



# REGENT EDUCATION & RESEARCH FOUNDATION

## Group of Institutions

Course Name : Knowledge about Web Technology –  
Navigating the Digital Frontier

Academic Year : 2021 - 2022

### PROVISIONAL COURSE MODULE

#### Class-1.1. Overview of Web Technology (Duration- 2hrs)

1. Overview of the web technology landscape
2. Historical perspective and evolution of the web
3. Introduction to web browsers and web servers

#### Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New Project

#### Class-2.1. Web Development (Duration – 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on the evolution of web development and design.
3. The importance of user-centered design.

#### Class-2.2. Design Principles (Duration – 2 hrs)

1. Principles of effective web design.
2. Typography, color theory, and visual hierarchy.
3. Current web design trends and aesthetics.

#### Class-3.1. Computer Graphics (Duration – 2 hrs)

1. Overview of the course objectives and content
2. Historical perspective and evolution of computer graphics
3. The role of graphics in web technology

#### Class-3.2. Optimizing Graphics for the Web (Duration – 2 hrs)

1. Reducing image file sizes for web optimization.



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2. Compression techniques and tools.
3. Strategies for improving loading times.
4. Retina and HiDPI graphics.

### Class-4.1. HTML (Duration: 2 hrs)

1. Understanding HTML: Structure and syntax.
2. Creating a basic HTML document.
3. HTML elements, tags, and attributes.
4. Document structure: Head and body sections.

### Class-4.2. HTML Forms and Input Elements (Duration: 2 hrs)

1. Creating web forms.
2. Input elements: Textboxes, radio buttons, checkboxes, and dropdowns.
3. Form submission and data handling.

### Class-5.1. CSS (Duration: 2 hrs)

1. Introduction to CSS (Cascading Style Sheets).
2. Inline vs. internal vs. external CSS.
3. CSS selectors and properties.
4. Styling text, fonts, colors, and backgrounds.

### Class -5.2. Styling Web Pages with CSS (Duration- 2 hrs)

1. Box model: Margins, padding, and borders.
2. Positioning and layout: Floats and positioning.
3. Creating responsive web design with media queries.

### Class -6.1. JAVA Script (Duration- 2 hrs)

1. Introduction to JavaScript.
2. Variables, data types, and operators.
3. Control structures: Conditional statements and loops.
4. Functions and event handling.

### Class -6.2. JavaScript Libraries and Frameworks (Duration- 2 hrs)

1. Introduction to JavaScript libraries (e.g., jQuery).
2. Overview of popular JavaScript frameworks (e.g., React, Angular, Vue.js).
3. Benefits and use cases of libraries and frameworks.

### Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in Web Technology.



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4. Responsibilities and skillsets associated with different roles.

### Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on Web Technology development.
2. Case studies of companies or organizations that use Web Technology.
3. Identifying emerging trends and opportunities.

### Class -8.1. Digital Marketing (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on marketing in the digital age.
3. Key digital marketing concepts and terminology.

### Class -8.2. E-commerce (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical evolution of e-commerce.
3. E-commerce business models and trends.



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