VERTICALS

CCS375 WEB TECHNOLOGIES

LTPC 2 0 2 3

COURSE OBJECTIVES:

- To understand different Internet Technologies
- To learn java-specific web services architecture
- To Develop web applications using frameworks

UNIT I WEBSITE BASICS, HTML 5, CSS 3, WEB 2.0

7

Web Essentials: Clients, Servers and Communication – The Internet – World wide web – HTTP Request Message – HTTP Response Message – Web Clients – Web Servers – HTML5 – Tables – Lists – Image – HTML5 control elements – Drag and Drop – Audio – Video controls - CSS3 – Inline, embedded and external style sheets – Rule cascading – Inheritance – Backgrounds – Border Images – Colors – Shadows – Text – Transformations – Transitions – Animations. Bootstrap Framework

UNIT II CLIENT SIDE PROGRAMMING

6

Java Script: An introduction to JavaScript–JavaScript DOM Model-Exception Handling-Validation-Built-in objects-Event Handling- DHTML with JavaScript- JSON introduction – Syntax – Function Files.

UNIT III SERVER SIDE PROGRAMMING

5

Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actions- Session Handling- Understanding Cookies- DATABASE CONNECTIVITY: JDBC.

UNIT IV PHP and XML

6

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in functions- Form Validation. XML: Basic XML- Document Type Definition- XML Schema, XML Parsers and Validation, XSL,

UNIT V INTRODUCTION TO ANGULAR and WEB APPLICATIONS FRAMEWORKS 6 Introduction to AngularJS, MVC Architecture, Understanding ng attributes, Expressions and data binding, Conditional Directives, Style Directives, Controllers, Filters, Forms, Routers, Modules, Services; Web Applications Frameworks and Tools – Firebase- Docker- Node JS- React- Django-UI & UX.

COURSE OUTCOMES:

CO1: Construct a basic website using HTML and Cascading Style Sheets

CO2: Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.

CO3: Develop server side programs using Servlets and JSP.

CO4: Construct simple web pages in PHP and to represent data in XML format.

CO5: Develop interactive web applications.

30 PERIODS 30 PERIODS

PRACTICAL EXERCISES:

List Of Experiments:

- 1. Create a web page with the following using HTML.
 - To embed an image map in a web page.
 - To fix the hot spots.
 - Show all the related information when the hot spots are clicked.

- 2. Create a web page with all types of Cascading style sheets.
- 3. Client Side Scripts for Validating Web Form Controls using DHTML.
- 4. Installation of Apache Tomcat web server.
- 5. Write programs in Java using Servlets:
 - To invoke servlets from HTML forms.
 - Session Tracking.
- 6. Write programs in Java to create three-tier applications using JSP and Databases
 - For conducting on-line examination.
 - For displaying student mark list. Assume that student information is available in a database which has been stored in a database server.
- 7. Programs using XML Schema XSLT/XSL.

TOTAL:60 PERIODS

TEXTBOOKS

- 1. Deitel and Deitel and Nieto, Internet and World Wide Web How to Program, Prentice Hall, 5th Edition, 2011.
- 2. Jeffrey C and Jackson, Web Technologies A Computer Science Perspective, Pearson Education, 2011.
- 3. Angular 6 for Enterprise-Ready Web Applications, Doguhan Uluca, 1st edition, Packt Publishing

REFERENCES:

- 1. Stephen Wynkoop and John Burke —Running a Perfect Websitell, QUE, 2nd Edition,1999.
- 2. Chris Bates, Web Programming Building Intranet Applications, 3rd Edition, Wiley Publications, 2009.
- 3. Gopalan N.P. and Akilandeswari J., —Web Technologyll, Prentice Hall of India, 2011.
- 4. UttamK.Roy, —Web TechnologiesII, Oxford University Press, 2011.
- 5. Angular: Up and Running: Learning Angular, Step by Step, Shyam Seshadri, 1st edition, O'Reilly

CO's- PO's & PSO's MAPPING

CO's	PO's												PSO's	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
1	2	2	3	3	3		-	-	2		-1	3	3	-
2	3	2	3	2	3	-	-	-	2	-	-	3	3	-
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5	2	2	3	1	2	-	-	-	3	-	-	2	3	1
AVg.	2.2	2.2	2.8	2.2	2.8	-	-	-	2	-	-	2.6	2.8	1.5

1 - low, 2 - medium, 3 - high, '-' - no correlation

CCS332 APP DEVELOPMENT

LTPC 2023

COURSE OBJECTIVES:

- To learn development of native applications with basic GUI Components
- To develop cross-platform applications with event handling
- To develop applications with location and data storage capabilities
- To develop web applications with database access