

VERSION

25

SR. CODE

EAPL/CRASH/CRTC05

COURSE CODE

EACUI

SUB CATEGORY

SOFTWARE DEVELOPMENT


TOTAL DURATION
45
HOURS


THEORY TAKEN
13
HOURS


PRACTICAL TAKEN
32
HOURS

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CORE UI
DEVELOPMENT

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CORE UI

COURSE DESCRIPTION



The Core UI Development course provides comprehensive training in front-end web development, focusing on essential technologies such as HTML, CSS, and JavaScript. Participants will learn to create responsive and visually appealing user interfaces (UIs) for web applications, incorporating modern design principles and best practices.

COURSE GOALS



The goal of the Core UI Development course is to equip participants with the knowledge and skills needed to become proficient UI developers and participants will be able to develop user-friendly and visually engaging web interfaces, ensuring a seamless user experience across different platforms and devices

FUTURE SCOPE



Proficiency in UI development opens doors to a variety of career opportunities, including roles such as front-end developer, web designer, and interface developer. With the continuous growth of web and mobile applications, skilled UI developers are in high demand.

01

CHAPTER

Introduction to HTML5

1. Features of HTML5
2. Benefits of Using HTML5
3. Where and How Is HTML5 Used?
4. HTML5 Editors
5. Downloading Visual Studio Code



30
mins



30
mins

02

CHAPTER

Structure of an HTML5 File

1. What Are HTML Tags?
2. Structure of an HTML5 File
3. File and Folder Structure
4. How to Create an HTML5 File?



10
mins



50
mins

03

CHAPTER

HTML5 Basic Building Blocks

1. Heading Tags in HTML
2. HTML5 Quotation and Citation Tags
3. Commenting Out Code in HTML5
4. HTML5 Attributes
5. How to Style in HTML5



10
mins



50
mins

04

CHAPTER

Exploring HTML5 Tags

1. What Are Anchor Tags?
2. What Are Image Tags?
3. What Are Paragraph Tags?
4. What Are Break Tags?
5. What Are Table Tags?
6. List Tags
7. Video Tag
8. Audio Tag



30
mins



1.5
HRS

05

CHAPTER

Building a Form from Scratch with HTML5

1. Form Tags
2. Input Types
3. Input Attributes (Size, Read-Only, Disabled)
4. Additional Input Attributes (Min, Max, Multiple, and Placeholder)
5. Required Inputs



30
mins



1.5
HRS

06

CHAPTER

Block and Inline Elements

1. Introduction
2. Examining Block and Inline Elements



30
mins



1.5
HRS

07

CHAPTER

Introduction to CSS3

1. Introduction to CSS3
2. Syntax of CSS3
3. Uses of CSS3
4. Types of CSS3
5. Selectors and Colors in CSS3



30
mins



1.5
HRS

08

CHAPTER

Basics Properties of CSS3

1. Background
2. Borders
3. Outline
4. Height and Width
5. Margin and Padding



01
HRS



02
HRS

09

CHAPTER

Typography Properties of CSS3

1. Text Alignment
2. Text Decoration
3. Text Transform
4. Text Spacing
5. Font Family
6. How to Use Font Awesome Icons



20
mins



40
mins

10 CHAPTER

Selectors Properties in Depth of CSS3

1. Positions
2. Pseudo-Classes Part 1
3. Pseudo-Classes part 2
4. Pseudo-Elements



20
mins



40
mins

11 CHAPTER

Extra Features in CSS3

1. Opacity and Important
2. Border-Radius
3. Box Shadow



20
mins



40
mins

12 CHAPTER

Responsive Design with CSS3

1. Grid System
2. Flexbox
3. Media Queries



01
HRS



03
HRS

13 CHAPTER

Introduction to JavaScript

1. Introduction and History of JavaScript
2. Syntax of JavaScript and Overview
3. JavaScript Implementation
4. How to Use HTML Tags in JavaScript



01
HRS



01
HRS

14

CHAPTER

Variables

1. Var in JavaScript
2. Global and Local Var in JavaScript
3. Advanced console.log



15
mins



15
mins

15

CHAPTER

Statements in JavaScript

1. If Statement
2. If Else Statement
3. Condition Ternary Statement
4. Switch Statement
5. If Else If Statement
6. Break and Continue Statement
7. Data Types



20
mins



40
mins

16

CHAPTER

Operators in JavaScript

1. Arithmetic Operator
2. Assignment Operator
3. Comparison Operator



01
HRS



01
HRS

17

CHAPTER

Popup Boxes in JavaScript

1. Alert Boxes
2. Prompt Box



30
mins



45
mins

18

CHAPTER

Events in JavaScript

1. Events in JavaScript



30
mins



45
mins

19

CHAPTER

Loops in JavaScript

1. While Loop
2. Do While Loop
3. For Loop
4. Nested Loop



15
mins



45
mins

20

CHAPTER

Arrays in JavaScript

1. Arrays
2. Modify and Delete Arrays
3. Sort and Reverse Methods
4. Pop and Push Methods



01
HRS



05
HRS

5. Shift and Unshift Methods
6. Concat and Join Methods
7. Slice and Splice Methods
8. The isArray Method
9. Indexof and lastindex Methods
10. The forEach Method
11. The toString(), valueOf(), and fill() Methods
12. Include Method
13. Some and Every Methods
14. Find and findIndex Methods
15. Filter Method

21

CHAPTER

Objects and Methods

1. Objects
2. String and Its Methods
3. JavaScript Number Methods
 - a. Number Methods
 - b. Date Method



01
HRS



03
HRS

22

CHAPTER

DOM Model

1. DOM Model
2. DOM Other Objects
3. DOM Get Methods
4. DOM Styling
5. addEventListener (Events)
6. useCapture
7. classList Method



01
HRS



04
HRS

8. Parent Nodes

9. Children Nodes

10. First and Last Child

11. Next and Previous Siblings

12. Create Element Text Node

13. Append Child and Insert Before

14. Insert Adjacent Element and Insert Adjacent HTML

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