

Global Learning Semesters

Course Syllabus

Course: EENG-360 Random Processes

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-360	Random Processes	3
Semester Offered	Contact Hours	Prerequisites
Spring	42	EENG-270 Signals and Systems. Analysis of signals and systems with applications.
Department	Level of Course	Language of Instruction
Engineering	Upper Division	English

Course Description

An introduction to probability theory and random variables. Random variables are a powerful tool for solving practical probabilistic problems that are encountered in engineering. Topics include probability, random variables, operations on a random variable, multiple random variables, operations on random variables, and random processes.

Instructor

Dr. George Gregoriou

Course Aims and Objectives

To introduce the students to concepts on probability theory and random variables.

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: 20%
Mid-Term Exam: 30%
Final Exam: 50%

Readings and Resources

Required Textbook

P. Z. Peebles, Probability, Random Variables and Random Signal Principles, Fourth Edition, McGraw Hill, 2001

Recommended Reading

A. Papoulis, Probability, Random Variables and Stochastic Processes, Third Edition, McGraw Hill, 1991