



Department of Information Technology	LP: OE18806 Rev. No: 00
B.E/B.Tech/M.E/M.Tech : Common to all (Except IT) Regulation:2018A PG Specialisation : NA Sub. Code / Sub. Name : OE18806 – User Interface Design Unit : I	Date: 2.1.2024

Unit Syllabus: WEBSITE BASICS

Introduction to computer networks – Internet Standards – Introduction to WWW –WWW architecture – SMTP – POP3 – File Transfer Protocol – Overview of HTTP, HTTP request – response – Generation of dynamic web pages.

Objective: To understand the concepts and architecture of the World Wide Web.

Session No *	Topics to be covered	Ref	Teaching Aids
1	Introduction to computer networks	WEB 1	LCD/BB
2	Internet Standards	T1-Ch.1: Pg. No. 19-23	LCD/BB
3	Introduction to WWW	T1-Ch.1: Pg. No. 25-37	LCD/BB
4	WWW architecture	T1-Ch.1: Pg. No. 38-53	LCD/BB
5	SMTP, POP	WEB 1	LCD/BB
6	File Transfer Protocol	WEB 1	LCD/BB
7	Overview of HTTP	WEB 1	LCD/BB
8	HTTP request – response	WEB 1	LCD/BB
9	Generation of dynamic web pages	T1-Ch.1: Pg. No. 54-60	LCD/BB

Content beyond syllabus covered (if any):

* Session duration: 50 minutes



Sub. Code / Sub. Name: OE18806 – User Interface Design

Unit : II

Unit Syllabus :

INTRODUCTION TO HTML5

HTML5: What is HTML5 – Features of HTML5 – Semantic Tags – New Input Elements and tags – Media tags(audio and video tags) – Designing Graphics using Canvas API – Drag and Drop features – Geolocation API – Web Storage (Session and local Storage).

Objective: To understand and practice HTML5.

Session No *	Topics to be covered	Ref	Teaching Aids
10	What is HTML5?	T1-Ch.2: Pg. No. 61-80	LCD/BB
11	Features of HTML5	T1-Ch.2: Pg. No. 61-80	LCD/BB
12	Semantic Tags	T1-Ch.2: Pg. No. 81-93	LCD/BB
13	New Input Elements and tags	T1-Ch.2: Pg. No. 81-93	LCD/Experiential learning/Sublime Text Editor
14	Media tags (Audio and video tags)	T1-Ch.2: Pg. No. 104-107	LCD/Experiential learning/Sublime Text Editor
15	Designing Graphics using Canvas API	T1-Ch.2: Pg. No. 94-103	LCD/Experiential learning/Sublime Text Editor
16	Drag and Drop features	T1-Ch.2: Pg. No. 54-60	LCD/Experiential learning/Sublime Text Editor
17	Geolocation API	T1-Ch.2: Pg. No. 54-60	LCD/Experiential learning/Sublime Text Editor
18	Web Storage (Session and local Storage)	T1-Ch.2: Pg. No. 54-60	LCD/BB

Content beyond syllabus covered (if any):

* Session duration: 50 mins



Sub Code / Sub Name: : OE18806 – User Interface Design
Unit: III

Unit Syllabus: INTRODUCTION TO CSS3

CSS3: What is CSS3 – Features of CSS3 – Implementation of border radius ,box shadow, Image border, custom web font, backgrounds – Advanced text effects(shadow) – 2D and 3D Transformations – Transition to elements – Animations to text and elements

Objective: To understand and practice the styling of web pages.

Session No *	Topics to be covered	Ref	Teaching Aids
19	What is CSS3?	T1-Ch.3: Pg. No. 121	LCD/BB
20	Features of CSS3	T1-Ch.3: Pg. No. 123-125	LCD/BB
21	Implementation of border radius, box shadow	T1-Ch.3: Pg. No. 151-168	LCD/Experiential learning/Sublime Text Editor
22	Image border, custom web font	T1-Ch.3: Pg. No. 140-149	LCD/Experiential learning/Sublime Text Editor
23	Backgrounds	T1-Ch.3: Pg. No. 154-157	LCD/Experiential learning/Sublime Text Editor
24	Advanced text effects(shadow)	WEB 1	LCD/Experiential learning/Sublime Text Editor
25	2D and 3D Transformations	WEB 1	LCD/Experiential learning/Sublime Text Editor
26	Transition to elements	WEB 1	LCD/Experiential learning/Sublime Text Editor
27	Animations to text and elements	WEB 1	LCD/BB

Content beyond syllabus covered (if any):

* Session duration: 50 mins



Sub. Code / Sub. Name: OE18806 – User Interface Design
Unit : IV

Unit Syllabus: INTRODUCTION TO CLIENT-SIDE SCRIPTING

Introduction – Core features – Datatypes and Variables – Operators, Expressions and Statements – Functions & Scope – Objects – Array, Date and Math related Objects – Host Objects: Browsers and the DOM – Introduction to the Document Object Model, DOM History and Levels – Intrinsic Event Handling – Modifying Element Style – The Document Tree – DOM Event Handling – Accommodating Noncompliant Browsers Properties of window.

