

REGENT EDUCATION & RESEARCH FOUNDATION

Group of Institutions

Course Name : Knowledge about Web Technology –

Navigating the Digital Frontier

Academic Year : 2022 - 2023

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. The importance of responsive design
2. Media queries and breakpoints
3. Fluid grids and flexible layouts
4. Testing and optimizing for different devices

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. Graphics Creation and Editing (Duration – 2 hrs)

1. Creating and editing graphics for web use.
2. Vector graphics vs. raster graphics.




Campus : Regent Education & Research Foundation Group of Institutions

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3. Graphic design principles and aesthetics.
4. Color theory and management.

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)

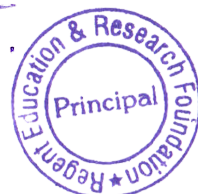
1. Introduction to JavaScript.
2. Variables, data types, and operators.
3. Control structures: Conditional statements and loops.
4. Functions and event handling.

Class -6.2. JavaScript for Interactivity (Duration- 2 hrs)

1. DOM (Document Object Model) manipulation.
2. Handling user events (e.g., click, mouseover).
3. Introduction to JavaScript libraries and frameworks (e.g., jQuery).

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.
4. Responsibilities and skillsets associated with different roles.



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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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