



Course Code	
Course Name	JavaScript Technologies: Core JavaScript, OOP JavaScript, jQuery

Duration (in days)	3	Proficiency Level	Fundamental
Pre-requisites	Front End Technologies	Target Audience	Campus Hires

## **Learning Outcome**

Upon successful completion of this course, participants will be able to

- Use JavaScript objects for creating dynamic web pages and write scripts to process forms
- Appreciate the need for XML documents and create them
- Validate XML documents with DTD and XSD
- Transform XML documents to HTML with XSLT
- Manipulate DOM with jQuery

## Day-wise Session Plan

Day	Unit	Objectives	Hours
1	Java Script Programming	<ul> <li>Introduction to JavaScript</li> <li>JavaScript variables, operators and programming constructs</li> <li>Functions and Objects</li> <li>Event Handling using JavaScript</li> <li>Working with DOM</li> <li>Form validations using DOM</li> </ul>	8
2	Introduction to XML	<ul><li>Introduction to XML</li><li>Explain how XML documents are structured</li></ul>	
	Validation of XML Documents	<ul> <li>Element, attribute, and entity declarations in DTDs</li> <li>Validate XML documents with DTD</li> <li>Different schema constructs</li> <li>Validate XML documents with XSDs</li> <li>Concept of Namespaces</li> </ul>	8
3	jQuery	jQuery  Overview of jQuery  Downloading jQuery or using from CDN  Use of \$() function  Don't jump the gun – use of \$(document).ready() function  DOM manipulation with jQuery  Use of selectors in jQuery  DOM traversal and manipulation  Using Element, Class and ID Selectors with jQuery  Modifying the Content and Styles of Selected Elements	



<ul> <li>Adding and Removing Elements Using</li> </ul>	
jQuery	
Adding jQuery UI plugins	
1. Date picker	
2. Slider	
3. Accordion	
4. Tabs	
Binding events to elements	
Total	24