



## Course Specifications

<b>Course Title:</b>	Web Programming
<b>Course Code:</b>	CP51
<b>Program:</b>	Diploma in Programming and Computer Sciences
<b>Department:</b>	Technology department
<b>College:</b>	Applied College
<b>Institution:</b>	Taif University

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## A. Course Identification

<b>1. Credit hours:</b>	4
<b>2. Course type</b>	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input type="checkbox"/> Program <input checked="" type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b>	Second Year / Fourth Level
<b>4. Pre-requisites for this course (if any):</b>	Null
<b>5. Co-requisites for this course (if any):</b>	Null

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	50%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other (Lab)	30	50%

### 7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	
4	Others (specify)	
	<b>Total</b>	60

## B. Course Objectives and Learning Outcomes

<p><b>1. Course Description</b>          Introduces internet and web concepts and technologies from Open Web Standards, such as HTML (with a flavor of HTML 5), CSS3 (Cascading Style Sheets), JavaScript and XML. Apart from the above technologies, student would be exposed to few popular tools in Web Development..</p>
<p><b>2. Course Main Objective</b>          The aim of the course is to:</p> <ul style="list-style-type: none"> <li>• Train students in developing stylish, interactive, efficient websites.</li> <li>• Help students to understand internet technologies,</li> <li>• Describe the structure of the WWW as interconnected hypertext documents,</li> <li>• Create a static web page using HTML, CSS and Scripting Languages,</li> <li>• Describe the importance of the HTTP protocol in Web applications.</li> </ul>

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge and Understanding</b>	
1.1	Understand and specify web technologies	K2
1.2	Understand how make available to the public well formulated web pages	K2
2	<b>Skills :</b>	
2.1	Use web technologies to design and develop static web page/sites	S1
2.2	Ability to design and develop dynamic and professional web page/sites	S2
3	<b>Values:</b>	
	Null	

### C. Course Content

No	List of Topics	Contact Hours
1	<b>Introduction and History of the web (WWW):</b> How does the Internet work, Basic standards and Building Blocks of Web (HTML, CSS, JS, XML),	6
2	<b>HTML:</b> Doctypes and markup styles, evolution of HTML. Structure of HTML page, The HelloWorld of HTML, <head> and metadata of HTML. (All in Comparison with HTML5).	6
3	<b>HTML Forms:</b> Submitting Form Data, Form Data Validations	6
4	<b>CSS:</b> Styling HTML with CSS, CSS Layouts, Text Styling, Background Images, etc.	6
5	<b>CSS and HTML</b> Styling Tables, Forms, Static Relative, etc.	6
6	<b>Introduction to JavaScript:</b> Programming Basics, Javascript Language basics, Variables, Operators.	6
7	<b>JavaScript:</b> Conditionals, Loops, Function, etc.	6
8	<b>JavaScript and HTML:</b> Making webpages interactive: Event Handling, Form Handling,	6
9	<b>XML</b>	6
10	<b>AJAX:</b> Basics of AJAX, avoiding page reloads with AJAX, Making requests from AJAX, receiving response from AJAX	6
<b>Total</b>		60

### D. Teaching and Assessment

#### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	<b>Knowledge and Understanding</b>		
1.1	Understand and specify web technologies	Lectures/ Labs	<b>Direct</b> Quizzes / Homework Exams <b>Indirect</b> Course Exit Survey
1.2	Understand how make available to the public well formulated web pages	Lectures/ Labs	<b>Direct</b> Quizzes / Homework

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			Exams <b>Indirect</b> Course Exit Survey
<b>2.0</b>	<b>Skills</b>		
2.1	Use web technologies to design and develop static web page/sites	Lectures Labs/ Project	<b>Direct</b> Quizzes / Homework Exams <b>Indirect</b> Course Exit Survey
2.2	Ability to design and develop dynamic and professional web page/sites	Lectures Labs/ Project	<b>Direct</b> Quizzes / Homework Exams <b>Indirect</b> Course Exit Survey
<b>3.0</b>	<b>Values</b>		

