

Government Polytechnic, Mandi Adampur

Name of Faculty: Sh. Vikram Dogra

Discipline: Electronics

Semester: 5

Subject: Consumer Electronics

Lesson Plan Duration: 18 Weeks

Week	Theory		Practical Day
	Lecture Day	Topic	
Week 1	Day 1	Unit 1: Audio Systems	day 1
	Day 2	Microphones and Loudspeakers	
	Day 3	Carbon, moving coil, cordless microphone	
Week 2	Day 4	Direct radiating and horn loudspeaker	day 2
	Day 5	Multi-speaker system	
	Day 6	Magnetic Recording	
Week 3	Day 7	Digital Recording	day 3
	Day 8	Optical Recording (CD system and DVD)	
	Day 9	Test Unit 1	
Week 4	Day 10	Unit 2: Television	day 4
	Day 11	Monochrome TV	
	Day 12	Elements of TV communication system	
Week 5	Day 13	Scanning and its need	day 5
	Day 14	Need of synchronizing and blanking pulses, VSB	
	Day 15	Composite Video Signal	
Week 6	Day 16	Picture Tube	day 6
	Day 17	Camera Tube : Vidicon and Plumbicon	
	Day 18	TV Receiver: Block diagram, function of each block, waveform at input and output of each block.	
Week 7	Day 19	TV Receiver: Block diagram, function of each block, waveform at input and output of each block.	day 7
	Day 20	Revision and problem discussion	
	Day 21	Colour Television:	
Week 8	Day 22	Primary, secondary colours	day 8
	Day 23	Concept of Mixing, Colour Triangle	
	Day 24	Camera tube	
	Day 25	PAL TV Receiver	day 9
	Day 26	Revision and problem discussion	
	Day 27	Concept of Compatibility with Monochrome Receiver	
Week 10	Day 28	NTSC	day 10
	Day 29	PAL	
	Day 30	SECAM system	

Week 11	Day 31	NTSC, PAL, SECAM system (brief comparison)	day 11
	Day 32	Revision and problem discussion	
	Day 33	Test Unit 2	
Week 12	Day 34	Unit 3: LCD Television	day 12
	Day 35	LED Television	
	Day 36	Basic principle and working of LCD TV	
Week 13	Day 37	Basic principle and working of LED TV	day 13
	Day 38	Revision and problem discussion	
	Day 39	Test Unit 3	
Week 14	Day 40	Unit 4: Introduction to cable TV	day 14
	Day 41	Working of Cable TV	
	Day 42	Working of DTH	
Week 15	Day 43	Working of HDTV	day 15
	Day 44	Revision and problem discussion	
	Day 45	Test Unit 4	
Week 16	Day 46	Unit 5: Introduction to electronic gadgets	day 16
	Day 47	Principle, Working and troubleshooting with special emphasis on control panel	
	Day 48	Principle, Working and troubleshooting with special emphasis on control panel	
Week 17	Day 49	Revision and problem discussion	day 17
	Day 50	Scanner	
	Day 51	Digital Camera	
Week 18	Day 52	Digital Camera	day 18
	Day 53	VCD/DVD	
	Day 54	Test Unit 5	

Practical
Topic
To plot the frequency response of a Microphone
File Check
To plot the frequency response of a Loud Speaker
File Check
Trouble shooting of CD/DVD Player
File Check
To observe the wave forms and measure voltage of B/W TV Receiver at different points.
To observe the wave forms and measure voltage of B/W TV Receiver at
File Check
To observe the waveforms and measure voltages of colour TV Receiver at different points

To observe the waveforms and measure voltages of colour TV Receiver at different points
File Check
Fault finding of colour T.V
Fault finding of colour T.V
File Check
Demonstration and Operation of following. (a) DTH System (c) Scanner
Demonstration and Operation of following. (a) DTH System
File Check