Specific Profession courses

Eco-Design and Innovation



INGÉNIEUR CONCEPTION

DESIGN ENGINEER

 Lecturers:
 Olivier DESSOMBZ

 | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



PROCÉDÉS DE CONCEPTION AVANCÉE

ADVANCED DESIGN PROCESSES

Lecturers: Olivier DESSOMBZ

| Lecturers : 18 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Awareness of sustainable development issues and the ecodesign approach. The purpose of setting the context is to re-anchor the engineering student in a societal reality. Use examples to integrate the concepts and put them into practice. Through creativity exercises, learn to develop the ability to project towards future scenarios.

Keywords : Eco-design, circular economy, environmental and social impacts, sustainable development

Programme	 From the planet to the products: Approach to sustainable development, social responsibility of organizations. Limits of resources. Ecosystem services, biomimicry. Issue of sustainable development, social responsibility of organizations, dimension environmental, social, societal. The challenges of eco-design in your design strategy. Sustainable development, environmental impacts, eco-design, life cycle Define the basic functional unit of any Life Cycle Analysis (LCA).
Learning outcomes	 To be able to integrate environmental and social criteria into the design process. Understanding of social, environmental, planetary and local issues. Create new paradigms, innovate, question what already exists.
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	

Assessment

mini-project



Lecturers:

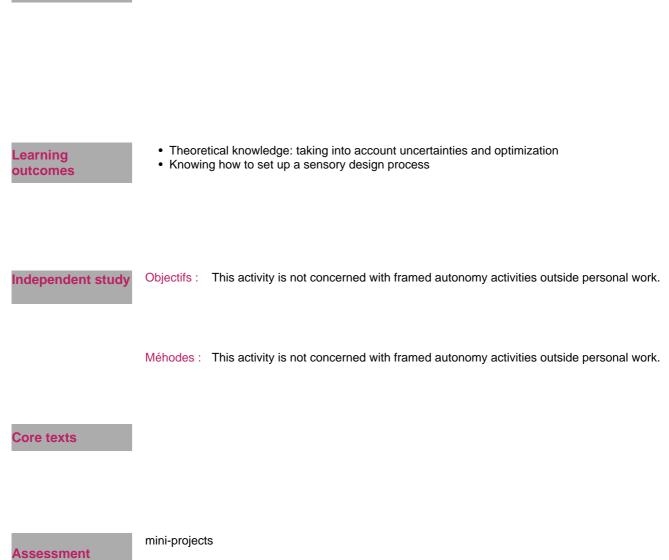
Objectives

OUTILS MODERNES DE CONCEPTION

Know the sensory design processes in innovation

Olivier DESSOMBZ

MODERN DESIGN TOOLS



| Lecturers : 16 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 4.0 | Project : 0.0 | Language : FR

Provide an overview of the optimization methods and the taking into account of uncertainties.

Keywords : Optimization, Meta-Heuristics, Meta-models, Uncertainties, Iso-geometry, Sensory Design, Innovation

Programme



CONCEPTION ET CHOIX TECHNOLOGIQUES

DESIGN AND TECHNOLOGICAL CHOICES

Lecturers: Olivier DESSOMBZ

| Lecturers : 48 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Provide knowledge in multiphysics design, manufacturing methods and eco-design in Civil Engineering The branch courses (Civil Engineering or Electro-mechanical) given by specialists in the field allow to deepen knowledge in these fields.

Keywords : Multiphysics, manufacturing processes, eco-design

Programme	to the imp dynamic sy A second c	eals with the implementation and expertise of numerical and experimental methods applied lementation and optimization of control strategies for the stabilization and isolation of /stems. ourse deals with manufacturing methods for mechanical parts. rse deals with eco-design in Civil Engineering and recycling
		courses (Civil Engineering or Electro-mechanical) given by specialists in the field allow to owledge in these fields.
Learning outcomes		
Independent study	Objectifs :	This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes :	This activity is not concerned with framed autonomy activities outside personal work.
Core texts		

Mini-projects



PROJET ICO

FIRST DESIGN OF INNOVATIVE PRODUCTS

Lecturers: Olivier DESSOMBZ

| Lecturers : 12 | TC : 0.0 | PW : 0.0 | Autonomy : 10 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Imagine innovative products using a "Design thinking" process and check their feasibility in a pre-conception phase . To lay the foundations of a "business model" with an entrepreneurial vision.

