

# Aditya Institute of Technology and Management (Autonomous), Tekkali

## LESSON PLAN

**Subject Code & Name: TVSC**  
**Class / Semester: III/IV-SEM II**

**Branch & Section: E.C.E-B**  
**Academic Year: 2015-16**

Periods	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
1.	4/1/16	Introduction to TV Engg & Satellite communication, Syllabus and details	I	Black Board		
2.	7/1/16	TV transmitter & TV receiver block diagrams		Black Board & PPT		
3.	8/1/16	Synchronization horizontal and vertical, Geometric form and aspect ratio		Black Board		
4.	8/1/16	Image continuity and scanning system		Black Board		
5.	11/1/16	Flickering interlaced scanning, Picture resolution horizontal and vertical		Black Board		
6.	18/1/16	Composite video signal, Horizontal sync		Black Board		
7.	21/1/16	Vertical sync		Black Board		
8.	22/1/16	Scanning sequence		Black Board		
9.	22/1/16	TV signal transmission and propagation		Black Board		
10.	25/1/16	Picture signal transmission, Positive and negative modulation,		Black Board		
11.	28/1/16	VSB modulation, Sound signal transmission		Black Board		
12.	29/1/16	standard channel bandwidth		Black Board		
13.	1/2/16	TV transmitter, TV signal propagation, Interference, TV broadcast channels		Black Board		
14.	4/2/16	TV transmission antennae		Black Board		
15.	5/2/16	Introduction to camera tubes and picture tubes	II	Black Board		
16.	5/2/16	Camera tube types, Monochrome or color TV camera		Black Board & PPT		

17.	8/2/16	Monochrome and color picture tubes		Black Board & PPT		
18.	15/2/16	Picture tube characteristics and specifications		Black Board		
19.	18/2/16	Color signal generation and encoding		Black Board		
20.	19/2/16	Perception of brightness or colors		Black Board		
21.	19/2/16	Additive color mixing, Video signals for colors		Black Board		
22.	22/2/16	Luminance signal and color difference		Black Board		
23.	25/2/16	Encoding of color difference signal		Black Board		
24.	26/2/16	Formation of chrominance signal		Black Board		
25.	26/2/16	525- line TV 625- line system		Black Board		
26.	29/2/16	NTSC and PAL color system		Black Board		
27.	3/3/16	PAL encoders		Black Board & PPT		
28.	4/3/16	Monochrome and color TV receiver: Subsystems of black and white Receiver	III	Black Board		
29.	4/3/16	RF tuner IF subsystem , Video amplifier sound section		Black Board & PPT		
30.	7/3/16	Sync separation & processing		Black Board		
31.	10/3/16	Deflection and scanning circuits		Black Board		
32.	11/3/16	PAL-D color receiver subsystems, Y signal channel		Black Board & PPT		
33.	11/3/16	chroma decoder, Separation of U and V color Phasor, Synchronous Demodulator		Black Board		
34.	14/3/16	Raster circuits,color burst separation Burst phase discriminator		Black Board		
35.	21/3/16	AGC amplifier reference oscillator Indent and color killer		Black Board		
36.	24/3/16	Introduction to Satellite communication	IV	Black Board		

37.	25/3/16	Origin, historical background of Satellite Basic concepts of satellite Frequency allocations,		Black Board		
38.	25/3/16	Applications & Future trends		Black Board		
39.	28/3/16	Orbital mechanism & launchers		Black Board & PPT		
40.	28/3/16	Look angle determination, Orbital perturbations, Orbit determination		Ppt presentati on		
41.	1/4/16	Launches and launch vehicles		Black Board		
42.	1/4/16	Orbital effects on communication system		Black Board		
43.	4/4/16	Satellite subsystem and link Design: Altitude and orbit control system	V	Black Board		
44.	7/4/16	Telemetry, tracking and monitoring		Black Board		
45.	8/4/16	Power systems		Black Board		
46.	8/4/16	Communication subsystems		Black Board		
47.	11/4/16	Satellite antenna, equipment reliability		Black Board		
48.	14/4/16	Space qualification, Basic transmission theory, Design of Up and down links		Black Board		
49.	15/4/16	Design of satellite for specified C/N		Black Board		
50.	18/4/16	System design example		Black Board		
51.	21/4/16	Low earth orbit and Geo stationary satellite systems		Black Board		
52.	22/4/16	Orbit consideration, Coverage		Black Board		
53.	22/4/16	frequency consideration, Delay and throughput consideration		Black Board		
54.	25/4/16	System considerations		Black Board		
55.	26/4/16	Revision		Black Board		