

SCHOOL	School of Web and Business Communication
ACADEMIC YEAR	THREE-YEAR PROGRAM III - 2025/2026
SUBJECT	1649 Web Design III (PHP, My SQL)
TYPE OF SUBJECT	Theoretical-Practical
NUMBER OF HOURS PER LESSON	4
NUMBER OF ECTS CREDITS	8
DISTRIBUTION OVER THE ACADEMIC YEAR	ANNUAL

EDUCATIONAL OBJECTIVES AND EXPECTED RESULTS

Objectives The objective of the course is to provide the fundamentals of functional programming in PHP and an introduction to object-oriented programming. The design phases of PHP software will be addressed, even before writing code, introducing flowcharts and programming logic. Another objective is to facilitate a discussion among students regarding software design, with the aim of replicating a real-world work environment. Another objective is to facilitate the acquisition of security policies to be implemented with server-side scripts. **Expected Outcomes** Development of a website or portal that can be managed with a CMS specifically designed by the student.

Knowledge and understanding	Upon completion of the course, the objective is to achieve the following outcomes: Acquire comprehensive knowledge of the language and demonstrate autonomy in the development of a web administration portal. Possess a comprehensive understanding of databases and the entity-relationship model.
Applying knowledge and understanding	It is anticipated that students will be capable of independently developing PHP scripts, having previously designed the system. I expect them to be proactive and creative in identifying the optimal solution, in terms of performance, usability, accessibility, and security.
Making judgements	Students are expected to develop their autonomy in interpreting a project request, to be capable of transcending their personal perspectives, and to analyze requests from potential clients, as well as to critically evaluate the work of others.
Communication skills	The personal presentation of a project is of utmost importance, and during the roll call, the individual will be required to present the completed product.
Learning skills	Students are expected to develop their ability to understand the logic of software and to exercise their logical skills, taking into account the talents of each individual.

CONTENTS	<p>Contents 1 PHP 1.1 Introduction 1.1.1 The significance of the server-side 1.1.2 Interaction between the client and the server 1.2 Advantages of Utilizing PHP 1.3 Integration of PHP and HTML 1.4 Syntax and Structures 1.5 Variables, Types, and Operators 1.5.1 Variables 1.5.2 The categories 1.5.3 Arithmetic Operators 1.5.4 Logical Operators 1.5.5 Arithmetic and Boolean Expressions 1.6 Control Structures 1.6.1 If Statement 1.6.2 Else and Elseif Instructions 1.6.3 Switch Instruction and Ternary Operator 1.6.4 The for, while, and do loops 1.7 Arrays and Functions 1.7.1 Arrays 1.7.2 Managing Variables 1.7.3 Managing Strings 1.7.4 Managing Arrays 1.7.5 Managing dates 1.7.6 Compose your own functions 1.7.7 Scope and Optional Topics 1.8 Further Insights 1.8.1 GET and POST Variables 1.8.2 Maintaining the state with cookies 1.8.3 Maintaining the status of sessions 1.8.4 Accessing the File System 1.8.5 List and Explanation of Key Functions 1.8.6 Ajax 2 MySql (approximately 30 hours, including exercises) 2.1 Introduction 2.1.1 Databases and the Relational Model 2.2 Connection 2.2.1 Establishing a Connection to MySQL Using PHP 2.2.2 Terminate a database connection 2.3 Creation of Databases and Tables 2.3.1 Establish a database 2.3.2 Select a database 2.3.3 Creating the tables 2.3.4 Structure of the Tables 2.3.5 Login tables (practical example of a table) 2.3.6 PHP functions for managing database information 2.4 Data management (we are developing a small blog and administrative area) 2.4.1 Authentication 2.4.2 Insertion of Posts 2.4.3 Post Formatting 2.4.4 Display 2.4.5 Insertion of comments 2.4.6 Moderation Certain lessons are dedicated to topics requested by students in the preceding lesson, for which I will prepare the materials and conduct in-depth analyses. Required Bibliography and Sources: Lecture notes, slides, and materials provided and explained in the classroom, as well as shared through the platform. Reference classroom. The arguments, comments, and examples developed in class are essential. by the instructor during the lessons.</p>
ADOPTED METHODOLOGY	<p>[X] In Person Methodology The course is conducted by alternating a series of lectures, each supported by slides specifically designed for the course – opportunities for sharing materials, opportunities for interaction between instructors and students.</p>
ASSESSMENT METHODS	<p>Professional Evaluation The comprehensive assessment of each student's learning will be compiled upon completion of an examination, during which the student presents the project developed throughout the course.</p>