

**LESSON PLAN FOR EVEN SEMESTER(01 Feb. 2023- 05 May 2023)**

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Week	Date	THEORY (10 PERIODS/WEEK)			PRACTICAL ( PERIODS/WEEK)	
		M.Sc -I(2 <sup>nd</sup> Sem) Paper( II): (Mon.-Wed.and Sat) Electromagnetic Theory [04 PERIODS /WEEK]	M.Sc -I(2 <sup>nd</sup> Sem) Paper( V ): (Wed -Thru) Electronics - II [02 PERIODS/WEEK]	M.Sc –II (4 <sup>th</sup> Sem)  Paper( V ): (Mon.-Tue & Fri-Sat) Communication Systems [04 PER./WEEK]	M.Sc -I(2 <sup>nd</sup> Sem) Practical (Wed) [03 PER./WEEK]  (Seminar-Sat) [01 PER./WEEK]	M.Sc -II(4 <sup>nd</sup> Sem) Practical  (Thu.-Fri.) [08 PER./WEEK]
1	01.02.2023	<b>UNIT-I</b> Electromagnetic waves in a homogeneous medium	<b>UNIT-III</b> Combinational Circuits		Exp: Modulation and Demodulation Group-I	
	02.02.2023	-----	Sequential Circuits			Exp: Trapezoidal Method Group –I
	03.02.2023	-----	-----	Pulse Communication – PAM, PWM	-----	Exp: Trapezoidal Method Group –II Exp: Bisection Method Group -III
	04.02.2023	Uniform plane waves	-----	Pulse Communication - PPM, PCM	Seminar	-----
	05.02.2023	Sunday				
	06.02.2023	Wave equation for a conducting media	-----	Pulse Communication - applications	-----	-----

2	07.02.2023	Sinusoidal time variations,	-----	Digital Communication (characteristic of data transmission circuit),	-----	-----	
	08.02.2023	Conductors and dielectrics	Multiplexer	-----	Exp: Modulation and Demodulation Group-II	-----	
	09.02.2023	-----	Demultiplexer			Exp: Trapezoidal Method Group –III	
	10.02.2023	-----	-----	Model of communication system	-----	Exp: Trapezoidal Method Group –IV	
	11.02.2023	Direction cosine of a plane wave	-----	Analysis and Design of communication system	Seminar	-----	
	12.02.2023	Sunday					
3	13.02.2023	Reflection and refraction of plane waves	-----	classification of signal and systems	-----	-----	
	14.02.2023	Surface Impedencedue to finite mass	-----	Revision of unit I	-----	-----	
	15.02.2023	Poynting Theorem	Encoders	-----	Exp: Modulation and Demodulation Group-III	-----	
	16.02.2023	-----	Decoders	-----		Exp: Bisection Method Group -VI	
	17.02.2023	-----	-----	UNIT - II System response and filters	-----	Exp: Bisection Method Group -V	
	18.02.2023	Mahashivratri					
	19.02.2023	Sunday					

4	20.02.2023	Instantaneous, average and complex poynting vector	-----	spectral analysis of modulation and Demodulation operations	-----	-----.	
	21.02.2023	power loss in a plane conductor	-----	Random Signal theory	Exp: Modulation and Demodulation Group-IV	-----.	
	22.02.2023	Interaction of fields and matter	Flip Flops (RS, JK)	-----		-----	
	23.02.2023		Flip Flops ( MS- JK, D,T),	-----		Exp: Trapezoidal Method Group –VI	
	24.02.2023		-----	Information and channel capacity		Exp: Trapezoidal Method Group –VII	
	25.02.2023	Equation of motion for charged particles, Force and motion	-----	Base band data transmission -	Seminar	-----	
	26.02.2023	Sunday					
	27.02.2023	Circular motion in a magnetic field		Base band Binary PAM system		-----	
	28.02.2023	National Science Day Celebration					
	01.03.2023	Crossed field motion of charged particle	Shift Registers		Exp: Modulation and Demodulation Group-V		
	02.03.2023	-----	Shift Registers	-----		Exp: Trapezoidal Method Group –VIII	
	03.03.2023	-----	-----	Modulation schemes - Binary ASK	-----	Exp: Bisection Method Group -I	

04.03.2023	Frequency response of dielectric materials	-----	Modulation schemes - PSK, FSK schemes		
05.03.2023 to 12.03.2023	Holy Vacations				
13.03.2023	TE and TM waves in rectangular and circular guides .	-----	comparison of Digital Modulation schemes.	-----	-----
14.03.2023	TE and TM waves in rectangular and circular guides	-----	UNIT- III Error control coding	-----	-----
15.03.2023	TE and TM waves in rectangular and circular guides	Asynchronous and Synchronous Counters	-----	Exp: Modulation and Demodulation Group-VI	-----
16.03.2023		Semiconductor Memories : ROM, RAM	-----		Exp: Bisection Method Group -IV
17.03.2023	-----	-----	Methods of controlling errors	-----	Exp: Trapezoidal Method Group –IX
18.03.2023	Attenuation factor and Q of a wave guide.	-----	Facsimile - Introduction, transmission and reception	Seminar	-----
19.03.2023	Sunday				
20.03.2023	Radiation Introduction	-----	Satellite Communication - Introduction		-----
21.03.2023	Potential function and the electromagnetic field	-----	Satellite Communication - orbits, station		-----,

