## LESSON PLAN

Name of the Faculty	:	Atul Kumar
Discipline	:	Electronics & Communication Engineering
Semester	:	6 <sup>th</sup>
Subject	:	Consumer Electronics
Lesson Plan Duration	:	from 20.01.2025 to 02.05.2025
Work Load (Lecture/ P	ractical) per v	week (in hours): Lectures-04, Practicals-04

Week		Theory		Practical
	Lecture	Topics	Practical	Торіс
1	Unit 1	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	Multi speaker 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
	Unit 2	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
	14	VSB Vestigial Side Band		components.
	15	Composite Video Signal	-	
	16	TV Receiver: Definition	-	
5	17	Block diagram	4	To observe the waveforms
	18	Function of each block	1	and measure voltages of colour TV Receiver at different points
	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		
	Unit 3	Color TV: elements of tv communication system		
	24	Primary Colors		
7	25	Secondary Colors		Viva- voce
	26	Concept of mixing of colors		
	27	Additive & Subtractive mixing of colors		
	28	Color triangle	-	
8	29	Camera Tubes	6	Fault Finding of LED TV.
	30	Vidicon & Plumbicon		
	31	PAL TV Receiver		
	32	Function of each block		
9	33	Concept of Compatibility b/w monochrome & color tv		Viva- voce
	34	NTSC TV System		
	35	PAL TV System		
	36	CCIR		
10	37	SECAM TV System	7	To use a Colour Pattern Generator with a colour TV.
	38	Brief comparison of all three tv systems		
	39	Luminance, Hue & Saturation		
	40	Revision of covered syllabus		
11	Unit-4	LCD TV		Viva- voce
	42	Basic principle of lcd tv		
	43	Working of lcd tv	1	
	44	LED TV	1	
12	45	Basic principle of led tv	8	Demonstration and operation of DTH System
	46	Working of led tv	1	
	47	Comparison of lcd & led tv	1	

48	Pros & cons of lcd & led tv		
49	Liquid Crystal LCD Technology		Viva- voce
50	Concept of LED as pixels in LED Tv		
51	Better among lcd & led tv		
52	Future of lcd & led tv's		
53	Revision of covered syllabus	9	Demonstration and operation of CCTV
54	Sessional-2	_	
Unit-5	Basic idea of compression techniques	_	
56	Digital audio compression techniques		
57	MPEG 3, AAC	10	To visit the control room of a Cable TV station and
58	Digital video compression techniques		identify its different components.
59	MPEG 1, MPEG 2, MPEG 4, H.264		components.
60	Working of Cable TV	_	
61	Working of DTH		Viva- voce
62	Working of CCTV		
63	Revision of covered syllabus	_	
64	Sessional-3		
	<ul> <li>49</li> <li>50</li> <li>51</li> <li>52</li> <li>53</li> <li>54</li> <li>54</li> <li>54</li> <li>56</li> <li>57</li> <li>58</li> <li>59</li> <li>60</li> <li>61</li> <li>62</li> <li>63</li> </ul>	49Liquid Crystal LCD Technology50Concept of LED as pixels in LED Tv51Better among lcd & led tv52Future of lcd & led tv's53Revision of covered syllabus54Sessional-2Unit-5Basic idea of compression techniques56Digital audio compression techniques57MPEG 3, AAC58Digital video compression techniques59MPEG 1, MPEG 2, MPEG 4, H.26460Working of Cable TV61Working of DTH62Working of CCTV63Revision of covered syllabus	49Liquid Crystal LCD Technology50Concept of LED as pixels in LED Tv51Better among lcd & led tv52Future of lcd & led tv's53Revision of covered syllabus54Sessional-2Unit-5Basic idea of compression techniques56Digital audio compression techniques57MPEG 3, AAC58Digital video compression techniques59MPEG 1, MPEG 2, MPEG 4, H.26460Working of Cable TV61Working of DTH62Working of CCTV63Revision of covered syllabus