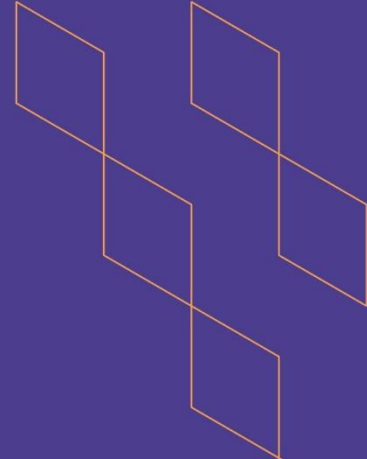




T-104
2022

Course Specification



Course Title: Web Application Development 1
Course Code: IS1253
Program: Computer Information Systems
Department: Computer Information Systems
College: Computer Science and Information Technology
Institution: Al-Baha University
Version: v1.0
Last Revision Date: 24-5-2023



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A. General information about the course:

Course Identification	
1. Credit hours:	4 Credit Hours (3, 2, 0) (Lecture, Lab, Tutorial) (5 Contact Hours)
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	6 th level/ 2 nd Year
4. Course general Description This course introduces the principles and techniques of client-side web development. It also covers client-server architecture and protocols. Students will learn how to develop static, interactive, and responsive web applications using HTML, CSS and JavaScript. The course introduces some of the popular client-side frameworks and libraries.	
5. Pre-requirements for this course (if any): None	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s) Upon completion of this course, students will be able to:	
<ul style="list-style-type: none"> • Explain the client-side architecture and protocols. • Create static web pages. • Implement interactivity on a web page. • Use client-side frameworks/libraries to develop interactive and responsive web applications. • Take responsibility for his/her learning. 	

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	30	60%
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4.	Distance learning		
5.	Lab	20	40%

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	20
3.	Field	





4.	Tutorial	
5.	Others (specify)	
Total		60

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

Code	Course Learning Outcomes	Code of CLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Explain the client-side architecture and protocols.	K1	<ul style="list-style-type: none"> Lectures 	<ul style="list-style-type: none"> Midterm exam Final Exam
2.0	Skills			
2.1	Create static web pages	S2	<ul style="list-style-type: none"> Tutorials Lectures Task-based learning Assignment 	<ul style="list-style-type: none"> Midterm exam Assignment (rubric) Final lab exam or Final Exam
2.2	Implement interactivity on a web page.	S2	<ul style="list-style-type: none"> Tutorials Lectures Task-based learning Assignment 	<ul style="list-style-type: none"> Midterm exam Assignment (rubric) Final lab exam or Final Exam
2.3	Use client-side frameworks/libraries to develop interactive and responsive web applications.	S2	<ul style="list-style-type: none"> Tutorials Lectures Task-based learning Assignment 	<ul style="list-style-type: none"> Midterm exam Assignment (rubric) Final lab exam or Final Exam
3.0	Values, autonomy, and responsibility			
3.1	Take responsibility for his/her learning.	V3	<ul style="list-style-type: none"> Task-based learning Assignment 	<ul style="list-style-type: none"> Assignment (rubric)

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to the client-side web development	2
2.	Creating static web pages (HTML)	8
3	Styling web pages (CSS)	5





4	Introduction to JavaScript	5
5	Function, methods and objects	8
6	Decisions and loops	7
7	Document Object Model (DOM)	5
8	Events	5
9	JavaScript framework/library	5
Total		50

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam	5	20%
2.	Assignments/Discussions	Periodically	20%
3.	Fina lab exam	12	20%
4	Final exam	13	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	<ul style="list-style-type: none"> - "HTML and CSS: Design and Build Websites" by Jon Duckett, Wiley. - "JavaScript and JQuery: Interactive Front-End Web Development" by Jon Duckett, Wiley.
Supportive References	"Eloquent JavaScript: A Modern Introduction to Programming by Marijn Haverbeke, 2018.
Electronic Materials	<ul style="list-style-type: none"> • Access to the Saudi Digital Library (SDL). • Using the learning management system of the university – Rafid System (https://rafid.bu.edu.sa/). • Online websites: <ul style="list-style-type: none"> • https://www.w3schools.com/ • https://developer.mozilla.org/ • https://www.codecademy.com • https://www.freecodecamp.org/
Other Learning Materials	• Sololearn (mobile app) or similar

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	All the lectures should be in a well-prepared lab that can accommodate 25 students at most.





Items	Resources
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> A digital image projection system with a connection to a computer. High-speed Internet connection. An instructor computer station. An application to manage labs and learning sessions (e.g. NetSupport School). Visual Studio Code.
Other equipment (depending on the nature of the specialty)	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching		
Effectiveness of students' assessment	<ul style="list-style-type: none"> Students Exam Evaluation Committee Course Coordinator 	<ul style="list-style-type: none"> Survey (indirect) Exam Review (direct) Review of course file (direct)
Quality of learning resources	<ul style="list-style-type: none"> Faculty Students 	<ul style="list-style-type: none"> Survey (indirect)
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> Faculty Program Leaders or Course Coordinator 	<ul style="list-style-type: none"> Exams (direct) Exit Exams (direct)
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Curriculum Committee Meeting
REFERENCE NO.	
DATE	May 24, 2023

