LLSMF2018

2012-2013

Technological project (in French)

10.0 credits	60.0 h	1q

Teacher(s) :	Fisette Paul ; Devaux Jacques ; Nysten Bernard (coordinator) ; Macq Benoît ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	The objective of this course is to integrate the knowledge resulting from - technological courses of the bachelor's degree - courses related to law - function courses (marketing, finance) of the bachelor's degree - the course of "gestion de projet" of the 1rst year of the master's degree by means of a team project realisation based on technology.
Aims :	At the end of the class, students should be able to - understand the technological environments related to a project in one of the following domains: electronic and telecommunications; energy and environment; materials and process; mechanics and electro-mechanics - analyse a technological problem and the state-of-the-art (the possible usual solutions) - design original solutions to the given problem - compare the technological results to the economical, social and environment constraints. *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content :	Chaque année un thème fédérateur spécifique est proposé, dans le cadre duquel quatre orientations technologiques sont sélectionnées (électronique et télécommunication ; énergétique et environnement ; matériaux et procédés ; mécanique et électromécanique). Parmi les thèmes choisis, on peut citer : la technologie automobile, l'aviation civile Les étudiants travaillent par groupes de 5 sur un sujet relevant d'une des disciplines précitées. Les étudiants seront répartis équitablement entre les projets. Certains groupes qui auraient choisi des disciplines différentes pourraient s'ils le souhaitent travailler de manière interactive ; les enseignants encourageront de telles interactions interdisciplinaires. Contenu Méthodes Activités en présentiel 1 Séminaire interactif 1 Apprentissage par problème 1 Apprentissage par projet Activités hors présentiel 1 Lectures préparatoires 1 Rédaction de travaux 1 Préparation de présentations

Other infos :	Each year a global specific application field is proposed, in which four technological aspects are selected (electronics and telecommunications; energy and environment; materials and processes; mechanics and electro-mechanics). Among the chosen fields are: automotive technology, civil aviation
	Students works in teams of 5, on a subject related to the cited disciplines. Students are distributed equally between all the proposed projects. Some teams which have chosen different disciplines may work in cooperation if they want; the professors will encourage this interactive attitude.
	Content Prerequisites (ideally in terms of competiencies) Significant scientific knowledges in the concerned technological domain
	Evaluation : The evaluation process is done in two parts: a global evaluation at the team level, based on a project report and an oral presentation, and an individual evaluation, based on a written examination, specific to the domain covered by the project. The global satisfaction implies the satisfaction of the individual part.
	Support : The various teams will be regularly followed and coached by professors and assistant professors of the faculty of engineers.
	References : Provided during the class WEB sites - books from the sciences library and from the laboratories
	Internationalisation 1 international content (does the course tackle international issues related to the course content ?) 1 international case study
	Skills 1 presentation skills 1 writing skills 1 team work 1 individual autonomy 1 problem solving 1 decision making 1 time management 1 project management 1 critical thinking 1 assertiveness
	Techniques and tools for teaching and learning 1 IT tools 1 Internet work 1 modelling 1 simulation 1 quantitative methods 1 technology and science
Cycle and year of study :	> Master 120 of arts in Business engineering
Faculty or entity in charge:	CLSM