DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
(AUTONOMOUS)
(Approved by AICTE & Affiliated to Anna University, Chennai)
Re-Accredited by NAAC with 'A' Grade
Accredited by NBA for AERO, BME, CSE, ECE, EEE, IT & MECH.
PERAMBALUR-621212, TAMILNADU, INDIA.
Website: www.dsengg.ac.in

LABORATORY COURSE PLAN (JAN 2026 – MAY 2026 Even Semester)

LAB COURSE TITLE	WEB TECHNOLOGY LABORATORY			
LAB COURSE CODE	U23ITP43			
LAB COURSE STRUCTURE	**LECTURE**	**TUTORIAL**	**PRACTICAL**	**CREDIT**
	0	0	3	2
REGULATION	**BRANCH**	**YEAR / SECTION**	**SEMESTER**	**ACADEMIC YEAR**
2023	IT	II/A,B& C	IV	2026
COURSE INCHARGE				

SYLLABUS

COURSE OBJECTIVE:

The main learning objective of this course is to prepare the students for:

- To design interactive web pages using Scripting languages.
- To learn server-side programming using servlets and JSP.
- To develop web pages using XML/XSLT.

LIST OF EXPERIMENTS

1. Create a web page with the following using HTML.
   - To embed an image map in a web page.
   - To fix the hot spots.
   - Show all the related information when the hot spots are clicked
2. Create a web page with all types of Cascading style sheets.
3. Client-Side Scripts for Validating Web Form Controls using DHTML.
4. Installation of Apache Tomcat web server.
5. Write programs in Java using Servlets:
   - To invoke servlets from HTML forms.
   - Session Tracking.
6. Write programs in Java to create three-tier applications using JSP and Databases
   - For conducting on-line examination.
   - For displaying student mark list. Assume that student information is available in adatabase which has been stored in a database server.
7. Programs using XML – Schema – XSLT/XSL.
8. Programs using DOM and SAX parsers.
9. Programs using AJAX.
10. Consider a case where we have two web Services- an airline service and a travelagent and the travel agent is searching for an airline. Implement this scenariousing Web Services and Database.

TOTAL: 60 PERIODS

TEXT/REFERENCE BOOKS:

1. Robin Nixon, "Learning PHP, MySQL, JavaScript, CSS & HTML5" 5th Edition,O'Reilly publishers, 2018.
2. 2. Paul Deitel, Harvey Deitel, Abbey Deitel, “Internet & World Wide Web - How to Program”,6th edition, Pearson Education, 2020.
3. Jeffrey C. Jackson, "Web Technologies-A Computer Science Perspective", PearsonEducation, 2007.
4. James F. Kurose, “Computer Networking: A Top-Down Approach”, 6th Edition, PearsonEducation, 2012
5. Steven Holzemer, “PHP – The Complete Reference”, 1st Edition, Mc-Graw Hill, 2017
6. Fritz Schneider, Thomas Powell, “JavaScript - The Complete Reference”, 3rd Edition,McGraw Hill Publishers, 2017

VIRTUAL LAB LINK:

W1:http://cseannauniv.blogspot.com/search/label/CS236manual
W2:https://www.slideshare.net/slideshow/web-technology-lab-manual/56210611

EXP. NO.	NAME OF THE EXPERIMENTS	NO. OF PERIODS	CUMULATIVE PERIODS
1.	Create a web page with the following using HTML	8	8
2.	Create a web page with all types of Cascading style sheets	4	12
3.	Client-Side Scripts for Validating Web Form Controls using DHTML	8	20
4.	Installation of Apache Tomcat web server.	4	24
5.	programs in Java using Servlets	8	32
6.	programs in Java to create three-tier applications using JSP and Databases	4	36
7.	Programs using XML – Schema – XSLT/XSL	8	44
8.	Programs using DOM and SAX parsers	4	48
9.	Programs using AJAX	8	52
10.	Web Services and Database.	8	60

COURSE OUTCOMES:

At the end of the course the students would be able to
CO1: Design simple web pages using mark-up languages like HTML and CSS
CO2: Create dynamic web pages using DHTML and java script that is easy to navigate and use.
CO3: Develop Program server-side web pages that have to process request from client side web

pages.

CO4: Develop web data using XML and web pages using JSP.

CO5: Understand various web services and how these web services interact.

CO6: Develop web service using real-world scenario

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	2	2	3	-	-	-	-	-	-	-	3	3
CO2	1	1	2	2	3	-	-	-	-	-	-	-	3	3
CO3	1	1	2	2	3	-	-	-	-	-	-	-	3	3
CO4	1	1	3	2	3	-	-	-	-	-	-	-	3	3
CO5	1	1	2	2	3	-	-	-	-	-	-	-	3	3
CO6	1	1	2	2	3	-	-	-	-	-	-	-	3	3
Avg:	1	1	2.1	2	3	-	-	-	-	-	-	-	3	3

MODEL LAB DETAILS

BATCH	REGISTER NO.	MODE OF LAB CONDUCT	DATE	TIMING
I	810424205001-066	OFFLINE		
II	810424205067-126			
III	810424205127-189			

VI VA QUESTIONS

1. What are the three major components of HTML document?
2. List out some of the HTML tags?
3. What kind of tag is HTML?
4. How to form at tags?
5. Define HTML.
6. Listoutthedocumentstructure tags.
7. Whatis CSS?
8. ListthefeaturesofCSS?
9. Whatarethethree mainpartsof CSSsyntax?
10. Selector{property: value}
11. Howtoinsertastyle sheet?
12. ListoutthebasicInternet Protocols.
13. WhatareWeb Servers?
14. DefineWebClients.
15. How multi-tierarchitectureisdifferedfromMVC architecture.
16. Whatis Session ID?

17. Whatarethecommon mechanismusedforsessiontracking?
18. Define Protocol.
19. Whatis therole ofserver?
20. Define internet.
21. DefineXML
22. DefineDTD.
23. Listoutsomewebservicetechnologies?
24. What is SOAP?

Google Class Code Details:
Class Name: Web Technology Laboratory

PREPARED BY **VERIFIED BY**

AP/IT **HOD/IT**

APPROVED BY
PRINCIPAL