

Sl. No.				
1	01/01	computer organisation	Introduction to computer Evolution of computers Generation of computers Classification of computers.	21/10/24 Partially completed
2.	01/02	- do -	- do -	22/10/24 completed
3.	01/03	- do -	Basic organisation of computer Input Devices, CPU & Output Devices.	Partially completed
4.	01/04	- do -	- do -	Completed
5.	01/05	- do -	Computer memory and classification of memory	22/10/24 completed
6.	02/01	computer Software	Software concept, System Software, Application Software	23/10/24 completed
7.	02/02	- do -	Overview of operating system objectives and functions of O.S.	3/11/24 completed
8.	02/03	- do -	Types of operating system: Batch Processing, Multiprogramming, Time sharing OS.	5/11/24 completed
9.	02/04	- do -	Features of DOS, windows & UNIX	6/11/24 completed
10.	02/05	- do -	Programming Languages Compiler, interpreter computer virus	20/11/24 completed

11.	02/06	computer software	Different Types of computer virus. Detection and prevention of virus.	11/11/21	completed
12.	02/07	- do -	Application of computers in different Domain	14/11/21	completed
13.	03/01	computer Network And Internet.	Networking concept, Protocol, connecting Media, Data Transmission mode.		completed
14.	03/02	- do -	Network Topologies, Types of Network.	15/11/21	completed
15.	03/03	- do -	Networking Devices like Hub, Repeater, Switch. E-Mail WWW. FTP Chatting internet Conferencing	14/11/21	
16.	03/04	- do -	- do -		completed
17.	03/05	- do -	Electronic Newspaper & online shopping.	17/11/21	completed
18.	03/06	- do -	- do -	18/11/21	
19.	03/07	- do -	Different types of Internet connectivity and ISP	20/11/21	completed
20.	03/08	- do -	- do -		Partially completed

21	04/01	File Management and data Processing	Concept of file and folder	21/11/24	Partially completed
22	04/02	- do -	- do -	3/10/24	completed
23	04/03	- do -	File Access and Storage methods, Sequential, Direct, ISAM	24/11/24	completed
24	04/04	- do -	Data capture, Data storage	10/12/24	completed
25	04/05	- do -	Data Processing and Retrieval	11/12/24	Partially completed
26	05/07	Problem Solving Methodology	Algorithm, Pseudo code and Flowchart Generation of Programming Languages	13/12/24	Partially completed
27	05/02	- do -	- do -		completed
28	05/03	- do -	Structured Programming Language	16/12/24	completed
29	05/04	- do -	- do -		completed
30	05/05	- do -	Examples of Problem Solving through Flowchart	16/12/24	Partially completed

31.	06/01	Overview of C Programming Language	Constants, variables and Data types in C Managing input and output operations	17/12/21	Partially completed
32.	06/02	- do -	- do -		completed
33.	06/03	- do -	Operators, Expressions, Type conversion & Typecasting	17/14/21	completed
34.	06/04	- do -	- do -		completed
35.	06/05	- do -	Decision control and Looping Statements (if, if-else-if, switch, While Do-While, for, Break, continue & Goto)	18/14/21	completed
36.	06/06	- do -	- do -	23/12/21	completed
37.	06/07	- do -	- do -	23/12/21	completed
38.	06/08	- do -	- do -	23/12/21	completed
39.	06/09	- do -	- do -		completed partially
40.	06/10	- do -	- do -	24/12/21	completed
41.	06/11	- do -	Programming Assignments using the above features.	24/12/21	completed
42.	06/12	- do -	- do -	29/12/21	completed

43	06/13	-do-	-do-	30/12/21	Completed
44	06/14	-do-	-do-		Completed
45	06/15	-do-	-do-	30/12/21	Partially completed
46	07/01	Advanced features of C	Functions and Passing Parameters to the function (call by value and call by Reference) Scope of variables and Storage classes		Partially completed
47	07/02	-do-	-do-	7/11/22	Completed
48	07/03	-do-	-do-		Completed
49	07/04	-do-	Recursion function and Types of Recursion are Dimensional.	7/11/22	Completed
50	07/05	-do-	-do-		Completed
51	07/06	-do-	-do-	8/11/22	Completed
52	07/07	-do-	One Dimensional Array and Multidimensional Array		Completed
53	07/08	-do-	-do-	02/12/22	Completed
54	07/09	-do-	-do-		Partially completed

