



COURSE PLAN

Subject code: CS8651	Branch/Year/Sem/Section: B.E CSE/III/VI
Subject Name: INTERNET PROGRAMMING	Batch: 2017-2021
Staff Name: S.SASHIKUMAR	Academic year: 2019-2020 (EVEN)

COURSE OBJECTIVE

1. To understand different Internet Technologies
2. To learn java-specific web services architecture

TEXT BOOK:

T1. 1. Deitel and Deitel and Nieto, —Internet and World Wide Web - How to Programl, Prentice Hall, 5th Edition, 2011.

REFERENCES:

- R1.** Stephen Wynkoop and John Burke —Running a Perfect Websitel, QUE, 2nd Edition, 1999.
- R2.** Chris Bates, Web Programming – Building Intranet Applications, 3rd Edition, Wiley Publications, 2009.
- R3.** Jeffrey C and Jackson, —Web Technologies A Computer Science Perspectivel, Pearson Education, 2011.
- R4.** Gopalan N.P. and Akilandeswari J., —Web Technologyl, Prentice Hall of India.
- R5.** UttamK.Roy, —Web Technologiesl, Oxford University Press, 2011.

WEB RESOURCES

W1: <https://nptel.ac.in>

TEACHING METHODOLOGIES:

- BB - BLACK BOARD
- VIDEO - VIDEO TUTORIAL
- PPT - POWER POINT PRESENTATION



DHANALAKSHMI SRINIVASAN
INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University)
NH - 45, Trichy - Chennai Trunk Road,
SAMAYAPURAM, TRICHY - 621 112.
E.mail: dsit2011@gmail.com Website: www.dsit.ac.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS8651- INTERNET PROGRAMMING L T P C 3 0 0 3

UNIT I - WEBSITE BASICS, HTML 5, CSS 3, WEB 2.0 9

Web Essentials: Clients, Servers and Communication – The Internet – Basic Internet protocols – World wide web – HTTP Request Message – HTTP Response Message – Web Clients – Web Servers – HTML5 – Tables – Lists – Image – HTML5 control elements – Semantic 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.

UNIT II CLIENT SIDE PROGRAMMING 9

Java Script: An introduction to JavaScript–JavaScript DOM Model-Date and Objects,- Regular Expressions- Exception Handling-Validation-Built-in objects-Event HandlingDHTML with JavaScript- JSON introduction – Syntax – Function Files – Http Request – SQL.

UNIT III SERVER SIDE PROGRAMMING 9

Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actionsSession Handling- Understanding Cookies- Installing and Configuring Apache Tomcat Web Server- DATABASE CONNECTIVITY: JDBC perspectives, JDBC program example - JSP: Understanding Java Server Pages-JSP Standard Tag Library (JSTL)-Creating HTML forms by embedding JSP code.

UNIT IV PHP and XML 9

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in functionsForm Validation- Regular Expressions - File handling – Cookies - Connecting to Database. XML: Basic XML- Document Type Definition- XML 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: 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

Topic No	Topic Name	Books For reference	Page No	Teaching Methodology	No of periods required	Cumulative periods
UNIT I WEBSITE BASICS, HTML 5, CSS 3, WEB 2.0						(9)
1.	Web Essentials: Clients, Servers and Communication	T1	(3-7)	BB	1	1
2.	The Internet – Basic Internet protocols.	T1 T2	(25-27), (27-29)	BB	1	2
3.	World wide web – HTTP Request Message	T1 T2	(28-37), (109-115)	BB	1	3
4.	HTTP Response Message, – Web Clients	T1	(39-44)	BB	1	4
5.	Web Servers – HTML5 – Tables	T1	(45-50)	BB	1	5
6.	Image – HTML5 control elements – Semantic elements	T1 T2	(50-59), (180-187)	BB	1	6
7.	Drag and Drop – Audio – Video controls - CSS3 – Inline, embedded and external style sheets	T1 T2	(59-64), (175-180)	BB	1	7
8.	Rule cascading – Inheritance – Backgrounds – Border Images	T1	(69-89)	BB	1	8
9.	Shadows – Text – Transformations – Transitions – Animations.	T2	(278-329)	BB	1	9
LEARNING OUTCOME:						
At the end of unit , the students will be able to						
<ul style="list-style-type: none"> • To understand the basics Signals, Antennas, Signal Propagation • Students to learn how to Media Access Control. 						
UNIT II CLIENT SIDE PROGRAMMING						(9)
10.	Java Script: An introduction to JavaScript	T1 T2	(93-100), (18-20)	BB/PPT	1	10
11.	JavaScript DOM Model	T1	(105-113)	BB	1	11
12.	Date and Objects,- Regular Expressions	T1	(117-122)	BB/PPT	1	12
13.	Regular Expressions- Exception Handling- Validation	T1	(122-130)	BB/PPT	1	13
14.	Built-in objects	T1	(130-134)	BB	1	14
15.	Event Handling DHTML with JavaScript	T1	(134-149)	BB/PPT	1	15

16.	JSON introduction –	T2	(251-252)	BB	1	16
17.	Syntax – Function Files	T2	(252-259)	BB	1	17
18.	Http Request – SQL.	T2	(260-262)	BB	2	18

LEARNING OUTCOME:

At the end of unit , the students will be able to

- To make the students solve UMTS & IMT 2000-UMTS.
- To using Telecommunication Networks methods.

