



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S  
**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**

(Approved by AICTE & Affiliated to University of Mumbai)

**Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.**

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : [www.frcrce.ac.in](http://www.frcrce.ac.in) • Email : [crce@fragnel.edu.in](mailto:crce@fragnel.edu.in)

## Department of Computer Engineering (Academic Year :2023-2024)

<b>Course Code: CSDL05012</b>	
<b>Course Name: Internet Programming (Div A)</b>	
<b>Course Teacher: Prof. Prachi Patil</b>	
<b>Course Outcomes (CO): <i>At the End of the course students will be able to</i></b>	
CO.1	Design interactive web pages using HTML and CSS for a given application.
CO.2	Construct a responsive web site using JavaScript and database connectivity through JDBC
CO.3	Construct Rich Internet Applications using Ajax and various web extensions.
CO.4	Develop web applications using ReactJs



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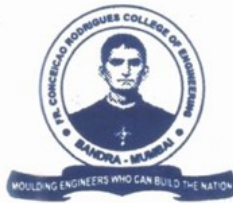
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## Course Lesson Plan

Sr. No.	Proposed Date	Actual Date	Topics	CO	Teacher's Remarks	HOD's Remark
1	11/7		Web Essentials: Client, Server and Communication, Internet History , Use and Terminologies	CO1	Lecture	
2	13/7		IP, TCP, DNS, URL, Commonly used Internet Protocols	CO1	Lecture	
3	14/7		HTTP protocol- request and response communication	CO1	Lecture	
4	18/7		HTML basic Tags	CO1	Lecture	
5	19/7		HTML tags-tables ,form, semantic elements	CO1	Lecture	
6	20/7		HTML tag- semantic tags, drag and drop, audio and video controls with examples	CO1	Lecture	
7	21/7		CSS – Inline, Embedded and external styles	CO1	Lecture	
8	25/7		CSS- Rule cascading, Inheritance, Specificity , background, color, text	CO1	Lecture	
9	27/7		CSS- Shadows, transformations, transitions, animations	CO1	Lecture +class Assignment (complete module)	
10	28/7		Javascript-Introduction to variables, constants, keywords, functions and comments , DOM	CO2	Lecture	
11	01/8		Javascript- Examples	CO2	Lecture	
12	03/8		Javascript- Regular Expressions- Exception Handling,	CO2	Lecture	
13	04/8		Javascript- Validation-Built-in objects	CO2	Lecture	
14	08/8		Javascript- Event Handling	CO2	Lecture	
15	10/8		Javascript- DHTML with JavaScript	CO2	Lecture + Class Assignment	
16	11/8		JSON introduction, Function Files – Http	CO2	Lecture	



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		Request –SQL.			
	15/8	<b>Independence Day</b>			
17	17/8	Servlets: Java Servlet Architecture, Servlet LifeCycle	CO2	Lecture	
18	18/8	Form GET and POST actions, Session Handling, Understanding Cookies	CO2	Lecture	
19	22/8	Installing and Configuring Apache Tomcat Web Server, Database Connectivity: JDBC perspectives	CO2	Lecture	
20	24/8	JDBC program example	CO2	Lecture+Class Assignment	
21	25/8	Understanding JavaServer Pages, JSP Standard Tag Library (JSTL)	CO3	Lecture	
	28/8	<b>Unit Test-1</b>	CO1, 2,3		
	29/8	<b>Unit Test-1, Mid-Term Feedback</b>	CO1, 2,3		
22	31/8	Creating HTML forms by embedding JSP code.	CO3	Lecture	
23		<b>Remedial Session</b>			
24	1/9	Creating HTML forms by embedding JSP code.	CO3	Lecture	
25	5/9	Characteristics of RIA and Intro to AJAX, AJAX vs Traditional Approach	CO3	Lecture	
26	7/9	Rich User Interface using Ajax	CO3	Lecture	
27	8/9	jQuery framework with AJAX.	CO3	Lecture +Class Assignment	
28	12/9	XML –DTD (Document Type Definition), XML Schema, Document Object Model, Presenting XML	CO3	Lecture	