55	07/10	-do-	String Operations and Pointers	17/11/22	partially completed
56	07/11	-do-	-do-	19/11/22	completed
57	07/12	-do-	-do-		partially completed
58	07/13	-do-	Pointer Expression and Pointer Arithmetic Programming Assignments using the above features. Structure and union (only concepts, No programming)	20/11/22	partially completed
59	07/14	-do-	-do-	27/11/22	completed
60	07/15	-do-	-do-	28/11/22	partially completed

Sl. No	Chapter	Lectures planning -	Date	Status	
<u>PHYSICAL CHEMISTRY</u>					
A ①	A/1	Atomic structure	Fundamental particles Electrons, protons & neutrons	8/10/21	Complete
2)	A/2	- do -	Rutherford's Atomic Model -		Complete
3)	A/3	- do -	Atomic mass & Mass number.	22/11/21	Complete
4)	A/4	- do -	Isotopes -	22/11/21	Complete
5)	A/5	- do -	Isobars & Isotones.	23/11/21	Complete
6)	A/6	- do -	Bohr's Atomic Model.	03/11/21	Complete
7)	A/7	- do -	Aufbau's principle	05/11/21	Complete
8)	A/8	- do -	Hund's rule & Electronic Configuration	06/11/21	Complete
		Chemical reaction Monday			
9)	A/9	- do -	Defn. Types -	10/11/21	Complete
10)	A/10	- do -	Formation of NaCl, MgCl ₂ , HCl, Cl ₂ O ₂	11/11/21	Complete
11)	A/11	- do -	Formation of CO ₂ , NH ₃ , H ₂ O, CO ₂ Acid Base Theory.	12/11/21	Complete
12)	A/12	- do -	Concept of Arrhenius	13/11/21	Complete
13)	A/13	- do -	Lewis Acid Base Theory	13/11/21	Complete

14	A/14	- do -	Lewis Theory for acid base examples.	14/11/21	Complete
15	A/15	- do -	Salts, Types of salt	17/11/21	
16	A/16		<u>Solution</u> Introduction		Complete
17)	A/17	- do -	Defn of atomic wt, mole. wt, Eq. wt,	18/11/21	Complete
18)	A/18	- do -	Modes of expression of concentration, pH of solution.	20/11/21	Complete
19)	A/19		Electrochemistry defn, Electrolysis	21/11/21	Complete
20)	A/20	- do -	Faraday's Law Electroplating	21/11/21	Complete
20	A/21	- do -	Corrosion, Types of Corrosion,	03/12/21	Complete
21	A/22	- do -	Protection from Corrosion by i) Alloying & ii) Cathodic Protection	04/12/21	Complete
B			<u>Inorganic Chemistry</u>		
22	B/1		Metallic defn of Minerals ores, gangue wt ex:	10/12/21	Complete
23	B/2	- do -	Difference b/w ores & minerals	11/12/21	Complete

24	B/3	do	Extraction of metals Ore Dressing, Concent	13/12/21	Complete
25	B/4		Oxidation, Reduction	16/12/21	Complete
26	B/5		Refining of the metals	17/12/21	Complete
27	B/6	Alloys	Defn of alloys Types	17/12/21	Complete
28	B/7	-do-	Type of alloys with example	17/12/21	Complete
29	B/8	-do-	Composition & uses of brass, bronze, Alnico, Duralumin.	18/12/21	Complete

C. Organic Chemistry

30	C/1	Hydrocarbon	Saturated & Unsaturated	18/12/21	Complete
31	C/2	-do-	Aliphatic & Aromatic Hydrocarbon	23/12/21	Complete
32	C/3	-do-	Difference b/w aliphatic & Aromatic Hydrocarbon	23/12/21	Complete
33	C/4	-do-	IUPAC nomenclature of Alkane, Alkene, Alkyne	23/12/21	Complete
34	C/5	-do-	IUPAC nomenclature of alkyl halides & alcohols.	23/12/21	Complete
35	C/6	do	Structure of Alkane, Alkene Alkyne		Complete

