

Course code	Course Title	L	T	P	C
BITE304P	Web Technologies Lab	0	0	2	1
Pre-requisite	BCSE103E	Syllabus version			
		1.0			
Course Objectives:					
1. To develop understanding of the web architecture and web languages.					
2. To familiarize with web development tools, techniques and environment.					
Course Outcomes:					
1. Develop interactive and responsive web pages using HTML, CSS, Bootstrap, JavaScript and JQuery.					
2. Formulate web applications that employ the MVC architecture and integrate Client and Server using					
3. Devise sophisticated full-stack web applications using advanced web frameworks and technologies with No-SQL databases.					
Indicative Experiments					Hours
1.	Design interactive web pages using HTML5 and CSS				2 Hours
2.	Design responsive web pages using HTML5 and Bootstrap.				2 Hours
3.	Implement Client-Side Validations and Dynamic Object Manipulations with Events using JavaScript				4 Hours
4.	Implement Client-Side scripting, Animations and Dynamic Object Manipulations using JQuery				2 Hours
5.	Asynchronous Client, server and data storage interactions using AJAX.				2 Hours
6.	Develop a Single Page Applications using Angular JS framework.				4 Hours
7.	Design web applications with dynamic routing using Node JS, and Express framework				4 Hours
8.	Develop a three-tier web application model and data manipulations using Node Js, Express, and Mongo DB.				4 Hours
9.	Develop web applications with Session, Cookies, File upload and Email.				2 Hours
10.	Develop component-based User Interface using REACT JS				4 Hours
Total Laboratory Hours					30 hours
Mode of Assessment: Continuous Assessments, Final Assessment Test					
Recommended by Board of Studies		20-05-2022			
Approved by Academic Council		No. 66	Date	16-06-2022	