ENGINEERING MATHEMATICS - II

2nd semester

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Sl No	Lect No	Module	Lecture details	Last date	Status
1	1|1	Vector Algebra	Introductory	20/3/23	Complete
2	1|2	-do-	Types of vector	21/3/23	Complete
3	1|3	-do-	Representation of vector	22/3/23	Complete
4	1|4	-do-	Magnitude and dirn of vectors	23/3/23	Partly Complete
5	1|5	-do-	Magnitude and dirn of vector	25/3/23	Complete
6	1|6	-do-	Addn and substraction of vector	27/3/23	Partly done
7	1|7	-do-	Addn and substraction of vector	28/3/23	Complete
8	1|8	-do-	position vector	29/3/23	Pic
9	1|9	-do-	position vector	31/3/23	Complete
10	1|10	-do-	Scalar product of two vector	3/4/23	Complete
11	1|11	-do-	Geometrical meaning of dot product	4/4/23	Partly Complete
12	1|12	-do-	Geometrical meaning of dot product	5/4/23	Partly Complete
13	1|13	-do-	Angle between two vector	6/4/23	Complete
14	1|14	-do-	Scalar and vector projections of two vectors	8/4/23	Complete

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Sl No	Lect No	Module	Lecture details	Lect details	Status
15	1/15	-do-	Vector product and geometrical meaning	9/4/23	Completed
16	2/1	Limits & Continuity	Definition of Function based on set theory	10/4/23	Completed
17	2/2	-do-	Types of Function	11/4/23	
18	2/3	-do-	Identity Function	12/4/23	
19	2/4	-do-	Absolute value function	13/4/23	
20	2/5	-do-	The greatest integer Function	15/4/23	
21	2/6	-do-	Trigonometric Function	17/4/23	
22	2/7	-do-	Exponential function	18/4/23	
23	2/8	-do-	Logarithmic function	19/4/23	
24	2/9	-do-	Introduction of Limit	20/4/23	
25	2/10	-do-	Existence of Limit	24/4/23	
26	2/11	-do-	Methods of evaluation Limit	25/4/23	
27	2/12	-do-	Methods of evaluation of Limit	26/4/23	
28	3/1	Derivative	Derivative of a function at a point	27/4/23	

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Sl No	Lesson No	Module	Lesson details	Lesson date	Status
34	3/2	-do-	Derivative of function at a point	28/4/23	
35	3/3	-do-	Algebra of Derivatives	01/05/23	
36	3/4	-do-	Algebra of Derivatives	02/05/23	
37	3/5	-do-	Derivative of Standard Functions x^n, a^x, $\log x$	03/05/23	
38	3/6	-do-	e^x, $\sin x$, $\cos x$, $\tan x$	06/05/23	
39	3/7	-do-	$\cot x$, $\sec x$ $\operatorname{cosec} x$,	08/05/23	
40	3/8	-do-	$\sin^{-1}x$, $\cos^{-1}x$, $\tan^{-1}x$	09/05/23	
41	3/9	-do-	$\cot^{-1}x$, $\sec^{-1}x$, $\operatorname{cosec}^{-1}x$	10/05/23	
42	3/10	-do-	Derivative of Composite functions	13/05/23	
43	3/11	-do-	Methods of differentiation I parametric functions	15/5/23	
44	3/12	-do-	parametric form	16/5/23	
45	3/13	-do-	Implicit function	17/5/23	
46	3/14	-do-	Implicit function,		
47	3/15	-do-	Logarithmic function		
48	3/16	-do-	A function with respect to another function		

Sl no	Lecture No	Chapter Name	Lecture Details	Date	Status
1.	1/1	unit of and Dimension	Physical quantities and its types	20/03/23	
2.	1/2	-do-	System of unit & Dimension	21/03/23	
3.	1/3	-do-	Dimension and its analysis (Application)	22/03/23	
4.	2/1	Scalar and Vector	Defen concept types of vectors Scalar.	24/03/23	
5.	2/2	-do-	Triangle Law and Parallelogram law of vector addition numerically	27/03/23	
6.	2/3	-do-	Resolution of vector and vector multiplication Numerical based on this	28/03/23	
7.	3/1	- Kinematics	concept of Rest and motion	29/03/23	
8.	3/2	-do-	Displacement Speed Velocity force.	31/03/23	
9.	3/3	-do-	equation of motion. circular motion.	3/4/23	
10	3/4	-do-	-do-	4/4/23	
11	3/5	Kinematic	concept of motion and projectile motion.	5/4/23	
12	3/6	-do-	-do-	10/4/23	

