

2014-2015, II Sem, II. ECE-B, EMWTL

### LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	2/2/15	electrostatic fields	I	CL		
2	4/2/15	Coulombs law	"	"		
3	4/2/15	Electric field lines	"	"		
4	5/2/15	E due to diff. ch	"	"		
5	7/2/15	Electric flux density	"	"		
6	11/2/15	E due to diff. ch	"	"		
7	11/2/15	Gauss law and app	"	"		
8	12/2/15	Electric potential	"	"		
9	16/2/15	Potential due to	"	"		
10	18/2/15	Maxwell's two equations	"	"		
11	18/2/15	Energy density	"	"		
12	19/2/15	Conductors and insulators	"	"		
13	23/2/15	Dielectric constant	"	"		
14	25/2/15	Dielectric strength	"	"		
15	25/2/15	Capacitance	"	"		
16	26/2/15	parallel plate capacitor	"	"		
17	2/3/15	Capacitance concepts	"	"		
18	4/3/15	parallel, series	"	"		
19	4/3/15	Spherical capacitor	"	"		
20	5/3/15	problems on capacitors	"	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
21	23/3/15	Introduction to magnetism	II	CL		
22	25/3/15	Magnetic flux density	"	"		
23	25/3/15	Biot-Savart law	"	"		
24	26/3/15	B due to infinite wire	"	"		
25	28/3/15	Ampere's circuital law	"	"		
26	1/4/15	Magnetic field	"	"		
27	1/4/15	Maxwell's two equations	"	"		
28	2/4/15	Scalar and vector potential	"	"		
29	6/4/15	Field due to magnet	"	"		
30	8/4/15	Ampere's law	"	"		
31	8/4/15	Inductance and magnetic energy	"	"		
32	9/4/15	problems on field	"	"		
33	12/4/15	Faraday's law	III	"		
34	14/4/15	Induced EMF	"	"		
35	15/4/15	Displacement current	"	"		
36	16/4/15	Maxwell's equations	"	"		
37	20/4/15	Boundary conditions	"	"		
38	22/4/15	problems on Maxwell's eqns	"	"		
39	22/4/15	problems on Maxwell's eqns	"	"		
40	23/4/15	problems on Maxwell's eqns	"	"		

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41	27/4/15	Em wave eqn	IV	CR		
42	29/4/15	Em wave eqn	"	"		
43	29/4/15	Conductivity media	"	"		
44	30/4/15	perfect medium	"	"		
45	1/5/15	lossless dielectric	"	"		
46	1/5/15	lossy dielectric	"	"		
47	2/5/15	polarization and $\epsilon_r$	"	"		
48	20/5/15	Normal incidence	"	"		
49	22/5/15	Oblique incidence	"	"		
50	22/5/15	Brewster's angle	"	"		
51	23/5/15	Critical angle	"	"		
52	27/5/15	powering vector	"	"		
53	29/5/15	parallel RLC circuit	"	"		
54	29/5/15	Types of RLC circuit	V	"		
55	30/5/15	RLC circuit eqn	"	"		
56	1/6/15	primary & secondary	"	"		
57	3/6/15	characteristic	"	"		
58	3/6/15	propagation constant	"	"		
59	4/6/15	phase & group velocity	"	"		
60	8/6/15	lossless line	"	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
61	10/6/15	Distortionless	V	CR		
62	10/6/15	Different types of load	"	"		
63	11/6/15	SC and OC line	"	"		
64	15/6/15	Reflection coefficient	"	"		
65	17/6/15	VSWR	"	"		
66	17/6/15	SWR	"	"		
67	18/6/15	$\Gamma_{in}$ , $\Gamma_{out}$ , $\Gamma_{max}$	"	"		
68	22/6/15	Smith chart and its application	"	"		
69	24/6/15	Single stub matching	"	"		
70	24/6/15	Double stub matching	"	"		
71	25/6/15	problems on stub matching	"	"		