

OBT 3-1
UNIVERSITY
MSC 3.40E: Information Technology

Teaching: 4 hrs./week

Credits: 04

Max Marks: 80 Cont. Assessment. 20

UNIT I

14Hrs

Computer Networks: Definition, network types, network topology, network devices, OSI model, TCP/IP model, Local Area Network (LAN), applications of LAN, Wide Area Network(WAN), IP addressing, IP vs MAC addresses.

UNIT II

8Hrs

Internet Evolution, Basic Internet Terminology, Internet Essentials, Internet Services – USENET, GOPHER, WAIS, ARCHIE and VERONICA, IRC, WORLD WIDE WEB.

UNIT III

10Hrs

Internet Tools: E-Mail, FTP, and Internet Browsers, Visiting web sites, Portals.

Search Engines: Technology Overview. Popular search engines, how to register a web site on internet, Blogs.

UNIT IV

16Hrs

HTML & XHTML: Basic layout of HTML, Head Section: title, base, link, meta. Body Section: Text formatting and alignment, fonts, colors, ordered and unordered lists, links, images, sounds, video, background, tables, forms, frames. Introduction to XHTML

DHTML: Cascading style sheet, inline styles, embedded style, linking external style sheets, positioning elements, user style sheets, document object model.

XML: Structuring data, XML namespaces, DTD and schemas, XML variables, DOM methods, simple API for XML, application of XML.

Overview of MS FrontPage, Macromedia Dream weaver, and other popular HTML editors. Issues in Web site creations & Maintenance, Web Hosting and publishing Concepts

UNIT V

16Hrs

E-Commerce: Introduction to E-Commerce: Definition, framework, applications, merits and demerits. IT Act 2000, Software Agents.

Business Model for E- Commerce: B2B, B2C, C2C, C2B

E-Security: Trust based security, password scheme, cryptography & firewall concept.

E-Payment Standard: Digital token-based system, smart cards, micro-payments, e-cash, designing epayments system, digital signature.

E-SCM & E-CRM.

References

1. V. Rajaraman, Introduction to Information Technology, PHI.
2. P. K. Singh, Introduction to Computer Networks, V. K. Publications, New Delhi
3. Rachna Sharma, Computer Networks, University Science Press, Laxmi Publications.
4. Jesse Feiler, Managing the Web Based Enterprise, Morgan Kaufmann
5. Internet and Web Design, DOEACC 'O' level, Firewall Media.
1. Chuck Musciano & Bill Kennedy, HTML & XHTML, SPD
2. Hossien Bidgoli, Elcetronic Commerce- Principles and Practice, Academic Press.
3. Efraim Turban, David King, Danis, Jae Lee, Electronic Commerce, Prentice Hall.
4. S.Jaiswal , Doing Business on the Internet : E – Commerce, Galgotia Pub.
5. Thomas A. Powell, The Complete Reference HTML.

DEP 1

MSC 3.8: Practical -IV: Internet tools and Web Design Lab.

Practical: 4 hrs./week

Max Marks: 40 Cont. Assessment. 10

Credits: 02

I. Internet Explorer Tour:

Access URL's and follow links; add pages to Favorites; use back/forward buttons; new tabs VS. new windows, switch between open tabs; typing in text boxes. ACTIVITIES – search for and visit sites of popular newspapers and magazines; visit/use web dictionary sites and add them to favorites.

II. Email signup, Send email, open mail, reply Email attachment use basic word processing to compose and save E-mails.

III.

1. Using Search engines
2. Chatting on the net.
3. Using FTP and Tel net server.
4. Using HTML Tags (table, form, image, anchor etc.).
5. Making a Web page of your college using HTML tags.
6. Creating web pages using Front Page/Dream Viewer