

Multi/Interdisciplinary courses

(For other discipline)

Semester-I

Credit: 03

45 Hours

COMP 1031: Basic IT Tools(Theory)

Course Objective

The goal of this course is to present overview of IT tools used in day to day use of computers and data base operations. The Course has been designed to provide knowledge on various hardware and software components of computer, operating system, various packages used for different applications, data base concepts & operations and various issues related to IT and application of IT.

Course Learning Outcomes:

On successful completion of the Course, a student will :

- i. Acquire the foundation level knowledge required to understand computer and its operations.
- ii. Understand the hardware and software components of the computer.
- iii. Understand the basic concept of operating system and get knowledge about various different operating systems.
- iv. Understand to use the packages of word processing, spread sheet and presentation in detail.
- v. Understand various data base concepts and operations.
- vi. Understand the issues related to IT and IT applications
- vii. Prepare research and academic related presentations.

Syllabus

Introduction – Introduction to computers – Evolution – Generation of Computers – Computers Hierarchy – Applications of Computers. (5 Hrs)

Windows Basics – Introduction to word – Editing a document - Move and Copy text - Formatting text & Paragraph – Enhancing document – Columns, Tables and Other features.(10 Hrs)

Introduction to worksheet and shell – getting started with Excel – Editing cell & using Commands and functions – Moving & Copying , Inserting & Deleting Rows & Columns - Printing work sheet.(5 Hrs)

Creating charts – Naming ranges and using statistical, math and financial functions, database in a worksheet – Additional formatting commands and drawing toolbar – other commands & functions – multiple worksheet and macros.(10 Hrs)

Introduction to Database Development: Database Terminology, Objects, Creating Tables, working with fields, understanding Data types, Changing table design, Assigning Field Properties, Setting Primary Keys, Select data with queries: Creating simple Query by design & by wizard (10 Hrs)

Overview of Power point – presenting shows for corporate and commercial using Power point –Introduction to Desktop publishing – Computer viruses – Introduction to Internet – Web features.(5 hrs)

Reference Books:

- i. Swinford, E., Dodge, M., Couch, A., Melton, B. A. (2013). Microsoft Office Professional 2013. United States: O'Reilly Media.
- ii. Wang, W. (2018). Office 2019 For Dummies. United States: Wiley. Microsoft Lambert, J. (2019). Microsoft Word 2019 Step by Step. United States: Pearson Education.
- iii. Jelen, B. (2013). Excel 2013 Charts and Graphs. United Kingdom: Que.
- iv. Alexander, M., Jelen, B. (2013). Excel 2013 Pivot Table Data Crunching. United Kingdom: Pearson Education.
- v. Alexander, M., Kusleika, R. (2018). Access 2019 Bible. United Kingdom: Wiley.

Multi/Interdisciplinary courses

(For Other discipline)

Semester-II

COMP 2031: Introduction to Internet

Credit: 03

45 Hours

Course Objective

This course is intended to teach the basics involved in publishing content on the World Wide Web. This includes the 'language of the Web' – HTML and the fundamental principles of how the Internet and the Web function.

Course Learning Outcomes

On successful completion of the course, students will be able to:

- i. Discuss elementary Internet concepts and history.
- ii. Make a successful Internet connection.
- iii. Demonstrate simple principles of Internet Protocol (IP) addressing.
- iv. Use and customize a web browser.
- v. Comprehend the basics of the internet and web terminologies.

Syllabus

Introduction : Evolution of Internet, concept of Intranet and Internet, Applications of Internet, Types of Connectivity such as dial – up, leased, VSAT. etc., Internet Server and Clients module in various Operating Systems.(5 Hrs)

Usenet and Internet Relay Chat Introduction to World Wide Web: Evolution of WWW, Basics Features, WWW Browsers, WWW servers, HTTP & URL's. (5 Hrs)

WWW Browsers: Basic features, Bookmarks, history. Progress indicators, Personalization of Browsers, Printing displayed pages and forms, Saving Web pages, Netscape Communicators, Internet Explorer, Search and Downloads.(5 Hrs)

Search Engines: Technology overview, Popular Search Engines.

How to register a website in search engine. (5 Hrs)

Internet Security: Overview of Internet Security threats, Firewalls, Introduction to AAA (5 Hrs)

HTML: (20 Hrs)

- **Unit-I: Introduction**
- **Unit-II: The Basics**
 - o The Head, the Body
 - o Colors, Attributes
 - o Lists, ordered and unordered
- **Unit-III: Links**
 - o Introduction
 - o Relative Links, Absolute Links
 - o Link Attributes

- o Using the ID Attribute to Link Within a Document

- **Unit-IV: Images**

- o Putting an Image on a Page
- o Using Images as Links
- o Putting an Image in the Background

- **Unit V: – Tables**

- o Creating a Table
- o Table Headers
- o Captions
- o Spanning Multiple Columns
- o Styling Table

Reference Books

1. Internetworking with TCP/IP – by D.E.Comer, PHI
2. Introduction to HTML and CSS -- O'Reilly