



Course Specification

— (Bachelor)

Course Title: Internet Technologies

Course Code: 501461-3

Program: Bachelor of Computer Science

Department: Department of Computer Science

College: College of Computers and Information Technology

Institution: Taif University

Version: 1

Last Revision Date: 19-01-2024



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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: (8th Level/4)

4. Course general Description:

Introduce students to Web programming technologies to create dynamic Web pages using databases, and graphics. Topics may include web servers, HTML5, CSS3, HTTP protocols, XML, and scripting using PHP, JSP, ASP.NET, or JavaScript languages

5. Pre-requirements for this course (if any):

501343-3

6. Co-requirements for this course (if any):

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7. Course Main Objective(s):

Students at the end of the course are able to:

- Understand internet technologies
- Create a static and dynamic web page using HTML, CSS and Scripting Language
- Describe the importance of the HTTP protocol in Web applications
- Develop a web system using ASP.NET or PHP.





2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2	67%
2	E-learning	1	33%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0
4	Distance learning	0	0

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	-
3.	Field	-
4.	Tutorial	-
5.	Others (specify)	-
Total		45

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Describe the internet structure, the WWW, the web servers, and the HTTP protocol	K1	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey
2.0	Skills			
2.1	Create static web pages	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
				Indirect Assessment Tool Course Exit Survey
2.2	Design web page layouts	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey
2.3	Develop server-side programs and web pages	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey
2.4	Develop web pages with JavaScript interactions	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey
3.0	Values, autonomy, and responsibility			



C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Web Systems	3
2.	History of the Web, How does the Internet work, Basic building blocks of Web. How all of these work together?	3
3.	Beginning HTML, Markup styles, Structure of HTML page	3
4.	HTML Lists, Tables, Images, and HTML Forms	6
5.	CSS, Styling HTML with CSS, CSS Layouts, styling Text, Tables, Forms, Webpage Layout.	9
6.	Introducing JavaScript, Programming Basics, JavaScript Language	6
7.	Advanced JavaScript linked to HTML	3
8.	Server-side web development with JSP, PHP or ASP.NET	6
9.	Multitier Web Application using databases	6
Total		45

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Student Participation-Attendance	Every Week	5%
2.	Project	Week 7 →12	15%
3.	Quizzes	Week 4 & 12	10%
4.	Final Labs Exam	Week 15	10%
5.	Mid-Term	Week 8	20%
6.	Final Examination	Week 16	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	Internet and World Wide Web - How to Program, Deitel, Deitel & Nieto, Pearson Education (latest edition)
Supportive References	Web Programming – Building Intranet applications, Chris Bates, Wiley Publications
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment





Items	Resources
<p>facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)</p>	<ul style="list-style-type: none"> Classroom with 40 chairs Lab with 20 PCs and required software tools installed (PHPStorm, Sublime, Eclipse or NetBeans)
<p>Technology equipment (projector, smart board, software)</p>	<ul style="list-style-type: none"> Video projector / data show White board
<p>Other equipment (depending on the nature of the specialty)</p>	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Effectiveness of Students assessment	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Quality of learning resources	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> Students Faculty members Coordinator Council Curriculum Committees 	<ul style="list-style-type: none"> Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Other		

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





Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	CS council
REFERENCE NO.	Meeting #11
DATE	07/03/2024