86	C/7	-do-	Aromatic compound	24/12/21	Completed
87	C/8	-do-	Uses of Benzene, Toluene:	24/12/21	Completed
88	C/9	-do-	BHC, phenol	24/12/21	Completed
89	C/10	-do-	Uses of Naphthalene Anthracene & Benzoid Acrid.	29/12/21	Completed
D			<u>Industrial Chemistry</u>		
90	D/1	-do-	Water treatment sources of water soft water	29/12/21	Completed
91	D/2	-do-	Hardness & types Removal of Hardness	30/12/21	Completed
92	D/3	-do-	Adv. of hot lime over cold lime	30/12/21	Completed
93	D/4	-do-	Organic ion exchange Method	7/01/22	Completed
94	D/5	-do-	Lubricant: defn, Types	11/01/22	Completed
95	D/6	-do-	Purpose of Lubricant	08/01/22	Completed
96	D/7	-do-	Fuel: defn & Classification	08/01/22	Completed
97	D/8	-do-	Defn of calorific value	12/01/22	Completed

48	0/9	- do -	Liquid: Diesel, petrol, Kerosene.	12/01/22	Complete
49	0/10	- do -	Gaseous: Propane & water gas.	12/01/22	Complete
50	0/11	- do -	Elementary Idea about LPG, CNG, Coal gas.	13/01/22	Complete
51	0/12	- do -	Polymer: - Types.	13/01/22	Complete
52	0/13	- do -	Degree of polymerisation.	14/01/22	Complete
53	0/14	- do -	Difference b/w Thermo- setting & Thermoplastic.	19/01/22	Complete
54	0/15	- do -	Defn of Elastomer	20/01/22	Complete
55	0/16	- do -	Nature of Rubber, & Advantages.	21/01/22	Complete
56	0/17	- do -	Pesticides, Insect icides, herbicides	22/01/22	Complete
57	0/18	- do -	Fungicides: Example & Use.	27/01/22	Complete
58	0/19	- do -	Bio-fertiliser	28/01/22	Complete
60	0/20	- do -	Bio-fertiliser & its Use.	28/01/22	Complete

SL. NO	LECT. NO	TOPIC NAME	LECTURE DETAILS	DATE	STATUS
1	1/1		Concept of current flow	8/10/21	
2	1/2	F	Concept of source & Load	22/10/21	
		U			
3	1/3	N	State Ohm's law & concept	23/10/21	
		D	of resistance		
4	1/4	A	Relation of V, I & R in	3/11/21	
		M	Series circuit.		
		E			
5	1/5	N	Relation of V, I & R in	5/11/21	
		T	Parallel circuit		
		A			
6	1/6	L	Division of current		
		S	in parallel circuit	6/11/21	
7	1/7		Effect of power in series & parallel circuit.		
8	1/8		Kirchoff's law	10/11/21	
9	1/9		Problems on Kirchoff's law	21/11/21	
10	2/1	A	Generation of alternating e.m.f	12/11/21	
		C			
11	2/2	T	Difference between D.C & A.C	13/11/21	
		H			
12	2/3	E	Define Amplitude, Instantaneous value	19/11/21	
		O	cycle, Time period		
		R			
		V			

			frequency, phase angle, phase difference	
13	2/4		state and explain RMS value, Average value, Amplitude factor & form factor with simple problems	17/11/21
14	2/5	A C	Represent ac values in phasor diagrams	18/11/21
15	2/6	T H E	A.c through pure resistance, inductance and capacitance.	20/11/21
16	2/7	E O R Y	A.c through RL, RC & RLC Series circuit	
17	2/8	Y	Simple problems on RL, RC & RLC Series circuit.	11/12/21
18	2/9		Concept of power & power factor.	21/12/21
19	2/10		Impedance triangle & Power triangle	31/12/21
20	3/1	Generation of electrical power	Give elementary idea of generation of electricity from thermal, Hydro & Nuclear power plant.	4/1/22/21

21	4/1	C O N V E R S I O N O F E L E C T R I C A L	Introduction of d.c machines.	10/12/24
22	4/2		Main parts of d.c machines.	11/12/24
23	4/3		Principle of operation of d.c generator.	13/12/24
24	4/4		E.M.F equation of generator & simple problem.	16/12/24
25	4/5		Classification of d.c generators.	
26	4/6		Principle of operation of d.c motor.	17/12/24
27	4/7		Classification of d.c motor.	17/12/24
28	4/8		Uses of different types of d.c generators & motors.	17/12/24
29	4/9		Types & uses of single phase induction motor.	18/12/24
30	4/10		Types & uses of 3- ϕ Induction motor. Concept of transformer & its applications.	18/12/24

