

ELECTRONICS_OE_4.1 CONSUMER ELECTRONICS

UNIT – 1

10 Hrs

Audio Systems: PA system, Microphones, Amplifier, Loudspeakers, Radio Receivers, AM/FM, Audio Recording, and reproduction, TV and Displays: set top box, CATV and Dish TV, LCD, Plasma, LED, OLED, QDLED and LED TV, Projectors: DLP, Home Theatres, Remote controls.

UNIT – 2

5 Hrs

Electronic gadgets and Domestic Appliances: Digital Clock, Digital Camera, Home security system, CCTV, Air conditioners, Refrigerators, washing machine / Dish washer, Microwave oven, Vacuum cleaners.

UNIT – 3

10 Hrs

Landline and Mobile Telephony: Mobile Phones, Smart Phone, Smart Watch, GPRS and Bluetooth, GPS Navigation system. Office Equipment: Scanners, Barcode / flat bed, printers, Xerox, Multifunction UNITS (Print, Scan, and copy).

1. R Audio and Video systems, G. Gupta, Tata McGraw Hill, 2004
2. 3D Flat Panel – Practical tool for self-assessment., TVs and Displays, Gerardus Blokdyk., edition, 2018
3. Basic TV Technology – Digital and Analog, Robert L Harwing., 4 th Edition, Routhledge, 2012.
4. The TVs of Tomorrow: How RCA's Flat-Screen Dreams Led to the First LCDs (Synthesis), Benjamin Gross., Illustrated edition, University of Chicago Press; 2018.
5. OLED Display – Fundamentals and Applications., Takatoshi Tsujimura., Willey, 2012