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SNO	Lecture NO	Chapters	Lecture Details	Date	Sign
13	4/1	work and friction	concept of work formula type of numerical.	11/4/23	
14	4/2	-do-	concept of friction types and numerical based on it.	12/4/23	
15.	4/3	-do-	Numerical.	17/4/23	
16	4/4	-do-	Laws of limiting friction co-efficient of friction.	18/4/23	
17	4/5	-do-	method of reducing friction.	19/4/23	
18	5/1	gravitation.	Newton's law of gravitation concept and statement.	21/4/23	
19	5/2	-do-	-do- (explanation)	24/4/23	
20	5/3	-do-	definition, unit & Dimension of Gravity	25/4/23	
21	5/4	-do-	concept, unit & acceleration to gravity motion. Keplers law.	26/4/23	
22	6/1	oscillation and waves	simple harmonic motion (SHM) Defination and concept simple Numerical with formula.	28/4/23	

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S. NO	Lecture NO	Chapter	Lecture Details	Date	Status
23	6/2	-do-	wave motion & its types transverse and longitudinal wave motion	1/5/23	
24	6/3	-do-	1) deferment wave parameters and theire Reaction	2/5/23	
25	6/4	-do-	Numerical based on deferment wave. Parametemic Reaction.	3/5/23	
26	6/5	-do-	Ultrasonics and Numerical Fractions	8/5/23	
27	7/1	Heat and Thermodynamics	concept of heat and temp and units.	9/5/23	
28	7/2	-do-	Specific heat latent heat change of state concept & formula)	10/5/23	
29	7/3	-do-	— do —	12/5/23	
30	7/4	-do-	Thermal expansion exten- sion of solid.	15/5/23	
31	7/5	Heat and Thermodynamics	Reaction betn α, β, γ, and Numerical work heat concept Joule mechanical equivalent of heat.	16/5/23	

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Engg Mechanics

2nd Semester

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	Lecture No	Chapter	Lecture Details	Date	Status
01	1/1	fundamentals of Engg mechanical.	Definition of mechanics, Statis Dynamics Rigid Bodies.	22/03/23	
	1/2	-do-	Force system, Definition classification of force. System according to plane & line of action.	23/03/23	
	1/3	-do-	characteristic of force & effect of force.	24/03/23	
	1/4	-do-	Principles of Transmissibility & principle of superposition.	25/03/23	
05	1/5	-do-	Action & Reaction forces & concept of free body Diagram.	29/03/23	
06	1/6	-do-	Resolution of a force Definition method of Resolution.	31/03/23	
07	1/7	-do-	Types of component forces perpendicular components & non-perpendicular components.	5/4/23	
08	1/8	-do-	COMPOSition of forces Definition Resultant force method of composition of forces.	6/4/23	

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SL NO	Lecture NO	Chapter	Lecture Details	Date	Status
09	1/9	-do-	Analytical method Parallelogram of forces & method of Resolution.	8/4/23	
10	1/10	-do-	Graphical method. Space diagram vector diagram.	12/4/23	
11	1/11	-do-	Polygon Law of forces	13/4/23	
12	1/12	-do-	Resultant of concurrent non-concurrent & parallel force system by Analytical & Graphical method.	15/4/23	
13.	1/13	-do-	moment of force Geometrical meaning of moment of a force	19/4/23	
14	1/14	-do-	measurement of moment of a force & its S.I units classification of moments according to direction of rotation.	20/4/23	
15	1/15	-do-	Sign convention Law. of moment Varigon's theorem.	21/4/23	
16	1/16	-do-	Couple - S.I units measurement of couple	26/4/23	

