



SARVAJANIK UNIVERSITY
Sarvajani College of Engineering and Technology
Master of Computer Applications



Integrated MCA I Semester 1

Subject Name: Fundamentals of Web Designing

Subject Code: IMCA13105

Type of course: Professional Core Course

Prerequisite (if any):

- Basic knowledge of working with computers and internet.

List of Courses where this course will be prerequisite:

- Web Development.

Rationale: Understanding of basics of internet domains, HTML JavaScript, Bootstrap.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks		Practical Marks		Total
L	T	P	C	TEE	CAT	TEP	CAP	
2	0	0	2	60	40	-	-	100

CAT: Continuous Assessment Theory comprised of CA1 and CA2 **CA1:** Continuous Assessment (assignments/projects/open book tests/closed book tests **CA2:** Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems **TEE:** Term End Examination **TEP:** Term End Practical Exam (Performance and viva on practical skills learned in course) **CAP:** Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course





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Content:

Sr. No.	Topics	Teaching Hrs.	Module Weightage
1.	Unit1: Internet Basics Basic concepts, Communication on the Internet, Internet Domains, Internet Server Identities, Establishing Connectivity on the Internet, Client IP Address, Brief Overview of TCP/IP and its Services, Transmission Control Protocol, Web Server, Web Client.	04	14%
2.	Unit2: Introduction to HTML: What is HTML, HTML Documents, Basic structure of an HTML document, commenting code ,Creating an HTML document, Mark up Tags, Heading-Paragraphs, Line Breaks, HTML Tags, Elements of HTML, Working with Text, Working with Lists, Tables and Frames, Working with Hyperlinks, Images and Multimedia, Working with Forms and controls.	07	23%
3.	Unit3: Introduction to Cascading Style Sheets: Concept of CSS, Creating Style Sheet, Applying Style to a Document, CSS rules, Style types, CSS selectors, CSS cascades, Fonts and typography, Managing text styles, CSS colors, Positioning elements, Pseudoclasses, The box model and Layout, CSS backgrounds, CSS borders ,Box Shadows, Element Overflow, Multicolumn Layout, Colors and Opacity, Text Effects, Web Fonts, Google Web Fonts, Transformations, 3D Transformations, Transitions	07	23%
4.	Unit4: Introduction to JavaScript, JavaScript Objects, Event Handling. Javascript – Introduction, core features, data types and variables, operators, expressions and statements, Obtaining User Input with prompt Dialogs, Control structures (if statements, while statement, for statement, switch statement, do..while statements),Break/Continue statements, Functions, objects, array JavaScript Objects: Introduction, Math Object, String Object, Date Object, Boolean and Number Objects, document object model Java Script Event Handling: Introduction, Reviewing the load event, Event the mousemove and the event object, Rollover with mouseover and mouseout, From Processing with focus, blur, submit and reset, Event bubbling , form handling and validations.	07	23%





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5.	Unit5: Design Web Sites Using Bootstrap Bootstrap Introduction , Grid Structure , Table, Colours, Alerts, Form Controls , Buttons and ButtonGroups , Images, Media Objects , Pagination , Bootstrap Grids.	05	17%
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Suggested Specification table with Marks (Theory/Practical):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
20	20	20	10	10	20

Legends: R: Remembrance, U: Understanding; A: Application, N: Analyze, E: Evaluate C: Create and above Levels (Revised Bloom’s Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Text Books:

Sr. No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Web Enabled Commercial Application Development Using HTML, JavaScript, DHTML and PHP	Ivan Bayross	BPB Publication ISBN: 9788183330084	2011	4 th Edition
2	HTML & CSS: The Complete Reference,	Powell Thomas A.	McGraw Hill Book Inc. ISBN:9780070701946	2016	5 th Edition
3	Practical Bootstrap: Learn to Develop Responsively with One of the Most Popular CSS Frameworks	Panos Matsinopoulos	APress ISBN: 9781484260708	2021	1 st Edition





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Course Outcome:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % weightage
CO-1	Able to understand use of internet domains.	14%
CO-2	Able to understand the use of HTML in web applications.	23%
CO-3	Able to understand use of CSS in for designing web application	23%
CO-4	Able to understand use of Java Script for validation in web application	23%
CO-5	Able to understand the use of Bootstrap to understand mvc frameworks.	17%

Mapping with POs:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12	PO 13
CO-1	3	3	0	0	0	0	3	0	0	0	0	3	3
CO-2	3	3	0	0	3	0	3	0	0	0	0	3	3
CO-3	3	3	0	0	0	0	3	0	0	0	0	3	3
CO-4	3	3	0	0	3	0	3	0	0	0	0	3	3
CO-5	3	3	0	0	3	0	3	0	0	0	0	3	3
CO-6	3	3	0	0	3	0	3	0	0	0	0	3	3
Rationale*													

Rationale*: Explaining why it is matching this particular program outcome

List of Open Source/learning website:

<https://www.w3schools.com/>

<https://getbootstrap.com/>

