

**UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**  
**Department of Electronics & Telecommunication Engineering**

**Academic Lesson Plan for 6th Semester - 2022 (Summer)**

**Subject: COMPUTER HARDWARE LAB (Pr. 2)**

**Name of the teaching faculty- Sri Sisira Kumar Kapat, Lecturer(Comp. Appl.),**

<b>SEMESTER FROM</b> <b>DATE:10/03/22 TO</b> <b>DATE:30/06/2022</b>	<b>No. of periods per week: 3</b> <b>NO.OF WEEKS:15</b> <b>Total periods: 45</b>	<b>Sessional : 25 Marks</b> <b>End Semester Exam.: 25 Marks</b> <b>Total Marks: 50 Marks</b>
---	--	--

WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Switches, Indicators and connectors of PC: Identification of front panel indicators and switches in a computer system of table top/tower case model and also identification of rear side connectors.
	2ND	Switches, Indicators and connectors of PC: Identification of front panel indicators and switches in a computer system of table top/tower case model and also identification of rear side connectors.
	3RD	Switches, Indicators and connectors of PC: Identification of front panel indicators and switches in a computer system of table top/tower case model and also identification of rear side connectors.
2ND	1ST	PC system layout: Draw a Computer system layout and Mark the positions of SMPS, Mother Board, FDD, HDD, and CD-Drive / DVD-Drive add on cards in table top/tower models systems.
	2ND	PC system layout: Draw a Computer system layout and Mark the positions of SMPS, Mother Board, FDD, HDD, and CD-Drive / DVD-Drive add on cards in table top/tower models systems.
	3RD	PC system layout: Draw a Computer system layout and Mark the positions of SMPS, Mother Board, FDD, HDD, and CD-Drive / DVD-Drive add on cards in table top/tower models systems.
3RD	1ST	PC system layout: Draw a Computer system layout and Mark the positions of SMPS, Mother Board, FDD, HDD, and CD-Drive / DVD-Drive add on cards in table top/tower models systems.
	2ND	PC system layout: Draw a Computer system layout and Mark the positions of SMPS, Mother Board, FDD, HDD, and CD-Drive / DVD-Drive add on cards in table top/tower models systems.
	3RD	Mother Board Layout: Draw the layout of Pentium IV or Pentium Dual core or Pentium Core2 DUO mother board and mark Processor, chip set ICs. RAM, Cache, Xtal, cooling fan, I/O slots and I/O ports and various jumper settings.
4TH	1ST	Mother Board Layout: Draw the layout of Pentium IV or Pentium Dual core or Pentium Core2 DUO mother board and mark Processor, chip set ICs. RAM, Cache, Xtal, cooling fan, I/O slots and I/O ports and various jumper settings.
	2ND	Mother Board Layout: Draw the layout of Pentium IV or Pentium Dual core or Pentium Core2 DUO mother board and mark Processor, chip set ICs. RAM, Cache, Xtal, cooling fan, I/O slots and I/O ports and various jumper settings.
	3RD	Mother Board Layout: Draw the layout of Pentium IV or Pentium Dual core or Pentium Core2 DUO mother board and mark Processor, chip set ICs. RAM, Cache, Xtal, cooling fan, I/O slots and I/O ports and various jumper settings.
5TH	1ST	CMOS Setup Program: 1. Changing the Standard settings. 2. Changing advanced settings (BIOS and Chipset features)
	2ND	CMOS Setup Program: 1. Changing the Standard settings. 2. Changing advanced settings (BIOS and Chipset features)

	3RD	A. Installation of CD drive: 1. Install and configure an CDD in a computer system. 2. CDD drive diagnostics/servicing.
6TH	1ST	B. USB pen drives and I-pods. 1. Connect and enable a pen drive or I-pod to HDD. 2. Format the pen drive or I-pod. 3. Copy files and folders from pen drive I-pod to HDD. 4. Copy files and folders from HDD to pen drive or I-pod.
	2ND	HDD Installation: 1. Install the given HDD. 2. Configuration in CMOS-Setup program 3. Partition the HDD using fdisk./CAT/other 4. Format the Partitions.
	3RD	HDD Installation: 1. Install the given HDD. 2. Configuration in CMOS-Setup program 3. Partition the HDD using fdisk./CAT/other 4. Format the Partitions.
7TH	1ST	Printer Installation & Troubleshooting: 1. Installing and checking a Dot-Matrix Printer. 2. Installing and checking an Ink jet / Laser Printer. 3. Possible problems and troubleshooting.
	2ND	Printer Installation & Troubleshooting: 1. Installing and checking a Dot-Matrix Printer. 2. Installing and checking an Ink jet / Laser Printer. 3. Possible problems and troubleshooting.
	3RD	Printer Installation & Troubleshooting: 1. Installing and checking a Dot-Matrix Printer. 2. Installing and checking an Ink jet / Laser Printer. 3. Possible problems and troubleshooting.
8TH	1ST	Modem Installation: 1. Install and configure a Modem in a windows PC. 2. Check the working condition of modem with pc.
	2ND	DVD Multi-recorder drive installation: 1. Install a DVD Multi-recorder drive in a PC. 2. Configure using device driver. 3. Check the read / write operation using a CD / DVD.
	3RD	Installation of Scanner: 1. Connect the given scanner with a PC. 2. Configure the scanner with driver. 3. Check the scanner by scanning a page / a portion in a page. Also Familiarize: Scandisk, recent Anti-virus software and recent PC Diagnostic software.
9TH	1ST	Installation of Scanner: 1. Connect the given scanner with a PC. 2. Configure the scanner with driver. 3. Check the scanner by scanning a page / a portion in a page. Also Familiarize: Scandisk, recent Anti-virus software and recent PC Diagnostic software.
	2ND	Assembling a PC: Assemble a Pentium Advanced version System with necessary peripherals and check the working condition of the PC.
	3RD	Assembling a PC: Assemble a Pentium Advanced version System with necessary peripherals and check the working condition of the PC.
10TH	1ST	Assembling a PC: Assemble a Pentium Advanced version System with necessary peripherals and check the working condition of the PC.
	2ND	Install and Configure Windows NT2003 operating system in a PC.
	3RD	Install and Configure Windows NT2003 operating system in a PC.

11TH	1ST	Install and Configure Windows NT2003 operating system in a PC.
	2ND	Construct Network by connecting one or two computer with a Windows NT2003 Server/Advanced
	3RD	Construct Network by connecting one or two computer with a Windows NT2003 Server/Advanced
12TH	1ST	Construct Network by connecting one or two computer with a LINUX Server/Advanced
	2ND	Construct Network by connecting one or two computer with a LINUX Server/Advanced
	3RD	Configure the network by connecting one or two computer with a LINUX Server.
13TH	1ST	Add / Remove devices using Hardware Wizard Add and Manage User Profile, Set permission to the users both in Windows NT 2003 / LINUX/ Advanced version
	2ND	Install and Configure LINUX operating system in a PC.
	3RD	Install and Configure LINUX operating system in a PC.
14TH	1ST	Install and Configure LINUX operating system in a PC.
	2ND	Install and Configure Window XP (advanced version) operating system in a PC.
	3RD	Install and Configure Window XP (advanced version) operating system in a PC.
15TH	1ST	Install and Configure Window XP (advanced version) operating system in a PC.
	2ND	Install and Configure Window 10 operating system in a PC.
	3RD	Install and Configure Window 10 operating system in a PC.