



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20IT5T01	Web Technologies	V	IT	6	2024-2025	05-06-2024

COURSE OUTCOMES

1	Distinguish various static web pages and dynamic web pages using html and java script. (K4)
2	Apply the client side validation using Java Script. (K3)
3	Develop a well formed XML document. (K3)
4	Construct the web servers with servlets. (K3)
5	Build a java server side programming and connection with database. (K2)

UNIT 1: Introduction to web programming and connection with database. (K2)						
UNIT	Outcomes / Bloom's Level	Topics No.	Topics/ Activity	Text Book/ Reference	Contact Hour	Delivery Method
I	CO – 1	1.1	HTML5: Introduction	T2	1	Chalk & Board Power point presentation Assignment Test
		1.2	Basic Formatting Tags	T2	1	
		1.3	Block and inline elements	T2	1	
		1.4	Lists, Image	T2	1	
		1.5	Hyperlink, Table	T2	1	
		1.6	I frame	T2,T1	1	
		1.7	Form Elements	T2,T1	1	
		1.8	Layout Elements and Miscellaneous	T2,T1	1	
		1.9	CSS3: Introduction	T2,T1	1	
		1.10	CSS Syntax, Selectors	T2,T1	1	
		1.11	Add CSS to HTML : External, Internal and Inline	T2,T1	1	
		1.12	CSS Styling : Backgrounds, Text, Fonts,	T2,T1	1	
		1.13	CSS Styling :Links, Lists, Tables, CSS Box Model.	T2,T1	1	
Total					13	



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

II	CO – 2	2.1	Introducing DHTML	T1	1	Chalk & Board
		2.2	Introducing JavaScript	T1	1	
		2.3	Client Side benefits of using JavaScript	T1	1	
		2.4	Embedding JavaScript in an HTML page	T1	1	Power point presentation
		2.5	Using Variables, Using Operators	T1	1	
		2.6	Working with Control Flow statements	T1	1	
		2.7	Working with functions	T1	2	Assignment
		2.8	Handling Events	T1	2	
		2.9	Using Arrays	T1	2	
		2.10	Creating objects in JavaScript	T1	2	Test
Content beyond syllabus		2.11	PHP	T1	1	
Total				15		
III	CO -3	3.1	XML EXTENSIBLE MARKUP LANGUAGE: XML- Document type Definition	T1,R1	1	Chalk & Board
		3.2	XML schemas	T1,R1	1	
		3.3	Document object model	T1,R1	1	
		3.4	XSLT, DOM and SAX	T1,R1	1	Power point presentation
		3.5	JDBC: JDBC Architecture	T1,R1	1	
		3.6	JDBC Drivers	T1,T2	1	
		3.7	Communicating with Database using JDBC APIs	T1,T2	1	Assignment
		3.8	Creating a Simple Application	T1,T2	1	
		3.9	Describing Basic JDBC Statement	T1,T2	1	
		3.10	Creating tables by using JDBC	T1,T2	1	Test
		3.11	Working with Prepared Statement	T1,T2	1	
Content beyond syllabus		3.12	XML Encryption	T1,T2	1	Laboratory Experimental Work
Total				12		
IV	CO – 4	4.1	Web Servers and Servlets: Tomcat web server	T1	1	Chalk & Board
		4.2	Introduction to Servlets: Lifecycle of a Servlet	T1	1	



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

		4.3	JSDK, The Servlet API	T1	1	Power point presentation
		4.4	Reading Servlet parameters, Reading Initialization parameters	T1	1	
		4.5	Handling HTTP Request & Responses	T1	1	
		4.6	Using Cookies-Session Tracking	T1	1	Assignment
		4.7	Security Issues	T1	1	
		4.8	Introduction to JSP: The Problem with Servlet	T1	1	
		4.9	The Anatomy of a JSP Page	T1	1	Test
		4.10	JSP Processing.	T1	1	
		4.11	JSP Application Design with MVC	T1	1	
Content beyond syllabus		4.12	Common Gateway Interface (CGI	T1	1	
Total					12	
V	CO – 5	5.1	JSP Application Development: Generating Dynamic Content	T1,R1	1	Chalk & Board
		5.2	Using Scripting Elements	T1,R1	1	
		5.3	Implicit JSP Objects	T1,R1	1	
		5.4	Conditional Processing – Displaying Values	T1,R1	2	Power point presentation
		5.5	Using an Expression to Set an Attribute	T1,R1	1	
		5.6	Declaring Variables and Methods	T1,R1	1	
		5.7	Error Handling and Debugging	T1,R1	1	Assignment
		5.8	Sharing Data Between JSP Pages	T1,R1	1	
		5.9	Requests, and Users	T1,R1	1	
		5.10	Passing Control and Data Between Pages	T1,R1	1	Test
		5.11	Sharing Session and Application Data Memory Usage Considerations	T1,R1	1	
		5.12	Accessing a Database from a JSP Page	T1,R1	1	
Total					13	
CUMULATIVE PROPOSED PERIODS					65	

Text Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Herbert Schildt: "Java The complete reference", 11th Edition, Tata McGraw Hill, 2019.
2	Santhosh Kumar K, JDBC, Servlets, and JSP, New Edition, Dreamtech Press
3	Wang, Katila, An Introduction to Web Design + Programming, CENGAGE



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

Reference Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Uttam K Roy, Web Technologies, Oxford .
2	Kathy sierra, Head first Java, Orielly
3	Marty Hall and Larry Brown, Core Servlets and Java Server Pages Volume 1 CORE TECHNOLOGIES, Pearson

Web Details:

1	https://www.w3schools.com/html/html_intro.asp
2	https://www.geeksforgeeks.org/html-introduction
3	https://www.javatpoint.com/what-is-html
4	https://www.tutorialspoint.com/html/index.htm

	Name	Signature with Date
i. Faculty	Mrs.J.N. D. Lakshmi	J.N.D. Lakshmi 05/06/24
ii. Module Coordinator	Mr. K.Bhanu Chandu	K.Bhanu
iii. Programme Coordinator	Dr.RVVSV Prasad	Dr.RVVSV Prasad 5/6/24


Principal