

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	13/07/15	Introduction about Radar	I	Black Board		
2	14/07/15	Maximum unambiguous Range		"		
3	17/07/15	Maximum unambiguous Range and Radar width		"		
4	17/07/15	Radar waveforms, Simple form of Radar Eqn		"		
5	20/07/15	Radar block diagram, Radar frequency Applications, Problems.		"		
6	21/07/15	Prediction of Range performance.	II	B.B.		
7	24/07/15	Minimum detectable signal, Receive noise SNR		"		
8	24/07/15	Integration of Radar pulse, PRF, Range Ambiguities		"		
9	27/07/15	Radar cross section of Targets.		"		
10	28/07/15	Radar cross section of Targets, Transmit power		"		
11	30/07/15	System losses.		"		
12	31/07/15	System losses related problems.		"		
13	03/08/15	Introduction about CW Radar.	III	Black Board		
14	04/08/15	Doppler effect, CW Radar block diagram				
15	09/08/15	Isolation B/W Trans. & Receiver				
16	10/08/15	Non zero I & Reciever, Receiver W. Response				
17	11/08/15	Application of CW Radar, FM CW Radar				
18	14/08/15	Range & Doppler measurements.				
19	14/08/15	CW Radar block diagram & characteristics				

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20	17/08/15	FM-CW altimeter		Blackboard		
21	18/08/15	Measurement Error		"		
22	20/08/15	Multiple frequency CW Radar		"		
23	21/08/15	Introduction about MTE Radar	IV	"		
24	24/08/15	principle of MTE Radar		"		
25	25/08/15	power amplifier transmitter		"		
26	28/08/15	power oscillator transmitter		"		
27	28/08/15	Delay time cancel - theory		"		
28	31/08/15	Filter characteristics - stick		"		
29	01/09/15	blind speeds, Double cancellation, MTE Radar parameters		"		
30	02/09/15	Staggered PRF, Range Gated Doppler filter		"		
31	04/09/15	Limitations of MTE pulsed dynamic range (choice of MTE)		"		
32	07/09/15	MTE vs low pulse Doppler Radar		"		
33	08/09/15			"		
34	11/09/15	MID I EXAM		"		
35	11/09/15					
36	14/09/15	Introduction to Tracking Radar	V	"		
37	15/09/15	Tracking with Radar		"		
38	18/09/15	Sequential lobing conical beam		"		
39	18/09/15	monopulse tracking Radar, Amplitude comparison monopulse		"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
40	14/09/15	Target Reflection Characteristics		Blackboard		
41	21/09/15	Angular Accuracy		"		
42	25/09/15	Tracking in Range Acquisition		"		
43	25/09/15	Scanning patterns Comparison of tracks		"		
44	28/09/15	Introduction to Radar antennas	<u>VI</u>	"		
45	29/09/15	Antenna parameters Reflecting Antennas		"		
46	01/10/15	Feed Antennas Core cast - forward Antenna pattern		"		
47	01/10/15	Radar with electronically steered phased array Antennas		"		
48	05/10/15	Phase shifters.		"		
49	06/10/15	Frequency - scan Array.		"		
50	09/10/15	Radiators for phased Arrays.		"		
51	09/10/15	Architecture of phased Arrays.		"		
52	12/10/15	Introduction to Detection of Radar signals in noise	<u>VII</u>	"		
53	13/10/15	matched filter Receiver		"		
54	16/10/15	Receiver Characteristics and derivation		"		
55	16/10/15	Correlation detection		"		
56	19/10/15	Detection criteria		"		
57	20/10/15	Detection characteristics of Automatic Detection		"		
58	23/10/15	Constant False Alarm Rate Receiver		"		
59	26/10/15	Introduction to Radar Receiver	<u>VIII</u>	"		

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