
ENGINEERING PROGRAMME

2023-2024

Year 3

Professional Option
Proficiency in project
managament

OP PERFPROJ

PROGRAMME SUPERVISOR

Thomas LECHEVALLIER



ENGINEERING - OP PERFPROJ

Autumn Semester

Course unit	ECTS Credits	Track	Course code	Title
UE 92	4	Core course	CFOND PROJAV	Core skills consolidation Advanced project management

Spring Semester

Course unit	ECTS Credits	Track	Course code	Title
UE 102	1	Core course	PRODIR PROJPERF	Programme and project management (PMO) Leading a project

ENGINEERING - OP PERFPROJ

Year 3 - Autumn Semester - Course Unit 92

Core skills consolidation [CFOND]

LEAD PROFESSOR(S): Thomas LECHEVALLIER

Objectives

At the end of the course, participants will be able to :

- Understand project governance and roles,
- Plan a project, assess and allocate workloads, and monitor progress,
- Manage risks,
- Analyze the existing situation, express a need, define a target and share a trajectory,

Course contents

- Project definition and project management,
- Methodology for moving from idea to project,
- Reminder of typical project phases and associated deliverables,
- Understanding project governance, scope, schedule and risks,
- Estimating costs and drawing up a budget,
- Project management methods (estimating durations, deadlines, workloads, progress monitoring, work assignment, risk monitoring, expenditure and return on investment monitoring, etc.),
- Reminder of Quality in projects

Course material

Assessment

Individual assessment: EVI 1 (coefficient 1)

LANGUAGE OF INSTRUCTION	ECTS CREDITS	LECTURES	TUTORIALS	LAB	PROJECT	EXAM
French	2	22 hrs	8 hrs	0 hrs	2 hrs	0 hrs

ENGINEERING - OP PERFPROJ

Year 3 - Autumn Semester - Course Unit 92

Advanced project management [PROJAV]

LEAD PROFESSOR(S): Thomas LECHEVALLIER

Objectives

- Sharing a vision,
- Driving change,
- Building a master plan,

Course contents

- Understand and define corporate strategy,
- Distinguish between projects, programs and portfolios,
- Build a Master Plan:
 - o map and schedule the projects to be managed,
 - o identify project players: contributions, roles and missions, and multi-project assignments,
 - o understand the company's culture,
 - o share vision and work methods,
- Managing a project or program (vision, embodiment, styles and representation),
- Distinguish between and combine organizational and project management,
- Reconciling operational maintenance and project activities,
- Mastering the power of doing, increasing influence and impact,
- Corporate communication,
- Risk management,
- Understand current program management standards: MSP, PMI, P2M, ICB3, ISO standards...

Course material

Assessment

Collective assessment: EVC 1 (coefficient 1)

LANGUAGE OF INSTRUCTION	ECTS CREDITS	LECTURES	TUTORIALS	LAB	PROJECT	EXAM
French	2	22 hrs	8 hrs	0 hrs	2 hrs	0 hrs

ENGINEERING - OP PERFPROJ

Year 3 - Spring Semester - Course Unit 102

Programme and project management (PMO) [PRODIR]

LEAD PROFESSOR(S): Thomas LECHEVALLIER

Objectives

- Finance a project or program and monitor the budget,
- Manage people and communicate throughout the company,
- Leading and motivating project teams,
- Correct unprofessional behavior, manage conflicts,

Course contents

- Management (from self to others)
 - o Organizing (recruiting, organizing and managing a project team),
 - o Deciding (gathering information, hypotheses, cognitive biases, sharing and carrying the decision)
 - o Leading and communicating (leading a team, hierarchy and project management, convincing, presenting, managing conflicts and unprofessional behavior),
 - o Control (setting up indicators, measuring performance, individual follow-up),
 - o Anticipate (vision, training and change management),
- Customer relations (analysis of existing situation, expression of needs, definition of target and sharing of trajectory),
- Contractualization (purchasing, contractual procedures, selection of partners, service providers and subcontractors, contract negotiation),
- Budgeting (financial surveys, justification of expenditure, arbitration, budget safeguards).
- Enhancing the value of a project, passing on to operating teams, and closing a project

Course material

Assessment

Individual assessment: EVI 1 (coefficient 1)

LANGUAGE OF INSTRUCTION	ECTS CREDITS	LECTURES	TUTORIALS	LAB	PROJECT	EXAM
French	0.5	22 hrs	8 hrs	0 hrs	2 hrs	0 hrs

ENGINEERING - OP PERFPROJ

Year 3 - Spring Semester - Course Unit 102

Leading a project [PROJPERF]

LEAD PROFESSOR(S): Thomas LECHEVALLIER

Objectives

Carry out a project in a real-life situation with an identified professional customer

Course contents

Carry out the project throughout the year and apply each notion worked on to the current project.

Course material

Assessment

Collective assessment: EVC 1 (coefficient 1)

LANGUAGE OF INSTRUCTION	ECTS CREDITS	LECTURES	TUTORIALS	LAB	PROJECT	EXAM
French	0.5	0 hrs	0 hrs	0 hrs	34 hrs	0 hrs