

Course overview:

JavaScript: Programming

(S218eng)



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Overview and objectives

JavaScript programming is designed to provide a guide for the beginning programmer to develop Web applications using the JavaScript programming language. This five-day course introduces users to the basic JavaScript programming concepts along with the syntax to implement them. Students should pursue this course if they want to learn about the advanced JavaScript features including DHTML programming, debugging tools, database interaction, interaction with Java

After completing this course, students will know how to:

- Create an HTML document and use the SCRIPT tag and comments

- Use variables and functions, JavaScript objects, events, and event handlers.

- Use data types, arrays, expressions, and operators.

- Use the decision-making statements and loops.

- Work with windows, frames, location, history, and navigator objects.

- Use the form elements; and validate data using hidden form fields, event handlers, methods, and properties.

- Use the dynamic object model, cascading style sheets, and animations.

- Use query strings and cookies.

- Use debugging techniques; and work with Netscape JavaScript debugger and Microsoft script debugger.

- Use server-side JavaScript; create LiveWire applications; use LiveWire core objects; and create a Guest Book using LiveWire.

- Create ASP applications; use ASP object collections and ASP core objects; and create a guest book by using ASP.

- Work with basic database structure and database management systems; create database connectivity using LiveWire; and create database connectivity using Active server pages.

- Use Java; work with LiveConnect, Java, and JavaScript; and use Plug-Ins and ActiveX

Who should attend?

Students should have familiarity with personal computers and the use of the keyboard and mouse. Students should have experience of using Microsoft Internet Explorer 5 (or later) or Netscape Navigator 4 (or later).

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Introduction to JavaScript

- JavaScript and HTML basics • Using the SCRIPT tag and comments

Variables, functions, objects and events

- Working with variables and functions • Introduction to JavaScript objects • Using events and event handlers

Data types and operators

- Using data types and arrays • Expressions and operators

Working with control structures and statements

- Working with decision making statements • Working with loops

Windows and frames

- Working with windows • Working with frames • Working with location, history, and navigator object

Using forms and data validation

- Working with forms • Validating data

Dynamic HTML and animation

- Dynamic Object Model • Cascading Style Sheets and animation

Working with query strings, cookies and security

- Working with query strings • Working with cookies • Implementing security

Debugging JavaScript

- Basic debugging techniques • Additional debugging techniques

Server-side JavaScript using LiveWire

- Using Netscape LiveWire • Using LiveWire core objects

Server-side JavaScript using Active server pages

- Using Microsoft Active server pages

Introducing database and database connectivity

- Introducing database concepts • Creating database connectivity using LiveWire

Working with Java applets and embedded data

- Introduction to Java • LiveConnect, Java, and JavaScript

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