

COURSE CODE	COURSE TITLE	L	T	P	C
1151CS202	INTERNET PROGRAMMING	2	0	2	3

Course Category: Program Core

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	1151CS103	Programming in Java
2	1151CS117	Java Programming

C. Related Courses:

Sl. No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. 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	Demonstrate web applications using Hypertext Markup Language, Cascading style sheets and Java Database Connectivity.	K2
CO2	Explain about the java networking technologies and working of struts framework.	K2
CO3	Develop applications using hibernate framework and Hypertext Markup Language Protocols.	K3
CO4	Design web applications in PHP (Hypertext Preprocessing) and to present data in XMLformat.	K3
CO5	Illustrate Rich Internet Application using AJAX and web services.	K2

E. Correlation of COs with Program outcomes and Programme Specific Outcomes:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
CO1	M	M	M						L				L	H	L
CO2	M	L	L	L	L								L	M	L
CO3	M	H	H	M	L			L	H	L	M	M	L	H	L
CO4	M	H	H	L				L	M			M	L	M	L
CO5	M	M	M	L	L	L	L	L	H		M	M	L	H	L

H- Strong; M-Medium; L-Low

F. Course Content:

UNIT I WEBSITES BASICS, HTML 5, CSS 3

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 periods

G. Learning Resources:

i. Text Book

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. UttamK. 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 VikramVaswani, Tata McGraw-Hill
4. Ajax in Action, Dreamtech press
5. WWW. W3schools.com