

Syllabi & evaluation norms for Part-III courses

Co-ordinating Department: Department of Physics

SEC III – VALUE ADDED COURSE

ANY SEMESTER BETWEEN II to V

16UPHVA04	Mobile and TV Repairing	40 Hrs	01 Credits
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Objectives:

1. To aware the students about technical details of TV and Mobile.
2. To develop skill among the students for to identity basic faults in TV and mobile and repair it.
3. To understand use of different softwares for mobiles applications.

Unit 1 : MOBILE HARDWARE (10 hrs)

- Introduction to basic parts of mobile
- Various component used in mobile phones
- Different types of ICS used in mobiles
- Working on SMD, BGA, ICs and the PCB, Jumping techniques
- Fault finding and troubleshooting through circuit diagram
- Rearing procedure for different hardware problems

Unit 2 : MOBILE SOFTWARE (10 hrs)

- Introduction to different types of mobile softwares
- Downloading and formatting of softwares
- Functioning of Bluetooth and infrared
- Encryption and decryption of data
- Flashing and unlocking, Hands on mobile different softwares

Unit 3 : CRT (CATHOD RAY TUBE) TV (10 hrs)

- Introduction to CRT TV, CRT TV Communication System
- Elements of TV communication system
- Introduction to PAL, NTSC, SECAM systems
- Colour picture tube-construction and working
- Different sections of CRT TV receiver
- Troubleshooting procedures of a CRT TV, Practical troubleshooting

Unit 4 : LCD AND LED TV**(10 hrs)**

- Introduction to LCD and LED TV
- Working knowledge of LCD panel concepts
- Difference between LCD and LED TV panel
- The method and tools to isolate LCD TV problems
- LCD TV troubleshooting procedures and techniques
- Working knowledge of LED panel
- LED TV troubleshooting procedures and techniques

Reference Books :

1. Homer L Davidson, TV repair for beginners, McGraw Hill publication.
2. Pandit Sanjib, Advance mobile repairing, BPB publication.
3. Homer L Davidson, Servicing TV/VCR combo units, S Chand Publication.