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	22.03.2023	The oscillating dipole power radiated by a current element	Semiconductor Memories : EPROM.	-----	Exp: Modulation and Demodulation Group-VII	-----
	23.03.2023	Sahidi Diwas				
	24.03.2023			Satellite Altitude, Transmission path, path losses, Noise consideration.	-----	Exp: Bisection Method Group -VIII
	25.03.2023	Short antennas Power radiated by a monopole or half wave dipole		Transmission path, path losses	Seminar	-----
	26.03.2023	Sunday				
27.03.2023	Electromagnetic field close to an antenna	-----	Noise consideration in Satellite communication	-----	-----	
28.03.2023	Antenna fundamentals, Network Theorems	-----	UNIT - IV Point to Point Communication	-----		
29.03.2023	Directional properties of dipole antennas	UNIT – IV The Intel 8080/8085 Microprocessor	-----	Exp: Logic Gates Group-I	-----	

7	30.03.2023	Ram Naomi				
	31.03.2023	-----		Telephone networks,	-----	Exp: Trapezoidal Method Group –V
	01.04.2023	Travelling wave antennas		Automatic exchange switching systems,	Seminar	-----
	02.04.2023	Sunday				
	03.04.2023	Two element array	-----	Determine the diameter of a wire using (He-Ne Laser) diffraction method		
	04.04.2023	Mahavir Jayanti				
	05.04.2023	Horizontal patterns in broadcasting arrays .	Introduction, the 8085 Pin Diagram and Functions,	-----	Exp: Logic Gates Group-II	-----
	06.04.2023		the 8085 Architecture, Addressing Modes			Exp: Trapezoidal Method Group –IX
	07.04.2023		-----	Introduction to Computer based communication	-----	Exp: Bisection Method Group -VIII
08.04.2023	Multiplication of patterns	-----	ISDN	Seminar	-----	

				(integrated Service Digital Network),		
	09.04.2023	Sunday				
9	10.04.2023	Effect of earth on vertical patterns,	-----	LAN (Local Area Network) Introduction	-----	-----
	11.04.2023	Binomial arrays Coupling	-----	LAN (Local Area Network)	-----	
	12.04.2023	Antenna gain and effective area	8080/8085 Instruction Set, the 8080/8085 Data Transfer Instructions,	-----	Exp: Logic Gates Group-III	-----
	13.04.2023		the 8080/8085 Arithmetic Instructions,			Exp: Bisection Method Group -II
	14.04.2023	Dr. B. R. Ambedkar Jayanti				
	15.04.2023	Ionospheric propagation		Basic RADAR concept - RADAR system (introduction)	Seminar	-----
	16.04.2023	Sunday				
	17.04.2023	Introduction to ionosphere	-----	Primary radar	-----	
18.04.2023	Effective C and O of ionized gas	-----	Secondary surveillance radar (SSR)	-----		

10	19.04.2023	Reflection and refraction of waves by the ionosphere	The 8080/8085 Logical Instructions, The 8080-8085 Branch Instructions,	-----	Exp: Logic Gates Group-IV	-----
	20.04.2023		The 8080-8085 Stack,	-----		Exp: Bisection Method Group -II
	21.04.2023		-----	Introduction to TV	-----	Exp: Bisection Method Group -VII
	22.04.2023	Eid-ul-Fitr Holiday				
	23.04.2023	Sunday				
11	24.04.2023	Attenuation factor and Variations for ionospheric propagation	-----	TV systems and standards.	-----	
	25.04.2023	Sky wave transmission	-----	TV standards Theory.	-----	
	26.04.2023	Effect of earths magnetic field,	I/O, and Machine Control Instructions.	-----	Exp: Logic Gates Group-V	-----
	27.04.2023	-----	Introduction: Programming the 8080-	-----		Exp: Bisection Method Group -IX



			8085 Microprocess or			
	28.04.2023	-----	-----	Practice Problems	-----	Exp: Bisection Method And Trapezoidal Method Revision
	29.04.2023	Wave propagation in the ionosphere	-----	Practice Problems	Seminar	-----
	30.04.2023	Sunday				
12	01.05.2023	Wave propagation in the ionosphere	-----	Revision	-----	-----
	02.05.2023	Faraday rotation	-----	Revision	-----	-----
	03.05.2023	Faraday rotation	Straight-Line Programs		Exp: Logic Gates Group-VI	-----
	04.05.2023		Looping and Mathematical Programs.			Exp: Bisection Method And Trapezoidal Method Revision
	05.05.2023		-----	Doubts clearing Session	-----	Exp: Bisection Method And Trapezoidal Method Revision
	06.05.2023	Other ionospheric phenomenon.	-----	Doubts clearing Session	Seminar	-----
	07.05.2023	Sunday				
	08.05.2023	Revision of Unit I	-----	Revision	-----	-----
	09.05.2023	Revision of Unit II	-----	Revision	-----	
	10.05.2023	Revision of Unit III	Revision		Exp: Logic Gates Group-VII	-----

13	11.05.2023		Revision			Revision
	12.05.2023		-----	Doubts clearing Session	-----	Revision
	13.05.2023	Revision of Unit IV	-----	Doubts clearing Session	Seminar	-----
	14.05.2023	Sunday				