



# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 2030574 IT WORKSHOP LAB

**B.Tech.II Year-I Sem**

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0 / 0 / 3 / 1.5**

### VISION

To empower the students to be technologically adept, innovative, self-motivated and responsible global citizen possessing human values and contribute significantly towards high quality technical education with ever changing world.

### MISSION

M1	To offer high-quality education in the computing fields by providing an environment where the knowledge is gained and applied to participate in research, for both students and faculty.
M2	To develop the problem solving skills in the students to be ready to deal with cutting edge technologies of the industry.
M3	To make the students and faculty excel in their professional fields by inculcating the communication skills, leadership skills, team building skills with the organization of various co-curricular and extra-curricular programmes.
M4	To provide the students with theoretical and applied knowledge, and adopt an education approach that promotes lifelong learning and ethical growth.

### LIST OF EXPERIMENTS

#### PC HARDWARE:

**Task 1:** Identify the peripherals of a computer, components in a CPU and its functions. Draw the block diagram of the CPU along with the configuration of each peripheral.

**Task 2:** Disassemble and assemble the PC back to working condition.

**Task 3:** Installation of MS windows on the personal computer or Laptop.

**Task 4:** Installation of Linux on the computer or Laptop. This computer should have windows installed. The system should be configured as dual boot with both windows and Linux

**Task 5:** Hardware Troubleshooting: Sample PC which does not boot due to improper assembly or defective peripherals, identify the problem and fix it to get the computer back to working condition.

**Task 6:** Software Troubleshooting: Students should identify the problem and fix it to get the computer back to working condition if malfunction CPU is given.



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### INTERNET & WORLD WIDE WEB:

**Task 1: Orientation & Connectivity Boot Camp:** Get connection of Local Area Network and access the Internet, website and email. Students have to simulate the WWW on LAN without internet connection.

**Task 2: Web Browsers, Surfing the Web:** Customize the web browsers with the LAN proxy settings, bookmarks, search toolbars and pop up blockers. Configure the plug-ins like Macromedia Flash and JRE for applets.

**Task 3: Search Engines & Netiquette:** Basic concept of search engines and how to use the search engines (GOOGLE, YAHOO etc)

**Task 4: Cyber Hygiene:** Installation of antivirus software and firewall.

### LATEX AND WORD:

**Task 1: Word Orientation:** Accessing and overview of Toolbars, saving files, Using help and resources, rulers, format painter.

**Task 2:** To create sample certificate: Features to be covered - Formatting Fonts, Drop Cap, Applying Text effects, Character Spacing, Borders, Colors, Header, Footer, Date and Time. (Ex: Prize certificate, Participation certificate etc)

**Task 3:** Creating sample Bio-data: Features to be covered - Formatting Styles, Inserting table, Bullets and Numbering, Changing Text Direction, Cell alignment, Footnote, Hyperlink, Symbols, Spell Check, Track Changes.

**Task 4:** Creating a Newsletter: Features to be covered - Table of Contents, Newspaper columns, Images from files and clipart, Drawing toolbar and Word Art, Formatting Images, Textboxes, Paragraphs.

### EXCEL:

**Task 1: Excel Orientation:** Accessing, overview of toolbars, saving excel files, Using help and resources.

**Task 2:** Creating a Scheduler - Features to be covered: Gridlines, Format Cells, Summation, auto fill, Formatting Text

**Task 3:** Calculating GPA - Features to be covered:- Cell Referencing, Formulae in excel - average, standard deviation, Charts, Renaming, Inserting worksheets, Hyper link, Count function, LOOKUP/VLOOKUP (Use Autonomous college CGPA)

**Task 4:** Performance Analysis - Features to be covered - Split cells, freeze panes, group, outline, Sorting, Boolean operators, logical operators, Conditional formatting.



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### POWER POINT ( LATEX/MS)

**Task 1:** Power point orientation: Features to be covered - PPT Orientation, Slide Layouts, Inserting Text, Word Art, Formatting Text, Bullets, Numbering, Auto Shapes, Lines and Arrows.

**Task 2:** Interactive presentation: Features to be covered-Hyperlinks, Inserting - Images, ClipArt, Audio, Video, Objects, Tables and Charts.

**Task 3:** Design: Features to be covered - Master Layouts, views, Insert, Background, Animations, Slide-show.

### COURSE OUTCOMES

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C217.1 Understand PC hardware.

C217.2 Use tools like MS-word and LATEX.

C217.3 To train students on PC Hardware, Internet & World Wide Web and Productivity tools including Word, Excel, Power Point and Publisher.

C217.4 Internet & World Wide Web.

C217.5 Power Point (LaTeX/MS).

### PROGRAM EDUCATIONAL OBJECTIVES

PEO1	To induce strong foundation in mathematical and core concepts, which enable them to participate in research, in the field of computer science.
PEO2	To be able to become the part of application development and problem solving by learning the computer programming methods, of the industry and related domains.
PEO3	To gain the multidisciplinary knowledge by understanding the scope of association of computer science engineering discipline with other engineering disciplines.
PEO4	To improve the communication skills, soft skills, organizing skills which build the professional qualities, there by understanding the social responsibilities and ethical attitude.



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### **PROGRAM SPECIFIC OUTCOMES**

#### **PSO1- APPLICATIONS OF COMPUTING:**

Ability to use knowledge in various domains to provide solution to new ideas and innovations.

#### **PSO2- PROGRAMMING SKILLS:**

Identify required data structures, design suitable algorithms, develop and maintain software for real world problems.

#### **PSO3-EXECUTIVE SKILLS:**

Make use of computational and experimental tools for creating innovative career paths, to be an entrepreneur and desire for higher studies.

#### **Do's & Don'ts**

- Switch off the power and unplug equipment before performing service.
- Know where the fire extinguisher is located and how to use it.
- Report fires or accidents to your lecturer/laboratory technician immediately.
- Avoid food and drinks from your workspace.
- Systems operate under normal room temperature.
- Computer lab room's floor should be clean, dry and dust free.
- No one is allowed to delete information from the computer.
- Enter the computer lab quietly and work quietly.
- Do not change computer settings or backgrounds.
- Don't plug in external devices without scanning for computer viruses.
- SAVE all unfinished work to a cloud drive or jump drive.