

SHAKE THE FUTURE.



ENGINEERING PROGRAMME

LANGUAGES, MANAGEMENT,
SOCIAL SCIENCES AND SPORT

YEAR 3
SPRING SEMESTER

MODERN LANGUAGES 1 - ENGLISH

LANGUAGES, MANAGEMENT, SOCIAL SCIENCES AND SPORT,
YEAR 3 - ENGINEERING PROGRAMME
SPRING SEMESTER

Professor: Christine Evain & Spencer Hawkrige

Objectives

Acquisition and reinforcement of basic vocabulary, syntax, and pronunciation by both traditional means multimedia resources. The teaching approach is communicative meaning that the language is not only the subject matter of the course, it is also a means of communication that the students should appropriate in an optimal manner.

Course contents

The course activities cover a whole range of practical language and communication exercises that span written and oral comprehension and expression.

Written: multiple choice, gap filling, rephrasing;

Oral: awareness of registers, intonation, syntax as it applies to different situations, debates, linguistic consequences of cultural differences, using media, telephoning.

Course material

Preparation manuals for the various foreign language certificates. Written and televised press, internet, general civilization documents, numerical tools.

Keywords

Managerial and cultural skills; communicative teaching approach; procedural methods; multimedia

Links with other programmes

Communication in French / Management / Corporate cultures

LANGUAGE	ECTS CREDITS	LECTURES	TUTORIALS	LABO	PROJECT
English	*	0 hrs	0 hrs	8 hrs	0 hrs

* 1 ECTS credit is awarded upon successful completion of Modern Languages 1 and 2 and Sport.

MODERN LANGUAGES 2

LANGUAGES, MANAGEMENT, SOCIAL SCIENCES AND SPORT,
YEAR 3 – ENGINEERING PROGRAMME
SPRING SEMESTER

Professor: Frédéric Dorel

Objectives

Students will study one of the following languages in addition to English:

- French (for international students) – see below
- German
- Spanish – see below
- Italian
- Japanese
- Chinese
- Russian
- Arabic
- Portuguese

As well as for preparing the certificates required in English/French, the students will learn basic communication skills (enough to communicate on a daily basis at a non-specialist level) including the comprehension of the particular country's social, political and cultural context through written and televised press in their choice of modern language. The acquisition and reinforcement of basic vocabulary, syntax, and pronunciation by both traditional means and using multimedia resources. The teaching approach is communicative meaning that the language is not only the subject matter of the course, it is also a means of communication.

NB: International students whose native language is not French (and do not speak French fluently) must take French as a foreign language course and pass the TFI *Diplôme de Langue Française*. If their native language is not English, these students must also take the English course, a compulsory language at ECN.

Course contents

The course activities cover a whole range of practical language and communication exercises that span written and oral comprehension and expression. Preparation for language competence certificates: B2 in German, DELE in Spanish, TFI in French as a foreign language. Certificates in Italian, Japanese, Portuguese and Chinese are also available.

Written: multiple choice, gap filling, rephrasing;

Oral: awareness of registers, intonation, syntax as it applies to different situations, debates, study of unique situations, linguistic consequences of cultural differences, using media, telephoning.

Course material

Preparation manuals for the various foreign language certificates. Written and televised press, internet, general civilization documents, Numerical tools.

Keywords

Managerial and cultural skills; communicative teaching approach; procedural methods; numerical.

Links with other programmes

Communication in French / Management / Corporate cultures

LANGUAGE	ECTS CREDITS	LECTURES	TUTORIALS	LABO	PROJECT
According to choice	*	0 hrs	0 hrs	8 hrs	0 hrs

* 1 ECTS credit is awarded upon successful completion of Modern Languages 1 and 2 and Sport.

French

The objective is to familiarize the learner with the French language and French culture through an entertaining task-based approach. The course activities cover a whole range of practical language and communication exercises that span written and oral comprehension and expression. The classes are organised into workshops to alternate work on the four language skills in level groups.

