		L	T	P	C
15IT101L	**COMPUTER HARDWARE AND TROUBLESHOOTING LAB**	**0**	**0**	**4**	**2**
	Total contact hours - 60				
	Prerequisite				
	Nil				

PURPOSE

This course is designed to enable the students to get a detailed knowledge of all the hardware components that make up a computer and to understand the different interfaces required for connecting these hardware devices.

INSTRUCTIONAL OBJECTIVES

1.	To understand the components on the motherboard
2.	To perform system administration tasks
3.	To understand different storage media
4.	To understand system related problems and methods of troubleshooting

LIST OF EXPERIMENTS (60 hours)

1. Study and identification of standard desktop personal computer
2. Understanding of Motherboard and its interfacing components
3. Install and configure computer drivers and system components.
4. Disk formatting, partitioning and Disk operating system commands
5. Install, upgrade and configure Windows operating systems.
6. Remote desktop connections and file sharing.
7. Identify, install and manage network connections Configuring IP address and Domain name system
8. Install, upgrade and configure Linux operating systems.
9. Installation Antivirus and configure the antivirus.
10. Installation of printer and scanner software.
11. Disassembly and Reassembly of hardware.
12. Troubleshooting and Managing Systems

REFERENCES

1. Craig Zacker& John Rourke, "*The complete reference:PC hardware*", Tata McGraw-Hill, New Delhi, 2001.
2. Mike Meyers, "*Introduction to PC Hardware and Troubleshooting*", Tata McGraw-Hill, New Delhi, 2003.
3. B.Govindarajulu, "*IBM PC and Clones hardware trouble shooting and maintenance*", Tata McGraw-Hill, New Delhi, 2002.

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Course designed by		**Department of Information Technology**													
1	Student outcome	a	b	c	d	e	f	g	h	i	j	k	l	m	n
										X		X			
2	Mapping of instructional objectives with student outcome									2		1 3 4			
3	Category	General (G)			Basic Sciences (B)			Engineering Sciences and Technical Arts (E)			Professional Subjects (P)				
											X				
4	Broad area (for ‘P’category)	Programming			Networking			Database		Web System	Human Computer Interaction		Platform Technologies		
					X										
5	Approval														