

**SHAKE** THE FUTURE.



# ENGINEERING PROGRAMME

**PROFESSIONAL OPTION**

**MANAGER, LEADER,  
COMMUNICATOR**  
AUTUMN SEMESTER

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ENGINEERING PROGRAMME PROFESSIONAL OPTION  
AUTUMN SEMESTER

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*Professor: Florent Laroche*

## Objectives

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The overall objective of this option is for students to acquire a solid grasp of project management processes as well as excellent knowledge of the socio-economic environment in which they are likely to evolve as engineers: the social and macro-economic aspects of companies (internal organization and external partners, the legal department, the context of globalization etc). This option aims to prepare future engineers to hold management, leadership or trainer positions.

The students will work on a project during the course. The objective is for them to apply their theoretical knowledge and good project management practices to a real situation.

## Course contents

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The content below extends into the spring semester.

Management:

- knowledge of project management tools
- accounts of major projects
- insight into the contractual arrangements (procurement) inherent in project management activity and related legal aspects
- capacity to exchange views with future colleagues on accounting and accounting management
- awareness of human factors: ability to define the Human Resources function and to identify key interlocutors such as unions representatives, industrial tribunals, labor inspectorate etc.

Leadership and Communication:

- ability to support and understand co-workers
- taking on the social responsibility of an engineer
- ability to take account of intercultural issues in the context of globalisation
- capacity to analyse the management of a crisis situation and manage internal and external communication (media liaison)
- development of knowledge necessary to assess risk exposure and to draw up and implement a crisis action plan
- basic training skills

The projects undertaken as part of the course directly involve and support Centrale Nantes associations and their activities. Students work in groups of six. Progress is reviewed during the project via an oral presentation. A final presentation is given at the end of the project alongside a written report highlighting best practices which is forwarded to the association.

## Course material

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## Keywords

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## Links with other programmes

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LANGUAGE	ECTS CREDITS	LECTURES	TUTORIALS	LABO	PROJECT
French	4	82 hrs	0 hrs	0 hrs	8 hrs