

## SCRIPTING LANGUAGES

### (Professional Elective-I)

**Course Code : 15IT1102**

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#### **Course Outcomes:**

At the end of the course, a student will be able to

- CO 1** Understand the syntax of Java Script Programming.
- CO 2** Apply Java Scripting techniques to develop Dynamic Web Pages.
- CO 3** Understand the features of JQuery
- CO 4** Apply JQuery mechanisms for Event handling.
- CO 5** Understand the basics of Ajax.

#### **UNIT-I (10 Lectures)**

##### **WRITING THE FIRST JAVASCRIPT PROGRAM**

HTML Basics, Add JavaScript to a Page, First JavaScript Program, Writing Text on a Web Page, Attaching an External JavaScript File, Tracking Down Errors.

#### **UNIT-II (10 Lectures)**

##### **THE GRAMMAR OF JAVASCRIPT**

Statements, Built-In Functions, Types of Data, Variables, Working with Data Types and Variables, Arrays. Adding Logic and Control to Your Programs : Making Programs React Intelligently, Handling Repetitive Tasks with Loops, Functions: Turn Useful Code Into Reusable Commands

#### **UNIT-III (10 Lectures)**

##### **INTRODUCING QUERY**

About JavaScript Libraries, Getting jQuery, Adding jQuery to a Page, Modifying Web Pages: An Overview, Understanding the

Document Object Model, Selecting Page Elements: The jQuery Way, Adding Content to a Page , Setting and Reading Tag Attributes, Reading, Setting, and Removing HTML Attributes , Acting on Each Element in a Selection, Automatic Pull Quotes

#### **UNIT-IV (10 Lectures)**

##### **ACTION/REACTION: MAKING PAGES COME ALIVE WITH EVENTS**

Events, Using Events the jQuery Way, Tutorial: Introducing Events , More jQuery Event Concepts , Advanced Event Management , Animations and Effects : jQuery Effects, Performing an Action After an Effect Is Completed

#### **UNIT-V (10 Lectures)**

##### **INTRODUCING AJAX**

What Is Ajax? Ajax: The Basics, Ajax the jQuery Way, JSON, Flickr and Google Maps : Introducing JSONP , Adding a Flickr Feed to Your Site.

##### **TEXT BOOKS:**

1. David Sawyer McFarland, JavaScript and jQuery, 2<sup>nd</sup> Edition, O'Reilly, 2011.

##### **REFERENCES:**

1. Jon Duckett, Beginning HTML, XHTML, CSS, And Javascript (English), 1st Edition, Wiley India Pvt. Ltd., 2010
2. Yehuda Katz Bear Bibeault, JQuery In Action, 2Nd Ed (English), Dreamtech Press, 2010.