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S No	Lecture No	Chapter	Lecture Details	Date	Status
17	1/14	-do-	Properties of couple	27/4/23	
18					
18	2/1	Equilibrium	Definition condition of equilibrium.	28/4/23	
19	2/2	-do-	Analytical condition of equilibrium for concurr.	29/4/23	
20	2/3	-do-	Graphical condition of equilibrium for Concurrent non-concurrent & free body	3/5/23	
21	2/4	-do-	free body Diagram	4/5/23	
22	2/5	-do-	Lamia's Theorems.	6/5/23	
23	2/6	-do-	Application for saving various engineering.	10/5/23	
24	2/7	-do-	-do-	11/5/23	
25	3/1	friction	Defn of friction friction al forces.	12/5/23	
26	3/2	-do-	Limiting frictional force.	13/5/23	
27	3/3	-do-	Co-efficient of friction.	17/5/23	
28	3/4	-do-	Angle of friction & Repose.		

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Communicative English

(2nd Semester)

SC No	Lect No	Chapter	Lecture details	Date	Status
1	1/1	Reading Comprehension	SUS skills of Reading Comprehension about 200 to 500 words.	21/3/23	partly Compl
2	1/2		SUS skills of reading skimming the gist	28/3/23	Complete
3	1/3		scanning the necessary information	31/3/23	Complete
4	2/4		Close reading for Interference and evaluating	3/4/23	
5	2/5		Main idea and supporting points	4/4/23	
6	1/6		Note making summerising	8/4/23	
7	1/7		Note making summerising	10/4/23	
8	1/8		Supplying suitable title.	11/4/23	

S	Lect No	Text No	Chapter	Lecture details	Date	Sta
5	9	119		Standing of yourself	15/4/23	
	10	1110		standing of yourself	17/4/23	
	11	1111		standing of yourself	18/4/23	
5						
	12	1112		The magic of team work	21/4/23	
5	13	1113		The magic of teamwork	24/4/23	
	14	1114		The magic of teamwork	25/4/23	
5	15	1115		The magic of teamwork	28/4/23	
	16	1116		In cape of Rock	29/4/23	
5	17	117		In Cape Rock	1/5/23	
	18	1118		To my true friend	2/5/23	
	19	1119		To my true friend	6/5/23	
	20	1120		To my true friend	8/5/23	

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Sl No	Lesson No.	Chapter	Lesson details	Date	Sign
21	2/1	Vocabulary	Synonyms	9/5/23	
22	2/2	-do-	Synonyms	12/5/23	
23	2/3	-do-	Antonyms	13/5/23	
24	2/4	-do-	Antonyms	15/5/23	
25	2/5	-do-	Single word for a phrase	16/5/23	

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* COMPUTER APPLICATION *

2nd Semester

COMPUTER APPLICATION

Sl.No	Lect.No	Module	Lect. Details	Lect. Dates	Status
01	1/1	computer organisation	Introduction to computer evaluation of computer generation of computer classification of computer.	21-03-23	Partically completed
02	1/2	— do —	— do —	24-03-2	completed
03	1/3	— do —	Basic organisation of computer (functional Block diagram) input devices CPU and out Put devices	24-03-23	Partically completed
04	1/4	— do —	— do —	25-03-23	Completed
05	1/5	— do —	computer memory and class'n of memory.	28-03-23	completed
06	2/1	computer software	software concept, system software, Application software	31-03-23	completed
07	2/2	— do —	over view of operating system objectives and function of os.	4-04-23	completed
08	2/3	— do —	Types of operating system Batch Processing, multi Program time sharing os feature of dos windows & UNIX	08-04-23	completed
09	2/4	— do —	Programming language compiler interpreter computer virus.	11-04-23	completed
10	2/5	— do	diff" types of computer virus	15-04-23	completed
11	2/6	— do —	detecation and prevention of virus	18-04-23	completed

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Sl. No	Lect. No.	Module.	Lect. Details.	Lect. Date.	Status
12	2/7	-do-	Application of computer indiff" Domain	21-04-23	completed
13	3/7	computer Network & internet	Networking concept, Protocol connecting media Transmission mode	25-04-23	Partially completed
14	3/2	-do-	-do-	28-04-23	completed
15	3/3	-do-	Network topologies, types of Network	29-04-23	completed
16	3/4	-do-	Networking devices Lighob, Repeater switch, Bridge, Router, gateway & Nic	02-05-23	completed
17	3/5	-do-	Internet services like, E-mail, www	06-05-23	Complete
18	3/6	-do-	www, FTP, Chatting, Internet conferencing	09-05.23	complet
19	3/7	-do-	electronic News Paper & online shopping	12-05-23	complet
20	3/8	-do-	Diff" types of internet connectivity and ISP	13-05-23	Complete
21	4/1	file management & data Processing	concept of file and folder.	16-05-23	completed
22	4/2	-do-	file acces		

