Course Title and Code	CS471- Web Technologies

I. Course Identification and General Information:

Course Title	Web Technologies	Course Code	CS471	Pre-requisite	CS342
Department	Information Technology	Course Level	10	Credit Hours	3(2+2)

II. Course Description/Topics: The following course topics will be covered.

- Web Essentials: Clients, Servers, and Communication.
- The Internet-Basic Internet Protocols -The World Wide Web-HTTP request message-response message-Web Clients Web Servers-Case Study.
- Web Essentials: Clients, Servers, and Communication
- Markup Languages: XHTML
- Style Sheets: CSS
- Client-Side Programming: The JavaScript Language
- Host Objects: Browsers and the DOM
- Server-Side Programming: Java Servlets
- Representing Web Data: XML
- Separating Programming and Presentation: JSP Technology
- Web Services: JAX-RPC, WSDL, XML Schema, and SOAP
- Databases and Java Servlets

III. Course Outcomes: Summary of the main learning outcomes for students enrolled in the course.

- Students will demonstrate the ability to create web pages.
- Students will demonstrate the ability to create images for web pages.
- Students will demonstrate the ability to integrate multimedia into web pages.
- Students will demonstrate their understanding of the SQL Language.
- Students will recognize the proper way of structuring a fully functional website.
- Students will utilize their design skills to create a professional website.
- Students will have an understanding of Client/Server databases.

IV. Required Text:

- Jeffrey C. Jackson, Web Technologies: A Computer Science Perspective, Prentice Hall,2007, ISDN: 9780131856035

V. References:

- Ramesh Bangia , Web Technology (including HTML,CSS,XML,ASP,JAVA),Firewall Media, 2008
- Robert. W. Sebesta, "Programming the World Wide Web", Fourth Edition, PearsonEducation, 2007.
- Deitel, Deitel, Goldberg, "Internet & World Wide Web How To Program", 3rdEdition, Pearson Education, 2006.