

Lesson Plan

Name of Faculty : **Ms. Seema**
Discipline : **Electronics & Comm. Engg.**
Semester : **5th SEM**
Subject : **AUDIO VIDEO SYSTEMS**
Lesson Plan Duration: **16 weeks**
Work load (Lecture /Practical) per week (in hours): Lectures—03,
Practical—02

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

8 th	22	VSB, Composite Video Signal	8 th	To test color TV using pattern generator
	23	Assignment		
	24	In Colour Television Primary, secondary colours		
9 th	25	Concept of Colour Mixing	9 th	To test color TV using pattern generator
	26	Colour Triangle		
	27	Camera tube		
10 th	28	PAL TV Receiver	10 th	To perform fault identification in Colour TV
	29	NTSC, PAL, SECAM (brief comparison)		
	30	Assignment		
11 th	31	Test	11 th	To perform fault identification in Colour TV
	32	Introduction to Digital Video		
	33	RGB and YUV Representation of Video Signals		
12 th	34	Need for Compression	12 th	Installation of Dish Antenna for best reception.
	35	How compression works		
	36	Compression formats for video		
13 th	37	MPEG-x Format, H.26x format	13 th	Installation of Dish Antenna for best reception.
	38	Assignment		
	39	Digital satellite television		
14 th	40	Direct-To-Home(DTH) satellite television	14 th	Installation of CCTV system
	41	Digital Terrestrial Television(DTT)		
	42	Introduction to Video on demand		
15 th	43	CCTV, CATV with optical fibre	15 th	Installation of CCTV system
	44	Basic block diagram of LCD		
	45	Basic block diagram of LED		
16 th	46	Comparison of LCD and LED	16 th	Revision
	47	Assignment		
	48	Revision		