Keywords : Innovation, design, entrepreneurship

Programme

- Creativity session for the definition of innovative products
- Competition analysis
- Functional analysis
- Pre-design
- Construction of a business model

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Assessment

Report + Defense



CONFÉRENCES

CONFERENCES

 Lecturers:
 Olivier DESSOMBZ

 | Lecturers : 10 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Openness to industrial subjects

Keywords :

Programme

According to the availability of industrial stakeholders

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts

Assessment

Attendance

Consulting



INGÉNIEUR CONSULTANT

CONSULTANT ENGINEER

 Lecturers:
 Philippe THIMONIER

 | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



LES FONDAMENTAUX

THE FUNDAMENTALS

 Lecturers:
 Philippe THIMONIER

 | Lecturers : 4.0 | TC : 19.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts



GESTION DE PROJET, TECHNIQUES FINANCIÈRES ET TECHNIQUES DE COMMUNICATION CONSULTING PROJECT MANAGEMENT

 Lecturers:
 Philippe THIMONIER

 | Lecturers : 6.0 | TC : 27.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts



DEVENIR CONSULTANT

BECOME A CONSULTANT

 Lecturers:
 Philippe THIMONIER

 | Lecturers : 22.0 | TC : 12.0 | PW : 0.0 | Autonomy : 0.0 | Study : 8.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts



PROJET ICS

ICS PROJECT

 Lecturers:
 Philippe THIMONIER

 | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Startup and Business Developer



INGÉNIEUR INTRAPRENEUR ET ENTREPRENEUR

INGÉNIEUR STARTUP ET BUSINESS DEVELOPPER

Lecturers: Marie GOYON

| Lecturers : 12 | TC : 6 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

The program concern all students willing to create value by designing a new business, either as an entrepreneur developing her/his own startup, or as a business developer enlarging an existing company's activities portfolio.

The program relies on two main methodologies: design thinking, project management .

The course is organized with 2 tracks: startup creation and business development, each track with specific courses.

The two tracks aim to enable a project to be developed and piloted, from the idea to its technical, social and

Keywords : creativity, analysis, fieldwork, value creation, social innovation, entrepreneurship, intrapreneurship

Programme	Introduction to design thinking, theory and methods Creativity, ideation trainings : developing new ideas How to analyse innovation in a global context within economical, sociological, technological frameworks Initiation to ethnographic fieldwork and empathy methods Social entrepreneurship and social innovation Transform new ideas into business : introduction to value creation and marketing Communication Project
Learning outcomes	
Independent study	Objectifs : Teamworking : ideation, debate, structure, test, fieldworking. Negociation, management and communication
	Méhodes : Project based learning : Teamworking, workshops, coaching and pitchs
Core texts	YUNUS Muhammad, BUILDING SOCIAL BUSINESS: THE NEW KIND OF CAPITALISM THAT SERVES HUMANITY'S MOST PRESSING NEEDS, Public Affairs, 2010 ROGER Martin DESIGN OF BUSINESS: WHY DESIGN THINKING IS THE NEXT COMPETITIVE ADVANTAGE, Harvard Business School Press, 2009 BARTHELEMY A. et SLITINE R.ENTREPRENEURIAT SOCIAL INNOVER AU SERVICE DE L'INTÉRÊT GÉNÉRAL, Vuibert, 2014
Assessment	Project based evaluation : oral presentations and report



DESIGN THINKING ET CRÉATIVITÉ

DESIGN THINKING

Lecturers: Marie GOYON

| Lecturers : 26 | TC : 4 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

The program understands innovation and its management by a global, multidisciplinary approach linking the analytical thought and the intuitive thought. Design thinking methodology implements a process of creativity involving user's feedbacks and usages, iteration in conception and prototyping.

