

KIITPOLYTECHNIC, BHUBANESWAR

LESSONPLAN

Session- 2024-2025

Discipline: Electronics & Telecommunication Engineering	Semester: 6th, Summer/2025	Name of the faculty: Amalendu Kumar Pradhan Email Id: amalendufcs@kp.kiit.ac.in
Subject: Computer Hardware Lab (Pr-2)	No. of Days/week: 01(3 periods / Day) Experiments will be performed in groups of 30 students	Start Date: 04.02.2025 End Date: 17.05.2025

Week	Class Day	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	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.
3rd	1st	Mother Board Layout: Draw the layout of Pentium IV or Pentium Dual core or Pentium Core 2 DU O 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	CMOS Setup Program: 1. Changing the Standard settings. 2. Changing advanced settings (BIOS and Chipset features)
5th	1st	Revision/Assessment
6th	1st	A. Installation of CD drive: 1. Install and configure an CDD in a computer system. 2. CDD drive diagnostics/servicing. 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.
7th	1st	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.
8th	1st	Printer Installation & Troubleshooting: 1. Installing and checking a Dot-Matrix Printer. 2. Installing and checking an Inkjet/Laser Printer. 3. Possible problems and troubleshooting.
9th	1st	Modem Installation: 1. Install and configure a Modem in a windows PC. 2. Check the working condition of modem with pc. & 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

10th	1st	Revision/Assessment
11th	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.
12th	1st	Assembling a PC: Assemble a Pentium Advanced version System with necessary peripherals and check the working condition of the PC. Also Install and Configure Windows NT 2003 operating system in a PC.
13th	1st	Construct Network by connecting one or two computers with a Windows NT 2003 Server/Advanced Construct Network by connecting one or two computer with a LINUX Server/Advanced Configure the network by connecting one or two computer with a LINUX Server. . Add / Remove devices using Hardware Wizard Add and Manage User Profile, Set permission to the users both in Windows NT 2003/LINUX/Advanced version
14th	1st	Install and Configure operating system (LINUX/Window XP advanced version /Window 2010/Advanced etc.) in a PC.
15th	1st	Revision/Assessment