

ABOUT THE COURSE:

TOTAL DURATION:	65 HRS
MODE OF DELIVERY	ONLINE TRAINING / SELF LEARNING
TRAINER TO STUDENT RATIO:	NA
TOTAL MARKS:	75

TABLE 1	
OVERALL COURSE OBJECTIVE:	<ul style="list-style-type: none">• Equip students with foundational knowledge of front-end web technologies, including HTML, CSS, Bootstrap, JavaScript, Angular, and TypeScript, which are essential for web development.• Emphasize the significance of HTML for structure, CSS for styling, and JavaScript for interactivity in creating dynamic and responsive web applications.• Highlight the industry demand for skilled front-end developers capable of building user-friendly, interactive websites and web applications.• Foster the ability to develop scalable and modern web applications by leveraging frameworks like Angular and TypeScript.• Prepare students for real-world applications by focusing on creating user-centred, visually appealing, and interactive designs for various industries.
LEARNING OUTCOME:	<ul style="list-style-type: none">• Gain proficiency in JavaScript fundamentals, including its datatypes, operators, loops, and functions, to create interactive web applications.• Design responsive and visually appealing webpages using HTML, CSS, and JavaScript, fulfilling the demand for dynamic web development.• Acquire skills in the Angular framework to develop scalable, user-friendly, and modern web applications aligned with industry needs.• Apply advanced programming concepts like polymorphism to bring flexibility and efficiency to coding practices.• Build user-centered websites by understanding user needs and employing effective design

principles for a seamless user experience.

TABLE 2: MODULE WISE COURSE CONTENT AND OUTCOME

SL.NO	MODULE NAME	MODULE CONTENT	MODULE LEARNING OUTCOME	DURATION (HRS)
1	JavaScript TOC - JavaScript Infosys Springboard	Introduction to JavaScript, Setting up the Environment, Identifiers, Datatypes, Operators, Statements and Expressions, Loops, Functions, Classes, Event Handling, Objects, Iterables, Asynchronous Programming, Modular Programming, JavaScript – Security, JavaScript – Best Practices, JavaScript – Course Summary	This course will help you gain knowledge from the fundamentals of JavaScript to building full-fledged dynamic web applications.	16
2	Creating Responsive Web Pages using Bootstrap 4 TOC - Creating Responsive Web Pages using Bootstrap 4 Infosys	Introduction to Bootstrap, Designing Page Layout, UI Components, Forms, Responsive Web Design, Layout alternatives	This course helps in quick development of responsive websites. It uses HTML, CSS, and JS for faster and easier web development.	7

	Springboard			
3	Angular TOC - Angular Infosys Springboard	Getting Started with Angular, Angular Development Environment Setup, Creating Components and Modules, Templates, Directives	They would get skills to develop complex, customizable, modern, responsive, and user-friendly web applications.	18
4	Angular TOC - Angular Infosys Springboard	Data Binding, Pipes, Nested Components, Forms, Services, Routing	This course introduces learners to various concepts like creating components, enhancing the functionality of components, validating forms, communicating with backend code, and building a single-page application.	19
5	UX Design for Web Developers TOC - UX Design for Web Developers Infosys Springboard	Introduction, Applying Human-Centred Design, Wireframing1- Using Responsive Web Design, Designing the Home Page, Using Media, Best Practices and Usability, Wireframing 2.0, Prototyping- Clickable Wireframes, The Lean UX Prototype User Testing and Iteration Process.	UX Design for Web Developers is a comprehensive course that teaches web developers the principles and techniques of user experience (UX) design	5

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TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT CRITERIA AND USECASES	
ASSESSMENT CRITERIA	USECASES
Completion of the assignments , try-outs and practice problems	Exercise: Classes - Viewer Page Infosys Springboard
	Tryout: Functions - Viewer Page Infosys Springboard
	Grid System - Exercise - Viewer Page Infosys Springboard
	Badges, Jumbotron and card - Exercise - Viewer Page Infosys Springboard
	Responsive Design - Patterns - Tryout - Viewer Page Infosys Springboard
	Exercise: Modular Programming - Viewer Page Infosys Springboard
	Exercise : Statements and Expressions - Viewer Page Infosys Springboard
	Exercise: Asynchronous Programming - Viewer Page Infosys Springboard

TABLE 4: LIST OF FINAL PROJECTS (PROJECTS THAT COMPREHENSIVELYCOVER ALL THE LEARNING OUTCOMES)
FINAL PROJECTS
<ul style="list-style-type: none"> • Travel Domain: Flight Booking Application - Viewer Page Infosys Springboard • HealthCare Domain: WeCare Application - Viewer Page Infosys Springboard • HealthCare Domain: XYZPharma Application - Viewer Page Infosys Springboard

TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 70)

ASSESSMENT CRITERIA	DESCRIBE THE CRITERIA OF THE BELOW CATEGORY PERFORMANCE			TOTAL MARKS
	FAIR	GOOD	EXCELLENT	
Completion of Springboard courses (Completion of self-assessment with 60%)	<ul style="list-style-type: none"> • Completion of 2 mandatory course • Completion of 3 use cases given 	<ul style="list-style-type: none"> • Completion of 3 mandatory course • Completion of 5 use cases given 	<ul style="list-style-type: none"> • Completion of all mandatory course • Completion of all use cases given 	45
Project completion	As per scores in evaluation template which the faculty members in institutions will evaluate and fill			25