
CBSE Class 10
FOUNDATION OF INFORMATION TECHNOLOGY
(FIT) (CODE No. 165)

Unit	Description	Marks	
		Theory	Practical
Unit I	Basics of Information Technology	10	-
Unit II	Information Processing Tools	25	30
Unit III	Societal Impacts of IT	05	-
Unit IV	IT Applications	-	30
	Total	40	60

CLASS-X (THEORY)

Time: 2:30 hours Marks: 40

Unit I: Basics of Information Technology

Internet: World Wide Web, Web servers, Web sites, Web Pages, Web Browsers, Blogs, Newsgroups, HTML, Web address, Email 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-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, Netscape ,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)

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 (Extensible Markup Language)

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 - Defning 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: Societal Impact of IT

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

CLASS-X (Practical)

Time: 4 hours Marks:60

(A) HANDS ON EXPERIENCE 30 Marks

1. Database Design:*

- 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*

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- 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.

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.

3. 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 APPLICATIONS REPORT FILE 15 Marks

Students are supposed to make a IT Application Report File containing real life assignments using a Database Management Tool and HTML

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

(C) IT Application project using database and website design in a domain such as School Management, Public Services Computing, Business Computing. 10 Marks

(C) VIVA VOCE 05 Marks

Viva based on IT applications report file.