

## LESSON PLAN

<b>Program Name</b>	Electronics and Communication Engineering
<b>Course Title</b>	Consumer Electronics
<b>Course Code</b>	ECPC206
<b>Semester</b>	4 <sup>th</sup>
<b>Course Teacher Name</b>	NEHA CHANDEL

### Evaluation Scheme

Sr. No.	Subject Code	Subject	Study Scheme			Total Study Hours	Credits	Evaluation Scheme										Total Marks
			Th	Pr	DCS			Internal Assessment			External Assessment							
			Th	Pr	DCS	Hours	ts	Th	Pr	Total	Th	Hrs	Pr	Hrs	Total			
1	ECPC 206	CE	3	-	1	4	3	40	-	40	60	3	-	-	60	100		

### References Books/ Study Material

1. **Consumer Electronics** Bali S.P. Pearson Education India, 2010, latest edition
2. **Audio video systems: Principle practices & troubleshooting** Bali R and Bali S.P Khanna Book Publishing Co. (P) Ltd., 2010 Delhi, India, latest edition
3. **Modern Television practices** Gulati R.R. New Age International Publication (P) Ltd. New Delhi Year 2011, latest edition
4. **Audio video systems** Gupta R.G. Tata Mc Graw Hill, New Delhi, India 2010, latest edition

### Course Outcomes (Cos)

CO-1	Describe the Audio & Video fundamentals.
CO-2	Define the various Colour Television systems with a greater emphasis on television standarDCS
CO-3	To study the advanced topics in Digital Television and High-Definition Television.

### Teaching Plan

Unit No	No. of Lect. Planned	Topic to be covered	Proposed date (as per time table)	Actual Date	Remarks
1	1	Basic characteristics of sound signal	27-01-2026		
	2	Audio level metering,	28-01-2026		
	3	decibel level in acoustic measurement	30-01-2026		
	4	Microphone & Types	31-01-2026		
	5	DO	03-02-2026		
	6	DO	04-02-2026		
	7	DO	06-02-2026		
	8	speaker types & working principle	07-02-2026		
	9	DO	10-02-2026		
	10	DO	11-02-2026		
	11	Sound recording principle & types.	13-02-2026		
	12	DO	17-02-2026		

2	13	CD player	18-02-2026		
	14	home theatre sound system	20-02-2026		
	15	surround sound	21-02-2026		
	16	Digital console block diagram	24-02-2026		
	17	working principle, applications, FM tune	25-02-2026		
	18	ICs used in FM tuner TDA 7021T	27-02-2026		
	19	PA address system.	28-02-2026		
	20	DO	03-03-2026		
	21	REVISION	06-03-2026		
	22	REVISION	07-03-2026		
	23	TEST	10-03-2026		
3	24	Monochrome TV standarDCS	11-03-2026		
	25	scanning process	13-03-2026		
	26	aspect ratio, persistence of vision and flicker	17-03-2026		
	27	interlace scanning	18-03-2026		
	28	picture resolution	20-03-2026		
	29	Composite video signal,	24-03-2026		
	30	DO	25-03-2026		
	31	Color TV standarDCS,	27-03-2026		
	32	color theory, hue, brightness, saturation, luminance and chrominance,	28-03-2026		
	33	DO	31-03-26		
	34	DO	01-04-2026		
	35	Different types of TV camera	04-04-2026		
	36	DO	07-04-2026		
	37	DO	08-04-2026		
	38	Transmission standarDCS.	10-04-2026		
	39	REVISION	17-04-2026		
	40	REVISION	18-04-2026		
4	41	PAL-D colour TV receiver	21-04-2026		
	42	Digital TVs:- LCD	22-04-2026		
	43	Digital TVs:- LED	24-04-2026		
	44	Digital TVs:- PLASMA	25-04-2026		
	45	Digital TVs:- HDTV	28-04-2026		
	46	3D-TV	29-04-2026		
	47	PROJECTION TV	02-05-2026		
	48	DTH Receiver	05-05-2026		
	49	Video interface,	06-05-2026		
	50	Digital Video	08-05-2026		
	51	SDI, HDMI Multimedia Interface	12-05-2026		
	52	Digital Video Interface	13-05-2026		
	53	CD and DVD player.	15-05-2026		
	54	Diagrams, operating principles and controller for FAX	16-05-2026		
	55	Diagrams, operating principles and controller for photocopier	19-05-2026		

5	56	Diagrams, operating principles and controller for microwave oven	19-05-2026		
	57	Diagrams, operating principles and controller for Washing Machine	20-05-2026		
	58	Diagrams, operating principles and controller for Air conditioner	22-05-2026		
	59	Diagrams, operating principles and controller for Refrigerators,	23-05-2026		
	60	Digital camera	26-05-2026		
	61	cam coder.	26-05-2026		

#### Home Assignments

Ass. No	Contents of Syllabus Covered	Proposed date	Actual Date	Remarks
1	Unit-1&2	28-2-2026		
2	Unit-3&4	01.04.2026		
3	Unit-5	19.05.2026		

#### Class /House Test

Name of Test	Syllabus Covered in Tests (Unit/Chapter Wise)	Proposed date	Actual Date	Remarks
Class Test-I	Unit-1&2	As per HPTSB Academic Calendar Schedule		
Class Test-II	Unit-3&4			
House Test	80% of whole syllabus			

Signature of Course Teacher with Name

(MEHA CHANDEL)

Approved by

OIC/HoD/Principal