31	5/1		Types of wiring for domestic installations	23/12/21
32	5/2	Wiring and Power Billing	Layout of household electrical wiring & list out the basic protective devices used in household wiring.	24/12/21
33	5/3		Calculate energy consumed in a small electrical installation.	24/12/21
34	6/1	M E A S U R I N G	Introduction to measuring instruments & Torque in instruments.	29/12/21
35	6/2	R I N G	Different uses of PMMC type of instruments (Ammeter) & (Voltmeter). & Different uses of MI type of instruments	29/12/21
36	6/3	I N S T R U M E N T S	Draw the connection diagram of A.C/D.C Ammeter, Voltmeter, energy meter & wattmeter. (Single phase only)	30/12/21

37 7/1 Concept of lamp & different types of lamp & its construction & principle. 7/1/22

38 7/2 Star rating of home appliances. 7/1/22

39 1/1 Basic concept of electronics & electron emission & different types. 7/1/22

40 1/2 Classification of material according to electrical conductivity with respect to energy band diagram only. 8/1/22

41 1/3 INTRINSIC & EXTRINSIC Semiconductor & difference between vacuum tube & semiconductor. 8/1/22

42 1/4 DEVICES Principle of working and use of PN Junction diode, Zener diode and light emitting diode, LCD & BJT. Basic concept of manufacturing. 12/1/22

			Integrated circuits & its uses.	
43	2/1	E L E C T R O N I C	Define Rectifier & its uses, principle of working of different types of Rectifier and their merits and demerits	13/11/22
44	2/2	C I R C U I T S	Function of filters and classification of filter ch ^c . D.C Power Supply system with help of block diagram only.	11/11/22
45	2/3	C I R C U I T S	Different types of transistor configuration and state output and input current gain relationship in CE, CB & CC configuration. Need biasing & different types of biasing with circuit diagram.	14/11/22
46	2/4		Amplifiers and how amplification of signal is achieved by the transistor.	19/11/22

Working of a single phase RC coupled amplifier and discuss its frequency response & gain versus bandwidth relationship.

47 2/5

Basic function of oscillator & essential of transistor oscillator and its classification.

19/1/22
~~22/1/22~~

48 3/1

COMMUNICATION

Basic communication system with help of block diagram & modulation.

20/1/22

49 3/2

COMMUNICATION

Need of modulation & different types of modulation (AM, FM, PM)

22/1/22

50 3/3

SYSTEM

Amplitude modulation & frequency modulation & demodulation.

~~22/1~~

51 3/4

Working of super-heterodyne radio receiver & Block diagram of radio transmitter & receiver.

22/1/22

52	4/1	T R A	Concept of transducer & primary sensor.	25/11/22
53	4/2	N S D U C E R	Different type of transducer & concept of active & passive transducer.	27/11/22
54	4/3	R A N D M E A S U R	Mechanical primary transducer, devices Springs and Bourdon tube diagram	27/11/22
55	4/4	S U R	working principle & application of LVDT.	
56	4/5	I N G	working principle of photo emissive, photo conductive transducer.	28/11/22
57	4/6	I N S T	Photovoltaic transducer & its application	
58	4/7	R U M E N T	Multimeter, types & applications.	29/11/22
59	4/8	S	CRO, Block diagram of CRO & applications of CRO.	
60	4/9		Basic Concept of automatic control system.	29/11/22

Sl No	Lecture No	Module	Lecture Details	Lecture Dt	Status
01	1/1	Fundamentals of Engg Mechanics	Definition of Rigid bodies	8/10/21	Completed
	1/2	-do-	Force system, Definition, classification of force system according to plane & line of action characteristic of	22/10/21	Completed
	1/3	-do-	Characteristics of force and effect of force	22/10/21	Completed
	1/4	-do-	Principle of transmission, Principle of superposition.	23/10/21	Completed
05	1/5	-do-	Action & Reaction forces, concept of free body diagram.	3/11/21	Completed
06	1/6	-do-	Resolution of force, Method of resolution	5/11/21	Completed
07	1/7	-do-	Types of component force, Perpendicular components & non-perpendicular components.	6/11/21	Completed
08	1/8	-do-	Composition of force, Resultant force, Method of composition force	10/11/21	Completed

