

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of INFORMATION TECHNOLOGY,
2025-2026 Fall
Course Information for IT 349 WEB PROGRAMMING

Course Name:	WEB PROGRAMMING				
Code IT 349	Regular Semester 5	Theoretical 2	Practical 2	Credits 3	ECTS 6
Name of Lecturer(s):	Islam Abdulaziz				
Teaching Assistant:	Hemin Mikael				
Course Language:	English				
Course Type:	Main				
Office Hours	Sunday 14:30 – 15:30, Thursday 13:30 – 14:30				
Contact Email:	islam.abdulaziz@tiu.edu.iq Tel:07504649642				
Teacher's academic profile:	MSc				
Course Objectives:	This course introduces the fundamentals of web programming using JavaScript, PHP, web design, and MySQL. It guides students in building and deploying dynamic web applications, starting from simple websites to more advanced systems that connect with databases. Students will explore PHP, a widely used server-side scripting language for creating dynamic applications, and JavaScript, a client-side language that adds interactivity to web pages. In addition, they will work with MySQL, a well-known relational database management system (RDBMS) for storing and managing application data. By the end of the course, students will be equipped with the essential skills and knowledge to design, develop, and deploy dynamic web applications.				
Course Description (Course overview):	The course introduces the basic concepts, principles and tools that are used to develop WEB applications. The course provides an overview of Internet technology and also introduces current Web protocols server-side programming, communication and design.				

COURSE CONTENT

Week	Hour	Date	Topic
1	2	05-09/10/2025	Introduction to course + Syllabus
2	2	12-16/10/2025	Introduction to JavaScript
3	2	19-23/10/2025	Introduction to PHP + Setup
4	2	26-30/10/2025	Variables and Pre-defined Functions
5	2	02-06/11/2025	Control Structures and User-defined Functions
6	2	09-13/11/2025	Date, Time & Form Data Handling
7	2	16-20/11/2025	Midterm Exam
8	2	23-27/11/2025	Form Validation, Cookies, and Sessions
9	2	30/11-04/12/2025	Database Connection & Table Creation in PHP
10	2	07-11/12/2025	Create and Read in PHP
11	2	14-18/12/2025	Update and Delete in PHP
12	2	21-25/12/2025	Project Presentations / Holiday

13	2	28/12-01/01/2026	Holiday	
14	2	04-08/01/2026	Project Presentations and Review	
15	2	11-15/01/2026	Final Exam	
COURSE/STUDENT LEARNING OUTCOMES				
1	Explain the fundamental principles of web development and the roles of JavaScript, PHP, and MySQL.			
2	Create fully functional web applications by integrating JavaScript, PHP, and MySQL.			
3	Use PHP to manage database connections and securely handle user input.			
4	Apply JavaScript and web development principles to design interactive web applications.			
5	Analyze and evaluate web applications to debug and resolve errors systematically.			
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)				
Program Learning Outcomes			Cont.	
1	Analyze a problem, and identify the computing requirements appropriate to its solution		P	
2	Design, implement, and evaluate computer-based systems, process, component, or program to meet desired needs		P	
3	Function effectively in teams to accomplish a common goal		I	
4	Identify professional, ethical, legal, security, social, and economic issues and responsibilities		I	
5	Analyze the local and global impact of computing on individuals, organizations, and society		I	
6	Use current techniques, skills, and tools necessary for computing practice		P	
7	Apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies		A	
8	Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems		I	
9	Effectively integrate it-based solutions into the user environment		P	
10	Apply problem solving skills, core it concepts, best practices and standards to information technologies		P	
11	Identify and evaluate organizational requirements and current and emerging technologies		I	
12	Design and integrate it-based solutions into the organizational environment		P	
Prerequisites (Course Reading List and References):		IT 240 - Web Design Course.		
Student's obligation (Special Requirements):		All students are required to actively participate in their assigned Google Classroom and stay updated with all announcements. Adhere to TIU attendance rules by arriving on time for lectures and video sessions. Take responsibility for understanding all course content from classes, videos, and labs, and don't hesitate to ask questions when clarification is needed. Exams will cover all material taught, without exceptions. Quiz, assignment, and project deadlines are strict, and extensions will not be granted. Make effective use of office hours for support, keeping in mind that availability outside scheduled hours is not guaranteed. Additionally, extra credit will be awarded for identifying errors in lecture notes or code.		
Weekly Laboratory/Practice Plan:	Week	Hour	Date	Topics
	1	2	05-09/10/2025	Introduction to course + Syllabus
	2	2	12-16/10/2025	Introduction to JavaScript
	3	2	19-23/10/2025	Introduction to PHP + Setup
	4	2	26-30/10/2025	Variables and Pre-defined Functions
	5	2	02-06/11/2025	Control Structures and User-defined Functions

	6	2	16-20/11/2025	Midterm Exam
	7	2	23-27/11/2025	Form Validation, Cookies, and Sessions
	8	2	30/11-04/12/2025	Database Connection & Table Creation in PHP
	9	2	07-11/12/2025	Create and Read in PHP
	10	2	14-18/12/2025	Update and Delete in PHP
	11	2	21-25/12/2025	Project Presentations / Holiday
	12	2	04-08/01/2026	Project Presentations and Review
	13	2	11-15/01/2026	Final Exam
Course Book/Textbook:	Main Textbook sources for this course Programming PHP: creating dynamic web pages. by Kevin Tatroe, Peter MacIntyre. 2020 PHP for the web: visual quickstart guide 5th Edition, by Larry Ullman. 2015			
Other Course Materials/References:	PHP For Beginners by Jeffrey Way, Available on Laracasts for free. Learn PHP The Right Way By Gio Available on Youtube for free.			
Teaching Methods (Forms of Teaching):	Lectures, Practical sessions, Exercises, Presentation, Project, Demonstration, , ,			
COURSE EVALUATION CRITERIA				
Method			Quantity	Percentage (%)
Quiz			5	3
Project			1	15
Midterm Exam			1	20
Laboratory			10	1
Final Exam			1	40
Total				100
Examinations: True-False, Fill in the Blanks, Multiple Choices, Short Answers, Writing Code, ,				
Extra Notes:				
ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD				
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload	
Theoretical Hours	13	2	26	
Practical Hours	13	2	13	
Final Exam	1	25	25	
Quiz	5	5	25	
Project	1	25	25	
Midterm Exam	1	20	20	
Laboratory	10	1	10	
Total Workload			144	
ECTS Credit (Total workload/25)			6	

Peer review

Signature:
Name:
Lecturer

Signature:
Name:
Head of Department

Signature:
Name:
Dean