

## LESSON PLAN

Period	Date Tentative	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
1	16/06/14	Introduction.	I	B-P		
2	17/06/14	Nature of radar		"		
3	18/06/14	Maximum Unambiguous Range		"		
4	19/06/14	Radar waveforms		"		
5	20/06/14	Simple form of Radar equation		"		
6	23/06/14	Radar Block diagram and operation		"		
7	24/06/14	Radar frequencies and applications		"		
8	25/06/14	Related problems		"		
9	26/06/14	Prediction of Range performance	II	"		
10	27/06/14	Minimum detectable signal		"		
11	30/06/14	Receiver noise and SNR		"		
12	01/07/14	Integration of Radar pulses		"		
13	02/07/14	Radar cross section of targets		"		
14	03/07/14	Simple targets - sphere and sphere		"		
15	04/07/14	Transmitter power		"		
16	07/07/14	PRF and Range Ambiguities		"		
17	08/07/14	System losses		"		
18	09/07/14	Related problem		"		
19	10/07/14	CW Radar	III	"		
11/07/14		Doppler effect. Block diagram of CW Radar		"		

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21	14/07/14	Isolation between Transmitter and Rx		B-P	
22	15/07/14	Non zero IF Rx		"	
23	16/07/14	Receiver Bandwidth requirements		"	
24	17/07/14	Fm CW Radar		"	
25	18/07/14	Range and Doppler Measurement		"	
26	21/07/14	Block diagram and characteristics		"	
27	22/07/14	Fm CW altimeter		"	
28	23/07/14	multiple freq CW radar		"	
29	24/07/14	MTI and pulse Doppler Radar	IV	"	
30	25/07/14	Principle		"	
31	28/07/14	MTI Radar with power amplifier Tx		"	
32	29/07/14	MTI Radar with power oscillator Tx		"	
33	30/07/14	Delay line canceller		"	
34	31/07/14	Filter characteristics Blind speeds.		"	
35	01/08/14	Double cancellation Straggled PRF		"	
36	04/08/14	Range Gated Doppler filters		"	
37	05/08/14	MTI Radar parameters		"	
38	06/08/14	Non coherent MTI		"	
39	07/08/14	Tracking Radar	V	"	
40	10/08/14	Tracking with Radar		"	

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41	19/02/14	Sequential lobing		D.D		
42	20/02/14	Conical Scan		"		
43	21/02/14	Pulse Tracking Radar		"		
44	22/02/14	Amplitude comparison monopulse		"		
45	25/02/14	Phase comparison monopulse		"		
46	26/02/14	Target Reflection Characteristics		"		
47	27/02/14	Tracking in Range		"		
48	28/02/14	Comparison of Trackers		"		
49	29/02/14	Radar Antennas	V	"		
50	01/03/14	Antenna parameters		"		
51	02/03/14	Reflector antennas		"		
52	03/03/14	Leaky Antennas		"		
53	04/03/14	Cosine Squared Antenna patterns		"		
54	05/03/14	Radomes		"		
55	06/03/14	ESPA antennas		"		
56	07/03/14	Phase Shifters		"		
57	08/03/14	Architecture for		"		
58	09/03/14	Phased Arrays		"		
59	10/03/14	Detection of Radar Signals in Noise	VII	"		
60	11/03/14	Matched Filter $P_s$		"		
61	12/03/14	Correlation detection		"		

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61	13/03/14	Detection criteria		D.D		
62	14/03/14	Detector Characteristics		"		
63	15/03/14	Automatic detection		"		
64	16/03/14	CFAR Receiver		"		
65	17/03/14	Radar Receivers	VIII	"		
66	18/03/14	Noise Figure		"		
67	19/03/14	Noise Temperature		"		
68	20/03/14	Displays		"		
69	21/03/14	Duplexers		"		
70	22/03/14	Circulators as Duplexers		"		
71	23/03/14	Phased array antennas		"		
72	24/03/14	Radiation patterns		"		
73	25/03/14	Series vs parallel feeds		"		
74	26/03/14	Applications, Advantages and Limitations		"		
75						Unit to be completed
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