DEPARTMENT OF COMPUTER APPLICATIONS

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Course Title	WEB TECHNOLOGY		
Course Code	CAS771	No. of Credits	3
Department	Computer Applications	Faculty	Dr. S.Sangeetha
Pre-requisites Course Code	-		
Course Teacher(s)/Tutor(s) E-mail	sangeetha@nitt.edu	Telephone No.	0431-2503743
Course Type	Core course		

COURSE OVERVIEW

This course introduces client-side and server side programming concepts based on Worldwide Web Consortium standard. It covers Markup languages, stylesheets, validations, JavaScript, PHP, Database connectivity, XML, Web services and RDF. On Successful completion of this course, students should be able to develop web pages using these standards.

COURSE OBJECTIVES

- *To comprehend basics of the internet and web terminologies.*
- *To introduce the features of HTML5 to develop rich applications.*
- *To introduce scripting language concepts for developing client side applications.*
- *To practice server side programming features.*
- *To be familiar with database connectivity.*
- *To know the usefulness of web services and creation of the same.*

Course Outcomes

- *Design and develop web applications.*
- *Understand client and server side scripting and their applicability*

S.No.	Week	Topic	Mode of Delivery
1	1	Evolution of Internet - Introduction to Web - Static and Dynamic Web -Principles of Web design	Presentation -4 hrs
2	2	HTML for static web - HTML 5	Presentation -1 hrs Demo – 1 hour Problem solving – 1hr
3	3	Forms – Graphics – Media – APIs – CSS.	-do-
4	4	JavaScript and DHTML: Simple JavaScript, variables, functions, condition - JavaScript and Objects -	-do-
5	5	DOM and the Web browser Environment – Event Handling - Forms and validation – Cookies JQuery.	-do-
6	6	Introduction to ASP – .NET Framework – ASP .NET – Controls	-do-
7	7	– Sessions – Cookies – Form Handling - SQL Server - JSP – Overview – Simple applications	-do-
8	8	PHP - Adding PHP to HTML, Syntax and Variables, Passing information between pages, Strings -	-do-
9	9	Arrays and Array Functions – Numbers - Basic PHP errors / problems - Sessions and Cookies and Database Connectivity.	-do-
10	10	Connecting Databases - With ASP, ASP .NET, JSP, PHP	-do-
11	11	Web Services – Introduction – Elements – XML – RDF – WSDL – UDDI – SOAP – Applications.	-do-

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Test 1	4th week of August	1 Hr	20
2	Test 2	3rd week of october	1 Hr	20
3	Assignment	Week 8	1 week	10
4	End Semester Exam	At the end of course	3 hrs	50

ESSENTIAL READINGS :

1. Kogent Learning Solutions Inc., "Web Technologies: HTML, JavaScript, PHP, Java, JSP, XML, And AJAX, Black Book", Dream tech Press, 2012.
2. Harvey M. Deitel and Paul J. Deitel, "Internet & World Wide Web How to Program, 4th Edition, Pearson Education, 2008.

COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)

- The students through the class representative may give their feedback at any time to the course faculty which will be duly addressed.
- The students may also give their feedback during Class Committee meeting.

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

- **Plagiarism**
  The students are expected to come out with their original solution for problems given as assignment, and tests/examinations.
- **Attendance**
  100% is a must. However, relaxation upto 25% will be given for leave on emergency requirements (medical, death, etc.) and representing institute events.

ADDITIONAL COURSE INFORMATION

The Course Coordinator is available for consultation office from 4 pm to 5 pm every day.
Students can access the course in Moodle site http://egov.nitt.edu/moodle

FOR SENATE'S CONSIDERATION

Dr.S.Sangeetha	**(Dr.U.Srinivasulu Reddy)**	**(Dr.A.Vadivel)**
Course Faculty	Class Committee Chairperson	HoD