

# LESSONPLAN

Name of the Faculty : Raj Kumar  
 Discipline : Electronics & Communication Engineering  
 Semester : 6<sup>th</sup>  
 Subject : Consumer Electronics  
 WorkLoad (Lecture/Practical) per week (in hours): Lectures-04, Practicals-04

Week	Theory		Practical	
	Lecture	Topics	Practical	Topic
1	Unit1	Audio Systems	1	To plot the frequency response of microphone
	2	Carbon moving coil cordless microphones		
	3	Direct radiating loudspeaker		
	4	Horn loudspeaker		
2	5	Multispeakers system	2	To plot the frequency response of loudspeaker
	6	Public address system		
	7	Optical sound recording on CD system		
	8	Optical sound recording on DVD		
3	9	Revision of covered syllabus		Viva-voce
	Unit2	Monochrome TV: elements of tv communication system		
	11	Scanning & its need		
	12	Need of synchronizing pulses		
4	13	Need of blanking pulses	3	To study and use a Public address system and its components.
	14	VSB Vestigial Side Band		
	15	Composite Video Signal		
	16	TV Receiver: Definition		
5	17	Block diagram	4	To observe the waveforms and measure voltages of colour TV Receiver at different points
	18	Function of each block		
	19	Waveform at input of each block		
	20	Waveform at output of each block		
6	21	Revision of covered syllabus	5	Fault finding of colour TV

	22	Sessional-1		
	Unit3	ColorTV:elementsoftvcommunication system		
	24	PrimaryColors		
7	25	SecondaryColors		Viva-voce
	26	Conceptofmixingofcolors		
	27	Additive&Subtractivemixingofcolors		
	28	Colortriangle		
8	29	CameraTubes	6	FaultFindingofLEDTV.
	30	Vidicon& Plumbicon		
	31	PALTVReceiver		
	32	Functionofeach block		
9	33	ConceptofCompatibilityb/wmonochrome & color tv		Viva-voce
	34	NTSCTVSystem		
	35	PALTV System		
	36	CCIR		
10	37	SECAMTVSystem	7	To use a Colour Pattern GeneratorwithacolourTV.
	38	Briefcomparisonofallthreetvsystems		
	39	Luminance,Hue&Saturation		
	40	Revisionofcoveredsyllabus		
11	Unit-4	LCD TV		Viva-voce
	42	Basicprincipleoflcdtv		
	43	Workingoflcd tv		
	44	LEDTV		
12	45	Basicprincipleofledtv	8	Demonstrationandoperation of DTH System
	46	Workingofled tv		
	47	Comparisonoflcd&led tv		

	48	Pros&consoflcd&ledtv		
13	49	LiquidCrystalLCDTechnology		Viva-voce
	50	ConceptofLED aspixelsinLEDTv		
	51	Betteramonglcd&ledtv		
	52	Futureoflcd&led tv's		
14	53	Revisionofcoveredsyllabus	9	Demonstrationandoperation of CCTV
	54	Sessional-2		
	Unit-5	Basicideaofcompression techniques		
	56	Digitalaudiocompressiontechniques		
15	57	MPEG3,AAC	10	Tovisitthecontrolroomof a Cable TV station and identify its different components.
	58	Digitalvideocompressiontechniques		
	59	MPEG1,MPEG2,MPEG4,H.264		
	60	WorkingofCable TV		
16	61	WorkingofDTH		Viva-voce
	62	WorkingofCCTV		
	63	Revisionofcoveredsyllabus		
	64	Sessional-3		