

Module (Course Syllabus) Catalogue 2023-2024

College/ Institute	College of Erbil Technical Engineering	
Department	Technical Information System Engineering	
Module Name	Web Development	
Module Code	WED403	
Degree	Technical Diploma <input type="checkbox"/>	Bachler <input checked="" type="checkbox"/>
Semester	Four	
Qualification	M.Sc.	
Scientific Title	Lecturer	
ECTS (Credits)	6	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours	4	Total Workload=(162) hrs
Weekly hours (Theory)	(2)hr Class	(81)Total hrs Workload
Weekly hours (Practical)	(2)hr Class	(81)Total hrs Workload
Number of Weeks	14	
Lecturer (Theory)	Dina Yousif Mikhail	
E-Mail & Mobile NO.	Dina.mikhail@epu.edu.iq	
Lecturer (Practical)	Niyaz Muhamad Salih	
E-Mail & Mobile NO.	niyaz.salih@epu.edu.iq	
Websites	Moodle Link	

Course Book

<p>Course Description</p>	<p>In this course, we will mostly talk about the back-end web development skills and a few front-end techniques. We will be covering topics like Bootstrap and PHP. This Course prepares students for a career as a web developer or website administrator. These professionals are responsible for creating standards-based websites and web/database applications. In addition to programming skills in common markup and scripting languages, these professions require project management and communication skills.</p>				
<p>Course objectives</p>	<p>To teach the fundamental responsive web design skills. To teach attendees the Object-Oriented PHP programming skills they need to successfully build interactive website.</p>				
<p>Student's obligation</p>	<p>Student's obligation in the Computer application course is:</p> <ul style="list-style-type: none"> •Attendance in the all lectures. •One or more quizzes in each course. •Exam in end of first course and second course. 				
<p>Required Learning Materials</p>	<ul style="list-style-type: none"> •Using data show, white board and PowerPoint, Testing in department's Laboratory. •Publish all lectures and notes in Moodle account. 				
<p>Evaluation</p>	<p>Task</p>		<p>Weight (Marks)</p>	<p>Due Week</p>	<p>Relevant Learning Outcome</p>
	<p>Paper Review</p>				
	<p>Assignments</p>	<p>Homework</p>	<p>%5</p>	<p>2</p>	<p>solve problems of php</p>
		<p>Class Activity</p>	<p>%2</p>		<p>Be active during class</p>
		<p>Report</p>	<p>%5</p>	<p>1</p>	<p>Prepare report about the web design and development</p>
		<p>Project</p>	<p>%5</p>	<p>1</p>	<p>Create simple project using Bootstrap</p>
	<p>Lab Report & Activity</p>		<p>%10</p>	<p>2</p>	<p>Using tools and code to design</p>

				and develop website
	Quiz	%8	2	
	Midterm Exam	%10	1	
	Lab Midterm Exam	%15	1	
	Final Exam	%20	1	
	Lab Final Exam	%20	1	
	Total	%100		
Specific learning outcome:	<p>On successful completion of this module, students should be able to gain knowledge of web programming concepts and the following:</p> <ul style="list-style-type: none"> • Build a mobile-first website using Bootstrap and Build responsive designs with Bootstrap. • Optimize a Bootstrap design for target device features. • List the major elements of the PHP & MySQL work and explain why PHP is good for web development • Learn how to take a static website and turn it into a dynamic website run from a database using PHP and MySQL. • Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application. • 			
Course References:	<ul style="list-style-type: none"> • Bootstrap: Responsive web development-Jake Spurlock • PHP: The Complete Reference-Steven Holzner 			
Course topics (Theory & Practical)			Week	Learning Outcome
Introduction of web development Course Book			1	Understanding to the syllabus of web development
Introduction of web design and web development What do you need to start?			2	Understanding to web design and development, Frontend Vs. Backend Static Vs. Dynamic Website
Introduction to Responsive design and Bootstrap CSS Framework and Bootstrap Basics			3&4	Understanding and using Bootstrap

Bootstrap Containers, Grid, Colors, Background, Images, Cards, Pagination, Carousel, Modal, and Table.		Framework and Create responsive Tables and Images
Bootstrap Buttons, Button Groups, Dropdowns, Dropdown, Navigation Bars, Progress Bars, Border, Width, Height, Float, and Clearfix. Forms, Select Menu, Checkbox, Radio Button, Input Groups, Form Floating Labels, Form Validation, Range, and Text. Bootstrap Responsive Floats, Spacing, Shadows, Vertical Align, Close Icon, Aspect Ratio.	5&6	Understanding and using Bootstrap classes and codes to Create a responsive design
Mid term exam	7&8	
Introduction to PHP, embedding of PHP into HTML program, Variable, output, comments, data types, Operators, conditional statement (If Else), Loop etc.	9&10	Understanding and using php programming language basics
Functions , Array, Array's functions, super global variables and loops in PHP	11	Understanding and using php programming language basics
PHP Forms, File Handling, GET and POST methods, Security features implementation, include files	12&13	Understanding and using functions in php to interact with html pages
<ul style="list-style-type: none"> • OOPS Concepts with PHP Integrating PHP and MySQL <ul style="list-style-type: none"> • PHP interfacing with MySQL • Connecting to MySQL • Connecting to a database • Executing SQL • Retrieving the data set • Refining the fetch 	14	Learn how to create object and classes. Learn how to retrieve and manipulate data from one or more tables. Know how to filter data based upon multiple conditions. Updating and

Questions Example Design

Q1\ Convert this design to code?

EPU Home Departments About Gallery

Q2/ Can you enumerate the various lists supported by Bootstrap?

Extra notes:

External Evaluator

I confirm that the syllabus given the attached course book is sufficient and covers the required areas needed for the students.



Signature
DR. Shahab Wahab Karim

27-Jan-2024