

Module (Course Syllabus) Catalogue

2022-2023

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		
Scientific Title	Asst. 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	12	
Lecturer (Theory)	Niyaz Muhamad Salih	
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Lecturer (Practical)	Soran Baxtyar and Iman Samir	
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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, PHP, and MySQL. 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, scripting, and SQL languages, these professions require project management and communication skills.</p>				
<p>Course objectives</p>	<p>To teach the fundamental responsive web design skills.</p> <p>To teach attendees the Object-Oriented PHP programming skills they need to successfully build interactive website.</p> <p>To teach students enough MySQL database skills to build the databases that will power their websites.</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 google classroom and 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>	

	Project	%5	1	Create simple project using Bootstrap
	Lab Report & Activity	%10	2	Using tools and code to design 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. • Optimise 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. • Learn how databases work and how to design one, as well as how to use phpMyAdmin to work with MySQL. • Learn different ways of connecting to MySQL through PHP, and how to create tables, enter data, select data, change data, and delete data. Connect to SQL Server and other data sources. 			
Course References:	<ul style="list-style-type: none"> • Bootstrap: Responsive web development-Jake Spurlock • PHP: The Complete Reference-Steven Holzner • Learning MySQL-Seyed M.M. & Hugh E. Williams 			
Course topics (Theory & Practical)			Week	Learning Outcome
Introduction of web development and web technologies			1	Understanding to web design and development
Introduction to Responsive design and Bootstrap CSS Framework and Bootstrap Basics			2&3	Understanding and using

Bootstrap Containers, Grid, Colors, Background, Images, Cards, Pagination, Carousel, Modal, and Table		Bootstrap Framework and Create responsive Tables and Images
Bootstrap Buttons, Button Groups, Dropdowns, Droupup, Navigation Bars, Progress Bars, Border, Width, Height, Float, and Clearfix. Bootstrap Responsive Floats, Spacing, Shadows, Vertical Align, Close Icon, Aspect Ratio, Forms, Select Menu, Checkbox, Radio Button, Input Groups, Form Floating Labels, Form Validation, Range, and Text.	4&5	Understanding and using Bootstrap classes and codes to Create a responsive design
Introduction to PHP, embedding of PHP into HTML program, Data Types, Variable, Operators, Decision Making, Functions and Array in PHP, String Handling, Echo function, conditional tag (If Else), Loop etc.	6&7	Understanig and using php programming language basics
OOPS Concepts with PHP	8	Understanding and using OOP with php programming language
PHP Forms, File Handling, Cookies and sessions, Security features implementation	9	Understanding and using functions in php to interact with html pages
What is SQL & MySQL and its Versions? <ul style="list-style-type: none"> • MySQL CLI:mysql/GUI:phpmyadmin • Administration & Query Browser • Creating Databases and Tables • Table Types in MySQL • Data Types:Varchar, Int, Char, Date and Time • Deleting databases and tables • Inserting, Retrieving, Updating and Deleting data • MySQL User Accounts, Privileges and Access Control 	10&11	Understanding of SQL syntax used with MySQL. Create and Modify Database, table, and user.
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 	12	Learn how to retrieve and manipulate data from one or more tables. Know how to filter data based upon multiple conditions. Updating and

inserting data
into existing
tables.

Questions Example Design

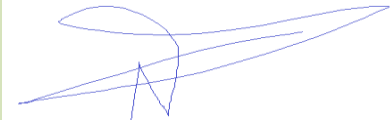
Q1\ Convert this design to code?

EPU Home Departments About Gallery

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

Assist Lecturer Niyaz Muhamad Salih

16-Jan-2022