9	1/9	-do-	Analytical method Parallelogram of force Method of resolution	11/11/21	Completed
10	1/10	-do-	Graphical Method Space diagram. vector diagrams	12/11/21	Completed
11	7/11	-do-	Polygon law of force	13/11/21	Completed
12	7/12	-do-	Result of concurrent non concurrent and parallel force system		Completed
13	7/13	-do-	Moment of force Geometrical meaning of moment of a force	14/11/21	Completed
14	1/14	-do-	Measurement of moment of force system classification of moment	17/11/21	Completed
15	1/15	-do-	sign convention and moment variation theorem	18/11/21	Completed
16	7/16	-do-	couple, st. on it measurement of couple	20/11/21	
17	1/17	-do-	Properties of couple	22/12/21	Completed
18	2/2		Equilibrium Definition condition of equilibrium	20/12/21	

19	2/2	-do-	Analytical condps of equilibrium on concn	3/12/21	completed
20	2/3	-do-	Graphical condps of equilibrium of on non-concurre force	4/12/21	completed
21	2/4	-do-	Free body diagram	10/12/21	completed
22	2/8	-do-	Lami's theorem	11/12/21	completed
23	2/6	-do-	Application of solve on engineering.	13/12/21	completed
24	2/7	-do-	- do -	16/12/21	completed
25	3/1	friction	Definition of friction frictional force	17/12/21	completed
26	3/2	-do-	Limiting friction force	17/12/21	completed
27	3/3	-do-	Coefficient of friction	17/12/21	completed
28	3/4	-do-	Angle of friction and repose	18/12/21	completed
29	3/5	-do-	Lawsof friction Advantages and disadvantages of friction	18/12/21	completed

30	3/6	-do-	Equilibrium of rod on level plane	23/12/21	complete
31	3/7	-do-	force applied on horizontal and friction plane	23/12/21	complete
32	3/8	-do-	Cadder	23/12/21	P.C
33	3/9	-do-	Cadder	24/12/21	complete
34	3/10	-do-	Wedge friction	24/12/21	complete
35	4/1		centroid determination & moment of area about axis.	24/1/22	complete
36	4/2	-do-	Centroid of geometric figures	29/1/22	complete
37	4/3	-do-	Isosceles, Right-angled triangle	29/1/22	complete
38	4/4	-do-	Triangle case	30/1/22	complete
39	4/5	-do-	Semicircle quarter circle	30/1/22	complete
40	4/6	-do-	- do -		complete

41	4/7	-do-	Quarter circle		completed
42	4/8	-do-	centroid of composite shape		P.C
43	4/9	-do-	- do -		completed
44	4/10	-do-	Moment of Inertia Definition		completed
45	4/11	-do-	Parallel axis and perpendicular axis theorem		
46	4/12	-do-	MI of plane lamina	7/1/22	completed
47	4/13	-do-	1 tonival discussion	7/1/22	P.C
48	4/14	-do-	- do -	8/1/22	Completed
49	5/1	simple mechan	Definition of simple mechanics	8/1/22	complete
50	5/2	-do-	velocity ratio of simple and compound gear train	12/1/22	complete
51	5/3	-do-	Relative drop compound lifting mach	12/1/22	completed
52	5/4	-do-	Define M.A.V.R. and efficiency	12/1/22	complete

53	5/5	-do-	Stok Relation stveeo them, state law of machine for verssion of machie	13/1/22	
54	5/6	-do-	Belt locking motion	13/1/22	complete
55	5/7	-do-	Simple axle wheel single pinion comb widge	14/1/22	complete
56	5/8	-do-	Screw Jacee	14/1/22	complete
57	5/9	-do-	Types of hoisting machines line derrick	19/1/22	complete
58	6/10	Dynamics	Principle of Dynamun	19/1/22	complete
59	6/2	-do-	Newton laws of motion	20/1/22	complete
60	6/3	-do-	Motion of particles actal sy apog a conf. form.	20/1/22	complete
61	6/4	-do-	Equation of motion D'Alembert's principle	22/1/22	complete
62	6/5	-do-	Work Power Energy	22/1/22	complete
63	6/6	-do-	WB and PB	27/1/22	complete