Maharashtra State Board of Technical Education, Mumbai
<u>TEACHING PLAN (TP)</u>

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik   **Semester: Sixth**

Programme and Code: Information Technology (IF)   **Course Index: 604**

Course and Code: Client Side Scripting (CSS)   **Course Code: 316005**

Scheme: K   **Allocated Hrs. 30**   **Name of Faculty: Mrs. N. S. Gite**   **Class: TYIF (Param)**

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Develop web page using client side scripting technology.
- CO2 - Design dynamic web pages using AngularJS.
- CO3 - Implement the built-in functions and objects in AngularJS.
- CO4 - Develop web application using React.
- CO5 - Apply event handling in React Framework.

TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category	Learning Scheme Actual Contact Hrs/Week CL	TL	LL	SLH	NLH	Credits	Paper Duration	Theory FA-TH Max	SA-TH Max	Total Max	Total Min	Practical FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
316005	Client Side Scripting	CSS	AEC	2	-	4	-	6	3	-	-	-	-	-	25	10	25@	10	-	-	50

Total IKS Hrs for Sem.: 0 Hrs

Abbreviations: CL- Classroom Learning, TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @$ Internal Online Examination

SUGGESTED COS - POS MATRIX FORM

Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO- 1	PSO- 2
CO1	1	-	1	1	-	-	1	3	3
CO2	2	2	2	2	1	-	1	3	3
CO3	2	2	3	3	2	-	1	3	3
CO4	2	2	2	3	2	-	1	3	3
CO5	2	2	3	3	2	-	1	3	3

Legends :- High:03, Medium:02,Low:01, No Mapping: -
*PSOs are formulated at institute level

Format K1

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Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Execution		Pedagogy Used	Remark
				From	To	From	To		
			Unit - I Fundamental of Client Side Scripting						
1 (5)	CO1	**TLO 1.1 TLO 1.2 TLO 1.3**	1.1 Introduction to the Scripting: Basic web architecture, Role of the client and server, Static vs. dynamic web pages, 1.2 History of Scripting Technologies: HTML as a foundation, Early use of inline scripting, Limitations of static HTML, JavaScript	02 Lectures				Chalk Board, PPT, Learn Live, Google Classroom	
				17/12/2025	19/12/2025				
		TLO 1.4 TLO 1.5 TLO 1.6	1.3 Introduction to AJAX: AJAX Architecture, Actions, 1.4 Basics of JSON: Objects, Scheme, Webpage with 1.5 Python: Django and Flask framework	03 Lectures					
				24/12/2025	31/12/2025				
			Unit - II Angular Basics						
2 (6)	CO2	**TLO 2.1 TLO 2.2 TLO 2.3**	2.1 Introduction to AngularJS: AngularJS Extends HTML, Expressions, MVC Architecture, Application in AngularJs, Variables Scope, 2.2 AngularJS Forms: FORM tag, Form fields: Single line text field, password field, multiple line text area, radio buttons, and check boxes. Pull down menus: select & option tags. Buttons: submit, reset and generalized buttons, Form Validation	03 Lectures				Chalk Board, PPT, Learn Live, Google Classroom	
				02/01/2026	09/01/2026				

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				From	To	From	To		
2 (6)	CO2	TLO 2.4 TLO 2.5	2.3 AngularJS Data Binding: Two-way Binding and ngmodel directive, 2.4 Filters: Built-In Filters, Custom Filter, Chaining Multiple Filters, 2.5 AngularJS Events: ng-mousedown, ng-mouseup, ng-click	03 Lectures				Chalk, Board, PPT, Learn Live, Google Classroom	
				14/01/2026	21/01/2026				
3(6)	CO3	TLO 3.1 TLO 3.2 TLO 3.3	**Unit - III Working with AngularJS** 3.1 AngularJS Tables: Display Data in a Table, Adding style to the Table data, orderBy Filter, uppercase Filter, Table Index, using $even and $odd 3.2 AngularJS Controllers: Initializing the Model with Controllers, Role of a Controller, Controllers & Modules, Controller Business Logic, Presentation Logic and Formatting Data	03 Lectures				Chalk, Board, PPT, Learn Live, Google Classroom	
				23/01/2026	30/01/2026				
		TLO 3.3 TLO 3.4 TLO 3.5	3.3 Attaching Properties and functions to scope 3.4 Nested Controllers, Using Filters in Controllers 3.5 Controllers in External Files	03 Lectures					
				04/02/2026	11/02/2026				

