Course: 405-01: Web Designing-2

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Course Code	405-01
Course Title	Web Designing-2
Credit	4
Course Category:	Major Course
Level of Course:	300- 399 (Higher Course)
Teaching per Week	4 Hrs (2 Hours Theory + 4 Hours of Lab. Work)
Minimum weeks per	15 (Including class work, examination, preparation etc.)
Semester	(morating class work, examination, preparation etc.)
Review / Revision	2023-2024
Implementation Year:	2024-2025
Purpose of Course	Web Design requires designers to create graphics, typography as well as images which are used only on the World Wide Web. While creating any design, well designers need to maintain balance between creating a good design as well as the speed and efficiency for the webpage/ website. This course deals with server-side communication.
Course Objective	To make students aware of web terminology and website designing tools. Studen can understand and implement the real functions of website development.
Pre-requisite	Knowledge of HTML5, Bootstrap, JavaScript
Course outcome	CO1: Students will be able to create, organize and design websites. CO2: Students gain formal understanding of XML-based technologies which are used in Web-service. CO3: Students will be able to make dynamic changes to a web pages as well as respond to user and browser events through JQuery CO4: Students will be able to learn cross-browser supports via Ajax and Jason CO5: Students will be able to write asynchronous code using various techniques through Node.js
Mapping between	PSO1 PSO2 PSO3 PSO4 PSO5 PSO6 PSO7 PSO8
Course	COI
Outcome(CO) and	CO2
Program Specific	CO3
Outcome (PSO):	CO4
	CO5
Course Content	Unit-1: Introduction of XML: 1.1 Characteristic and Use of XML 1.2 XML syntax (Declaration, Tags, elements) 1.3 root element, case sensitivity 1.4 XML document: 1.4.1 Document Prolog Section 1.4.2 Document element section 1.5 XML declaration and rules of declaration. Unit-2: jQuery Fundamentals: 2.1 Introduction and basics: 2.1.1 Advantage of jQuery and Syntax 2.1.2 jQuery Selectors:

	2.2 jQuery Effects:2.2.1 Show/Hide, Fade, Slide, Stop, Chaining, Callback
	2.3 jQuery Manipulation methods: 2.1.1 Get/Set methods (text(), attr(), html(), val()) 2.1.2 Insert methods: (append(), prepend(),text(), before(), after(), wrap()) 2.1.3 Remove element methods: (remove(),empty(),unwrap()) 2.3.4 Query Get and Set CSS properties using css() method.
	Unit-3: JSON: (JavaScript Object Notation) 3.1 Concept and Features of JSON 3.2 Similarities and difference among JSON and XML 3.3 JSON objects(with string and Numbers)) 3.4 JSON Arrays and their examples: 3.4.1 Array of string, Array of Numbers, Array of Booleans 3.4.2 Array of objects, Multi-Dimensional Arrays 3.4.3 JSON comments
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	Unit-5: Node.js: 5.1 Concepts, working and Features 5.1.1 Downloading Node.js 5.2 Setting up Node.js server(HTTP server) 5.2.1 Installing on window 5.2.2 Components 5.2.2.1 Required modules, Create Server(http.createServer()) 5.2.2.2 Request and response 5.3 Built-in Modules 5.3.1 require() function 5.3.2 User defined module: create and include 5.3.3 HTTP module 5.4 Node.js as Web-server: 5.4.1 createServer(), writeHead() method 5.4.2 Reading Query String, Split Query String 5.5 File System Module: 5.5.1 Read Files (readFile()) 5.5.2 Create Files(appendFile(),open(),writeFile()) 5.5.3 Update Files(appendFile(),writeFile()) 5.5.4 Delete Files(unlink()) 5.5.5 Rename Files(rename())
Reference Books	JavaScript and JQuery (Interactive Front-End Web Development) by Jon Duckett JavaScript and JQuery (The missing manual) by David Sawyer MCFarland
	 Essential ASP.NET Web Forms Development, Full Stack Programming with C#, SQL, Ajax, and JavaScript, Robert E. Beasley, Publisher: Apress

	4) Foundations of Ajax, Ryan Asleson, Schutla, Publisher: Apres
	5) Ajax: The Complete Reference, By Thomas Powell, ISBN: 978-0-07- 149216-4
	6) Head First Ajax, Author: Rebecca M.Riordan, publisher: O'Reilly
	7) Practical Node.js, Author: Azat Mardan,ISBN:978-1-4842-3038-1, Publisher: Apress
	8) Node.JS Guidebook, BPB Publication, ISBN: 9789387284432, Author: Dhruti Shah.
	 JavaScript for Modern Web Development, ISBN: 9789389328721, eISBN: 9789389328738, Authors: Abhilasha Sinha, Ranjit Battewad,
	Alok Ranjan
	10) Mastering HTML, CSS & Javascript Web Publishing, Authors:by Laura Lemay, Rafe Colburn, BPB Publication
	11) JavaScript by Example, Author: Elitle Quigley, Publication: Prentice
	13) XML crash course, Publisher: Tata McGraw Hill, ISBN:
	14) Beginning jQuery: From the Basics of jQuery to Writing your Own
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	50% Internal assessment.
	50% External assessment.
Methodology	 Practical Node.js, Author: Azat Mardan,ISBN:978-1-4842-3038-1, Publisher: Apress Node.JS Guidebook, BPB Publication, ISBN: 9789387284432, Author: Dhruti Shah. JavaScript for Modern Web Development, ISBN: 9789389328721, eISBN: 9789389328738, Authors: Abhilasha Sinha, Ranjit Battewad, Alok Ranjan Mastering HTML, CSS & Javascript Web Publishing, Authors:by Laura Lemay,Rafe Colburn, BPB Publication JavaScript by Example, Author: Elitle Quigley, Publication: Prentice Hall, ISBN: 9780137054893, 9780137054893. XML in easy steps, Publication: Tata McGraw Hill XML crash course, Publisher: Tata McGraw Hill, ISBN: 9780071815161, 9780071815161 Beginning jQuery: From the Basics of jQuery to Writing your Own Plug-ins, by Jack Franklin Russ Ferguson, 978-1484230268 Class Work, Discussion, Self-Study, Seminars and/or Assignments

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