

Programme Code:	BCA	Programme Title:	Bachelor of Computer Applications	
Course Code:	19UBCVAC1	Title	Batch:	2019-2022
Total Hrs:	30	PC ASSEMBLY & MAINTENANCE	Credit	1

Course Objective

This course will enable the students to understand the fundamentals of Computer and enabling them to assemble troubleshoot and installation of hardware, software & peripherals devices of Computer.

Course Outcomes (CO)

K1	CO1	To Demonstrate knowledge & Concepts of Computer Fundamentals.
K2	CO2	To know the Installation of Operating System and preventive maintenance.
K3	CO3	To know how to Perform a step by step assembly of a computer.

Units	Content	Hrs
Unit I	Basics of computer: I/O devices- Monitors- Hard Disk- Study of different types of Mother Board- Study of different Buses- I/O Ports- graphic cards- Installation of printer / modem /OS /scanner -Recovery & Trouble shooting. Introduction to BIOS/CMOS Setup: POST, Configuration, Booting Sequence/Boot Order. Partitioning: Partitioning of Hard Drive - Primary, Extended, Logical partitions using Partition Tools. Installation of Drivers and Software	10
Unit II	Components and Parts: Identifying the Important Hardware Components of PC. i.e., CPU, Motherboard, RAM, HDD, ODD, SMPS, K/B, Mouse, Monitor etc SMPS: Types of SMPS- Power stored in UPS- Components and Circuits inside the SMPS Unit	10

Unit III	Installation of Operating System: Win XP/Win 7-Activation and Automatic Updating procedures- Device Driver Installation	10
	Installation of Application Software's: Office Automation- DTP Software, Tools, Utilities etc. Uninstalling Applications / Software's.	
	Diagnostic and troubleshooting of PC: POST- identifying problems by Beep codes errors, checking power supply using Multi-meter, Replacement of components etc. Maintenance of PC.	
	Total Contact Hrs	30

Books for Reference	
1. "How Computers Work", Heinemann read and learn Our Digital Planet Series, Ben Hubbard Read and Learn: Our Digital Planet, Ben Hubbard, , Raintree, 2018. 2. "Essential Computer Hardware", The Illustrated Guide to Understanding Computer Hardware, Computer Essentials Series, Kevin Wilson, illustrated, Elluminet Press, 2018. 3. "Computer Hardware", Installation, Interfacing, Troubleshooting and Maintenance", K. L. JAMES, illustrated, PHI Learning Pvt. Ltd., 2013.	

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