

19CS104 BASICS OF COMPUTERS AND INTERNET

Hours Per Week :

L	T	P	C
1	-	2	2

Total Hours :

L	T	P	WA/RA	SSH/HSH	CS	SA	S	BS
15	-	30	5	40	5	8	5	5

COURSE DESCRIPTION AND OBJECTIVES:

The objective of this course to give an exposure to the students about components associated with Computers and Internet. Students will get exposure to building blocks of Computers, Operating Systems, Application software, Networking, Internet, World Wide Web, Security, Maintenance of Information Systems.

COURSE OUTCOMES:

Upon completion of the course, student will be able to achieve the following outcomes :

COs	Course Outcomes	POs
1	Demonstrate the disassembling and assembling of a personal computer system.	1
2	Install the operating system and other software required in a personal computer system.	1,2
3	Analyze and visualize the data using various operations in Excel.	3
4	Identify the various threats to users and data.	4

SKILLS:

- ✓ Assemble and disassemble the personal computer system. Install different types of desktop operating systems.
- ✓ Use the basic text processing software, simple data analysis and data presentation tools. Configure network parameters.
- ✓ Secure the personal computer and information from various external threats.
- ✓ Detection and removal of virus from the system.



source:
[https://
 images.vexels.com/
 media](https://images.vexels.com/media)

- UNIT - I** **L - 3**
COMPUTING SYSTEMS I : Introduction to computer; Importance of computers; Parts of computer system- input and output devices.
- UNIT - II** **L - 3**
COMPUTING SYSTEMS II : Processors; Storage Devices; Memory Hierarchy; Number systems; Concepts of OS; Types of operating systems; User interfaces.
- UNIT - III** **L - 3**
COMPUTER SOFTWARE: Software-types of software; Programming languages and translators; Introduction to DBMS.
- UNIT - IV** **L - 3**
COMPUTER NETWORKS: Networking basics; Types of networks; Network hardware; Network topologies.
- UNIT - V** **L - 3**
INTERNET AND SECURITY: Internet and services; World wide web; Using search engine; Domain name system; Email; The need of computer security; Basic security concepts.

LABORATORY EXPERIMENTS

LIST OF EXPERIMENTS

TOTAL HOURS-30

1. Demonstrate the Personal Computer Peripherals and their functions.
2. Demonstrate the Personal computer assembling procedure.
3. Install different flavors of open source operating systems.
4. Demonstrate Network Interface Card (NIC) configuration and get a report on networking devices.
5. Demonstrate the following experiments Using Office automation tools.
 - a. Text formatting and table.
 - b. Mathematical equations.
 - c. Preparation of a report in IEEE format.
 - e. Using Analysis tool.
 - d. Calculate student mark details.
 - e. Create four types of charts.
 - f. Import external data, sort & filter.
 - g. Using Power Point tool.
 - h. Create text and images with effects.
 - i. Two presentations on any topic.
6. Demonstrate the installation of anti-virus software to detect different types of virus programs.
7. Demonstrate a profile webpage by using Hyper Text Markup Language.

TEXT BOOK :

1. Peter Norton, "Introduction to Computers", 7th edition, Tata-McGrawHill, 2010.

REFERENCE BOOKS:

1. ITL Education Solution Limited, "Introduction to Computer Science", 2nd edition, Pearson Education, 2011.
2. Eric Maiwald, "Fundamentals of Network Security", 3rd edition, Tata-McGrawHill, 2004.