

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	22/12/15	Review of vector Calculus	Review	CR Chalk & Board		
2	24/12/15	"	"	CR		
3	25/12/15	Review of Coordinate Solids Rectangular	"	CR		
4	25/12/15	Cylindrical	"	"		
5	29/12/15	Spherical	"	"		
6	31/12/15	<u>Electrostatics</u> Coulomb's Law, \vec{E} Electric field intensity	1	"		
7	1/1/16	Fields due to different charge distributions	"	"		
8	"	"	"	"		
9	5/1/16	Electric field density	"	"		
10	7/1/16	Gauss law & Applications	"	"		
11	8/1	Electric potential	"	"		
12	"	Potential E & V	"	"		
13	12/1	Maxwell's equations	"	"		
14	17/1	Energy density	"	"		
15	21/1	Conservation of Charge currents	"	"		
16	22/1	Dielectric Const Displacement of dielectric materials	"	"		
17	"	Capacitors/ dielectrics Relaxation time	"	"		
18	26/1	Potential & Laplace equations	"	"		
19	28/1	Capacitors parallel Cylindrical, spherical	"	"		
20	29/1	Problems	"	"		

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21	29/1	Problems	I	CR		
22	2/2/16	Assignment - 1	"	"		
23	4/2/16	Introductions	II	CR		
24	5/2	Biot Savart Law	"	"		
25	"	H due to current elements	"	"		
26	9/2	magnetic flux	"	"		
27	11/2	flux density	"	"		
28	12/2	Ampere Circulation	"	"		
29	"	applications	"	"		
30	16/2	Maxwell third equation	"	"		
31	18/2	magnetic scalar potential	"	"		
32	19/2	magnetic vector potential	"	"		
33	"	Forces due to fields	"	"		
34	23/2	Ampere force law	"	"		
35	25/2	Inductances	"	"		
36	26/2	magnetic energy	"	"		
37	"	problems	"	"		
38	3/3	Assignment - 2	"	"		
39	3/3	Maxwell's equations - (dynamic)	III	"		
40	4/3	Faraday Law	"	"		

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41	4/3/16	Transmission cut	<u>10</u>	CR		
42	8/3	Transmissivity of streambed	4	"		
43	10/3	Hydraulic unit depth	4	4		
44	11/3	Maple's equation for depth	4	4		
45	"	Bowden Correlation	4	4		
46	15/3	"	4	4		
47	17/3	Related problems	4	4		
48	18/3	Assignment - 3	4	4		
49	"	Wave equations in different media	<u>11</u>	"		
50	22/3	Uniform plane waves	4	4		
51	24/3	Relativistic E & H fields	4	4		
52	25/3	Wave propagation	4	4		
53	"	Calculation of reflection	4	4		
54	29/3	Good adhesion of good dielectrics	4	"		
55	31/3	Polarization	4	"		
56	1/4	Normal reflection & refraction	4	"		
57	"	Wave speed, critical angle	4	"		
58	5/4	Dielectric reflection & power loss	4	4		
59	7/4	Surface impedance & boundary conditions	4	4		
60	8/4	Assignment of problems	4	4		

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61	9/4	TLines Types, parameters	2	CR		
62	12/4	TLines exhibiting primary Secondary Carbs	1	4		
63	14/4	20, 1, 10p, 20g	6	4		
64	15/4	Indue line, letcherings low loss Concepts	4	4		
65	"	Distribution, loading	4	4		
66	17/4	Input impedance	11	11		
67	21/4	SC & OC lines, reflection coefficient	11	11		
68	22/4	VSWR, VHF lines	11	11		
69	11	$\lambda/4$, $\lambda/2$, $\lambda/8$ lines Impedance transformations	11	11		
70	26/4	Smith chart	4	11		
71	28/4	Stub matching.	11	11		
72	29/4	problers, Arrows	11	11		
	"					9/10/1