GOVERNMENT POLYTECHNIC, MANESAR

LESSON PLAN

NAME OF THE FACULTY :- Ms. MANJU (Lecturer)

DISCIPLINE :- ECE

SEMESTER :- 5th

SUBJECT :- AUDIO VIDEO SYSTEMS

LESSON PLAN DURATION: - 15 weeks (from July 2019 to November 2020)

WORK LOAD (LECTURE/PRACTICAL) PER WEEK (IN HOURS):- Lecture-03, Practical-06

	THEORY		PRACTICAL	
Week	Lecture	Topic	Practical	Tonio
	Day	(Including assignment/test)	Day	Topic
1 st	1 st	1. Introduction of Audio Systems	1st Group	Introduction about practical
	2 nd	a) Microphones		
		Carbon microphone		
	3 rd	Moving coil microphone	2 nd Group	Introduction about Practical
2 nd	4 th	Cordless microphone	1 st Group	To plot the directional
	5 th	b) Loudspeakers		response of a Microphone
		Direct radiating		
	6 th	Horn loudspeaker	2 nd Group	To plot the directional
				response of a Microphone
3 rd	7 th	c) Multi-speaker system	1st Group	To plot the directional
				response of a Loud Speaker
	8 th	d) Optical Sound recording		
	9 th	2. Digital Audio Fundamentals	2 nd Group	To plot the directional
		Audio as Data		response of a Loud Speaker
4 th	10 th	A 11 G: 1	1st Group	To study public address system
		Audio as Signal		and its components.
	11 th	Digital Audio Processes outlined		
	12 th	Time compression	2 nd Group	To study public address system
				and its components.
5 th	13 th	Time Expansion	1st Group	To test color TV using pattern
		_	_	generator.
	14 th	Quiz, Assignment		
	15 th	Sessional	2 nd Group	To test color TV using pattern
				generator.
6 th	16 th	3. Television a)	1st Group	To perform fault identification
		Basics of Television		in Colour TV.
	17 th	Elements of TV communication		
		system		

	18 th	Scanning and its need	2 nd Group	To perform fault identification in Colour TV.
7 th	19 th	Need of synchronizing and blanking pulses,	1st Group	Revision
	20 th	VSB		
	21 th	Composite Video Signal	2 nd Group	Revision
8 th	22 nd	b) Colour Television	1 st Group	Revision
		Primary, Secondary colours		
	23 rd	Concept of Mixing, Colour		
		Triangle		
	24 th	Camera tube	2 nd Group	Revision
9 th	25 th	PAL TV Receiver	1st Group	To perform fault identification in Colour TV.
	26 th	NTSC, PAL, SECAM (brief		
		comparison)		
	27 th	4) Digital Video, Compression	2 nd Group	To perform fault identification
		Techniques and Standards		in Colour TV.
		Digital Video		
10 th	28 th	The RGB and YUV Representation	1st Group	Installation of Dish Antenna
		of Video Signals		for best reception.
	29 th	The Need for Compression and		
		How compression works		
	30 th	Compression formats for video -	2 nd Group	Installation of Dish Antenna
		MPEG-x, H.26x format	_	for best reception.
11 th	31 st	Quiz, Assignment	1 st Group	Revision
	32 nd	Sessional Test		
	33 rd	5) Digital Television-Transmission	2 nd Group	Revision
12 th	34 th	and Reception Digital satellite television	1 st Group	Installation of CCTV system.
	35 th	Direct-To-Home(DTH) satellite	1 Group	instantation of ect v system.
	33	television,		
	36 th	Digital Terrestrial Television(DTT)	2 nd Group	Installation of CCTV system.
13 th	37 th	Introduction to :Video on demand,	1 st Group	Revision
13	38 th	CCTV	1 Gloup	Revision
	39 th	CATV with optical fibre.	2 nd Group	Revision
14 th	40 th	6) Introduction to Liquid Crystal	1 st Group	Revision
	40	Televisions	1 Gloup	Revision
	41 st	Introduction to LED Screen		
		Televisions		
	42 nd	Basic block diagram of LCD	2 nd Group	Revision
15 th	43 rd	Basic block diagram of LED	1 st Group	Practical
		Television and their comparison	F	
	44 th	Quiz, Assignment		
	45 th	Test	2 nd Group	Practical