Students will learn how to place a problem in a global perspective (economic, technical, sociological ...) and how to transform an idea into a business. The students will use the three pillars of design thinking approach : desirability, viability and feasibility.

Keywords : creativity, ideation, design thinking, user empathy



Introduction to design thinking theory and methods Creativity and ideation workshops Research and analysis Ethnography fieldwork Uses

Learning	 Be able to get an overview on a specific problem : desirability, viability,
outcomes	 Work creatively and transversaly
outcomes	 Adopt an iterative and user centered point of view

· be able to work in an interdisciplinary context, manage an innovative project

feasibility

Independent study Objectifs :

Group work Creativity and ideation workshops fieldwork

Méhodes : Learning by doing on the project, coaching

Core texts BROWN Tim, L'ESPRIT DESIGN: COMMENT LE DESIGN THINKING CHANGE L'ENTREPRISE ET LA STRATÉGIE, Pearson, 2014 ROGER Martin DESIGN OF BUSINESS: WHY DESIGN THINKING IS THE NEXT COMPETITIVE ADVANTAGE, Harvard Business School Press, 2009 FOREST JoelleCREATIVE RATIONALITY AND INNOVATION, Wiley Blackwell, 2017

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Assessment
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Project evaluation : oral presentations and report



RÉSEAUX D'ACTEURS ET ÉCOSYSTÈMES

MARKETS AND STAKEHOLDERS

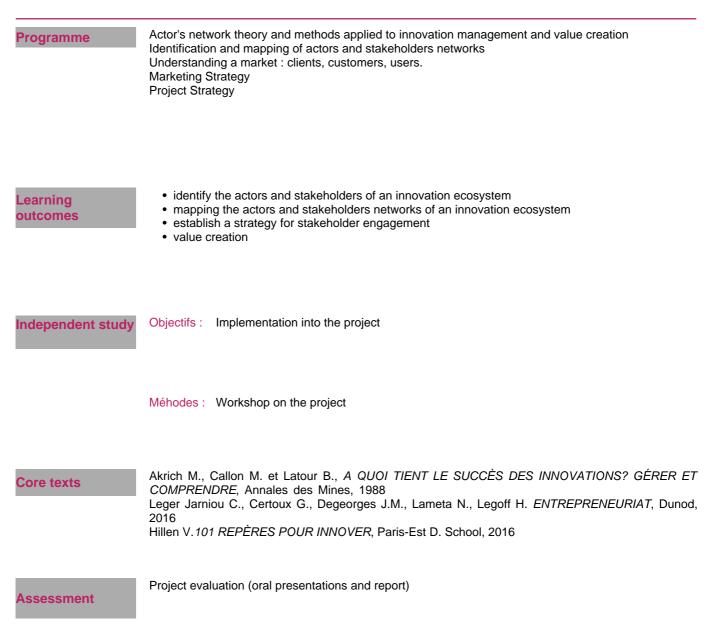
Lecturers: Marie GOYON

Lecturers : 12 | TC : 8 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Identify the actors of an ecosystem and their interactions Understand the dynamics and the structure of relevant markets Understand which are the levers Understand and build stakeholders' strategies Identify relevant support for the project's success

Keywords : ecosystems, actors networks, stakeholders, marketing, strategy





MODÈLES ÉCONOMIQUES

NEGOCIATION AND COMMUNICATION

Lecturers: Marie GOYON

| Lecturers : 16 | TC : 6 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Define how to transform an idea into value creation.

