

Global Learning Semesters

Course Syllabus

Course: EENG-295 Control Systems

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-295	Control Systems	3
Semester Offered	Contact Hours	Prerequisites
Fall	42	EENG-270 Signals and Systems. Analysis of signals and systems with applications.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

Course Description

Analysis and design of control systems using state space, frequency response and Laplace transform techniques. Topics covered include transfer functions, block diagrams, design criteria, system stability, frequency and time response of feedback systems, root locus and Nyquist diagrams, PID controllers.

Instructor

Ms. Maria Vraka

Course Aims and Objectives

To provide a working knowledge of the analysis and design of linear control systems using classical methods.

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

Richard C. Dorf and Robert H. Bishop, Modern Control Systems, Ninth Edition, Prentice Hall, 2001

Recommended Reading

Gene F. Franklin, J. David Powell and Abbas Enami-Naeini, Feedback Control of Dynamic Systems, Fourth Edition, Prentice Hall, 2002