

TEACHING PLAN (TP)

Institute Name: 0078-K. K. Wagh Polytechnic, Nashik

Academic Year: 2025-26 (EVEN)

Programme: Information Technology (IF) **Course:** Client Side Scripting Language (CSS)

Course Code: 316005 **Scheme:** K

Semester: sixth

CLASS: TYIF (CRAY)

Name of Faculty: Mrs. S. S Pathare

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						Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH	Theory			Based on LL & TSL Practical				Based on SL						
				CL	TL	LL			FA-TH			SA-TH	Total		FA-PR		SA-PR		SLA			
													Max	Min	Max	Min	Max	Min	Max	Min		
316005	Client Side Scripting	CSS	AEC	2	-	4	-	6	3	-	-	-	-	-	25	10	25 @	10	-	-	50	

Total IKS Hrs. for Sem.: 2 Hrs.

Abbreviations: CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH- Notional Learning Hour 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)	Programme Outcomes (POs)							Programme Specific Outcomes (PSOs)	
	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	2	2	1	2	-	1	1	2	2
CO2	2	2	2	2	-	1	1	3	3
CO3	2	2	2	2	-	1	1	3	3
CO4	2	2	2	2	1	2	2	3	3
CO5	2	2	3	2	1	2	2	3	3
CO6	2	2	3	3	1	2	2	2	2

Legends :- High:03, Medium:02,Low:01, No Mapping: -

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Unit No. (Allocated Hrs.)	CO	TLO aligned to COs	Title/ Details	Plan (No. of Lectures)		Actual Execution (From-To & No. of Lectures)		Pedagogy used (Teaching method /Media)	Remarks	
				From	To	From	To			
01 (06)	CO1		Unit - I Fundamental of Client Side Scripting					Chalk, Board, PPT+ LCD Videos, Google Classroom, Learn Live		
		TLO 1.1 TLO1.2	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	03 Lectures		19/12/25	26/12/25			
		TLO 1.3, TLO 1.4, TLO 1.5	1.3 Introduction to AJAX : AJAX Architecture, Actions Basics of JSON: Objects, Scheme Webpage with Python: Django and Flask framework	03 Lectures		27/12/25	03/01/26			
02 (09)	CO2		Unit - II Angular Basics					Chalk, Board, PPT Videos, Learn Live		
		TLO 2.1	2.1 Introduction to AngularJS: AngularJS Extends HTML, Expressions, MVC Architecture, Application in AngularJs, Variables Scope	04 Lectures		09/01/26	17/01/26			
		TLO 2.2	2.2 AngularJS Forms: extending interfaces FORM tag, Form fields: Single line text field, password field,	02 Lectures		23/01/26	24/01/26			

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			multiple line text area, radio buttons, and check boxes. Pull down menus: SELECT and OPTION tags. Buttons: submit, reset and generalized buttons, Form Validation							
			TLO 2.3, TLO 2.4, TLO 2.5	2.3 AngularJS Data Binding :Two-way Binding and ng-model directive	03 Lectures					
				2.4 Filters: Built-In Filters, Custom Filter, Chaining Multiple Filters 2.5 AngularJS Events: ng-mousedown, ng-mouseup, ng-clicks=u3/	30/01/26	06/02/26				
03 (07)	CO3	TLO 3.1	Unit - III Working with AngularJS					Chalk, Board, PPT, Learn Live		
			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	03 Lectures						
				07/02/26	14/02/26					
TLO 3.2, TLO 3.3, TLO 3.4, TLO 3.5	3.2 AngularJS Controllers: Initializing the Model with Controllers, Role of a Controller, Controllers & Modules, Controller Business Logic, Presentation Logic and Formatting Data 3.3 Attaching Properties and functions to scope 3.4 Nested Controllers, Using Filters in Controllers 3.5 Controllers in External Files	04 Lectures								
		20/02/26	28/02/26							

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04 (05)	CO4		Unit - IV Introduction of React					Chalk, Board, PPT Videos, Learn Live	
				01 Lectures					
		TLO 4.1	4.1 Introduction to React Framework, features, architecture & Form	06/03/26	06/03/26				
		TLO 4.2	4.2 Components: Functional components, Class components, Passing and using props	01 Lectures					
		TLO 4.3, TLO 4.4	4.3 Lifecycle – Mounting, Updating and Unmounting React Hooks – useState,useEffect, useContext 4.4 Swing components: Icons and Labels, TextField, ComboBox, Button, Checkbox, RadioButton	03 Lectures					
05 (03)	CO5		Unit - V Working with React Framework					Chalk, Board, PPT Videos, Learn Live	
		TLO 5.1 TLO 5.2	5.1 Event handling, Binding event handlers, Arrow functions vs. regular functions 5.2 Working with Forms - Adding components, Handling form, Submitting Forms, Form validation	02 Lectures					
		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	01 Lectures					
				28/03/26	28/03/26				

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			(e.g., Bootstrap, Material-UI						
		Content Beyond Syllabus	Microproject: To build website using Angular JS	28/03/26	28/03/26				

ASSESSMENT METHODOLOGIES/TOOLS**Formative assessment (Assessment for Learning)**

- Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering-
-60% weightage to process
-40% weightage to product

Summative Assessment (Assessment of Learning)

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

SUGGESTED LEARNING MATERIALS / BOOKS

Sr. No	Author	Title	Publisher
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 Web Apps (Greyscale Indian Edition)	Shroff/O'Reilly; First Edition (1 January 2013), ISBN-13 : 978-9351101260
4	Mayur Patil	React.js For Beginners	Notion Press (11 January 2023), ISBN-13 : 979-8889355106
5	Alex Banks	Learning React: Modern Patterns for	Shroff/O'Reilly; Second edition (16 July 2020), ISBN-13 : 978-9385889158

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		Developing React Apps	
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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/DEFAULT.ASP	React Tutorial for beginners
4	https://www.tutorialspoint.com/reactjs/index.htm	Designing web page using React.(All contents)
5	https://javascript.info/	The Modern JavaScript Tutorial
6	https://www.javascripttutorial.net/react-tutorial/	Providing React,AngularJS and Javascript contents.
7	https://www.youtube.com/watch?v=NSWzs-Jt65w	Angular JS for Beginners

Mrs. S. S. Pathare
Name & Signature of Faculty

Ms. M. S. Karande
Name & Signature of HOD