

COURSE STRUCTURE TERM I
CLASS - X

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
X	I	3 Hours	90

S.No.	Description	Periods	Marks
1	Basics of Information Technology	06	20
2	Information Processing Tools	12	40
3	IT Applications	06	10
	Total	24	70
Note: Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.			

Unit I: Basics of Information Technology

Internet: World Wide Web, Web servers, Web sites, Web Pages, Web Browsers, Blogs, News groups, HTML, Web address, E-mail address, URL, HTTP;

Services available on Internet: Information Retrieval, Locating sites using search

engines and finding people on the net, FTP, Downloading and Uploading files from remote site;

Web Services: Chat, email, Video Conferencing, e-Learning, e-Banking, e-Shopping, e-Reservation, e- Governance, e-Groups, Social Networking.

Unit II: Information Processing Tools

Office Tools

Database Management Tool: Basic Concepts and need for a database, Creating a database, Data

Types: Text, Number, Data, Time, Setting the Primary Key, Entering data into a database, Inserting and deleting Fields, Inserting and deleting Records, Field Size, Default Value, Creating Query using Design view.

Information Representation Methods

Hyper Text Markup Language

Introduction to Web Page Designing using HTML, Creating and saving an HTML document, accessing a web page using a web browser (Internet Explorer, Mozilla Firefox, Opera, Apple Safari, Net scape Navigator, Google Chrome);

Elements in HTML: Container and Empty elements, Designing web pages using the following elements:

HTML, HEAD, TITLE, BODY (Attributes: BACKGROUND, BGCOLOR, TEXT, LINK, ALINK, VLINK, LEFT MARGIN, TOP MARGIN), FONT(Attributes: COLOR, SIZE, FACE), BASEFONT(Attributes: COLOR, SIZE, FACE), CENTER, BR (Break), HR(Horizontal Rule, Attributes: SIZE, WIDTH, ALIGN, NO SHADE, COLOR) inserting comments, H1..H6 (Heading), P (Paragraph), B (Bold), I (Italics), U (Underline), UL & OL (Unordered List & Ordered List Attributes: TYPE, START), LI (List Item)

Unit III: IT Applications

Students are suggested to work on the following areas using Database Management Tool on topics implementing the tools covered in the course.

Domains:

Business Computing

- Personal Data Record File
- School/Class Result Record
- Employee Payroll
- Stock Inventory
- Vehicle Parking Record File

Webpage Design

- My Home Page
- My School
- My Family

TERM - I (PRACTICAL)

(A) HANDS ON EXPERIENCE

1 Business Computing Problem:*

A business-computing problem is required to be solved using Database Management Tool (Open Office) for testing the following aspects of database.

Creating and entering data into a database

- Setting the primary key
- Inserting meaningful data and organising
- Creating Query with the same design view of the table.

2. Web Page Designing *

A Web Page designing for testing in the following:

- Adding a title to webpage
- Formatting Text
- Adding Ordered/Unordered Lists
- Writing Text in Paragraphs

The students are supposed to know the tools and style for designing domain specific web pages from real life applications and the topics mentioned in the syllabus.

* Printouts of the Table Content / Web Pages should be attached with the answer sheet.

(B) IT Application Report File

Students are supposed to make an IT Application Report File containing real life assignments using a Database Management Tool and HTML on topics from the domain:

Must have print outs of the following:

- 4 Database Solutions from Business Computing
- 4 HTML source code along with browser view

(C) VIVA VOCE

Oral questions can be asked from any portion of the syllabus covered during Term I.

TERM-II

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
X	I	3 Hours	90

S. No.	Description	Periods	Marks
1	Basics of Information Technology	06	15
2	Information Processing Tools	10	30
3	IT Applications	06	10
4	Societal impacts of IT	05	15
Total		27	70
Note: Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.			

TERM-II (THEORY)

Unit II: Information Processing Tools

Information Representation Methods

Hyper Text Markup Language

Insertion of images using the element IMG (Attributes: SRC, WIDTH, HEIGHT, ALT, ALIGN), Super Script SUP, Subscript SUB, Creating Table using the element TABLE (BACKGROUND, BGCOLOR, WIDTH, CELLSPACING, CELLPADDING, BORDER), TR, TH, TD, ROWSPAN, COLSPAN, Internal and External Linking between Web Pages: Significance of linking, A - Anchor Element (Attributes: NAME, HREF, TITLE, MAILTO)

XML

Introduction to XML, Difference between XML and HTML with respect to the following: Data separation, data sharing, document structure, tags, nesting of elements, attributes, values. XML Elements - Defining own tags in XML, root elements, child elements and their attributes; Comments in XML, White space and new line in XML, well formed XML documents, validating XML documents, XML Parser, Viewing XML documents in a web browser.

Unit III: IT Applications

Students are suggested to work on the following areas using HTML on topics implementing the elements covered in the course.

Domains:

Website Designing

- Personal Blog with Name, Photo, Areas of Interest, School, State, Country
- School Website - Infrastructure, Facilities, Uniform, Motto, School Pictures, Extra-Curricular Activities, Subject and Language Options
- Travel and Tourism

- Statistics on Indian - State wise Area, Population, Literacy (Enrolment in Primary, Middle, Secondary, Senior Secondary), Gender Ratio
- Environment (Save Energy) and Pollution (Global Warming)

Unit IV: Societal Impacts of IT

Virus, Worms, Trojans and Anti-Virus Software, Spyware, Malware, Spams, Data Backup and recovery tools and methods, Online Backups, Hacker and Cracker with regard to Computer Data and Applications, Social Networking Information security provisions in e-commerce, Benefits of ICT in Education, Healthcare, Governance, Virtual, School, emergence of Knowledge economy, Impact of ICT on Society: Knowledge based society, Infomania, Digital Unity and Digital Divide.

TERM - II (PRACTICAL)

(A) HANDS ON EXPERIENCE

1. Web Page Designing*

Web Page designing for testing the following:

- Adding a title to webpage
- Formatting Text
- Inserting Image
- Adding Ordered/Unordered Lists
- Writing Text in Paragraphs
- Adding content in Tabular Form
- Adding Internal / External links.

Adding Internal/External links.

The students are supposed to know the tools and style for designing domain specific web pages from real life applications and the topics mentioned in the syllabus.

2. XML Assignment*

Students to be asked to create an XML document on the lines of XML concepts covered in theory syllabus.

**Printouts of the document(s) should be attached with the answer sheet.*

(B) IT Application Report File

Students are supposed to make a IT Application Report File containing real life assignments on HTML and XML on Domains mentioned in UNIT III

- 4 HTML source code along with browser view
- 2 XML Documents Source Code and View.

(C) VIVA VOCE

The questions can be asked from any portion of the syllabus covered during Term II.