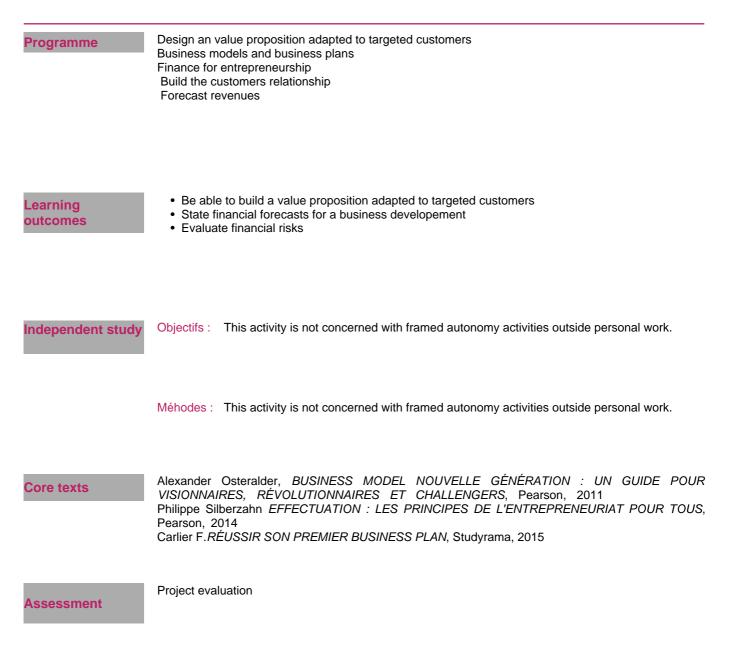
Identify which offer is going to bring to customers a value for which they will be ready to pay.

Think how to organize the processes and the partners allowing to produce the offer

Analyse how income can balance costs.

Build a viable consistency among the social, economical, financial and technical dimensions of a business.

Keywords : Buisness models canevas, value proposition, profit and loss statement, cashflow statement, financial forecasts





PROJET DE CRÉATION D'ACTIVITÉ

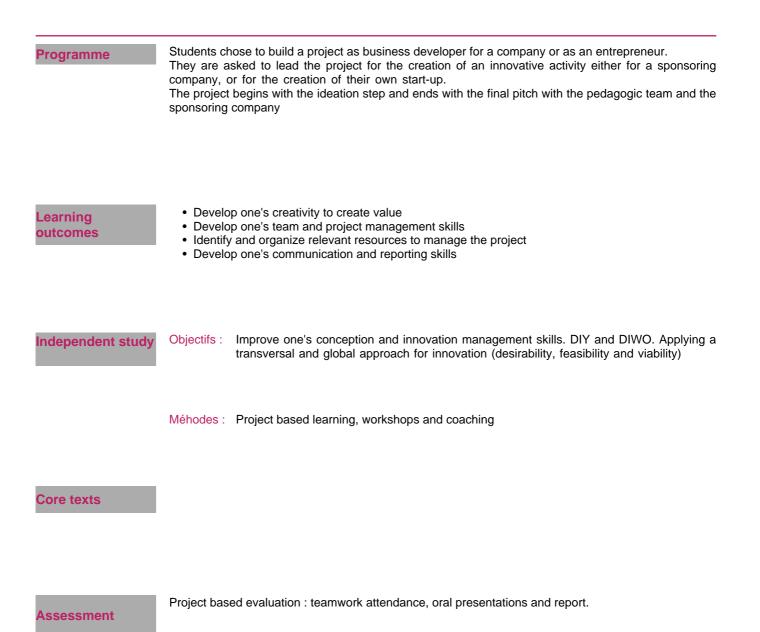
BUSINESS CREATION PROJECT

Lecturers: Marie GOYON, Sylvie MIRA | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 30.0 | Language : FR

Objectives

Develop one's creativity and use it to create a new business or a startup Develop capacities to manage a business development project Learn how to collect data relevant to manage the project Identify and organize relevant resources to manage the project Learn how to communicate with partners, customers or VCs

Keywords : Project management, innovative project conception, teamworking, communication, analysis



Technological and environmental risks management



INGÉNIEUR MANAGEMENT DES RISQUES INDUSTRIELS ET ENVIRONNEMENTAUX ENGINEER INDUSTRIAL RISK AND ENVIRONMENT MANAGEMENT

Lecturers: Pietro SALIZZONI, Richard PERKINS | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : MI

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Assessment IMR 3.1 :25% IMR 3.2 : 20% IMR 3.3 : 25%



LES IMPACTS SUR L'HOMME, L'ENVIRONNEMENT ET LA SANTÉ

IMPACTS ENVIRONMENT AND HUMAN HEALTH

Lecturers:Pietro SALIZZONI, Richard PERKINS| Lecturers : 18 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 14 | Project : 0.0 | Language : FR

Objectives

Present the phenomena that are responsible for the major natural and technological hazards. Provide an introduction to the different modelling approaches that are used to assess and quantify environmental impact.

