

LESSON PLAN

Period	Date Tentative	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
01	24/2/2023	Origin of Satellite Communications	I	B.B		
02	24/4/2023	-Historical Background Basic Concepts of Satellite Communication		"		
03	26/3/2023	-Frequency Allocation for Satellite Services		PPT		
04	30/2/2023	Applications		PPT		
05	31/12/2023	Future Trends of Satellite Communication		PPT		
06	1/1/2024	Orbital Mechanics	II	B.B		
07	2/1/2024	Look angle determination		"		
08	3/1/2024	Orbital perturbations		"		
09	6/1/2024	Orbit determination		"		
10	07/1/2024	Launch and launch vehicles		"		
11,12	08/1/2024	Orbital effects in Communication Systems Performance		"		
13	09/1/2024	Satellite Sub Systems	III	PPT		
14	10/1/2024	Attitude and Orbit Control System		"		
15	20/1/2024	Telemetry - Tracking Command and monitoring		B.B		
16	21/1/2024	Power System		"		
17	22/1/2024	Communication Sub-System		"		
18	23/1/2024	Satellite Antenna		"		
19	24/1/2024	Equipment Reliability		"		

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		And Space Subsystem		B.B		
20	27/1/2024	Satellite Link Design	IV	B.B		
21	28/1/2024	Basic Transmission Theory		B.B		
22,23	29/1/2024 30/1/2024	System noise Temperature and EIRP		"		
24	31/1/2024	Design of downlink		"		
25	2/2/2024	Up link design		"		
26	4/2/2024	Design of Satellite Link - for specified C/N		"		
27	5/2/2024	System design Example		"		
28	6/2/2024	FDMA	V	PPT		
29	7/2/2024	Single modulation, Calculation of C/N		PPT		
30	10/2/2024	TDMA		PPT		
31	11/2/2024	Frame Structure Examples		PPT		
32	12/2/2024	Satellite Switched TDMA on board processing		B.B		
33	13/2/2024	CDMA, CDMA		B.B		
34,35	14/2/2024 17/2/2024	Spread Spectrum Transmission and Reception		B.B		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
36	18/3/2014	Earth Station Technology - Introduction	<u>VI</u>	B.B		
37	19/3/2014	Transmitters		"		
38	20/3/2014	Receiver		"		
39	21/3/2014	Antennas		"		
40	23/3/2014	Tracking System		"		
41	4/3/2014	Terrestrial Interface		"		
42	5/3/2014	Primary Policy - Terrestrial		"		
43	6/3/2014	Low Earth Orbit and Geo-Stationary Satellite Systems	<u>VII</u>	PPT		
44/45	7/3/2014 10/3/2014	Orbit Consideration, Coverage and Frequency Consideration		"		
46	11/3/2014	Delay and Throughput Consideration		"		
47	12/3/2014	System Consideration		B.B		
48/49	13/3/2014 14/3/2014	Operations INGSO Constellation Design		PPT		
50	17/3/2014	Satellite Navigation And the GPS	<u>VIII</u>	PPT		
51	18/3/2014	Radio and Satellite Navigation		PPT		
52	19/3/2014	GPS Position Location Principles		PPT		

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