

SWE1008	WEB TECHNOLOGIES	L	T	P	J	C
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Pre-requisite	CSE1002	Syllabus version				
		v.1.0				
Course Objectives:						
1. To understand the basic technologies, functionality, and applications influencing Web Programming						
2. To learn the fundamentals for the web system and internet programming						
3. To design and publish web applications using open source software						
Expected Course Outcome:						
1. Understand the basic structure of the Internet and web page.						
2. Learn the fundamentals of <i>JavaScript</i> in Web development.						
3. Design and develop web pages using CSS styles.						
4. Illustrate the basic concepts of PHP in web application.						
5. Design and execute dynamic, database-driven web pages using PHP.						
6. Understand and apply advanced PHP concepts.						
7. Understand the CGI program concepts in PERL.						
8. Apply industry-standard tools and frameworks for developing responsive web design.						
Student Learning Outcomes (SLO)		2, 5, 20				
Module:1	Introduction to HTML5:	6 hours				
Introduction, Evolution of Web, W3C, HTML5, Headings, Links, Images, Lists, Tables, Frames, Divisions, Forms, Media Tags						
Module:2	Java Script	6 hours				
Introduction to JavaScript, Variables, Conditional and Loops, Events, Functions, Frames, HTML document, Predefined Object, Image Object, Layers, Drag and Drop						
Module:3	Dynamic Html:	6 hours				
Introduction to Cascading Style Sheets, Inline Styles, Style Sheets, Grouping & Short Hand Properties, Inheritances, Classes, Link, Cascading Styles, Dynamic Style. Document Object Model.						
Module:4	Introduction to PHP	6 hours				
History, Basic syntax, Defining functions, Useful functions and language constructs, Arrays, Web, Exceptions, Date and time, Regular expressions						
Module:5	MYSQL Database	6 hours				
Introduction to MySQL, Data types, Advanced SQL query building, Advanced MySQL Joins, PHP with MySQL, PHP MyAdmin, Importing and Exporting CSV Files						
Module:6	Advanced PHP Concepts	6 hours				

File Functions, File uploading, Graphics, Mail, Multipart mailing, Attachments in mail, Sessions, Cookies		
Module:7	CGI with PEARL	7 hours
Introduction to PERL, Basic I/O, Variables, and Scalar Data, Arrays, Lists, and Hashes, CGI Programming, Pattern Matching.		
Module:8	Contemporary issues: Applications of web technologies in industry	2 hours
	Total Lecture hours:	45 hours
Text Book(s)		
1.	Harvey M. Deitel and Paul J. Deitel , “Internet and World Wide Web – How to Program 5th editon”, Pearson Education, November, 2011.	
Reference Books		
1. Paul S. Wang, Chapman & Hall "Welcome to Dynamic Web Programming and HTML5"1st Edition CRC Press, Florida, USA, November 21, 2012 ISBN 978-1-4398-7182-9		
2. Tom Christiansen, brian d foy, Larry Wall, Jon Orwant "Programming Perl", 4th Edition, O'Reilly Media, February 2012.		
3. Kevin Tatroe,Peter MacIntyre,Rasmus Lerdorf “Programming PHP” 3rd Edition, O'Reilly Media, July 2014		
List of Challenging Experiments (Indicative)		SLO: 2, 5, 20
1.	HTML	
2.	DHTML	
3.	java Script	
4.	Form Validations in PHP	
5.	File Handling in PHP	
6	Databases in PHP	
7	Session Tracking in PHP	
8	PERL	
Total Laboratory Hours		30 hours
Recommended by Board of Studies		12.06.2015
Approved by Academic Council		No. 37 Date 16.06.2015