

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 INFORMATION TECHNOLOGY

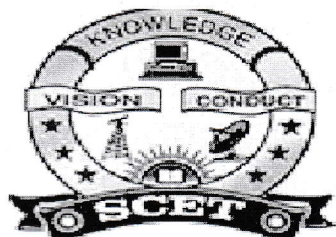
TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
19IT5T03	Advanced Java and Web Technologies	V	IT	6	2021-2022	4/10/2021

COURSE OUTCOMES

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

UNIT	Out Comes / Bloom 's Level	Topics No.	Topics/ Activity	Textbook/ Reference	Conta ct Hour	Delivery Method
I	CO – 1	1.1	Introduction, Basic Formatting Tags	T1	1	Chalk & Board Power point presentations Assignment Test
		1.2	Block and inline elements	T1	1	
		1.3	Lists, Image	T1	1	
		1.4	Hyperlink, Table,	T1	1	
		1.5	Iframe,	T1	1	
		1.6	Form Elements	T1	1	
		1.7	Layout Elements	T1	1	
		1.8	Miscellaneous HTML Tags	T1	1	
		1.9	CSS3: . Introduction, CSS Syntax, Selectors ,	T3	1	
		1.10	Add CSS to HTML: External, Internal and Inline,	T3	1	
		1.11	CSS Styling: Backgrounds, Text , Fonts , Links , Lists , Tables	T3	1	



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		1.12	CSS Box Model	T3	1	
Content beyond syllabus		1.13	Host simple Static Website	T3	1	
Total					13	
II	CO – 2	2.1	Introducing DHTML	T3	1	Chalk & Board
		2.2	Introducing JavaScript,	T3	1	
		2.3	Client-Side benefits of using JavaScript	T3	1	
		2.4	Embedding JavaScript in an HTML page	T3	1	
		2.5	Using Variables, Using Operators,	T3	2	Power point presentations
		2.6	Working with Control Flow statements,	T3	2	
		2.7	Working with functions	T3	1	
		2.8	Handling Events	T3	1	Assignment
		2.9	Using Arrays	T3	2	Test
		2.10	Creating objects in JavaScript.	T3	2	
Content beyond syllabus		2.11	JavaScript Validation Realtime Usage	T3	2	
Total					16	
III	CO – 3	3.1	XML: Introduction	T3	1	Chalk & Board
		3.2	Document type Definition	T3	1	
		3.3	XML schemas	T3	1	
		3.4	Document object model	T3	1	
		3.5	XSLT	T3	1	
		3.6	DOM and SAX	T3	1	
		3.7	JDBC Architecture	T3	1	
		3.8	JDBC Drivers	T3	1	
		3.9	Communicating with Database using JDBC APIs,	T3	1	Power point presentations
		3.10	Creating a Simple Application	T3	1	Assignment
		3.11	Describing Basic JDBC Statement	T3	1	Test
		3.12	Creating tables by using JDBC	T3	1	
		3.13	Working with Prepared Statement	T3	1	
Content beyond syllabus		3.14	JDBC CRUD Application	T3	1	



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		using Java		Total	14	
IV	CO - 4	4.1	Introduction to Tomcat web server	T3	1	Chalk & Board Power point presentations Assignment Test
		4.2	, Introduction to Servlets: Lifecycle of a Servlet	T3	1	
		4.3	JSDK, The Servlet API	T3	1	
		4.4	Reading Servlet parameters	T3	1	
		4.5	, Reading Initialization parameters	T3	1	
		4.6	Handling Http Request & Responses	T3	1	
		4.7	Using Cookies-Session Tracking,	T3	1	
		4.8	Security Issues	T3	1	
		4.9	The Problem with Servlet	T3	1	
		4.10	The Anatomy of a JSP Page	T3	1	
		4.11	JSP Processing	T3	1	
		4.12	JSP Application Design with MVC	T3	1	
				Total	12	
V	CO - 5	5.1	JSP Application Development: Generating Dynamic Content	T3	1	Chalk & Board Power point presentations Assignment Test
		5.2	Using Scripting Elements	T3	1	
		5.3	Implicit JSP Objects	T3	1	
		5.4	Conditional Processing – Displaying Values, Using an Expression to Set an Attribute,	T3	1	
		5.5	Declaring Variables and Methods, Error Handling and Debugging	T3	1	
		5.6	Sharing Data Between JSP Pages,	T3	1	
		5.7	Requests, and Users, Passing Control and Data Between Pages	T3	1	
		5.8	Sharing Session and Application Data Memory Usage	T3	1	



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		Considerations.		
	5.9	Accessing a Database from a JSP Page.	T3	1
Content beyond syllabus	5.10	Deployment of JSP application in Servers	T3	1
Total				9
CUMULATIVE PROPOSED PERIODS				64

Textbooks:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	C. Xavier (Author) , Web Technology and design – First edition -Publisher : NEW AGE - 2018
2	Herbert Schildt: "Java The complete reference", 11th Edition, Tata McGraw Hill, 2019
3	Santhosh Kumar K- JDBC, Servlets, and JSP, New Edition , Kogent Learning Solutions Inc, Dreamtech Press , 2016
4	Wang, Katila, - An Introduction to Web Design + Programming, New Edition - CENGAGE - 2018

Reference Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Uttam K Roy - Web Technologies, – Oxford ,2012
2	Kathy Sierra (Author), Bert Bates (Author) - Headfirst Java --Orielly-2008
3	Marty Hall and Larry Brown -Core Servlets and Java Server Pages Volume 1 CORE TECHNOLOGIES, Pearson-2003
4	Dietel and Nieto -Internet and World Wide Web – How to program by PHI/Pearson Education Asia

Web Details:

1	https://www.w3schools.com/html/default.asp
2	https://www.w3schools.com/css/default.asp
3	https://www.w3schools.com/js/default.asp
4	https://www.javatpoint.com/what-is-xml
5	https://www.javatpoint.com/java-jdbc
6	https://www.javatpoint.com/jsp-tutorial

	Name	Signature with Date
i. Faculty	Mr. Maddu.Rama Bhadra Rao	
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Principal