Diploma, Anna University-UG, PG., HSC & SSLC

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34065- COMPUTER HARDWARE SERVICING AND NETWORKING PRACTICAL

DETAILED SYLLABUS

LIST OF EXPERIMENTS

Part A – Computer Hardware servicing

1. IDENTIFICATION OF SYSTEM LAYOUT
    i) Identify front panel indicators & switches and Front side & rear side connectors
    ii) Familiarize the computer system layout by marking positions of SMPS, Motherboard, FDD, HDD, CD, DVD and add on cards.

2. HARD DISK
    i) Configure bios setup program and troubleshoot the typical problems using BIOS utility.
    ii) Install, Configure, Partition and Format Hard disk.

3. DVD/BLU-RAY WRITER
    i) Install and Configure a DVD Writer and record a blank DVD.
    ii) Install and Configure a Blu-ray Writer and record a blank Blu-ray Disc.

4. 4.Printer Installation
    i) Install and configure Dot matrix printer
    ii) Install and configure Laser printer

5. i) Install and configure Scanner
    ii) Install and configure Web cam and bio-metric device

6. i) Assemble a system with add on cards and check the working condition of the system
    ii) Install OS in the assembled system.

7. Install Dual OS in a system

8. i) Assemble and Disassemble a Laptop to identify the parts.
    ii) Install OS in the laptop.

Part B – Computer networking

1. Do the following Cabling works for establishing a network
    a. Crimp the network cable with RJ 45 connector in Standard cabling mode and cross cabling mode.
    b. Test the crimped cable using a cable tester.

2. Use IPCONFIG, PING, TRACERT and NETSTAT utilities to debug the network issues.

3. Interface two PCs to form Peer To Peer network using the connectivity devices Switch or Router in a LAN.

4. Share the files and folders in a LAN.

5. Share a printer in a LAN.

6. Configure DNS to establish interconnection between systems and describe how a name is mapped to IP Address

7. i) Install and configure Network Devices: HUB, Switch or Routers

    ii) Install and Configure NIC.