Workshops:

- CVs/ cover letters / job interviews / telephone skills

Write a CV and cover letter – work on specific vocabulary. Prepare a job interview. Production: Job offers / 'ready to go' applications

- TFI diploma:

Specific preparation for students without B2 certification.

Spanish

- Acquisition and reinforcement of the 4 competencies in written and oral expression & comprehension.
- Acquisition of vocabulary, syntax and pronunciation by both traditional means and through the use of digital resources.
- Discovery of the Spanish-speaking worlds.

Methods:

- Individual and group productions & presentations
- Written, digital and audiovisual tools
- 2 communicational approaches:

1) Monographical lectures on various engineering specialisations with active contributions from the students (debating, group and individual productions and presentations).

2) Multi-week projects on corporate cultures, engineering and techniques in Spanish-speaking cultures. Virtual - but realistic- projects producing the theoretical implementation of a professional activity.

Public presentations of the results.

SPORTS AND PHYSICAL EDUCATION

LANGUAGES, MANAGEMENT, SOCIAL SCIENCES AND SPORT,

YEAR 3 - ENGINEERING PROGRAMME

SPRING SEMESTER

Professor: Hervé Guillo

Objectives

Sports and physical education contribute significantly to an engineer's physical, psychological, social and intellectual development, as well as to his/her general well-being. These activities:

- strengthen self-esteem,
- trigger a sense of competition and solidarity, team spirit and the desire to succeed,
- prepare for the demands of a career by fostering team and individual initiative,
- encourage a sense of responsibility related to positive characterisation and identity.

Course contents

Sports and physical education develop social communication through:

- various team activities (on small and large fields),
- autonomy projects (TA),
- physiological-directed activities (development of cardiopulmonary and muscular functions),
- organisation of sports events

Course material

Keywords

Links with other programmes

LANGUAGE	ECTS CREDITS	LECTURES	TUTORIALS	LABO	PROJECT
French/English	*	0 hrs	0 hrs	16 hrs	0 hrs

* 1 ECTS credit is awarded upon successful completion of Modern Languages 1 and 2 and Sport.

FINAL YEAR INTERNSHIP

LANGUAGES, MANAGEMENT, SOCIAL SCIENCES AND SPORT,
YEAR 3 - ENGINEERING PROGRAMME
SPRING SEMESTER

Professor: Head of specialization or professional option

Objectives

This internship, which is carried out at the end of the final year, is linked to the specialisation or to the professional option, which means that the subject has to be in line with its curriculum.

The objective of the final year internship is to put the training acquired at Centrale Nantes into practical application with an R&D focus. There are three types of final year internship: 'industrial', 'research' or 'international' (with possible overlaps between each type). It should be noted that the 'industrial' internship should comprise a high-level scientific and technical study. It should not be confused with the second year engineering internship, the goal of which is to discover the engineering profession.

Course contents

The internship should last at least 25 weeks and must meet the following criteria:

- An 'international' internship is undertaken abroad in a university laboratory or within a company.
- A 'research' internship applies to students pursuing a Master's Degree (less than 20% of the students enrolled in each specialisation). It is completed in one of the school's laboratories or within a research or industrial body (an internship agreement is required for the latter two).
- An 'industrial' internship comprises work with an R&D focus, linked more or less directly to a company. It comes under the direct responsibility of the head (tutor) of the specialisation or professional option in question. The tutor defines the internship subject in conjunction with the company, provides technical and scientific supervision and organises the end-of-internship presentation. For internships undertaken on the company premises, at least 20% of the internship should be completed in conjunction with the school tutor, either on the school's premises or at the company if the tutor can travel there. An internship agreement is required for industrial internships undertaken, wholly or in part, on company premises.

Course material

Keywords

Links with other programmes

2nd year specialisation/professional option

LANGUAGE	ECTS CREDITS	LECTURES	TUTORIALS	LABO	PROJECT
French	14	0 hrs	0 hrs	0 hrs	0 hrs