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* ENGINEERING
2nd
Chemistry

ENGG. CHEMESTRY

Sl. No.	Lect. No.	Module	Lect. Details	Lect. Date	Status
01	A/1	Atomic structure	fundamental Particles electron Proton & Neutron defination mass	20-3-23	Completed
02	A/2	-do-	Ruthenfords Atomic model Postudates and failure	21-3-23	completed
03	A/3	-do-	Atomic mass and mass Numemker nefination, example and Propenties of isotopes isobars and isotones.	22-03-23	completed
04	A/4	-do-	Bohr's Atomic model Postulates only.	24-03-23	complete
05	A/5	-do-	Bohr-Bury Scheme, Aufbaus Painciple	27-03-23	completed
06	A/6	-do-	Hund's rule Electronic configuration (upto atomic NO 30)	28-03-23	completed
07	A/7	Chemical Bonding	Definitation, types Elefrovalent covalent and co-ordinate	29-03-23	complete
08	A/8	-do-	Bond with example formation of NaCl, $mgCl_2$, H_2, Cl_2, N_2, O_2 CH_4, NH_2 & NH_4^+, SO_2	31-03-23	completed
09	A/9	-do-	Formation of NH_4^+ & SO_2	03-04-23	completed
10	A/10	Acid base Theory	Concept of Arrhenius Lowry Bronsted and Lewis theony acid and base with example	04-04-23	completed
11	A/11	-do-	Neutralization of acid and base defination of salt.	05-04-23	Completed

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Sl. No.	Lect. No.	Module	Lect. Details.	Lect. Date	status
12	A/12	-do-	Neutralization of acid and base defination of salt	10-04-23	completed
13	A/13	solutions	Defination of Atomic weight molecular weight, Equivalent weight.	11-04-23	completed
14	A/14	-do-	mores of expression of the concentration with sample problem. pH of soil	12-04-23	completed
15	A/15	Electro Chemistry	Defination and types of electrolytes with example	17-04-23	completed
16	A-16	-do-	Electrolysis with example of NaCl, fused and aqueous	18-04-23	completed
17	A/17	-do-	faraday 1st, 2nd law of electrolysis industrial application	19-04-23	completed
18	A-18	Corrosion	Defination of corrosion	21-04-23	completed
19	A-19	-do-	Types of corrosion - Atmospheric corrosion	24-04-23	completed
20	A-20	-do-	waterline corrosion	25-04-23	completed
21	A/21	-do-	mechanism of rusting of iron only.	26-04-23	completed
22	A-22	-do-	Protection from corrosion by (i) Alloying and (ii) Galvanized	28-04-23	completed

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Sl No.	Lect. No.	Module	Lect. Details	Lect. Date	Status
			INORGANIC CHEMISTRY		
23	B-1	metallurgy	Defination of mineral ones gangue with example distinction bet" ones and minerals	01.05.23	complete
24	B-2	-do-	General method of extration of metal	02.05.23	complete
25	B-3		ore Dressing	03.05.23	complete
26	B-4	-do-	concentration (Gravity sepration) magnetic sepration ; forth flotation.	04.05.23	complete
27	B-5	-do-	oxidation.	06.05.23	Complete
28	B-6	-do-	Reduction)	08.05.23	complete
29	B-7	-do-	Refining of the metal.	09.05.23	completed
30	B-8	Alloys	Defination of Alloys types of Alloys with examp!, composition and cause of Brass, Bronze.	10.05.23	completed
			Organics Chemistry		
31	C-1	Hydrocarbon	Saturated and unsaturated Hydrocarbon	12.05.23	Completed
32	C-2	-do-	Aliphatic & Aromatic Hydrocarbon	15.05.23	Complete
33	C-3	-do-	diff" bet" Aliphatic & aromatic Hydrocarbon	16-05-23	Complete

