

Course Title: Web Technologies

Course no: CSC-353

Credit hours: 3

Full Marks: 70+10+20

Pass Marks: 28+4+8

Nature of course: Theory (3 Hrs.) + Lab (3 Hrs.)

Course Synopsis: This course introduces the client server web technology.

Goal: To expose the students with client and server side web programming.

Course Contents:

Unit 1. Introduction: 4 Hrs.

Review of web technology, Review of HTML and JAVA Script

Unit 2. Issues of Web Technology: 6 Hrs.

Architectural issues of web layer, HTTP & FTP Protocols, Tier Technology: 2-Tier, 3-Tier and n-Tier

Unit 3. The Client Tier: 12 Hrs.

Representing content, XML, DTD's, Schemas, Stylesheets and Transformation: CSS, XSL/XSLT, SAX, and DOM, Client-side Programming

Unit 4. The Server Tier: 20 Hrs.

Web Server Concept, Creating Dynamic Content, Using Control Flow to control Dynamic Control Generation, Sessions and State, Error handling, Authentication, Architecting web application, Using tag libraries, Writing tag libraries

Unit 5. Introduction to Advanced Server Side Issues: 3 Hrs.

Laboratory works: The laboratory should cover all the topics mentioned above.

Text / Reference Books:

Matt J. Crouch, **ASP.NET and VB.NET Web Programming**, Pearson Education Asia, 2002

Rahul Banerjee, **Internetworking Technologies**, Prentice-Hall of India Limited, Fourth Edition, 2000