Course Specification
(Bachelor)

Course Title:	Web Technology
Course Code:	ITEC 342
Program:	Bachelor in Information Technology (BIT)
Department:	Computer Science
College:	College of Engineering and Computer Science
Institution:	Jazan University
Version:	1
Last Revision Date:	Jan 30, 2025

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (5)					
4. Course General Description:					
This course is an overview of the modern Web technologies used for the Web development. The purpose of this course is to give students the basic understanding of how things work in the Web world from the technology point of view as well as to give the basic overview of the different technologies. The topics include Introducing WWW, Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) and Security. We will follow the guidance of the World Wide Web Consortium (W3C) to create interoperable and functional websites.					
5. Pre-requirements for this course (if any)**: NIL**					
6. Co-requisites for this course (if any)**: NIL**					
7. Course Main Objective(s):					
• **Use the web architecture and web services for their designs.** • **Analyze a web page and identify its elements and attributes.** • **Use a variety of strategies and tools to create websites.** • **Create web pages using HTML and Cascading Styles sheets (CSS).** • **Understanding security challenges in Web Technologies.**					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	64	100
2	E-learning	--	--
3	Hybrid • Traditional classroom • E-learning	--	--

No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning	--	--

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	30
3.	**Field**	--
4.	**Tutorial**	--
5.	**Others (Revision + Final Lab or Case-Study Exam)**	04
Total		64

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Understand the basic concepts, history, and development of the World Wide Web, and associated technologies.	**K1**	Visual & Verbal [Lectures / Presentations]	Mid Exam, Final Exam
1.2	Define Security challenges and issues in web technologies.	**K2**	Visual & Verbal [Lectures / Presentations]	Final Exam Assignment
1.3	Identify the right tools and technologies in websites production like HTML, CSS, and XML.	**K3**	Visual & Verbal [Lectures / Presentations] Lab Sessions	Assignment, Mid Exam,Final Exam, Lab Exam
2.0	**Skills**			
2.1	Design web pages using HTML and CSS.	**S1**	Visual & Verbal	Final Exam Assignment Lab Exam

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
			[Lectures / Presentations] Lab Sessions	Mid Exam
2.3	Implement HTML, CSS and JavaScript features for secure web pages as per need of applications.	**S3**	Visual & Verbal [Lectures / Group Activity] Group meetings [Lab Session]	Mini Project, Lab Exam,
3.0	**Values, autonomy, and responsibility**			
3.1	Deliver effective oral presentations on technical topics, using appropriate visual aids and Produce clear and concise documentation.	**V2**	Group meetings, Work breakdown structuring among the team members.	Mini Project
...				

C. Course Content

No	List of Topics	Contact Hours
1.	**Ch#1: Introduction**	4T + 5P
2.	**Ch#2: HTML**	6T + 5P
3.	**Ch#3: HTML Forms**	5T + 5P
4.	**Ch#4: CSS**	5T + 5P
5.	**Ch#5: XML**	4T + 5P
6.	**Ch#6 Web Security**	4T + 4P
Total		**28 T+28 P=56**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Mini project (Must be Group Assignment to support CLO 3.1)	3rd Week	15%
2.	Assignment 1	4th Week	10%
3.	Mid Exam	7th - 9h Week	15%
4.	Lab Assignment	10th Week	10%
5.	Final Lab Exam	16th /17th Week	10%
6.	Final Theory Exam	18th/19th Week	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	• Michaud, Foundations of Web Design: Introduction to HTML & CSS, 1/e, 2014, Pearson, ISBN-10: 0321918932 | ISBN-13: 9780321918932
Supportive References	• Castro & Hyslop, HTML and CSS: Visual QuickStart Guide, 8/e, 2014, Pearson, ISBN-10: 0321928830 | ISBN-13: 9780321928832 • World Wide Web Consortium (W3C) standards and architectures through: http://www.w3.org/standards/webarch/
Electronic Materials	• www.w3schools.com • http://www.learnthenet.com/english/index.html https://www.tutorialspoint.com/ www.w3.org
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom / labs
Technology equipment (projector, smart board, software)	• Projector • Smart Board • MS Office Blackboard (online learning platform)
Other equipment (depending on the nature of the specialty)	Microphone, Speaker, Camera

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Program Leaders	Direct
Quality of learning resources	Program Leaders, Peer Reviewer	Direct
The extent to which CLOs have been achieved	Program Leaders	Direct
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**DEPARTMENT COUNCIL**
REFERENCE NO.	**ENGCSCS2406**
DATE	**19/09/2024**