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BASIC

ELECTRICAL / ELECTRONICS ENGG

1st / 2nd Semester

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St No	Lecture No	Chapter	Lecture Details	Date	Status
				20-3-23	Completed
01.	1/1	Fundamentals	Concept of current flow. Concept of source and load.		
02.	1/2	-do-	State ohm's Law and Concept of nesistance	21-3-23	Completed
03.	1/3	-do-	Relation of V, I & R in Sercies circuit. Relation of V, I & R in Parcallel circuit.	22.3.23	Completed
04.	1/4	-do-	Division of current in Parcallel circuit. Effect of Powere in Sercies and Parcallel circuit.	24.3.23	Completed
05.	1/5	-do-	Kirchhoff's Lacw. simple Problems on Kirchhoff's Lacw.	27.3.23	Completed
06.	2/1	A.C. Theory	Generation of alternating emf. Difference befween D.C. and A.C.	28.3.23	Completed
07.	2/2	-do-	Define Amplifude, instaneous value, cycle, Time Period, frequency Phase angle, Phase differeence.	29.3.23	Completed
08.	2/3	-do-	State & Explain RMS valcue, Avercage value, Amplitude Factore and Forem Factor with simple Problems.	31.3.23	Completed

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09.	2/4	-do-	Represent AC values in Phasor diagrams.	03-04-23	completed
10.	2/5	-do-	AC through Pure resistance Inductance and capacitance.	05-04-23	completed
11.	2/6	-do-	Ac through RL, RC, RLC Series circuits	06-04-23	completed
12.	2/7	-do-	Simple problems on RL, RC, & RLC series circuits.	08-04-23	completed
13.	2/8	-do-	Concept of Power and Power factor. Impedance triangle and Power triangle.	10-04-23	completed
14.	3/1	Generation of Electrical Power	Give elementary idea on generation of electricity from thermal.	12-04-23	completed
15.	3/2	-do-	Hydro and Nuclear	13-04-23	completed
16.	3/3	-do-	Power station with block diagram.	15-04-23	completed
17.	4/1	conversion of electrical energy.	Introduction of DC machines. Main parts of DC machines.	17-04-23	completed
18.	4/2	-do-	classification of DC generator classification of DC motor.	19-04-23	completed

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19.	4/3	-do-	uses of different types of DC generatores & Motores.	20-04-23	completed
20.	4/4	-do-	Types and uses of single Phase induition motores.	24-04-23	completed
21.	4/5	-do-	concept of Lumen	26-04-23	completed
22.	4/6	-do-	Different types of Lamps its construction and Principal	27-04-23	completed
23.	4/7	-do-	stare rating of home appliances	29-04-23	completed
24.	5/1	wiring and Power Billing	Types of wiring for domestic installations.	01-05-23	completed
25.	5/2	-do-	Lay out of house hold electrical wiring.	03-05-23	completed
26.	5/3	-do-	List out the basic Protective devices used in house hold wiring.	04-05-23	completed
27.	5/4	-do-	Calculate energy consumed in a small electrical installation.	06.05.23	completed
28.	6/1	Measuring Instruments	Introduction to measuring instruments. Torques in instruments.	08.05.23	completed

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29.	6/2	-do-	Diffenent uses of PMMC type of instruments Different uses of MI type of Instruments.	10.05.23	completed
30.	6/3	-do-	Draw the connection diagram of A.C /D.C Ammeter, voltmeter, energy meter and wattmeter.	11.05.23	completed
31.	1/1	Electronic Devices	Basic concept of Electronics and its application	13.05.23	completed
32.	1/2	-do-	Basic concept of Electron Emission & its types.	15.05.23	completed
33.	1/3	-do-	Classification of material accoreding to electrical conductivity with reespect to energy band diagram only.	17.05.23	completed
34.	1/4	-do-	Difference between Intrinsic & Extrinsic Semiconducton.		
35.	1/5	-do-	Difference between vacum tube and semicenductore.		
36.	1/6	-do-	Preinciple of working and use of PN junction dicde.		
37.	1/7	-do-	zenere diode and Light Emitting diode.		

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