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

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| **Course Name:** | WEB PROGRAMMING |

| Code | Regular Semester | Theoretical | Practical | Credits | ECTS |
|---|---|---|---|---|---|
| IT 349 | 5 | 2 | 2 | 3 | 6 |

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| **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<br><br>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 | Handling Form Data Between Pages |
| **7** | 2 | 16-20/11/2025 | Midterm Exam |
| **8** | 2 | 23-27/11/2025 | Form Validation |
| **9** | 2 | 30/11-04/12/2025 | Cookies, Sessions, and Date/Time |
| **10** | 2 | 07-11/12/2025 | Database in PHP |
| **11** | 2 | 14-18/12/2025 | Create and Read in PHP |
| **12** | 2 | 21-25/12/2025 | Update and Delete in PHP / Holiday |
| **13** | 2 | 28/12-01/01/2026 | Include and Require / Holiday |
| **14** | 2 | 04-08/01/2026 | Review and Project Presentation |
| **15** | 2 | 11-15/01/2026 | Final Exam |

## COURSE/STUDENT LEARNING OUTCOMES

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| **1** | Understand the principles of web development and technologies like JavaScript, PHP, and MySQL. |
| **2** | Create fully functional web applications by integrating JavaScript, PHP, and MySQL. |
| **3** | PHP to manage database connections and handle user input effectively. |
| **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 | |
| **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 |

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| **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 | 09-13/11/2025 | Handling Form Data Between Pages |
| 7 | 2 | 16-20/11/2025 | Midterm Exam |
| 8 | 2 | 23-27/11/2025 | Form Validation |
| 9 | 2 | 30/11-04/12/2025 | Cookies, Sessions, and Date/Time |
| 10 | 2 | 07-11/12/2025 | Database in PHP |
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| | 13 | 2 | 28/12-01/01/2026 | Include and Require / Holiday |
| | 14 | 2 | 04-08/01/2026 | Review and Project Presentation |
| | 15 | 2 | 11-15/01/2026 | Final Exam |

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| **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, , , |

**COURSE EVALUATION CRITERIA**

| Method | Quantity | Percentage (%) |
|---|---|---|
| Quiz | 5 | 3 |
| Project | 1 | 15 |
| Midterm Exam | 1 | 20 |
| Lab Exercises | 10 | 1 |
| Final Exam | 1 | 40 |
| **Total** | | **100** |

**Examinations:** Essay Questions, True-False, Multiple Choices, Writing Code, ,

**Extra Notes:**

**ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD**

| Activities | Quantity | Workload Hours for 1 quantity* | Total Workload |
|---|---|---|---|
| Theoretical Hours | 15 | 2 | 30 |
| Practical Hours | 15 | 2 | 15 |
| Final Exam | 1 | 20 | 20 |
| Quiz | 5 | 5 | 25 |
| Project | 1 | 25 | 25 |
| Midterm Exam | 1 | 15 | 15 |
| Lab Exercises | 10 | 1 | 10 |
| **Total Workload** | | | **140** |
| **ECTS Credit (Total workload/25)** | | | **6** |

**Peer review**

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|---|---|---|
| Signature: | Signature: | Signature: |
| Name: | Name: | Name: |
| Lecturer | Head of Department | Dean |