Information Technology Workshop

Course Code	19CS3251	Year	I	Semester	II
Course Category	Program Core	Branch	CSE	Course Type	Lab
Credits	1.5	L-T-P	0-0-3	Prerequisites	Nil
Continuous Internal Evaluation:	25	Semester End Evaluation:	50	Total Marks:	75

Course Outcomes	
Upon successful completion of the course, the student will be able to	
CO1	Identify the basic computing device peripherals
CO2	Gain knowledge on operating system concepts and its installations.
CO3	Gain knowledge on basics of networking and internet.
CO4	Learn productive tools like word, excel, and power point
CO5	Gain knowledge on Raptor tool and designing flow charts

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1				M	H					H			H	M
CO2				M	H					H			H	M
CO3				M	H					H			H	M
CO4				M	H					H			H	M
CO5				M	H					H			H	M

Syllabus		
Unit No.	Contents	Mapped CO
I	**Task-1:** Identify various kinds of computing devices, different peripherals, ports and connecting cables and Assemble and disassemble the PC. **Task 2:** Students have to be given a PC which does not boot due to improper assembly or defective peripherals. They should identify the problem and fix it to get the computer back to working condition.	CO1
II	**Task-3**: Installation of MS-Windows. **Task-4:** Installation of Linux. **Task-5:** Practice on basic Linux OS commands. Students have to be given a malfunctioning CPU due to system software problems. They should identify the problem and fix it to get the computer back to working condition.	CO2
III	**Task-6**: Connecting to their Local Area Network and access the Internet, Configure the TCP/IP setting and accessing the websites and email. **Task-7:** Usage of search engines. Configure Plug-ins like Macromedia Flash and JRE for applets, Skype and Video Conferencing setup. **Task-8:** Awareness on threats on Internet, Install antivirus software,	CO3

	configure their personal firewall and windows update on their computer, customize their browsers to block pop-ups, block ActiveX downloads to avoid viruses and/or worms		
IV	**Task-9:** Exploring MS-Word and sample tasks. Document creation and editing text documents in your web browser using Google docs. **Task-10:** Excel orientation and sample tasks. Handle task lists, create project plans, analyze data with charts and filters using Google Sheets **Task-11**: PPT Orientation and sample tasks, project presentation- Google Slides, Manage event registrations, create quizzes; analyze responses- Google Forms, Web-based service providing detailed information about geographical regions and sites around the world. Explore the globe by entering addresses and coordinates-Google Maps and Earth.	CO4
V	**Task-12**: Basics on RAPTOR and designing flowcharts. **Task-13:** Demonstrate problem solving skills by developing algorithms to solve problems using Raptor tool.	CO5

Learning Resources
Text Books
Introduction to Computer-Peter Norton
Reference Books
Information Technology Workshop, 3rd Edition G Praveen Babu, MV Narayana BS Publications
e- Resources & other digital material
1.   https://www.vmware.com/pdf/VMwarePlayerManual10.pdf 2.   https://zorinos.com/help/ 3.   https://zorinos.com/help/install-zorin-os/ 4.   http://www.googleguide.com/advanced_operators_reference.html 5.   https://www.alexa.com/find-similar-sites 7.   https://en.wikipedia.org/wiki/File_archiver . 8.   https://raptor.martincarlisle.com/