Lab Code	Lab Name	Credit
ADL501	Web Development Lab	1

Pı	Prerequisite: Operating System, Basics of Java and Python Programming.		
L	Lab Objectives:		
1	To orient students to HTML for making webpages		
2	To expose students to CSS for formatting web pages		
3	To expose students to developing responsive layout		
4	To expose students to JavaScript to make web pages interactive		
5	To orient students to React for developing front end applications		
6	To orient students to Node.js for developing backend applications		
L	ab Outcomes:		
1	Identify and apply the appropriate HTML tags to develop a webpage		
2	Identify and apply the appropriate CSS tags to format data on webpage		
2	Construct accordancing websites using Destatues		
3	Construct responsive websites using Bootstrap		
4	Use JavaScript to develop interactive web pages.		
5	Construct front end applications using React and back end using Node.js/express		

Suggeste	Suggested Experiments: Students are required to complete at least 10 experiments.		
Star (*) n	Star (*) marked experiments are compulsory.		
Sr. No.	Name of the Experiment		
1	HTML:Elements, Attributes, Head, Body, Hyperlink, Formatting, Images, Tables, List, Frames, Forms, Multimedia		
2	CSS3.Syntax, Inclusion, Color, Background, Fonts, Tables, lists, CSS3 selectors, Pseudo classes, Pseudo elements.		
3	Bootstrap:BootstrapGrid system, Forms, Button, Navbar, Breadcrumb, Jumbotron		
4	Javascript: Variables, Operators, Conditions, Loops,		
5	Java Script : FunctionsValidations, Arrays, String, Date		
6	Java Script :Events, Classes and Objects, Error handling,		
7	React:Installation and Configuration. JSX, Components, Props, State, Forms, Events, Routers, Refs, Keys.		
8	Advance React: Concepts and Practical.		

Use	Useful Links:	
1	www.leetcode.com	
2	www.hackerrank.com	
3	www.cs.usfca.edu/~galles/visualization/Algorithms.html	
4	www.codechef.com	

T	Term Work:		
1	Term work should consist of 8(min) to 12(max) experiments.		
2	The final certification and acceptance of term work ensures satisfactory performance of laboratory work and minimum passing marks in term work.		
3	Total 25 Marks based on evaluation of Experiments.		
E	Evaluation exam		
	Practical Exam based on lab syllabus of ADL501		