

204-15

A.W.P.

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
UNIT-1						
1	25.8.2014	ANTENNA FUNDAMENTALS- INTRODUCTION.	1	BB		
2	26.8.2014	RADIATION MECHANISM- SINGLE WIRE, 2-WIRE, DIPOLE	1	BB		
3	27.8.2014	CURRENT DISTRIBUTION ON A THIN WIRE ANTENNA	1	BB		
4	28.8.2014	RADIATION PATTERN- PATTERNS IN PLANES.	1	BB		
5	29.8.2014	MAIN LOBES, SIDE LOBES BEAMWIDTH, BEAM AREA	1	BB		
6	1.9.2014	RADIATION INTENSITY, BEAM EFFICIENCY	1	BB		
7	2.9.2014	DIRECTIVITY, GAIN & RESOLUTION.	1	BB		
8	3.9.2014	ANTENNA APERTURE, EFFICIENCY, EFFECTIVE HEIGHT	1	BB		
9	4.9.2014	RELATED PROBLEMS EXAM.	1	BB		
UNIT-2						
10	5.9.2014	RETARDED POTENTIALS. RADIATION FROM SMALL DIPOLE	2	BB		
11	8.9.2014	QUARTERWAVE MONOPOLE & HALFWAVE DIPOLE CURRENT	2	BB		
12	10.9.2014	EVALUATION OF FIELD COMPONENTS, POWER RADI- ATION.	2	BB		
13	11.9.2014	RADIATION RESISTANCE, BEAMWIDTH, DIRECTIVITY.	2	BB		
14	12.9.2014	EFFECTIVE AREA & EFFECT- IVE HEIGHT, NATURAL CURRENT DISTRIBUTIONS	2	BB		
15	15.9.2014	FIELDS AND PATTERNS OF THIN LINEAR CENTER-FED ANTENNAS OF DIFFERENT LENGTHS	2	BB		
		RADIATION RESISTANCE AS A FUNCTION OF LENGTH & THIN LINEAR				

UNIT-3					
18.	18.9.2014	2-ELEMENT ARRAYS - LINEAR ARRAYS	3	BB	
19.	19.9.2014	DERIVATION OF THEIR CHARACTERISTICS & COMPARISON	3	BB	
20.	22.9.2014	CONCEPT OF SCANNING ARRAYS, DIRECTIVITY RELATIONS	3	BB	
21.	23.9.2014	BINOMIAL ARRAYS	3	BB	
22.	24.9.2014	EFFECTS OF UNIFORM & NON-UNIFORM AMPLITUDE	3	BB	
23.	25.9.2014	DESIGN RELATIONS	3	BB	
UNIT-4					
24.	26.9.2014	INTRODUCTION TO NON- RESONANT RADIATORS	4	BB	
25.	29.9.2014	TRAVELLING WAVE RADIA- TOR, BASIC CONCEPTS	4	BB	
26.	30.9.2014	LONG WIRE ANTENNAS	4	BB	
27.	1.10.2014	V-ANTENNAS, RHOMBS ANTENNAS.	4	BB	
28.	2.10.2014	BROADBAND ANTENNAS HELICAL ANTENNAS	4	BB	
29.	3.10.2014	GEOMETRY, BASIC PROPERTIES	4	BB	
30.	6.10.2014	DESIGN CONSIDER- ATION FOR MONOFILAR	4	BB	
31.	7.10.2014	AXIAL MODE & NORMAL MODES	4	BB	
UNIT-5					
32.		ARRAYS WITH PARASITIC			

35.	20.10.2014	PARABOLOIDAL REFLECTOR GEOMETRY, CHARACTERISTICS	5	BB
36.	21.10.2014	TYPES OF FEEDS, F/D RATIO, SPILL OVER, BACKLOBES	5	BB
37.	22.10.2014	APERTURE BLOCKING, OFF-SET FEEDS, CASSEGRAIN	5	BB
UNIT-6				
38.	23.10.2014	HORN ANTENNAS - TYPES, OPTIMUM HORNS, DESIGN	6	BB
39.	24.10.2014	LENS ANTENNAS - GEOMETRY FEATURES, DIELECTRIC	6	BB
40.	27.10.2014	ANTENNA MEASUREMENTS PATTERNS REQUIRED, SETUP	6	BB
41.	28.10.2014	DISTANCE CRITERION DIRECTIVITY & GAIN	6	BB
42.	29.10.2014	MEASUREMENTS (COMPARISON ABSOLUTE & 3-ANTENNA)	6	BB
UNIT-7				
43.	30.10.2014	CONCEPTS OF PROPAGATION FREQUENCY RANGES & TYPES	7	BB
44.	31.10.2014	GROUND WAVE PROPAGATION CHARACTERISTICS, PARAMETERS	7	BB
45.	3.11.2014	WAVE TILT, FLAT & SPHERICAL EARTH CONSIDERATIONS	7	BB
46.	4.11.2014	SKY WAVE PROPAGATION - FORMATION OF IONOSPHERIC	7	BB

49.	7.11.2014	OPTIMUM FREQUENCY, LUF, VIRTUAL HEIGHT	7	BB
50.	10.11.2014	IONOSPHERIC ABNORMALITIES ABSORPTION.	7	BB
UNIT-8				
51.	12.11.2014	FUNDAMENTAL EQUATION FOR FREE SPACE PROPAGATION	8	BB
52.	13.11.2014	BASIC TRANSMISSION LOSS CALCULATIONS	8	BB
53.	14.11.2014	SPACE WAVE PROPAGATION MECHANISM, LOS & RADIO H.	8	BB
54.	17.11.2014	TROPOSPHERIC WAVE PROPAGATION - RADIUS OF CURVE	8	BB
55.	18.11.2014	EFFECTIVE EARTH'S RADIUS, CURVATURE, FIELD STRENGTH	8	BB
56.	19.11.2014	M-CURVES AND DUCT PROPAGATION	8	BB
57.	20.11.2014	TROPOSPHERIC SCATTERING	8	BB
58.	21.11.2014	Revision of 1 st Unit	1	BB
59.	24.11.2014	Exam of 1 st Unit	1	