Objective: To understand and practice client side scripting

Session No *	Topics to be covered	Ref	Teaching Aids
28	Introduction – Core features	Internet	LCD/BB
29	Datatypes and Variables – Operators, Expressions and Statements	T1-Ch.4: Pg. No. 200-208	LCD/Experiential learning/Code Pen Text Editor
30	Functions & Scope	T1-Ch.4: Pg. No. 208-209	LCD/Experiential learning/Code Pen Text Editor
31	Objects – Array, Date and Math related Objects	T1-Ch.4: Pg. No. 212-226	LCD/Experiential learning/Code Pen Text Editor
32	Host Objects: Browsers and the DOM	T1-Ch.5: Pg. No. 249	LCD/Experiential learning/Code Pen Text Editor
33	Introduction to the Document Object Model	T1-Ch.5: Pg. No. 249-250	LCD/Experiential learning/Code Pen Text Editor
34	DOM History and Levels – Intrinsic Event Handling	T1-Ch.5: Pg. No. 251-252	LCD/Experiential learning/Code Pen Text Editor
35	Modifying Element Style – The Document Tree – DOM Event Handling	T1-Ch.5: Pg. No. 254-281	LCD/Experiential learning/Code Pen Text Editor
36	Accommodating Noncompliant Browsers Properties of window	T1-Ch.5: Pg. No. 282-289	LCD/BB

Content beyond syllabus covered (if any):

* Session duration: 50 mins



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Unit : V

Unit Syllabus: **INTRODUCTION TO SERVER-SIDE SCRIPTING**

Server-Side Programming: Java Servlets – Architecture – Overview – A Servlet – Generating Dynamic Content – Life Cycle – Parameter Data-Sessions – Cookies – URL Rewriting – Other Capabilities – Data Storage Servlets and Concurrency – Databases and Java Servlets.

Objective: To understand and practice server side scripting

Session No *	Topics to be covered	Ref	Teaching Aids
37	Server-Side Programming: Java Servlets	T1-Ch.6: Pg. No. 307	LCD/BB
38	Architecture	T1-Ch.6: Pg. No. 308	LCD/BB
39	Overview – A Servlet	T1-Ch.6: Pg. No. 309	LCD/BB
40	Generating Dynamic Content	T1-Ch.6: Pg. No. 309-311	LCD/BB
41	Life Cycle	T1-Ch.6: Pg. No. 311-313	LCD/BB
42	Parameter Data-Sessions, Cookies	T1-Ch.6: Pg. No. 314-329	LCD/BB
43	URL Rewriting – Other Capabilities	T1-Ch.6: Pg. No. 332-338	LCD/BB
44	Data Storage Servlets and Concurrency	T1-Ch.6: Pg. No. 338-350	LCD/BB
45	Databases and Java Servlets	T1-APPENDIX C	LCD/BB

Content beyond syllabus covered (if any):

* Session duration: 50 mins



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TEXT BOOKS:

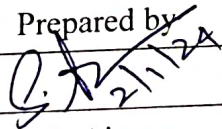
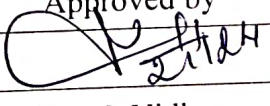
1. Jeffrey C. Jackson, "Web Technologies--A Computer Science Perspective", Pearson Education.

REFERENCES:

1. Thomas A Powell, Fritz Schneider, —JavaScript: The Complete Referencel, Third Edition Tata McGraw Hill, 2013.
2. David Flanagan, —JavaScript: The Definitive Guide, Sixth Editionl, O,,Reilly Media, 2011.
3. Robert. W. Sebesta, "Programming the World Wide Web", Fourth Edition, Pearson Education, 2007.
4. Deitel, Deitel, Goldberg, "Internet & World Wide Web How To Program", Third Edition, Pearson Education, 2006.
5. Marty Hall and Larry Brown,"Core Web Programming" Second Edition, Volume I and II, Pearson Education, 2001.
6. Bates, "Developing Web Applications", Wiley, 2006.

WR – Web Reference:

web1.www.w3schools.com

	Prepared by	Approved by
Signature		
Name	Ms. S. Aiswarya	Dr. V. Vidhya
Designation	Assistant Professor	Professor & HoD
Date	02-01-2024	02-01-2024

Remarks *: The same lesson plan is followed for the current semester (EVEN 2023 - 2024).

* If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD