

<b>COURSE TITLE</b>	<b>: COMPUTER HARDWARE AND NETWORKING LAB</b>
<b>COURSE CODE</b>	<b>: 6049</b>
<b>COURSE CATEGORY</b>	<b>: A</b>
<b>PERIODS/WEEK</b>	<b>: 5</b>
<b>PERIODS/SEMESTER</b>	<b>: 75</b>
<b>CREDITS</b>	<b>: 3</b>

#### **LIST OF EXPERIMENTS**

On completion of this course the students will be able:

1. To study the different parts of computer system
2. To study different parts of mother board - ATX
3. To study various types of connectors
4. To draw the pin details of various connectors
5. To assemble the computer systems
6. To study CMOS setup
7. To partition and format the hard disc
8. To install optical drive
9. To install the OS and application softwares (office automation, anti-virus, etc.)
10. To apply PC diagnostic tools
11. To install scanner
12. To install network card
13. To connect systems in network using switch
14. To connect the systems in peer to peer network
15. To install modem and connect to Internet
16. To prepare the UTP cable for cross and direct connections using crimping tool
17. To install domain controller OS
18. To install remote administration
19. To configure web server
20. To configure e-mail server
21. To configure e-mail client
22. To download and upload files using relevant protocol
23. To install and configure proxy server
24. To configure browser for Internet access using proxy server
25. To configure Virtual Private Network (VPN)

## Troubleshooting

1. To trouble shoot computer crashes
2. To trouble shoot computer operation is slow
3. To trouble shoot start up issues
4. To trouble shoot Blue Screen Of Death( BSOD)
5. To trouble shoot chipset problems
6. To trouble shoot display related problems
7. To trouble shoot CMOS check sum errors
8. To trouble shoot registry problems
9. To trouble shoot optical drive related problems
10. To trouble shoot disk boot failure - hard disc related problems
11. To trouble shoot driver software problems
12. To trouble shoot sound card problems
13. To trouble shoot fatal error problems
14. To trouble shoot script error problems
15. To trouble shoot typomatic errors - keyboard problems
16. To trouble shoot mouse problems
17. To trouble shoot printer related problems
18. To trouble shoot scanner related problems
19. To trouble shoot system hanging after 5 minutes due to SMPS
20. To trouble shoot IDE port problem in mother board
21. To trouble shoot PCI slot problems
22. To trouble shoot network card errors
23. To trouble shoot network connectivity issues
24. To use network diagnostic software
25. To access network resources using net at command prompt