Keywords :

Programme	Pollution: types and impacts (CM 6h) 1. Air pollution 2. Soil and water pollution 3. Acoustic waves and radiation
	Human health and environmental risk assessment: epidemiology (CM 8h) 1. Environmental exposures and the risk of cancer 2. Known risks and perceived risks 3. Risk factors for cancer
Learning outcomes	 Identify the risk exposure of a population or an industrial process. Master the modelling tools that are used to assess the environmental or human impact of different types of risk
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	

Assessment

Savoir faire : 50% Méthodologie : 50%



EVALUATION ET QUANTIFICATION DES RISQUES

EVALUATION AND QUANTIFICATION OF RISKS

Lecturers:Pietro SALIZZONI, Richard PERKINS| Lecturers : 22 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 8 | Project : 0.0 | Language : MI

Objectives

Construct models to quantify the risks and uncertainties related to different hazards. Develop tools to quantify the economic consequences of events arising from human actions or natural processes.

Keywords :

Programme	Technological risks (8h CM + 8h BE) F. Rosset ODZ Consultants The objective of this course will be to provide a historical overview of various industrial accidents and the impact they have had on the development of industrial safety regulations and legislation. Different hazardous phenomena will be presented, together with the ways in which they are modelled.
	Risk Economics (14h CM) L. Abdelmalki Lyon 2 1. Well-being & Efficiency • Economic & market efficiency
Learning outcomes	 Be able to identify the main types of industrial hazard Master different modelling techniques Understand how to formulate a problem in economic terms, and be able to express it using the appropriate terms and vocabulary. Know how to integrate the non-market values of the environment into a cost-benefit analysis
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	

Assessment

Savoir: 50% Savoir-faire: 25% Méthodologie: 25%



GESTION, PRÉVENTION ET MITIGATION DES RISQUES

MANAGEMENT, PREVENTION AND MITIGATION OF RISKS

Lecturers:Pietro SALIZZONI, Richard PERKINS| Lecturers : 27 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 3 | Project : 0.0 | Language : FR

Objectives

Define the legislative framework for the prevention and management of environmental risk Analyse the psychological processes that underlie decision making.

Keywords :

Programme	Law and standards (15h CM) I. Michallet Lyon 3 1. Sources of environmental legislation (in France) 2. The sources of environmental legislation (outside France) 3. The principles of environmental legislation and the different actors 4. Classified Installations for the protection of the environment (ICPE) 5. Water rights 6. Air quality legislation 7. Waste-disposal legislation 8. Environmental assessment
Learning outcomes	 Understand the hierarchy of standards and their interaction Be familiar with the general prinicpies of environmental law, and their implementation in specific legislation Relate environmental legislation to its implementation in specific industrial examples
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	



Savoir: 50% Savoir-faire: 25% Méthodologie: 25%



PROJET IMR

IMR PROJECT

Lecturers:Pietro SALIZZONI, Richard PERKINS| Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 30 | Language : FR

Objectives

Address the management of a research project aimed at determining the impacts of environmental pollution on human health. Understand the techniques of communication and public communication concerning the results of epidemiological studies.

