UI/UX Design

Course Objectives:
- 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.

Course Outcomes:
- Gain proficiency in JavaScript fundamentals, including its data types, operators, loops, and functions, to create interactive web applications.
- Design responsive and visually appealing web pages 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 Springboard	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**
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**