

# SYLLABUS

**DIVISION:** Business and Engineering Technology

**REVISED:** Fall 2015

**CURRICULA IN WHICH COURSE IS TAUGHT:** IST curricular or elective

**COURSE NUMBER AND TITLE:** ITP 140 – Client Side Scripting

**CREDIT HOURS:** 3 **HOURS/WK LEC:** 3 **HOURS/WK LAB:** 0 **LEC/LAB COMB:** 3

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**I. CATALOG DESCRIPTION:** Provides instruction in fundamentals of Internet application design, development, and deployment using client side scripting language(s).

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:**

- Acquire the fundamentals of web client application design, development, and deployment using client-side scripting language(s) and technologies.
- Use XHTML and JavaScript in web application development.
- Learn the basic concepts of structured programming in a client-side language (JavaScript): variables, functions, control statements, expressions

**III. REQUIRED BACKGROUND:** ITD 110, ITD 210

**IV. COURSE CONTENT:**

- Introduction to using XHTML and JavaScript in web application development.
- Basic concepts of structured programming in a client-side language (JavaScript): variables, functions, control statements, expressions.
- Basic concepts of object oriented programming in a client-side language (JavaScript): objects, properties, methods, and the Document Object Model.
- Using a client-side language (JavaScript) to develop interactive web content: forms, style sheets, data validation, and animation.

**V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE.**

**STUDENTS WILL:**

Communications

Computational and Computer Skills

Learning Skills

Understanding Culture and Society

Critical Thinking

Understanding Science and Technology

**VI. LEARNER OUTCOMES**

**VII. EVALUATION**

<p><b>Introduction to using HTML 5, CSS3 and JavaScript in web application development</b></p> <ul style="list-style-type: none"><li>• Terminology</li><li>• HTML 5 and CSS 3 standards</li><li>• Scripting language standards</li><li>• Theory of web architecture</li><li>• Implications for application design</li></ul>	<p>Lab exercises projects</p>
<p><b>Basic concepts of structured programming in a client-side language (JavaScript)</b></p> <ul style="list-style-type: none"><li>• Defining and using variables, data types, and operators</li><li>• Defining and calling functions</li><li>• Using Flow control statements</li><li>• Using Mathematical, String, and Date expressions and evaluations</li></ul>	<p>Lab exercises projects</p>
<p><b>Basic concepts of object oriented programming in a client-side language (JavaScript)</b></p> <ul style="list-style-type: none"><li>• Essential OOP terminology</li><li>• Understanding and using properties</li><li>• Creating and Using Objects</li><li>• Event handling</li><li>• Understanding and using The JavaScript Object Model to manipulate the web browser</li><li>• Understand and use the Document Object Model</li></ul>	<p>Lab exercises projects</p>

**Using a client-side language (JavaScript) to develop interactive web content: forms, applets, data validation**

- Working with the Window Object
- Creating and using frames
- Frame Communications
- Creating and using forms
- Persistence and Cookies

Lab exercises  
projects