

Global Learning Semesters

Course Syllabus

Course: EENG-270 Signals and Systems

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-270	Signals and Systems	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	MATH-191 Calculus and Analytic Geometry II. General Knowledge of differential and integral Calculus.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

Course Description

An introduction to the fundamental techniques for the analysis of signals and systems. Main issues include linear time-invariant systems, impulse response, convolution, Fourier series, Fourier and Laplace transformations. Emphasis will be placed on the applications of the above techniques in engineering problems.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

The provide students with a solid mathematical foundation on signal and system theory.

Teaching Methods

The course is delivered through lectures.

Course Teaching Hours

The course is 42 hours long and is delivered in 14 weeks (3 hours/week).

Evaluation and Grading

Homework/Attendance: 10%
Test I: 25%
Test II: 25%
Final Exam: 40%

Readings and Resources

Required Textbook

Samir S. Soliman and Mandyam D. Srinath, Continuous and Discrete Signals and Systems, Second Edition, Prentice Hall, 1998

Recommended Readings

- Charles L. Phillips, John M. Parr and Eve A. Riskin, Signals, Systems, and Transforms, Third Edition, Prentice Hall, 2003
- Rodger E. Ziemer, William H. Tranter and D. Ronald Fannin, Signals and Systems: Continuous and Discrete, Fourth Edition, Prentice Hall, 1998