

Liste d'éléments pédagogiques

Practical info

Location(s)





Process Control





Introducing

Practical info

Objectives

Objectives ¿ Learning outcomes :

At the end of this module, the student will have understood and be able to explain (main concepts): Dynamic (unsteady-state) modelling of processes and its approximation by simple transfer functions such as 1rst and 2nd order without or with time delay. Implementation of feedback control loop.

The student will be able to:

Establish unsteady state mass or energy balances, obtain transfer functions from linearization of these balances or from analysis of step of impulse responses, implement a feed-back control loop with PID type controllers and study the response of the whole closedloop system to changes (set-point variations or disturbances) as function of these controllers tuning parameters and analyse its stability.

Necessary prerequisites

Necessary knowledge :

Resolution of Ordinary Differential Equations, Laplace-transform.

Location(s)





Improving one's autonomy and building one's own professional project





Practical info

Location(s)

O Toulouse





Companies in their environments and languages

63h

Hourly volume

Introducing

ECTS 5 crédits

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

- An overall view of financial documents used by the company. Introduction to the calculation of costs in the industrial firm

- the interdependence of the functions of the company through decision making and results analysis

- Students will also be prepared for their careers by reviewing

and further developing both oral and written transversal communication skills.

The student will be able to:

- understand companies, their structure and their environment

- use newly-acquired Business English vocabulary

- develop financial statements used and calculate business costs for a company

- organise a group project : create their own company, hold meetings?

- give an oral presentation of a documentary synthesis and a business report (in English), using presentation skills

- create basic management tools

- optimise resources to make the company profitable

- take ethical concerns into account
- take into account cultural differences in business

- appreciate the impact of the major parameters of the socio-economic and financial environment on a

company

- write professional letters and emails

Second language course (optional ¿ commitment for years 3 and 4)

The objectives are defined according to European specifications for the five language skills and specific to the various languages proposed - German, Spanish, and Chinese, Italian or Sign language ¿ and to students' levels.

Whenever his/her level is sufficient, the student will be able to:

- ¿ synthesise and present professional documents
- ¿ give an oral presentation in front of a group

¿ take into account the various dimensions of interculturality

- ¿ analyse a job ad
- ¿ simulate a job interview
- $\dot{\boldsymbol{\epsilon}}$ write a CV and a cover letter

Remedial English (upon teachers¿ decision)

In some specific cases, a remedial English course is offered in replacement of the second language course with the objective of reinforcing the language skills useful for the TOEIC, i.e reading, listening, grammar and vocabulary

Necessary prerequisites

Management notions : non Level : B2 in English (intermediate)

LV2 : A2 min. in the studied language German,





Spanish, Italian. A1 in Chinese ans Sign language ¿ Course not open to exchange students

Practical info

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Engineering and ecological issues 2nd semester





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