

## Global Learning Semesters

### Course Syllabus

Course: MBA-731 Computer Systems Architecture

Department: MBA

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
MBA-731	Computer Systems Architecture	3.7
Semester Offered	Contact Hours	Prerequisites
Summer	42	Completion of at least half of the Core Courses
Department	Level of Course	Language of Instruction
MBA	Upper Division	English

### Course Description

1. Explain in system terms the fundamental characteristics and components of compute hardware and system software.
2. Demonstrate how compute hardware and system software interact.
3. Analyze the relationship between computer system structures and performance and use benchmarking mechanisms to analyze the performance of computer systems.
4. Understand tradeoffs in computer architecture introduce requirements for interoperability and systems integration and propose technical upgrades.
5. Discuss outsourcing and alternate implementations of Information and Communication Technology (ICT) infrastructure.
6. Understand the major issues in disaster planning and recovery and develop appropriate solutions for the recovery of a computer system

### Instructor

Dr. Dragan Nikolic

### Course Aims and Objectives

This course provides the student with a functional understanding of principles and applications of computer modules and systems, including CPU, memory, virtual memory and I/O devices. System architecture for networked computing systems will also be covered. Topics will also include computer systems performance evaluation and disaster planning and recovery. Theoretical underpinnings, installation, configuration and operational laboratory experiences will enable students to understand tradeoffs in computer architecture for effective use in a business environment. Furthermore, real world case will illustrate the challenges Chief Executive Officers (CEOs) and Chief Technology Officers (CTOs) face regarding investments on IT infrastructure and its effective use in a business environment.

### Teaching Methods

The course is delivered through a mixture of lectures, tutorials and practical exercises and assignments.

## Course Teaching Hours

42 hours (lectures/presentations). The course is delivered during the summer session (10 days module).

## Evaluation and Grading

Mid-Term:	40%
Final Assignment:	50%
Participation:	10%

## Readings and Resources

### Required Textbook

Hennessy, John L. and Patterson, David A. (1998). Computer Organization & Design. San Francisco, California: Morgan Kaufmann. ISBN: 1-55860-428-6