



GUJARAT UNIVERSITY

BCA II SYLLABUS

COURSE TITLE	Dynamic HTML and XML
COURSE CODE	CC-109
COURSE CREDIT	3
Session Per Week	3
Total Teaching Hours	40 HOURS

AIM

LEARNING OUTCOMES

DETAIL SYLLABUS

UNIT	TOPIC / SUB TOPIC	TEACHING HOURS
1	Introduction to HTML 5	10
	<ul style="list-style-type: none"> • Introduction • Basic Elements of HTML 5 <ul style="list-style-type: none"> □ Markup Element <ul style="list-style-type: none"> o <article> o <aside> o <command> o <detail> o <summery> o <figure> o <footer> o <header> o <hgroup> o <mark> o <meter> o <nav> 	3
	<ul style="list-style-type: none"> o <progress> o <ruby> o <rt> o <rp> o <section> o <time> 	

1	<ul style="list-style-type: none"> □ Media Element <ul style="list-style-type: none"> o <audio> o <video> o <source> o <embed> 	
	<ul style="list-style-type: none"> □ Canvas Element □ Form Elements <ul style="list-style-type: none"> o <detailist> o <keygen> o <output> 	4
	<ul style="list-style-type: none"> o The Input type attribute values <ul style="list-style-type: none"> o tel, search, url, email, datetime, date, month, week, time, datetime-local, number, range, color 	3
2	Introduction to JavaScript	10
	<ul style="list-style-type: none"> • JavaScript Introduction <ul style="list-style-type: none"> o Understanding JavaScript o About Dynamic HTML o Selecting an development environment for JavaScript o HTML and JavaScript 	4
	<ul style="list-style-type: none"> • Advanced JavaScript <ul style="list-style-type: none"> o Element of JavaScript o Variables o Operators o Flow control statement o Arrays o Functions o Event handling o Browser and JavaScript o Web page and JavaScript o Frames and JavaScript 	4
	<ul style="list-style-type: none"> • Frames and Validation in JavaScript <ul style="list-style-type: none"> o Frames and JavaScript o Validating User forms 	2
	Introduction to JQuery	10
	<ul style="list-style-type: none"> • Introduction • jquery Primer • Using jquery <ul style="list-style-type: none"> o The two jquery downloads o Including jquery (Using script) o Basic jquery syntax o Connecting jquery to the load event 	

3	<ul style="list-style-type: none"> • Using Selectors <ul style="list-style-type: none"> o Selecting elements by ID o Selecting elements by Class o Selecting elements by Type o Selecting elements by Hierarchy o Selecting elements by Attribute • Functions <ul style="list-style-type: none"> o Traversing the DOM o Changing text and HTML o Inserting Elements • Events <ul style="list-style-type: none"> o Binding and Unbinding o All Events 	
4	Introduction to XML and XML Document Type Definition	10
	<ul style="list-style-type: none"> • XML <ul style="list-style-type: none"> o Introduction o XML versus HTML o XML terminologies o XML standards(XML,XML namespace, DTD,CSS,XSL,XML schema, Xquery, Xlink, Xpointer,Xpath) o XHTML 	5
	<ul style="list-style-type: none"> • XML Documentation <ul style="list-style-type: none"> o Introduction to DTD o Document type declaration o Element type declaration o Attribute declaration o Conditional sections, limitations of DTD 	5

TEXT BOOK/S:

1. HTML 5 in Simple Steps

Publisher: DreamTech Press

By Kongent solution

(Chapter-2 for unit 1)

2. Javascript 2nd Edition Step by step

Author: Steve suehring

(Chapter-22 for unit 3)

3. XML and Related Technologies (First Edition 2009)

Pearson Education



GUJARAT UNIVERSITY

BCA SEM II SYLLABUS

COURSE TITLE	DYNAMIC HTML & Advance Technology- PRACTICALS
COURSE CODE	CC-113
COURSE CREDIT	3
Session Per Week	3
Total Teaching Hours	40 HOURS

AIM

To develop the skill about the advanced topics of DHTML and JAVASCRIPT.
To make the students able to make interactive web site using DHTML, Javascript and XML.

LEARNING OUTCOMES

On the completion of the course students will:

1. Understand the basic to detail of CSS
2. Learn the fundamentals of Javascript.
3. Understand the use of XML in web site development.

DETAIL SYLLABUS

UNIT	TOPIC / SUB TOPIC	TEACHING HOURS
1	1. Write HTML program which contains cascaded style sheet for p, h2, h3, body and font attribute	10
	2. Write HTML program which contains external style sheet with user defined Classes.	
	3. Write HTML program which contains cascaded style sheet with border attributes of style sheet	
	4. Write HTML program which contains cascaded style sheet with margin attributes of style sheet	
	5. Write HTML program which contains external style sheet with background attributes of style sheet.	4
2		10
	1. Write a javascript to print your name and surname on screen.	10
	2. Write a javascript to find sum of two numbers entered by user.	
	3. Write a javascript to find sum of N numbers entered by user.	
	4. Write javascript to validate textbox to accept only text value.	
	5 Write a javascript to find reverse of given string.	4
	7. Write a java script to validate email address entered in textbox	4

3	1.Test if jQuery is loaded.	10
	2.Scroll to the top of the page with jQuery	
	3.Disable right click menu in html page using jquery	
	4. Write a JQuery for Limit character input in the textarea including count	
	5. Write a jquery to Display a message when the contextmenu event is triggered on the paragraph elements	4
4		10
	1. Create an XML document template to describe the result of student in an examination. The description should include the student's roll number, name, three subject names andmarks, total marks, percentage, and result	
	2.Write program to demonstrate how to add attribute and Entity in XML document .	
	3.Create External DTD declaration for BOOKs XML document.(Element type declaration)	
	4.Write a program to describe Empty, Any and Mixed content in DTD.	4
	5.Write a program to describe Attribute declaration in DTD.	5
		5

TEXT BOOK/S:

1.HTML 5 in SIMPLE STEPS

Publisher : DREAMTECH PRESS

BY Kogent Learning Solutions Inc.

2. Javascript 2nd Edition Step by step

Author: Steve suehring

3. XML and Related Technologies (First Edition 2009)

Pearson Education

By Atul Kahate

REFERENCE BOOKS:

1. HTML 5, Javascript and jQuery 24-Hour Trainer ,Dane Cameron,Wiley Publication
2. JavaScript Bible
3. HTML, DHTML, JavaScript, Perl & CGI Ivan Bayross
4. Beginning XML Wrox Press
5. XML how to program Deitel & Deitel.

WEB RESOURCES:

- www.w3schools.com
- The Mozilla JavaScript Guide
- Codecademy JavaScript Track
- http://css-tricks.com
- Learn to Code HTML & CSS
- JavaScript Garden
- http://www.xml.com

REQUIRED SOFTWARE/S

1. Any editor of Windows or Linux/UNIX.
2. Browser to view web pages