

231CSC601T Regulation - R23 Y1S2	Web Technologies	Periods per week				Credits
		L	T	P	R	
		3	0	0	0	3

SCHEME OF EXAMINATION

Duration of End Semester Examination	Marks			Minimum marks for Pass	
	Continuous assessment Examination	End Semester Examination	Maximum marks	End Semester Examination	Total
3	40	60	100	45	50

PREREQUISITES:

Nil

COURSE OBJECTIVES:

1.	To familiar with web page design using HTML
2.	To be familiar with Cascading Stylesheet
3.	To learn to create dynamic web pages using javascript.
4.	To be exposed to creating applications with node.js
5.	To learn to design responsive web applications using bootstrap

COURSE OUTCOMES (COs):

Upon completion of this course, student will be able to:	Bloom's level
CO1: Construct Web pages using HTML	K6
CO2: Apply Cascading Style sheets for web application development.	K3
CO3: Build dynamic web pages using Java Script	K6
CO4: Develop Web Applications using node.js.	K5
CO5: Construct responsive Web Applications.	K6

UNIT	TITLE	PERIODS
I	HTML5	8

Internet: Introduction – WWW – Websites - Web Client – Web Servers - URL - DNS - HTML5 - Basic HTML Tags - HTML Lists, HTML Tables - HTML Form Controls.

UNIT	TITLE	PERIODS

II	CASCADING STYLE SHEET	9
CSS3 - CSS Syntax - CSS Selectors - CSS Types - CSS Box Model – CSS Positioning, CSS Properties (text, font, background, border, margin), CSS transform, CSS transition, CSS Animations, CSS Flex		
UNIT	TITLE	PERIODS
III	JAVASCRIPT	10
Javascript - JavaScript Introduction - Control Statements - Functions - DOM, Array, Objects and Built in Objects - Event Handling, Classes, JS Web APIs, jQuery, JSON, AJAX.		
UNIT	TITLE	PERIODS
IV	NODE.JS FRAMEWORK	9
Node.js - HTTP Module, File System Module, URL Module, NPM, Node.js Events - Node.js Upload Files - Node.js MySQL - CRUD - Join		
UNIT	TITLE	PERIODS
V	DYNAMIC WEB PROGRAMMING	9
BOOTSTRAP, Developing a responsive website, Combining Web Applications and Mobile Applications, API Integration with Front End, Case Study: e-commerce websites and e-carts.		

TOTAL PERIODS:	45
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TEXT BOOKS:	
1.	Paul J. Deitel, Abby Deitel and Harvey M. Deitel. Internet and World Wide Web: How to Program, 5/e, Pearson Education
2.	Marc Wandschneider. Learning Node.js: A Hands-On Guide to Building Web Applications in JavaScript, Second Edition

REFERENCE BOOKS:	
1.	Duckett, J.(2014). JavaScript and JQuery: Interactive Front-End Web Development. Wiley.
2.	Node.js Design Patterns - Second Edition: Master best practices to build modular and scalable server-side web applications 2nd Edition, Kindle Edition

WEBSITES:	
1.	https://www.w3schools.com/html/
2.	https://www.w3schools.com/css/
3.	https://www.w3schools.com/js/

COURSE DESIGNERS

1.	Dr Y. Justin Dhas	HoD / AI&ML	Computer Science and
2.	Dr S Ahamed Ali	Assistant Professor	Computer Science and

Recommended by Board of Date: 10.05.2024	Syllabus 1
Approved by the Academic Date: 22.07.2024	Meeting No. 7