Keywords :

Programme	This independent work will concern problems related to technological risks, and will be supervised F. Rosset (ODZ Consultants), an engineer working in the field of industrial risk management. It will require a multidisciplinary approach, and should include legal, economic and technical aspects of the problem.
	 Examples of subjects proposed in previous years: 1. Analysis of an accident and its impact on regulatory and industrial practices: the Buncefield accident 2. Risk associated with ammonium nitrate
Learning outcomes	
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	
Assessment	Savoir-faire : 50% Méthodologie : 50%

Research & development



INGÉNIEUR RECHERCHE INNOVATION ET DÉVELOPPEMENT ENGINEER RESEARCH AND DEVELOPMENT INNOVATION

Lecturers:José PENUELAS, Michel ROGER| Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



GESTION DU PROJET DE RECHERCHE ET INTERDISCIPLINARITÉ

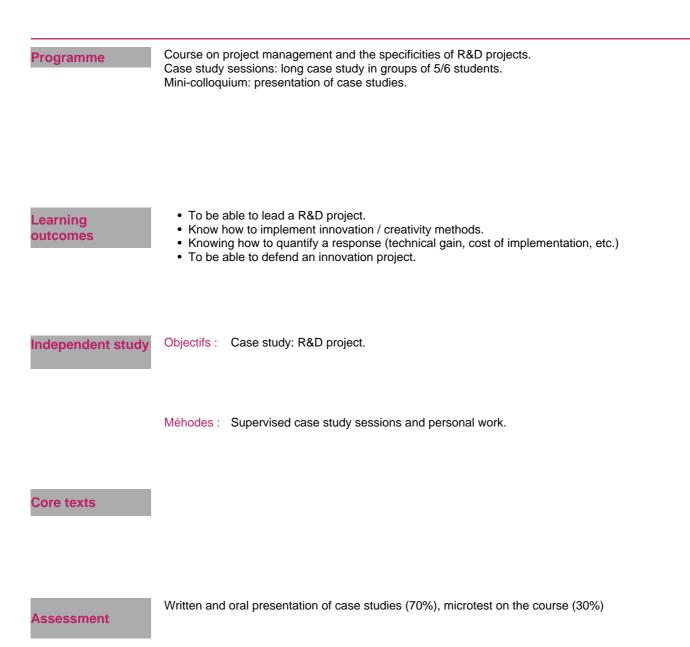
RESEARCH-PROJECT MANAGEMENT

Lecturers:José PENUELAS, Mathieu CREYSSELS| Lecturers : 10.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 21.0 | Project : 0.0 | Language : FR

Objectives

The objective of this course is to train students in the management of the research project and its specificities (Go / No Go). This is done by a real situation on a case study which justifies a need for innovation (evaluation of a technological modification / breakthrough, ...), in an often multidisciplinary context, both at the level of the subject but also methods. Students must provide quantified answers to the problem posed.

Keywords : Innovation, transversality.





CRÉATIVITÉ, ERGONOMIE, DESIGN, INNOVATION, COMPÉTITIVITÉ **INNOVATIVE DESIGN AND CREATIVITY**

José PENUELAS, Damien CONSTANT Lecturers: | Lecturers : 14.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 11.0 | Project : 0.0 | Language : FR

Objectives

Starting from the concept of values in the company, and the positioning of the company in the socio-economic context, the need for innovation in the company is explained; the positioning of Research and Development within the framework of an innovation strategy is underlined. The emphasis is on financing innovation. Innovation monetization and market approach strategies are built using marketing techniques, product positioning, pricing and value proposition development.

Students will be made aware of the process of creativity and put in a situation to become aware of the

Keywords : TRIZ, Design Thinking, C&K, innovation, marketing, strategy

Programme	Part 1 : 1. Strategic marketing 2. The need to innovate 3. Quantitative and financial analysis 4. R&D and innovation management 5. Build a business plan Part 2 :
	1. Different approaches to creativity. Problem solving method (TRIZ method):
Learning outcomes	 Modeling a problem within a technical system: Idealities, technical contradictions. Offer innovative solutions based on TRIZ principles. Analyze a design proposal. Establish a business plan based on a case study.
Independent study	Objectifs : Case study in innovation.
	Méhodes : Work in groups of 3 students, oral restitution.
Core texts	Altshuller G., , <i>ET SOUDAIN APPARUT L'INVENTEUR : LES IDÉES DE TRIZ.</i> , Seredinski (Avraam), 2016
Assessment	Part 1: Restitution of the case study.



