



# SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

## DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE TEACHING PLAN

Course Code	Course Title	Semester/Regulation	Branch	Contact Periods/Week	Academic Year	Date of commencement of Semester
20IT6J01	Full Stack Development	VI/(R20)	CSE&DS	2	2024-2025	18-11-2024
<b>COURSE OUTCOMES</b>						
1	Identify the Basics concepts of Web Page and Markup Languages.[ K1]					
2	Develop web Applications using Scripting languages and Frameworks [K4]					
3	Creating and Running Applications using PHP.[K4]					
4	Creating First Controller Working with and Displaying in AngularJS and Nested Forms with ng-form [K4]					
5	Working with the Files in React JS and Constructing Elements with Data.[K2]					
UNIT	Outcomes / Bloom's Level	Topics No.	Topics/ Activity	Text Book/ Reference	Contact Hour	Delivery Method
			<b>HTML</b>			
I	CO – 1	1.1	Web Essentials: Clients, Servers, and Communication	T1,T2	1	Chalk ,Talk, PPT
		1.2	The Internet-Basic Internet Protocols	T1,T2	2	
		1.3	The World Wide Web-HTTP request message-response message-Web clients Web Servers	T1,T2	2	
		1.4	Markup Languages: XHTML	T1,T2	2	
		1.5	Introduction to HTML, History of HTML	T1,T2	2	
		1.6	Versions, Basics of HTML	T1,T2	1	
		1.7	XHTML Syntax and semantics	T1,T2	2	Chalk ,Talk, PPT
		1.8	Fundamentals of HTML, Elements-Relative URLs-	T1,T2	2	
		1.9	Lists-Tables-Frames-Forms-HTML 5.0	T1,T2	2	
	CBS	Web Design Application			1	
<b>Total:</b>					<b>17</b>	
II	CO – 2		<b>Cascading Style Sheets (CSS)</b>			
		2.1	CSS-Introduction to Cascading Style Sheets	T1,T2	2	Chalk , Talk,



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		2.2	Features of CSS, Core Syntax-Style Sheets	T1,T2	2	PPT	
		2.3	HTML- Style Rule, Cascading and Inheritance-	T1,T2	2		
		2.4	Text Properties -Box Model Normal Flow Box Layout beyond the Normal Flow-CSS3.0	T1,T2	2		
		2.5	Introducing to Java Script,Basics	T1,T2	2		
		2.6	JavaScript objects,JSON	T1,T2	2		
	<b>CBS</b>		Web Backend Applications		1		
					<b>Total</b>	<b>13</b>	
			<b>PHP</b>			Chalk , Talk, PPT	
		3.1	Introduction to PHP,Basics	T1,T2	2		
		3.2	Functions, Strings, Arrays.	T1,T2	2		
		3.3	MYSQL Installation, Accessing Using PHP	T1,T2	2		
		3.4	Form Handling, Cookies, Sessions, and Authentication	T1,T2	2		
		3.5	Tables, Inserting Data into Tables	T1,T2	2		
		3.6	Selecting Data from a Table, Updating Table, Deleting data from Table	T1,T2	2		
		3.7	Webpage creation	T1,T2	2		
	<b>CBS</b>		Scripting Application		1		
					<b>Total</b>	<b>15</b>	
			<b>Angular JS</b>			Chalk , Talk, PPT	
		4.1	Introducing Angular JS	T3,T4	1		
		4.2	Starting out with Angular JS,Basics	T3,T4	1		
		4.3	Directives and Controllers,Modules	T3,T4	1		
		4.4	Creating First Controller, working and Displaying	T3,T4	1		
		4.5	Arrays, more Directives	T3,T4	2		
		4.6	working with ng-repeat, Unit Testing in AngularJS, Forms, inputs and Services,	T3,T4	1		
		4.7	Working with ng-model, Working with Forms,	T3,T4	1		
	<b>CBS</b>		Scripting real time Applications		1		
					<b>Total</b>	<b>15</b>	
			<b>React JS</b>				



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V	CO-5	5.1	Introduction to react	T3,T4	2	Chalk , Talk, PPT
		5.2	Obstacles and Roadblocks	T3,T4	2	
		5.3	keeping Up with the Changes, Working with Files	T3,T4	2	
		5.4	Pure React, Page Setup, Virtual DOM	T3,T4	2	
		5.5	React Elements, React DOM, Children, Construction Element with Data	T3,T4	2	
		5.6	React Components, DOM Rendering , Factories	T3,T4	2	
<b>Total</b>					<b>12</b>	
<b>CUMULATIVE PROPOSED PERIODS</b>					<b>72</b>	

### Text Books:

S.No.	Author, Book Title ,Edition, Year of Publication
1	Jeffrey C. Jackson, "Web Technologies--A Computer Science Perspective", Pearson Education, 2006.
2	Robert. W. Sebesta, "Programming the World Wide Web", Fourth Edition, Pearson Education, 2007.
3	Brad Green, Shyam Seshadri, AngularJS, Up and Running Enhanced Productivity with Structured Web Apps, Publisher O'Reilly Media, 2014.
4	Alex Banks, Eve Porcello, Learning React, Functional Web Development with React and Redux Publisher O'Reilly Media, 2017.

### Reference Books:

	Bert Bates, Kathy Sierra, Head First Java, 2nd Edition Publisher O'Reilly Media, Inc, 2005
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### Web Details:

	<a href="https://angularjs.org/">https://angularjs.org/</a> <a href="https://www.geeksforgeeks.org/">https://www.geeksforgeeks.org/</a> <a href="https://www.php.net/">https://www.php.net/</a> <a href="https://www.simplilearn.com/tutorials/html-tutorial/html-vs-css">https://www.simplilearn.com/tutorials/html-tutorial/html-vs-css</a> <a href="https://legacy.reactjs.org/">https://legacy.reactjs.org/</a> <a href="https://www.tutorialspoint.com/">https://www.tutorialspoint.com/</a>
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		Name	Signature with Date
i.	Faculty	P.Venkatesh	
ii.	Course Coordinator	Dr.G.Sudhakar	
iii.	Module Coordinator	K Jai Prakash	
iv.	Programme Coordinator	Dr. B.Rama Krishna	

Principal

