Course Code: EITG - 207
Course Title: Computer Peripherals and Troubleshooting

Number of Credits: 03	**Total Hours: 42**	**Total Marks: 75**

Prerequisites for the course

Students should know the basics of computer system.

Objectives of Course

1. To learn and understand different computer peripherals
2. To know to install computer peripherals
3. To diagnose faults in computer peripherals
4. To troubleshoot faults in computer peripherals
5. To maintain the computer peripherals

Course Content

Unit I	**Computer Peripherals: Internal Components**	**14 Hours**

IDE and SATA Devices: Hard Disk Drive and CD/DVDs Drives, Floppy Disk, Zip Drive, Backup Drive. Expansion Cards: LAN Card, IDE Card , VGA and SVGA Cards, Sound Card, Interface Cards, I/O cards, Video Cards, USB Card, Fire-Wire Cards, Internal Ports, Cables and Connector Types.

Unit II	**Computer Peripherals: External Components**	**14 Hours**

Monitors: CRT, LCD and LED Displays, Printers: Dot-Matrix Printer, Inkjet Printer, Laser Printer. Scanner: Photo Scanner, Documents Scanner, Bar Cord Scanner. Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage technology.

Unit III	**Maintenance and Troubleshooting**	**14 Hours**

Monitors, Printers, Scanner, Keyboards, Mouse, External Modem, Ports and Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance storage devices

Pedagogy

Lectures/Tutorial/Assignments

Course Outcome

On completion of the course students will be able to:

1. Know different computer peripherals
2. To install computer peripherals
3. Diagnose faults in computer peripherals
4. Troubleshoot faults in computer peripherals
5. Maintain the computer peripherals

References/Readings

1. Operating System Concepts, 9th edition Peter B. Galvin, Greg Gagne, Abraham Silberschatz, John Wiley & Sons, Inc.
2. Modern Operating Systems -By Andrew S. Tanenbaum (PHI)
3. Operating Systems 5th Edition, William Stallings, Pearson Education India
4. Operating System Principles- Abraham Silberchatz, Peter B. Galvin, Greg Gagne 7th Edition, John Wiley
5. Advanced programming in the UNIX environment, W.R. Stevens, Pearson education.
6. Operating Systems – Internals and Design Principles Stallings, Fifth Edition–2005, Pearson Education/PHI
7. Operating System A Design Approach- Crowley, TMH.
8. Modern Operating Systems, Andrew S. Tanenbaum 2nd edition, Pearson/PHI
9. UNIX programming environment, Kernighan and Pike, PHI/ Pearson Education
10. UNIX Internals -The New Frontiers, U. Vahalia, Pearson Education.