

CC122: COMPUTER WORKSHOP

CREDITS = 2 (L=0, T=0, P=2)

Course Objective:

- To impart ability to install and manage operating systems, drivers for hardware, and other software applications

Teaching and Assessment Scheme:

Teaching Scheme			Credits	Assessment Scheme				
L	T	P	C	Theory		Practical		Total Marks
				ESE	CE	ESE	CE	50
0	0	2	2	0	0	30	20	

Course Contents:

Introduction to various components of computer, input / output peripherals, BIOS/UEFI settings, basics and installation of operating system, concept of dual booting, virtualization, installation of device drivers and other required software, need and method of backup, basic security issues: computer viruses, malware, etc., anti-virus software, various office tools for text, spreadsheet and presentation documents, flow-chart development tools, animation tools, website development tools, basic concepts of networking and resource sharing in a network

Reference Books:

1. Scott Mueller, “Upgrading and repairing PCs”, 21st Edition; Pearson Education.
2. Mark Minasi, “The complete PC upgrade and maintenance guide”, 15th Edition; Sybex.
3. James, K. L., “Computer hardware: installation, interfacing, troubleshooting and maintenance”, PHI Learning.
4. M.Radhakrishnan and D. Balasubramanian, “Computer Installation and Troubleshooting” ISTE Learning Material.
5. Stephen J Bigelow, “Troubleshooting, Maintaining and Repairing PCs”, 5th Edition; Tata McGraw-Hill Publication.
6. Wale Soyinka, “Linux Administration: A Beginner's Guide” 6th Edition; Tata McGraw Hill Publication.
7. B Govindarajalu, “IBM PC and Clones: Hardware, Troubleshooting, and Maintenance”, 2nd Edition; Tata McGraw-Hill.

Course Outcomes (COs):

At the end of this course students will be able to

1. Understand basics of computer hardware
2. Install operating systems, drivers related to hardware and other software
3. Configure operating system for effective management of resources
4. Manage security related basic problem using anti-virus software
5. Create reports, presentation, and spread sheets
6. Work with various tools for collaboration and website creation