	4.2		Practical		
	4.3		Observation & Viva	24/11/22	Comp
5	5.1	Exp-5	Demonstration on Determination of Bending Stress in beam using strain gauge.		
	5.2		Practical	28/4/22	Comp
	5.3		Observation & Viva		
6	6.1	Exp-6	Demonstration on Study of Universal Testing Machine and determination of tensile stress and Young's modulus of M.S. Specification	5/12/22	Comp
	6.2		Practical		
	6.3		Observation & Viva		

S.No	lect No.	TOPIC	DETAILS	DATE	STATUS
7	7.1	↑	Demonstration on study of pressure measuring device such as (a) Piezo-meter	5/12/22	Comp
		Exp-7	(b) Simple manometer.		
	7.2 7.3	↓	Practical Observation & Viva.		
8	8.1	↑	Demonstration on study of Venturi-meter.	12/12/22	Comp
		Exp-8	Practical		
	8.2 8.3	↓	Observation & Viva.		
9	9.1	↑	Demonstration on verification of Bernoulli's Theorem.	19/12/22	Comp
		Exp-9	Practical		
	9.2 9.3	↓	Observation & Viva.		
10	10.1	↑	Demonstration on Model study of Centrifugal Pumps, Francis, Turbine, Kaplan turbine and Pelton wheel.	26/12/22	Comp
		Exp-10	Practical		
	10.2 10.3	↓	Observation & Viva.		
11	11.1	↑	Demonstration on study of Cochran Boiler.	2/1/23	Comp
		Exp-11	Practical		
	11.2 11.3	↓	Observation & Viva.		
12.	12.1	↑	Demonstration on study of Stream Engine.	9/1/23	Comp
		Exp-12	Practical		
	12.2 12.3	↓	Observation & Viva.		

Sl No.	Test No.	TOPIC	DETAILS	DATE	STATUS
13.	13.1		Practical and practice of Exp.1, Exp2, Exp3, Exp4 and observation and Viva-voce.	16/12/22	Comp
14.	14.1		Practical and practice and observation of Exp5, Exp6, Exp7, Exp8 and Viva-voce.	16/12/22	Comp
15	15.1		Practical and practice and observation of Exp9, Exp10, Exp11, Exp12 and Viva-voce.	16/12/22	Comp

* MECHANICAL WORKSHOP *



MECHANICAL WORKSHOP

Sl. NO	LECT. NO	EXPT	DETAILS	DATE	STATUS
01	1/1		Fitting Practices	15.09.22 16.9.22	Completed
02	1/2		Preparation of caliper	26.9.22	Completed
03	1/3		Preparation of caliper	22.9.22	Completed
04	1/4		Preparation of try square	23.9.22	Completed
05	1/5		Preparation of try square	13.10.22	Completed
06	1/6		Preparation of try square	14.10.22	Completed
07	1/7		Preparation of hammer, square, hexagonal	20.10.22	Completed
08	1/8		Preparation of hammer, square, hexagonal	21.10.22	Completed
09	1/9		Preparation of hammer, square, hexagonal.	27.10.22	Completed
10	1/10		Preparation of hammer, square, hexagonal.	28.10.22	Completed
11	1/11		Preparation of hammer, square, hexagonal.	3.11.22	Completed
12	2/1		Fitting Practices.	4.11.22	Completed
13	2/2		Preparation of door ring with hook.	10.11.22	Completed
14	2/3		Preparation of door ring with hook.	11.11.22	Completed

15	2/4	Preparation of hexagonal head bolt.	17.11.22	Completed
16	2/5	Preparation of octagonal flat chisel.	18.11.22	Completed
17	3/1	carpentry Practices	24.11.22	Completed
18	3/2	cutting of slot, notch mitre & Tenon Joint	25.11.22	Completed
19	3/3	cutting of slot, notch mitre & Tenon Joint.	1.12.22	Completed
20	3/4	Preparation of single dove tail Joint.	2.12.22	Completed
21	3/5	Preparation of single dove tail joint.	8.12.22	Completed
22	4/1	welding Practices	9.12.22	Completed
23	4/2	Lap and butt Joint using Arc welding.	15.12.22	Completed
24	4/3	Lap and butt Joint using Arc welding.	16.12.22	Completed
25	4/4	Lap Joint using gas welding.	22.12.22	Completed
26	4/5	Lap Joint using gas welding.	23.12.22	Completed

27	1/6	Lap Joint using gas welding.	29.12.22	Completed
28	1/7	Lap Joint using gas welding.	30.12.22	Completed
29	1/8	Joining two non-ferrous parts through.	5.1.23	Completed
30	1/9	Joining two non-ferrous parts through.	6.1.23	Completed