

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1-1	20-11-17	TV transmitter and receiver	I	Black Board		
		Synchronization by Tx & Rx.				
1-2	22-11-17	Geometric forms	I	Black Board		
		Aspect ratio				
1-3	23-11-17	Image continuity	I	PPT		
		interlaced scanning				
1-4	25-11-17	Picture resolution	I	PPT		
1-5	27-11-17	Composite video signal	I	PPT		
		Horizontal sync				
		Vertical sync				
1-6	29-11-17	Scanning sequence	I	PPT		
		Picture signal - transmission				
1-7	30-11-17	Positive & negative modulation	I	PPT		
1-8	01-12-17	VSB transmission	I	Black Board		
		Sound signal transmission				
1-9	04-12-17	std. channel B.W	I	Black Board		
		TV transmitter				
1-10	05-12-17	TV signal propagation, interference	I	Black Board		
		TV broadcast channels				

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1-11	6-12-17	TV transmission	I	Black Board		
		Antennas,				
1-12	7-12-17	Camera tube types	II	ppt		
1-13	8-12-17	monochrome TV Camera	II	ppt		
		colour TV Camera				
1-14	11-12-17	Monochrome picture tubes	II	ppt		
		colour picture tubes				
1-15	12-12-17	picture tube characteristics & Specifications	II	ppt		
1-16	13-12-17	perception of brightness and colours,	II	Black Board		
1-17	14-12-17	Additive colour mixing.	II	ppt		
		Video signals for colours.				
1-18	15-12-17	luminance signal and colour signal differences	II	ppt		
1-19	18-12-17	formation of chrominance signals	II	ppt		
1-20	19-12-17	525 line TV System	II	Black Board		
		625 line TV System				

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1-21	20-12-17	NTSC System	<u>II</u>	ppt		
1-22	21-12-17	PAL colour system	<u>II</u>	ppt		
		& PAL encoder				
1-23	2-1-18	Subsystems of	<u>III</u>	Black Board		
		Black and white receiver				
1-24	3-1-18	RF tuner &	<u>III</u>	Black Board		
		IF Subsystem				
1-25	4-1-18	Video Amplifier	<u>III</u>	Black Board		
		& Sound section				
1-26	5-1-18	Sync Separation	<u>IV</u>	Black Board		
		& processing				
1-27	8-1-18	Deflection and	<u>IV</u>	ppt		
		Scanning circuits				
1-28	9-1-18	PAL-D colour Receiver	<u>III</u>	ppt		
		Subsystems				
1-29	10-1-18	Y-signal channel	<u>II</u>	ppt		
		Chroma decoder				
1-30	11-1-18	Separation of UV	<u>III</u>	Black board		
		colour phasor				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1-31	18-1-18	Synchronous demodulators	<u>III</u>	Black Board		
	-	Subcarrier generation				
1-32	19-1-18	Raster circuits	<u>III</u>	Black Board		
		colour burst				
		Separation				
1-33	21-1-18	Burst phase Discriminator	<u>III</u>	Black Board		
1-34	22-1-18	AGC-Amplifier	<u>III</u>	Black Board		
		Reference Oscillator				
1-35	23-1-18	indent and	<u>IV</u>	Black Board		
		colour killer ckt.				
1-36	24-1-18	Origin of Satellite	<u>IV</u>	Ppt		
		Communications				
1-37	25-1-18	Historical back-	<u>IV</u>	Ppt		
		ground of satellite communications				
1-38	27-1-18	Basic concepts of satellite comm.	<u>IV</u>	Black Board		
1-39	30-1-18	Frequency allo-	<u>IV</u>	Black Board		
		cations of satellite comm's.				
1-40	31-1-18	Applications & Future trends	<u>IV</u>	Ppt		
		of satellite comm.				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1-41	01-2-18	Orbital Mechanics	<u>IV</u>	ppt		
		look angle -		Black Board		
1-42	02-2-18	determination	<u>IV</u>	Board		
1-43	05-2-18	Orbital -	<u>IV</u>	Black Board		
		perturbations				
1-44	06-2-18	Orbit-determi-	<u>IV</u>	Black Board		
		-nation				
1-45	07-2-18	Launches and	<u>IV</u>	ppt		
		Launch vehicles				
1-46	08-2-18	Orbital effects	<u>IV</u>	Black Board		
		on communication				
		System performance				
1-47	09-2-18	Attitude, and	<u>V</u>	Black Board		
		orbit control system				
1-48	12-2-18	TTCM (Telemetry	<u>V</u>	Black Board		
		Tracking Command)		ppt		
		Monitoring System				
1-49	14-2-18	Power Systems	<u>V</u>	Black Board		
		Communication -				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		- Sub systems				
1-50	18-2-18	Satellite Antenna	<u>V</u>	Black board		
		equipment reliability				
		& Space qualification				
1-51	20-2-18	Basic transmission	<u>V</u>	Black Board		
		theory of satellite comms				
1-52	21-2-18	Design of up-	<u>V</u>	Black Board		
		- link				
1-53	22-2-18	Design of down-	<u>V</u>	Black Board		
		- link				
1-54	26-2-18	Design of satellite links for specified g/v	<u>V</u>	Black Board		
		System design example				
1-55	2-3-18	Orbit considerations	<u>V</u>	Black Board		
1-56	5-3-18	Coverage & frequency considerations	<u>V</u>	Black Board		
1-57	7-3-18	Delay and throughput considerations	<u>V</u>	Black Board		
1-58	9-3-18	System considerations	<u>V</u>	Black Board		
		- station				

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