Name of Faculty : Rajesh Kumar

Branch : Electronics & Communication Engg.

Semester : 5th

Subject : Audio Video Systems

Lesson Plan Duration : 15 Weeks

Work Load (Lecture /Practical) per week in hours: Lecture: 3 Practical: 3

Week	Theory		Practical	
	Lecture Day	Topic (Including assignment/test)	Practical Day	Topic
1 st	1 st 2 nd	Introduction to Audio Systems Introduction to Microphones and Loudspeakers Carbon microphone	1 st	Introduction to Lab Equipment
2 nd	4 th	Moving coil microphone Cordless microphone	2 nd	To plot the directional response of a Microphone
	6 th	Direct radiating loudspeaker		
3 rd	7 th 8 th	Horn loudspeaker Multi-speaker system	3 rd	Revision
	9 th	Optical Sound recording	th	
4 th	10 th	Revision and Problem Solving UNIT-2 Introduction to Digital Audio Fundamentals	4 th	To plot the directional response of a Loud Speaker
	12 th	Audio as Data and Signal		
5 th	13 th 14 th 15 th	Digital Audio Processes Outlined Revision and Problem Solving Time Compression and Expansion.	5 th	Revision
6 th	16 th	Revision and Problem Solving Class Test	6 th	To study public address system and its components.
	18 th	UNIT-3 Elements of TV communication system		
7 th	19 th	Scanning and its need, Need of synchronizing and blanking	7 th	Revision

	21 st	VSB		
8 th	22 nd	Composite Video Signal	8 th	To test color TV using pattern generator.
	23 rd	Primary, secondary colours	-	
	24 th	Concept of Mixing	-	
9 th	25 th	Colour Triangle	9 th	Revision
	26 th	Camera tube	- 	
	27 th	PAL TV Receiver	-	
	28 th	NTSC (brief comparison)	10 th	To perform fault identification
10 th	29 th	PAL, SECAM (brief comparison)		in Colour TV.
	30 th	Class Test	=	
11 th	31 st	UNIT-4 Introduction to Digital Video,	11 th	Revision
		Compression Techniques and Standards		
	32nd	Digital Video		
	33rd	The RGB and YUV Representation of	-	
12 th	34 th	The Need for Compression	12 th	Installation of Dish Antenna for best reception.
	35 th	How compression works	_	Tor best reception.
	36 th	Compression formats for video - MPEG-	-	
		x format, H.26x format		
13 th	37 th	UNIT-5 Introduction to Digital Television-	13 th	Revision
	38 th	Digital satellite television		
	39 th	Direct-To-Home(DTH) satellite television	-	
14 th	40 th	Digital Terrestrial Television(DTT)	14 th	Installation of CCTV system.
	41 st	Introduction to :Video on demand,	-	
	42 nd	CCTV. CATV with optical fibre.	-	
15 th	42 rd	Class Test	1 cth	
15	43	UNIT-6 Basic block diagram of LCD	15 th	Revision
	44 th	Basic block diagram of LED Television	-	
	45 th	Comparison of LED and LCD	-	