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Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Execution		Pedagogy Used	Remark
				From	To	From	To		
			Unit – IV Introduction of React Framework						
4 (6)	CO4	TLO 4.1 TLO 4.3	4.1 Introduction to React Framework, features, architecture & Form 4.2 Components: Functional components, Class components, Passing and using props	04 Lectures				Chalk, Board, PPT, Learn Live, Google Classroom	
				13/02/2026	25/02/2026				
		TLO 4.2 TLO 4.4	4.3 Lifecycle – Mounting, Updating and Unmounting 4.4 React Hooks – useState, useEffect, useContext	02 Lectures					
				27/02/2026	04/03/2026				
			Unit - V Working with React Framework						
5 (7)	CO5	TLO 5.1 TLO 5.2	5.1Event handling, Binding event handlers, Arrow functions vs. regular functions 5.2 Working with Forms - Adding components, Handling form, Submitting Forms, Form validation	03 Lectures				Chalk, Board, PPT, Learn Live, Google Classroom	
				06/03/2026	13/03/2026				
		TLO 5.3 TLO 5.4	5.3 Lists and Keys - Rendering Lists, List with Key, Using map() to render lists of elements 5.4 Cascading Style Sheets- Different types of Style Sheets, Styling Libraries, Popular CSS frameworks (e.g., Bootstrap, Material-UI)	04 Lectures					
				18/03/2026	27/03/2026				
*			Introduction to Java Script	17/12/2025	18/12/2025				

* Content beyond syllabus

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ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning) (FA-TH)

Continous assessment based on process and product related performance indicators. Each practical will be assessed considering

-60% weightage to process

-40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

End Semester Examination (Lab. performance), Viva-voce

SUGGESTED LEARNING MATERIALS / BOOKS

Sr. No	Author	Title	Publisher with ISBN Number
1	Thomas A. Powell	HTML& CSS: The Complete Reference	McGraw Hill Education; 5th edition (1 July 2017), ISBN-13 : 978-0070701946
2	Valeri Karpov, Diego Netto	Professional AngularJS (WROX)	Wiley (1 January 2015), ISBN-13 : 978-8126556434
3	Brad Green, Shyam Seshadri	AngularJS: Less Code, More Fun, And Enhanced Productivity With Structured W eb Apps (Greyscale Indian Edition)	Shroff/O'Reilly; First Edition (1 January 2013), ISBN-13 : 978-9351 101260
4	Mayur Patil	React.js For Beginners	Notion Press (11 January 2023), ISBN-13 : 979-8889355106
5	Alex Banks	Learning React: Modern Patterns for Developing React Apps	Shroff/O'Reilly; Second edition (16 July 2020), ISBN-13 : 978-9385889158

LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://www .tutorialspoint.com/angular/index.htm	Designing web page using AngularJS. (All contents)
2	https://www .w3schools.com/angular/	AngularJS Tutorial for beginners
3	https://www .w3schools.com/REACT/DEF AUL T .ASP	React Tutorial for beginners

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Sr.No	Link / Portal	Description
4	https://javascript.info/	The Modern JavaScript Tutorial intelligence for beginners course
5	https://www .javascripttutorial.net/react-tutorial/	Providing React, AngularJS and Javascript contents. course
6	https://www .youtube.com/watch?v=NSWzs-Jt65w	Angular JS for Beginners
7	https://www .tutorialspoint.com/reactjs/index.htm	Designing web page using React.(All contents)

Mrs. N. S. Gite　　　　　　　　　　　　　**Ms. M. S. Karande**
Name of Faculty　　　　　　　　　　　　　**HOD-IF**