DEPARTMENTOFCOMPUTERSCIENCE&APPLICATIONS KURUKSHETRAUNIVERSITY, KURUKSHETRA

	Session:2023-24			
PartA-Introduction				
Subject	BCA			
Semester	II			
Nameofthe Course	Introduction to Web Technologies			
CourseCode	B23-CAP-202 (Common with B23-CAI-202, B23-CDS- 202,B23-CTS-202)			
CourseType:(CC/MCC/MDC /CC- M/DSEC/VOC/DSE/PC/AEC/ VAC)	СС			
Level of the course (As perAnnexure-I	100-199			
Pre- requisiteforthecourse(ifany)				
CourseLearningOutcomes(CLO):	 Aftercompletingthis course, the learner will be able to: learnthe basics of web development. understand different types of web pages and web sites. implementHTML and CSS for web page designing. Understand the design of web crawlers and search engines. 5*. to implement the programs based on various concepts of web development. 			
Credits	Theory	Practical	Total	
Credits	3	1	4	
ContactHours	3	2	5	
Max.Marks:100(70(T)+30(P)) InternalAssessmentMarks:30(20(T)+10(P)) EndTermExamMarks:70(50(T)+20(P))		Time:3Hrs.(T),3H	Hrs.(P)	
Pa	rtB-ContentsoftheC	Course		
Inst Examiner will set a total of r compulsory.Remaining eight question each unit.Examination will be of thr	ons will be set from	t of which first four unit selecting t	wo questions from	

each unit.Examination will be of three-hour duration. All questions will carry equal marks. First questionwill compriseofshort answertypequestionscoveringentiresyllabus.

Candidate will have to attempt five questions in all, selecting one question from each unit. Firstquestionwillbecompulsory.

Practicum will be evaluated by an external and an internal examiner. Examination will be of

Unit	Topics	Contact Hours
Ι	Introduction to Internet and World Wide Web (WWW); Evolution and History of World Wide Web, Web Pages and Contents, Web Clients, Web Servers, Web Browsers; Hypertext Transfer Protocol, URLs; Searching, Search Engines and Search Tools. Web Publishing: Hosting website; Internet Service Provider; Planning and designing website; Web Graphics Design, Steps For Developing website	10
II	Creating a Website and Introduction to Mark up Languages (HTML and DHTML), HTML Document Features & Fundamentals, HTML Elements, Creating Links; Headers; Text styles; Text Structuring; Text colour and Background; Formatting text; Page layouts, Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes, HTML5	10
III	Introduction to CSS (Cascading Style Sheets): Features, Core Syntax, Types, Style Sheets and HTML, Style Rule Cascading and Inheritance, Text Properties, CSS Box Model, Normal Flow Box Layout, Positioning, and other useful Style Properties; Features of CSS3.	
IV	The Nature of JavaScript: Evolution of Scripting Languages, JavaScript-Definition, Programming for Non-Programmers, Introduction to Client–Side Programming, Enhancing HTML Documents with JavaScript. Static and Dynamic web pages	10
V*	 Practicum: Students are advised to do laboratory/practical practice not limitedto, but including the following types of problems: Create a web page using ordered list and unordered list. Design a web page to show your institute with hyperlinks. Create your resume on HTML page. Create a web page divide the web page into four frames. In one frame create three links that will display different HTML forms in the remaining three frames respectively. Create a web page to show the record of the college in the form of a table. Write a HTML code to add internal CSS on a webpage Design a blog-style personal website. 	25

• Design a web page to display your college with hyperlinks.				
 Design a web page to display your conege with hypermixs. Write a JavaScript function to calculate the sum of two 				
numbers.				
• Write a JavaScript program to find the maximum number in				
an array.				
• Write a JavaScript function to check if a given string is a				
palindrome (reads the same forwards and backward).				
• Write a CSS file and attachit to any 3 HTML webpages.				
• Use Div and span in a page and color two words with the				
same colors.				
• Using HTML,CSS create a styled checkbox with animation on state change				
• Design a web page that is like a compose page of e-mail. It				
should have:				
a) Text boxes for To, CC, and BCC respectively.b) Text field for the message				
b) Text field for the message.c) Send button.				
d) Option for selecting a file for attachment				
d) Option for selecting a me for attachment				
• After clicking the send button a new page should open with				
the display message "Message has been sent".				
SuggestedEvaluationMethods				
InternalAssessment:	End-			
> Theory	TermExamin			
 ClassParticipation:5 Seminar/presentation/assignment/quiz/classtestetc.:5 	ation: A three- hourexam for			
 Mid-TermExam:10 	boththeory			
	andpracticum.			
> Practicum	EndTermExa			
 ClassParticipation:5 Seminar/Demonstration/Viva-voce/Labrecordsetc.:5 	mMarks:70(5			
 Mid-TermExam: NA 	0(T)+20(P))			
PartC-LearningResources				
RecommendedBooks/e-resources/LMS:				
• Raj Kamal, Internet and Web Technologies, Tata McGraw-Hill.				
Ramesh Bangia, Multimedia and Web Technology, Firewall Media.				
• Thomas A. Powell, Web Design: The Complete Reference, Tata McGraw-Hill				
Wendy Willard, HTML Beginners Guide, Tata McGraw-Hill.				
 Deitel and Goldberg, Internet and World Wide Web, How to Program, PHI Devid Elenagen, Jove Serint: The Definitive Guide: The Definitive Guide 				
 David Flanagan, JavaScript: The Definitive Guide: The Definitive Guide. Kogent Learning, Web Technologies: HTML, JavaScript, PHP, Java, JSP, XML, AJAX – 				
 Kogent Learning, Web Technologies: HTML, JavaScript, PHP, Java, J. Black Book, Wiley India Pvt. Ltd. 	or, aml, ajaa –			
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*Applicable for courses having practical components.