

GANPAT UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

Programme		Bachelor of Technology				Branch/Spec.	Computer Engineering / Information Technology/CE-AI		
Semester		II				Version	2.0.0.1		
Effective from Academic Year				2022-23		Effective for the batch Admitted in			July 2022
Subject code		2ES1111		Subject Name		IT Workshop			
Teaching scheme						Examination scheme (Marks)			
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	2	-	2	Theory	00	00	00
Hours	-	-	4	-	4	Practical	30	20	50
Pre-requisites									
Basic concepts of HTML									
Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	Describe and utilize JavaScript programming concepts such as variables, arrays, conditionals, and loops.								
CO2	Write and deploy JavaScript code to solve practical web design problems.								
CO3	Implementing client-side interfaces using BOM, DOM, and AJAX.								
CO4	Use Ajax to fetch information from the server and display it on the web page and create web applications with Ajax.								
CO5	Apply various Angular features including directives								
Theory syllabus									
	NIL								
Practical content									
Unit	Content								Hrs.
1	JavaScript Basic: JS Introduction, Javascript popup boxes, JS Output, JS Statements, JS Syntax, JS Comments, JS Variables, JS Operators, JS Data Types.								04
2	Java Script Controls: JS Conditions: If, Else If & Switch, JS Loop: For, For In, While & Do While, JS Break, JS Type Conversion, JS Errors: Try, Catch & Throw.								06
3	Java Script Functions: Function Definitions, Function Parameters, Function Invocation, Function Call, Function Closures.								04
4	OOPs Concept: Class, Object, Constructor, Message Passing, Inheritance, Polymorphism								02
5	JavaScript Objects: JS Object: Methods & Properties, JS Array, JS String, JS Date, JS Math, JS Number, JS Boolean, JS Random.								08
6	JavaScript Browser BOM: JS Window, JS Screen, JS Location, JS History, JS Navigator, JS Popup Alert, JS Timing, JS Cookies.								06
7	Java Script HTML DOM: DOM Introduction, DOM Methods, DOM Document, DOM Elements, DOM HTML, DOM CSS, DOM Animations, DOM Events, DOM Event Listener, DOM Navigation, DOM Nodes, DOM Collections, DOM Node Lists.								08
8	JavaScript Validation: JS Regular Expression, JS form validation, JS email validation.								02
9	JS AJAX: AJAX Introduction, AJAX XMLHttpRequest, AJAX Request, AJAX Response, AJAX XML File, AJAX Applications, AJAX Examples.								02
10	AngularJS: AngularJS Introduction, AngularJS MVC, AngularJS First App, AngularJS Data Binding, AngularJS Expressions, AngularJS Directives, AngularJS Controllers, AngularJS Modules, AngularJS Scopes, AngularJS Dependency, AngularJS Filters, AngularJS Tables, AngularJS Select, AngularJS DOM, AngularJS Forms, AngularJS Validation, AngularJS AJAX, AngularJS Animation.								14
11	Mini Project: Implement one small project using the concept of IT Workshop								04

Text Books	
1	Beginning JavaScript – 4th Edition by Paul Wilton, Jeremy McPeak, Wrox Publication
2	Beginning AngularJS 1st Edition, Kindle Edition by Andrew Grant
Reference Books	
1	JavaScript for Absolute Beginners by Terry McNavage. Apress publication
2	AngularJS by Brad Green, Shyam Seshadri, O'REILLY
ICT/MOOCs Reference	
1	http://nptel.ac.in/courses/106105084/25
2	https://www.w3schools.com/js/default.asp
3	https://www.tutorialspoint.com/javascript_online_training/index.asp
4	https://www.javatpoint.com/angularjs-tutorial

Mapping of CO with PO and PSO:															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	3	2	3	0	3	0	3	0	3	2	2	3	3
CO2	3	2	3	2	3	0	3	0	3	0	3	2	1	3	2
CO3	3	3	3	2	3	0	3	0	3	0	3	2	2	2	0
CO4	3	3	3	2	3	0	3	0	3	0	3	2	2	2	2
CO5	3	3	3	2	2	0	3	0	3	0	3	2	1	1	0