

SEMESTER 5_3rd YEAR IMACS

Practical info

Location(s)

 Toulouse

C language, Numerical analysis and Computer networks

 ECTS
6 crédits

 Hourly volume
71h

Practical info

Location(s)

 Toulouse

Experimental physics and stochastic modelling

 **ECTS**
5 crédits

 **Hourly volume**
59h

 Toulouse

Introducing

Objectives

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

- Operation of the different sensors used during the lab sessions. They will know how to use them in order to solve a problem and view the results critically.
- Stochastic modelling of measurements, confidence intervals, statistical hypothesis tests, linear models.

The student will be able to build a data acquisition system starting from different sensors, to analyse the result and quantify the various components in measurement errors, to build a statistical model from observations in order to confirm or invalidate hypotheses concerning the problem at hand, and to plan experiments in simple cases.

Necessary prerequisites

I2AIMT21 Probability in IMACS

Practical info

Location(s)

Electronic and Control

 ECTS
5 crédits

 Hourly volume
72h

Practical info

Location(s)

 Toulouse

Electromagnetism in materials, wave guides – Classical mechanics



ECTS
4 crédits



Hourly volume
54h

Toulouse

Introducing

Objectives

Electromagnetisms in matter : use Maxwell's equations to determine the nature of the electromagnetic waves in a simple system (L.H.I. material, interface between two materials, confined space between two planes of conductive material). They will be able to determine the conditions and the characteristics of electromagnetic wave propagation in metallic and optical-fibre waveguides

Mechanics : solve a problem of planar mechanics. -The student should be able to handle the notions of force, power and energy.

Necessary prerequisites

Electromagnetism (I2MAPH21)

Practical info

Location(s)

Engineering and ecological issues

 ECTS
3 crédits

 Hourly volume
30h

Practical info

Location(s)

 Toulouse

Improving one's autonomy and building one's own professional project – level 3



ECTS
2 crédits



Hourly volume
44h

Practical info

Location(s)

 Toulouse

Job search and language



ECTS
5 crédits



Hourly volume
37h

Introducing

Objectives

Job search modules in French and in English

By the end of these modules, the student is expected to understand how to successfully obtain an internship or job and will grasp the differences in the job-search process between France and English-speaking countries.

The student will be able to:

- ∫ make a personal statement, and start developing a career plan
- ∫ use current research tools (web, online networks, company websites) to conduct a documentary survey on recruitment
- ∫ seek work placements matching his/her objectives and profile
- ∫ find and analyze an English advert in his/her future field
- ∫ adapt his/her CV and cover letter to a specific job application
- ∫ write a CV in English following various country-relevant templates
- ∫ ensure his/her job application meets the company's requirements
- ∫ prepare for an interview (self-knowledge, company awareness, preparation of adequate questions)
- ∫ show adequate degree of proficiency in job search related technical English to be able to take a professional job interview

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 ∫ and to students' levels.

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

- ∫ Synthesize and present professional documents
- ∫ give an oral presentation in front of a group
- ∫ take into account the various dimensions of interculturality
- ∫ Analyze a job ad
- ∫ simulate a job interview
- ∫ write a CV and a cover letter in the studies language

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 and listening, grammar and vocabulary.

Necessary prerequisites

- ∫ TRE (in French): min. C1 level in French ∫ Course not open to exchange students
- ∫ Job Search (in English): min. B1 level in English ∫ Course open to exchange students
- ∫ LV2: min. A2 in the language studied ∫ Course not open to exchange students

Practical info

Location(s)

 Toulouse

[FRANCAIS] Remise à niveau 3A IMACS

 ECTS
3 crédits

 Hourly volume
115h

Practical info

Location(s)

 Toulouse

Political sciences semester 1

 ECTS
3 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
1 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
2 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
3 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
4 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse

[FRANCAIS] Challenge – Formation ECIU

 ECTS
5 crédits

 Hourly volume

Practical info

Location(s)

 Toulouse