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	HomeWorks/Student Participation-Attendance	Every Week	5%
2	Project/ Quizzes	3 → 10	15%
3	Mid-Term	6	20%
4	Final Labs Exam	11	10%
5	Final Examination	12	50%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

**Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**

- ✓ Providing a guide for each group of students, and distributing student lists electronically to faculty members.
- ✓ There is an academic advising guide that defines the role of the faculty member in the academic advising process.
- ✓ The program supervisor is available throughout the year to answer student inquiries.
- ✓ Availability of full information about the program and its members and ways to communicate with them.
- ✓ Use the Learning Management System (Black Board) to communicate with students
- ❖ Student Handbook, Deanship of Student Affairs.  
[https://www.tu.edu.sa/Attachments/893d1c33-3156-44d7-b4b8-e203d4cca737\\_.pdf](https://www.tu.edu.sa/Attachments/893d1c33-3156-44d7-b4b8-e203d4cca737_.pdf)
- ❖ Student Handbook at Taif University.  
[https://www.tu.edu.sa/Attachments/41dc8a24-22b7-4ae1-9b31-3608de8bcf8b\\_.pdf](https://www.tu.edu.sa/Attachments/41dc8a24-22b7-4ae1-9b31-3608de8bcf8b_.pdf)

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	❖ Deitel, Deitel& Nieto, Internet and World Wide Web - How to Program, Pearson Education 2000.
<b>Essential References Materials</b>	❖ Chris Bates, Web Programming – Building Intranet applications, Wiley Publications, 2004. ❖ JavaScript Complete Reference, Thomas Powell and Fritz Schneider
<b>Electronic Materials</b>	❖ Browsing and searching sites on the Internet Google. ❖ Saudi Digital Library: <a href="https://sdl.edu.sa/SDLPortal/Publishers.aspx">https://sdl.edu.sa/SDLPortal/Publishers.aspx</a> ❖ The digital repository of Taif University: <a href="http://applications/eLibrary">http://applications/eLibrary</a>
<b>Other Learning Materials</b>	❖ Course presentation slides submitted by the course coordinator (if any).

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	❖ Classroom with 50 chairs ❖ Lab with 25 chairs
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	❖ Availability of a Data Show ❖ Provides a smart board. ❖ Provide a whiteboard and colored whiteboard pens.
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	❖ Null

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching	<ul style="list-style-type: none"> <li>• Students</li> <li>• Faculty members</li> <li>• Coordinator</li> <li>• Program Leaders</li> </ul>	<ul style="list-style-type: none"> <li>• Course exit survey</li> <li>• Feedback from Faculty members</li> <li>• Feedback from Course Coordinator</li> <li>• Feedback from Quality Committees</li> </ul>
Effectiveness of assessment	<ul style="list-style-type: none"> <li>• Faculty members</li> <li>• Coordinator</li> <li>• Program Leaders</li> </ul>	<ul style="list-style-type: none"> <li>• Feedback from Faculty members</li> <li>• Feedback from Course Coordinator</li> <li>• Feedback from Program Leader</li> </ul>
Extent of course achievement	<ul style="list-style-type: none"> <li>• Students</li> <li>• Coordinator</li> <li>• Faculty members</li> </ul>	<ul style="list-style-type: none"> <li>• Course exit survey</li> <li>• Curriculum Committees</li> <li>• Feedback from Course Coordinator</li> <li>• Feedback from Program Leader</li> </ul>

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Extent of course learning outcomes	<ul style="list-style-type: none"> <li>• Faculty members</li> <li>• Coordinator</li> <li>• Program Leaders</li> <li>• Quality Committees</li> </ul>	<ul style="list-style-type: none"> <li>• Course exit survey</li> <li>• Curriculum Committees</li> <li>• Feedback from Course Coordinator</li> <li>• Feedback from Program Leader</li> <li>• Feedback from Quality Committees</li> </ul>
Quality of learning resources	<ul style="list-style-type: none"> <li>• Students</li> <li>• Faculty members</li> <li>• Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Course exit survey</li> <li>• Course exit survey</li> <li>• Curriculum Committees</li> <li>• Feedback from Course Coordinator</li> <li>• Feedback from Program Leader</li> </ul>

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

Council / Committee	
Reference No.	
Date	