



**AMERICAN UNIVERSITY
OF CYPRUS**

Course Code CSC108	Course Name Web Technology	ECTS Credit 5
Pre-Requisite	Course Type Compulsory	Language of Instruction English
Year of Study 1 st /2 nd	Level of Course BSc/1st Cycle	Mode of Delivery On Campus

Course Objectives:

To acquaint students with the basic concepts of the Internet and the World Wide Web, to understand their usefulness and to be able to design, develop and maintain Web applications using the respective technologies.

Learning Outcomes:

Upon completion of the course, students will be able to:

- Recognize the theoretical aspects of the Internet as a platform for web-based systems
- Recognize modern web-based architectures and features of modern Web Servers.
- Identify how networking systems can help as a strategic asset to businesses and organizations.
- Recognize the relative design of web-based systems.
- Recognize methods of evaluating the usability of Internet systems.
- Identify the basic concepts of Service Oriented Architecture technology and its applications.
- Recognize the features of the Semantic Web.

Teaching Methodology:

Lectures 42 hours

Course Content

Introduction

The History of the Internet and the World Wide Web. Basic concepts of the Internet

Worldwide web

Fundamental Technologies and Architecture of the World Wide Web. Web protocols.

Website Design

Website development methods and principles

Security

Introduction to Internet security concepts.

Usability

Usability on the Web. Usability evaluation methods.

Efficiency in organizations and businesses

How the internet can be used to improve the performance of organizations and businesses. Applications: Electronic Commerce

Advanced topics

Sematic Web technologies, Web Services and how they can be used in organizations and businesses

Assessment Methodology:

Final Exam

Assignment

Required Textbooks/Reading:

Title	Author(s)	Publisher	Year
Developing Web Applications	Moseley Ralph	Wiley	2007
The design of sites	Douglas Van Duyne et al	Prentice Hall	2007
Web Services: Principles and Technology	Michael Papazoglou	Pearson	2007