UNIT – III SERVER SIDE PROGRAMMING (9)

19.	Servlets: Java Servlet Architecture	T1	(201-205)	BB	1	19
20.	Servlet Life Cycle- Form GET and POST actions Session Handling	T1	(207-210)	BB/PPT	1	20
21.	Understanding Cookies	T1	(211-213)	BB	1	21
22.	Installing and Configuring Apache Tomcat Web Server-	T1	(214-224)	BB	1	22
23.	DATABASE CONNECTIVITY:	T1	(225-230)	BB/PPT	1	23
24.	JDBC perspectives, JDBC program example - JSP	T1	(231-238)	BB/PPT	1	24
25.	Understanding Java Server Pages	T1	(239-257)	BB	1	25
26.	JSP Standard Tag Library (JSTL)	T1	(257-268)	BB	1	26
27.	Creating HTML forms by embedding JSP code	T1	(269-293)	BB/PPT	1	27

LEARNING OUTCOME:

At the end of unit , the students will be able to

- To given students the exposure about Physical Layer: FHSS, DSSS.
- And using Blue tooth – Physical Layer techniques.

UNIT IV PHP and XML (9)

28.	An introduction to PHP: PHP- Using PHP	T1 T2	(303-308), (373-387)	BB	1	28
29.	Variables- Program control- Built-in functions Form Validation-	T1	(309-312)	BB	1	29
30.	Regular Expressions -	T1	(315-320)	BB	1	30
31.	File handling – Cookies	T1	(321-324)	BB	1	31

32.	Connecting to Database. XML: Basic	T1	(328-330)	BB	1	32
33.	XML- Document Type Definition-,	T1	(330-334)	BB	1	33
34.	XML Schema DOM and Presenting XML	T1	(335-338)	BB	1	34
35.	XML Parsers and Validation,	T1	(339-343)	BB	1	35
36.	XSL and XSLT Transformation, News Feed (RSS and ATOM).	T1	(343-346)	BB	1	36

LEARNING OUTCOME:

At the end of unit , the students will be able to

- To make the students understand Ad Hoc Network: - Routing, Types.
- Problems solved Mobile IP - IP Packet Delivery are discussed for better understanding.

UNIT V INTRODUCTION TO AJAX and WEB SERVICES (9)

37.	AJAX: Ajax Client Server Architecture-	T1	(351-353)	BB	1	37
38.	XML Http Request Object-Call Back Methods	T1	(353-359)	BB	1	38
39.	Web Services: Introduction-	T1	(360-363)	BB	2	39
40.	Java web services Basics	T1	(363-365)	BB	1	40
41.	Creating, Publishing	T1	370-372)	BB	1	41
42.	Testing and Describing a Web services (WSDL)	T1	(394-397)	BB	1	42
43.	Consuming a web service	T1	(400-416)	BB & PPT	2	43
44	Database Driven web service from an application	T1	(400-416)	BB	2	44
45	SOAP	T1	(400-416)	BB	2	45

LEARNING OUTCOME:

At the end of unit , the students will be able to

To make students understand and solve Mobile Transport Layer, Wireless Application Environment techniques.

COURSE OUTCOME

At the end of the course, the student should be able to:

- Construct a basic website using HTML and Cascading Style Sheets.
- Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.
- Develop server side programs using Servlets and JSP.
- Construct simple web pages in PHP and to represent data in XML format.
- Use AJAX and web services to develop interactive web applications

CONTENT BEYOND THE SYLLABUS

- XML DATA BASE CONNECTIVITY.

CONTINUES INTERNAL ASSESSMENT DETAILS

ASSESMET NUMBER	I	II	MODEL
TOPIC NO.(UNIT)	1-18 (1 st & 2 nd units)	19-36 (3 rd & 4 th units)	1-45 (units 1-5)

ASSIGNMENT DETAILS

ASSIGNMENT NUMBER	I	II	III
TOPIC NUMBER FOR REFERENCE	1-18 (1 st & 2 nd units)	19-36 (3 rd & 4 th units)	1-45 (units 1-5)
DEAD LINE			

ASSIGNMENT NUMBER	DESCRIPTIVE QUESTIONS/TOPIC (Minimum of 8 Pages)
I	World wide web – HTTP Request Message
II	JSP Standard Tag Library (JSTL)
III	Testing and Describing a Web services (WSDL)

PREPARED BY**S.SASHI KUMAR, AP/CSE****VERIFIED BY****HOD/CSE****APPROVED BY****PRINCIPAL**