

Core Course
CC-109 Dynamic HTML and XML

Course Introduction:

This course is aimed to have develop familiarity with dynamic web page creation concepts like cascading style sheet, JavaScript and XML. It is also aimed to have knowledge of using the concepts in real website.

Objectives:

Students would be able-

- 1) To understand the concept and importance of Dynamic web page designing.
- 2) To recognize the types and attributes of different concepts.
- 3) To identify the key relationship between different concepts.
- 4) To be aware of the real functions of website development.
- 5) To compare static concept with dynamic
- 6) To deal with every tiny elements of website.

No. of Credits: 3

Theory Sessions per week: 4

Teaching Hours: 40 hours

UNIT	TOPICS / SUBTOPICS	TEACHING HOURS
1	<p>Cascading Style Sheet</p> <ul style="list-style-type: none"> • CSS <ul style="list-style-type: none"> ○ Introduction ○ Understanding the concepts of CSS ○ Advantages and disadvantages ○ CSS syntax <ul style="list-style-type: none"> ▪ Grouping selectors and rulers ▪ Using the class selectors ▪ Using the ID selectors ▪ Comparing ID and classes selectors ▪ Using CSS comments ○ Types of Style sheets <ul style="list-style-type: none"> ▪ External ▪ Internal ▪ Inline 	10 hours
	<ul style="list-style-type: none"> • CSS properties and text attributes <ul style="list-style-type: none"> ○ Color ○ Alignment ○ Decoration ○ Transformation 	3 hrs

	<ul style="list-style-type: none"> ○ Indent ○ Letter spacing and word spacing ○ White space ○ Line-height ○ Direction ○ Unicode-bidi 	
	<ul style="list-style-type: none"> • CSS Padding <ul style="list-style-type: none"> ○ Using padding properties ○ Setting padding for all sides ○ Setting padding for each side ○ List properties: list-style-images, list-style-position, list-style-type, list-style ○ CSS positioning(relative, absolute, fixed and Z-index) 	3 hrs
	<ul style="list-style-type: none"> • CSS properties and table attributes 	1 hrs
2	Introduction to JavaScript	10 hours
	<ul style="list-style-type: none"> • JavaScript Introduction <ul style="list-style-type: none"> ○ Understanding JavaScript ○ About Dynamic HTML ○ Selecting an development environment for JavaScript ○ HTML and JavaScript 	4 hrs
	<ul style="list-style-type: none"> • Advanced JavaScript <ul style="list-style-type: none"> ○ Element of JavaScript ○ Variables ○ Operators ○ Flow control statement ○ Arrays ○ Functions ○ Event handling ○ Browser and JavaScript ○ Web page and JavaScript ○ Frames and JavaScript ○ validating User forms 	4 hrs
	<ul style="list-style-type: none"> • Frames and Validation in JavaScript <ul style="list-style-type: none"> ○ Frames and JavaScript ○ Validating User forms 	2 hrs
3	Introduction to XML	10 hours
	<ul style="list-style-type: none"> • XML <ul style="list-style-type: none"> ○ Introduction ○ XML versus HTML ○ XML terminologies 	5 hrs

	<ul style="list-style-type: none"> ○ XML standards(XML,XML namespace, DTD,CSS,XSL,XML schema, Xquery, Xlink, Xpointer, Xpath), ○ XHTML 	
	<ul style="list-style-type: none"> • Creating XML Document <ul style="list-style-type: none"> ○ XML syntax checking ○ The idea of markup ○ XML structure ○ Organizing information in XML ○ Creating well formed XML documents ○ XML namespaces(overview) 	5 hrs
4	XML Document Type Definition and XSLT	10 hours
	<ul style="list-style-type: none"> • XML Documentation <ul style="list-style-type: none"> ○ Introduction to DTD ○ Document type declaration ○ Element type declaration ○ Attribute declaration ○ Conditional sections, limitations of DTD ○ Introduction to schema ○ Complex types ○ Grouping of Data ○ Simple types ○ Deriving types ○ Attributes 	5 hrs
	<ul style="list-style-type: none"> • Introduction to XSL <ul style="list-style-type: none"> ○ What is XSL ○ The need for XSL ○ XSL Transformation ○ Overview(Understanding, classification) ○ Xpath(overview) ○ XSLT ○ Templates ○ Element ○ Attribute ○ Sorting ○ Looping ○ conditional processing ○ copy 	5 hrs

Textbook:

1. A Complete Guide to Internet and Web Programming (Edition-2010)
Publisher: Dream Tech Press.
By Deven N. Shah
2. XML & Related Technologies(First Edition-2009)
Pearson Education.
By Atul Kahate

Reference Books:

1. Step By Step XML(First Edition-2000)
Publisher: PHI Practice-Hall India.
By Michael J. Young
2. Sams Teach Yourself XML in 24 hours (First Edition-2006)
Publisher: PEARSON Education
By Michael Morrison
3. Visual Quick Start XML Second Edition (First Edition-2011)
Publisher: Pearson Education.
By Kevin Howard Goldberg
4. Java Script Indian Edition(First Edition-2008)
Publisher: CENGAGE Learning
By Gosselin
5. DHTML and CSS Advanced(First Edition-2006)
Publisher: Pearson Education.
By Jason cranford Teau