

Elective I

MTCE 607A(A) INTERNET & WEB TECHNOLOGY

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Credits : 4

UNIT 1 Introduction

Internet Protocol model, Internet Addresses, IP routing concepts, Table Driven and next hop routing, other routing related protocols, Internet Access through PPP, SLIP, WWW, Web server, Browsers

UNIT 2 Router Technology

Hubs, Bridges, Routers, Routing Protocols, Routing Security, Switch based routing, routing in unicast environment, multicasting, mobile routing

UNIT 3 Web Server Technology

Web's Robot global access to information, HTML, HTTP, Accessing a web server, publishing on web server, secure HTTP, Secure Sockets Layer, WWW Proxies, IIS, Case study of apache web server.

UNIT 4 Browsing Systems

Searching and web casting Technique, Popular web server, basic features, bookmarks, cookies, progress indicators, customization of browsers, browsing tricks, next generation web browsing, search engines, architecture of search engines, search tools, web crawlers, types of crawlers, scalable web crawler, incremental crawler, parallel crawler, focused crawler, agent based crawler, case study of IE.

UNIT 5 Web site Development

HTML, XHTML, DHTML, XML, Structuring data, namespaces, XML schema Documents, Document Object Model, DOM methods, simple API for XML, XSL, SOAP, ASP. Net.

Security and management issues for creating a web site.

Reference Books:

1. Fundamentals of the Internet and the World Wide Web, Raymond Greenlaw and Ellen Hepp- 2001, TMH
2. Internet & World Wide Programming, Deitel, Deitel & Nieto, 2000 Pearson Education
3. Beginning XHTML by Frank Boumpery, Cassandra Greer, Dave Ragett, Jenny Raggett, Sebastian Schnitzenbaumer & ted Wugofski, 2000, WROX press (Indian Shroff Publ. SPD) 1st edition
4. Complete idiots guide to java script, Aron Weiss, QUIE, 1997.
5. Internet & Internet Engg. By Minoli.
6. Internet & Web Technology By Rajkamal.