LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Actio Upon Review
1	18/3/14	Revision of Vector calculus				
2	"	Revision of Coordinate Systems				
3	19/3	"				
4	21/3	ELECTROSTATICS Coulomb's law (Force)	I			
5	24/3	$\vec{E}$ electric field intensity → point charge	"			
6	25/3	$\vec{E}$ due to line charge	"			
7	"	$\vec{E}$ due to Surface charge	"			
8	26/3	$\vec{E}$ due to Volume charge	"			
9	28/3	Electric flux density (D)	"			
10	1/4	Gauss law & applications	"			
11	"	Electric potential Relation b/w E & V	"			
12	2/4	Maxwell's two equations	"			
13	4/4	Energy density, problems	"			
14	7/4	Convection & conduction currents Dielectric cont, Laplace & Poisson homogeneous medium	"			
15	9/4	Continuity equation	"			
16	15/4	Relaxation time Poisson & Laplace equations	"			
17	"	Parallel plate capacitance Coaxial capacitance	"			
18	16/4	Spherical capacitance problems	"			
19	21/4	MAGNETOSTATICS Biot-Savarts law	II			
20	22/4	Ampere's circuital law & Appl	"			

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21	22/4	Magnetic flux density(B) Maxwell's equations	4			
22	23/4	Magnetic scalar & vector potentials	"			
23	25/4	Forces due to magnetic fields	"			
24	28/4	Ampere's force law	"			
25	29/4	Inductances & magnetic energy - problems	"			
26	11	MAXWELL EQ (Dynamic fields) Faraday's law & TRF emf	III			
27	30/4	Time variation of ampere's law Displacement current density	"			
28	2/5	Maxwell equations	"			
29	2/5	Boundary conditions for static fields	"			
30	3/6	Boundary conditions for magnetic fields	"			
31	"	EM wave char-I Wave equations	IV			
32	4/6	uniform plane waves.	"			
33	6/6	Sinusoidal variations	"			
34	11/6	Wave propagation in different media	"			
35	13/6	Conductors, dielectrics	"			
36	16/6	Wave impedance Characteristics	"			
37	17/6	Polarization problems.	"			
38	"	EM wave char-II Reflection & Refraction	V			
39	18/6	normal incidence case	"			
40	20/6	oblique incidence case	"			

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41	23/6	T 4Y dft boundarys	1/			
42	24/6	θ_{Bio} / $\theta_{contral}$ / Total internal reflections	4			
43	4	Surface impedance propertes Theorem	V			
44	25/6	Power loss Problems	4			
45	27/6	Guided waves parallel plane waveguides	VII			
46	30/6	TE wavs	4			
47	1/7	TM waves	4			
48	1/	TEM waves	4			
49	2/7	Characteristics of TE, TM, TEM waves	4			
50	4/7	problems	4			
51	7/7	T-L-I Types of T-L	VII			
52	8/7	parameters of T-L	4			
53	11	T-L excellons	4			
54	9/7	primary & secondary constants Characteristic impedance	4			
55	11/7	Propagation const	4			
56	14/7	Phase & Group velocities	4			
57	15/7	finite & infinite line concepts	4			
58	1/	lossless/low loss Characteristics	4			
59	16/7	Attenuation & Distortion	4			
60	18/7	Tutorial, problems	4			

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective A Upon Rev
61	21/7	T.L-II Input impedances	VIII			
62	22/7	OC & SC lines	II			
63	"	f, VSWR, UHF lines	II			
64	23/7	λ/4, λ/2, λ/8 lines	II			
65	25/7	Smith chart Applications & apps	II			
66	30/7	Single Stub matching	II			
67	1/8	Double Stub matching problems	II			