

COURSE TITLE : **COMPUTRE SYSTEM HARDWARE LAB**
 COURSE CODE : 4137
 COURSE CATEGORY : A
 PERIODS/WEEK : 6
 PERIODS/SEMESTER : 90
 CREDITS : 3

Course General Outcomes:

Sl.	G.O	On completion of this course the student will be able :
1	1	Assembling and Disassembling desk top machine
2	1	Different peripheral Installation and Servicing:
3	1	Computer Servicing practical
4	1	Assembling and Disassembling lap top

Specific Outcomes:

PART A – COMPUTER SERVICING PRACTICALS

1. Identification of System Layout.
 - a) Front panel indicators & switches and Front side & rear side connectors.
 - b) Familiarize the computer system Layout:Marking positions of SMPS, Motherboard, FDD, HDD, CD, DVD and add on cards.
 - c) Configure BIOS setup program and troubleshoot the typical problems using BIOS utility.
2. HARD DISK
 - a) Install Hard Disk.
 - b) Configure CMOS-Setup.
 - c) Partition and Format Hard Disk.
 - d) Identify Master /Slave / IDE Devices.
 - e) Practice with scan disk, disk cleanup, disk De-fragmenter, Virus Detecting and Rectifying Software.
3.
 - a) Install and Configure a DVD Writer and a Blu-ray Disc writer.
 - b) Recording a Blank DVD and Blu-ray Disc.
4. Printer Installation and Servicing:
 - a) Head Cleaning in dot matrix printer
 - b) Install and configure Dot matrix printer and Laser printer
 - c) Troubleshoot the above printers.
 - d) Check and connect the data cable connectivity
5. Install and configure Scanner, Web cam, Cell phone and bio-metric device with system.
 Troubleshoot the problems
6. Assemble a system with add on cards and check the working condition of the system and install OS.
7. Dual OS Installation
8. Assembling and Disassembling of Laptop to identify the parts and to install OS and configure it.

Hardware Requirement: Desk Top Computer components and Lap Top components