



University of Nicosia, Cyprus

Course Code COMP-412	Course Title Internet Programming	ECTS Credits 6
Department Computer Science	Semester Fall, Spring	Prerequisites Any programming language
Type of Course Elective	Field Computer Science	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 3rd	Lecturer(s) Dr Dmitry Apraksin
Mode of Delivery Face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The main objectives of the course are to:

- introduce a concept of WWW and the Internet
- introduce Domain Name System
- introduce and use name server configuration
- introduce and use IIS and Apache WEB servers
- introduce and use Microsoft WEB development platform
- introduce cloud computing (Microsoft Azure)
- obtain knowledge and practical experience of ASP.NET programming
- obtain knowledge and practical experience of database (ADO.NET) programming

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Register an internet domain and manage domain name server
2. Configure and manage IIS and Apache WEB servers.
3. Develop ASP.NET data driven applications.
4. Apply (ADO.NET) database programming skills.

Course Contents:

1. Introduction to the Internet.
2. Domain Name system. Domain registration procedure. Domain name servers. Domain name server configuration (Microsoft DNS and BIND).
3. HTTP and WEB servers. Basic configuration tasks (IIS and Apache).
4. HTTPS and SSL. Configuring secure communication.
5. Microsoft WEB development platform. Components. Development tools.
6. ASP.NET single page application. Client and server side scripting. Testing ASP.NET applications
7. Using simple server controls (textbox, button, link button, etc.)
8. Using validation controls
9. Using navigation controls
10. Using login controls and Web site management
11. Database programming. ADO.NET. Data controls (SqlDataSource, Gridview, Detailsview, Formview, Repeater)

12. Microsoft Azure. Deploying ASP.NET application into a cloud.

Learning Activities and Teaching Methods:

Lectures, lab presentations, lab tutorials, practical exercises, assignments

Assessment Methods:

Homework, project, midterm examination, final examination

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Anne Boehm	Murach's ASP.NET 3.5 Web Programming	Mike Murach & Associates, Inc.	2008	978-1-890774- 9