UVa

Plan 251   Ing. en Electrónica

Asignatura 15107   CONTROL POR ORDENADOR

Grupo   1

Presentación

Computer Control

Atencion: A partir del curso 09/10 está asignatura se impartirá en Inglés

Programa Básico

- Sistemas Discretos: Control por Ordenador. Modelado de sistemas lineales discretos.

- Análisis y Diseño de Sistemas de Control: Análisis de Sistemas. Diseño de Controladores

- Sistemas Avanzados de Control

- Filtrado Digital de Señales

Objetivos

The students familiarize with modern analysis and design techniques for control systems using computers.

Programa de Teoría

1) Introduction: Feedback Controllers.

2) PID Controllers.

3) Pole Assigment controllers.

4) Modelling and Identification.

5) Feedforward and Cascade Compensators.

6) Predictive Control.

7) Industrial Applications.

Programa Práctico

Half of the time will be dedicated to practical work in a computer room. The objective is that the student familiarizes with the analysis and design of control systems using Matlab

Evaluación

The evaluation will be based on the active participation of the student in the practical course and the mark obtained in the final exam, that consists of short questions and a control design problem, to be solved using a computer.