

2015-2016, II ECE-A, II Semester, EMWTL

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	22/12/15	Review of co-ordinate system	I	CE		
2	23/12/15	Vector Calculus	"	"		
3	24/12/15	Coulomb's law	"	"		
4	24/12/15	Electric field Int.	"	"		
5	29/12/15	problems on E	"	"		
6	30/12/15	E due to infinite	"	"		
7	31/12/15	E due to infinite sheet	"	"		
8	31/12/15	Electric flux density	"	"		
9	5/1/16	D for various charge distributions	"	"		
10	6/1/16	Gauss law and its proof	"	"		
11	7/1/16	Gauss's law appl.	"	"		
12	7/1/16	Gauss's law appl.	"	"		
13	12/1/16	Divergence	"	"		
14	19/1/16	Divergence theorem	"	"		
15	20/1/16	Electric potential	"	"		
16	21/1/16	Relation b/w E & V	"	"		
17	21/1/16	Maxwell's eqns and energy density	"	"		
18	22/1/16	conductors	"	"		
19	28/1/16	dielectrics	"	"		
20	28/1/16	continuity eqn and potential	"	"		

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21	2/2/16	Potential and Laplace	II	CE		
22	3/2/16	Capacitors for different geom.	"	"		
23	4/2/16	Introduction to magnetism	II	"		
24	4/2/16	Biot-Savart law	"	"		
25	9/2/16	Ampere's Circuital law	"	"		
26	10/2/16	Applications of Ampere's law	"	"		
27	11/2/16	Magnetic flux density	"	"		
28	11/2/16	Magnetic field of coil	"	"		
29	16/2/16	Magnetic scalar and vector potentials	"	"		
30	17/2/16	Proofs of Biot-Savart law and Ampere's Circuital law	"	"		
31	18/2/16	Inductance and Mutual Inductance	"	"		
32	18/2/16	Inductance and Mutual Inductance	"	"		
33	23/2/16	Faraday's and Lenz's Law	III	"		
34	24/2/16	Modified Ampere's law	"	"		
35	25/2/16	Displacement current	"	"		
36	25/2/16	Maxwell's eqns in differential form	"	"		
37	2/3/16	Dielectric-Dielectric boundary conditions	"	"		
38	3/3/16	Dielectric-Conductor boundary conditions	"	"		
39	4/3/16	problems on boundary conditions	"	"		
40	4/3/16	problems on boundary conditions	"	"		

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41	8/3/16	wave equation	IV	CL		
42	9/3/16	Relation btw G & H	"	"		
43	10/3/16	lossless medium	"	"		
44	10/3/16	conducting medium	"	"		
45	15/3/16	perfect dielectric	"	"		
46	16/3/16	poor conductor	"	"		
47	17/3/16	Normal incidence	"	"		
48	17/3/16	Oblique incidence	"	"		
49	22/3/16	Brewster angle	"	"		
50	23/3/16	critical angle	"	"		
51	24/3/16	impedance boundary	"	"		
52	24/3/16	power loss in plane conducting	"	"		
53	29/3/16	Types of T ₀ line	V	"		
54	30/3/16	T ₀ equation	"	"		
55	31/3/16	primary & secondary wave	"	"		
56	31/3/16	infinite line concept	"	"		
57	5/4/16	Distortionless	"	"		
58	6/4/16	Different types of loads	"	"		
59	7/4/16	sc chrt	"	"		
60	7/4/16	open circuit	"	"		

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