

COURSE CODE	COURSE TITLE	L	T	P	C
1153CS105	WEB DESIGNING	3	0	0	3

Course Category: Allied Elective

A. Preamble:

This course Internet Programming provides an introduction and Basic Concepts of Server-Side Programming and Designing of Static and Dynamic Webpages.

B. Pre-requisites:

Sl. No	Course Code	Course Name
1	1150CS201	Problem Solving using C

C. Link to Other Courses:

Sl. No	Course Code	Course Name
		Nil

D. Course Educational Objective:

Students are exposed to:

- Basic Internet Protocols.
- JAVA and HTML tools for Internet programming.
- Scripting languages – Java Script.
- Dynamic HTML programming and Web services
- Server-Side Programming tools

E. Course Outcomes:

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's taxonomy)
CO1	Understand the concepts of appropriate database Connectivity of Java and SQL for a web Application	K2
CO2	Illustrate various services in Hibernate and Struts framework	K2
CO3	Design a static web page using HTML for the given Application	K3
CO4	Design and implement simple web page in PHP, and to present data in XML format.	K3
CO5	Design rich client presentation using AJAX.	K3

F. Correlation of COs with Programme outcomes:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	H	H	L											M	
CO2	M													M	
CO3	H	H	H		L	M			L					M	L
CO4	H	H	H		M	M			L					M	L
CO5	H	H	M		M	M			L					M	L

G.Syllabus Content:

UNIT I WEBSITES BASICS, HTML 5, CSS 3

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Basics-RIA Rich Internet Applications Internet technologies Overview –Understanding the difference between internet and intranet; HTML and CSS: HTML 5.0, XHTML, CSS 3- TCP and Datagram Sockets – Remote Method Invocation - Servlets, Java Server Pages. – JDBC Java Beans – Enterprise Java Beans.

UNIT II NAMING SERVICES AND STRUTS

9

Java Security – Native Methods – Java Virtual Machine - Naming Services – Java Mail – Java Messaging Services – Transactions- Introduction to struts Frame work.

UNIT III HIBERNATE, HTML AND PROTOCOLS

9

Introduction to hibernate – Hibernate, HQL – J2EE (struts) and hibernate –Hibernate and Aspect – Birth Reporting Tool. Introduction – Network concepts - Web concepts – Internet addresses – URL – Retrieving Data with URL - CGI – Introduction to HTML – HTML protocols – HTTP, SMTP, POP3, MIME, IMAP – Forms – Events

UNIT IV PHP and XML 8

9

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in Functions- Connecting to Database – Using Cookies-Regular Expressions; XML: Basic XML- Document Type DefinitionXML Schema DOM and Presenting XML, XML Parsers and Validation, XSL and XSLT Transformation, News Feed (RSS and ATOM).

UNIT V INTRODUCTION TO AJAX and WEB SERVICES

9

Ajax Client Server Architecture-XML Http Request Object-Call Back Methods; Web Services: Introduction- Java web services Basics – Creating, Publishing, Testing and Describing a Web services (WSDL)-Consuming a web service, Database Driven web service from an application – SOAP

Total: 45 Hours

G. Learning Resources:

i. Text Books

1. Deitel & Deitel, Goldberg, “Internet and world wide web – How to Program”, Pearson Education Asia, 2011.

ii. Reference Books

1. Chris Bates, Web Programming – Building Intranet Applications, 3 rd Edition, Wiley Publications, 2009.
2. Jeffrey C and Jackson, “Web Technologies A Computer Science Perspective”, Pearson Education, 2011.
3. Uttam K.Roy, “Web Technologies”, Oxford University Press, 2011.

iii. Online Resources

1. Eric Ladd, Jim O’ Donnel, “Using HTML 4, XML and JAVA”, Prentice Hall of India – QUE, 1999.
2. PHP &MYSQL TimConverse,Joyce Park, Alark Morgan.
3. PHP for Beginners Vikram Vaswani, Tata McGraw-Hill
4. Ajax in Action, Dreamtech press
5. WWW. W3schools.com