STRUCTURES DE RECHERCHE NATIONALES ET INTERNATIONALES - PHILOSOPHIE,

PHILOSOPHY, SCIENCES AND SOCIETY

Lecturers: José PENUELAS, Romain SAUZET | Lecturers : 6.0 | TC : 6.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Research consists of confronting what is not known or what does not yet exist. We are not starting from scratch, since we already have many individual resources (pre-existing knowledge; skills; models, etc.) but also collectives (e.g. expertise, external skills).

These resources will constitute some steps of the research process, but they will not answer all the problems, especially the general problems: why do we do research? What are we trying to promote? How should we do it? On what subjects? For what objectives?

Keywords : Expertise, Interdisciplinarityy, Innovation, Values, Progress, Big Science, Sustainable Development, Environment.

Programme	 4 lectures on two main themes: Interdisciplinarity & The place and role of values in science. 2 tutorials on case studies illustrating the two main themes: Big Science projects (Manhattan Project) and what value do we want to promote through research (transhumanism). A series of conferences on the means of financing research and the major challenges in terms of energy resources.
Learning outcomes	 Develop a critic on the resources and values carried by R&D. Understand the characteristics of contemporary research beyond immediate projects. To be able to debate socio-technical controversies. To be able to identify the major national and European research structures.
Independent study	Objectifs : This activity is not concerned with framed autonomy activities outside personal work.
	Méhodes : This activity is not concerned with framed autonomy activities outside personal work.
Core texts	Douglas, Heather., SCIENCE, POLICY AND THE VALUE-FREE IDEAL, Pittsburgh: University of Pittsburgh Press, 2009 Bedessem, Baptiste LA LIBERTÉ DE CHERCHER. PERSPECTIVES ÉPISTÉMOLOGIQUES SUR LA GOUVERNANCE DES SCIENCES., Paris: Herman, 2020 Galison, PeterMEANINGS OF SCIENTIFIC UNITY: THE LAW, THE ORCHESTRA, THE PYRAMID, QUILT, AND RING.", PURSUING THE UNITY OF SCIENCE: IDEOLOGY AND SCIENTIFIC
Assessment	 A two-hour table assignment combining a text study and a general question about the course. Report on the conference cycle.



FORMATION MASTER MASTER'S COURSE

Lecturers: | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts

Supply Chain and Firm Performance



INGÉNIEUR EN SUPPLY CHAIN ET PERFORMANCES DE L'ENTREPRISE SUPPLY CHAIN AND FIRM PERFORMANCE ENGINEER

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



FRESH CONNECTION

FRESH CONNECTION

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 15 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'ENTREPRISE ÉTENDUE

THE EXTENDED ENTERPRISE

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 6 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'ENTREPRISE AGILE

THE AGILE ENTERPRISE

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 6 | TC : 0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'ENTREPRISE ET LA PERFORMANCE

THE COMPANY AND PERFORMANCE

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 15 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'ENTREPRISE CIRCULAIRE

THE CIRCULAR COMPANY

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 6 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



PROJET INTÉGRATIF ISP

ISP PROJECT

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 30 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts

Assessment

Rapport d'étude



ENJEUX ET FONCTIONS DU SCM

SCM STAKES AND FUNCTIONS

Lecturers:ELISABETH COUZINEAU-ZEGWAARD| Lecturers : 6 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



LES FONDAMENTAUX DE LA SUPPLY CHAIN

SUPPLY CHAIN BASICS

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 36 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



LES ORGANISATIONS

THE ORGANIZATIONS

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 6 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'ORGANISATION INDUSTRIELLE

INDUSTRIAL ORGANIZATION

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 18 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts



L'EXCELLENCE OPÉRATIONNELLE

OPERATIONAL EXCELLENCE

 Lecturers:
 ELISABETH COUZINEAU-ZEGWAARD

 | Lecturers : 18 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Keywords :

Programme

Learning outcomes

Independent study

Objectifs :

Méhodes :

Core texts