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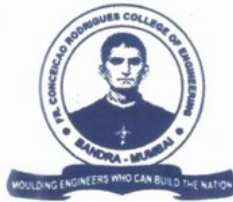
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29	14/9	Using XML Parsers: DOM and SAX	CO3	Lecture	
30	15/9	XSL-eXtensible Stylesheet Language	CO3	Lecture	
	19/9-22/9	Shri Ganesh Chaturthi			
31	26/9	Introduction to PHP, building web applications using PHP	CO3	Lecture	
	28/9	Anant Chaturdashi			
32	29/9	tracking users, PHP and MySQL database connectivity with example	CO3	Lecture +Class Assignment	
	2/10	Mahatma Gandhi Jayanti			
33	3/10	Introduction, React features, App "Hello World" Application,	CO4	Lecture	
34	5/10	Introduction, React features, App "Hello World" Application,	CO4	Lecture +class Assignment	
	9/10-13/10	Unit Test-2			
35	17/10	Introduction to JSX, Simple Application using JSX	CO4	Lecture	
36	19/10	Introduction to JSX, Simple Application using JSX	CO4	Lecture	
	23/10				Synergy
	24/10				Synergy
	26/10				Synergy
	30/10	Dashahera			
	31/10	Remedial Session			
37	2/11	Remedial Session			
		<b>University ESE Examination</b>			



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<b>Textbooks:</b>	
1	Ralph Moseley, M.T. Savliya, "Developing Web Applications", Willy India, Second Edition, ISBN: 978-81-265-3867-6
2	"Web Technology Black Book", Dremtech Press, First Edition, 978-7722-997
3	Robin Nixon, "Learning PHP, MySQL, JavaScript, CSS & HTML5" Third Edition, O'REILLY, 2014. ( <a href="http://www.ebooksbucket.com/uploads/itprogramming/javascript/Learning_PHP_MySQL_Javascript_CSS_HTML5_Robin_Nixon_3e.pdf">http://www.ebooksbucket.com/uploads/itprogramming/javascript/Learning_PHP_MySQL_Javascript_CSS_HTML5_Robin_Nixon_3e.pdf</a> )
4	Dana Moore, Raymond Budd, Edward Benson, Professional Rich Internet Applications: AJAX and Beyond Wiley publications. <a href="https://ebooks-it.org/0470082801-ebook.htm">https://ebooks-it.org/0470082801-ebook.htm</a>
5.	Alex Banks and Eve Porcello, Learning React Functional Web Development with React and Redux, O'REILLY, First Edition
<b>References:</b>	
1	Harvey & Paul Deitel & Associates, Harvey Deitel and Abbey Deitel, Internet and World Wide Web - How To Program, Fifth Edition, Pearson Education, 2011.
2	Achyut S Godbole and Atul Kahate, —Web Technologies, Second Edition, Tata McGraw Hill, 2012.
3	Thomas A Powell, Fritz Schneider, —JavaScript: The Complete Reference, Third Edition, Tata McGraw Hill, 2013
4	David Flanagan, —JavaScript: The Definitive Guide, Sixth Edition, O'Reilly Media, 2011
5	Steven Holzner —The Complete Reference - PHP, Tata McGraw Hill, 2008
6	Mike McGrath—PHP & MySQL in easy Steps, Tata McGraw Hill, 2012.

**Online Sources:**

1. Channel – CodewithHarry- [https://www.youtube.com/watch?v=6mbwJ2xhgzM&list=PLu0W\\_9III9agiCUZYRsvtGTXdxkzPyItg](https://www.youtube.com/watch?v=6mbwJ2xhgzM&list=PLu0W_9III9agiCUZYRsvtGTXdxkzPyItg)
2. Channel- ApnaCollege- <https://www.youtube.com/@ApnaCollegeOfficial>

**Course Instructor: Prof. Prachi Patil**