Université catholique de Louvain

Project in mathematical engineering

5.0 credits

LINMA2360

2016-2017

30.0 h + 22.5 h

1 + 2q

Teacher(s) :	Nesterov Yurii ; Papavasiliou Anthony (coordinator) ; Absil Pierre-Antoine ;					
Language :	Français					
Place of the course	Louvain-la-Neuve					
Inline resources:	> http://moodleucl.uclouvain.be/course/view.php?id=8572					
Prerequisites :	Depending on the selected topics, this course may require the use, extension or acquisition of advanced concepts in applied mathematics (such as those appearing in the program of the Master in Mathematical Engineering).					
Main themes :	Topics covered in this course are related to the application of applied mathematics disciplines taught at UCL, and vary from year to year. Those applications come from the industrial or organizational worlds.					
Aims :	Learning outcomes: - LO1.1, LO1.2, LO1.3 - LO2.1, LO2.2, LO2.3, LO2.4, LO2.5 - LO3.1, LO3.2, LO3.3 - LO4.1, LO4.2, LO4.3, LO4.4 - LO5.1, LO5.2, LO5.3, LO5.4, LO5.5, LO5.6 - LO6.1, LO6.3 (the acquisition of certain LOs depending on the type of project carried out) More specifically, at the end of the course, the student will be able to : -					
Evaluation methods :	can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".					
	 specifications defined at the beginning of the project 					
	amount and quality of work performed, and suitability of the recommended technical solution					
	a final written report about the project					
	oral presentation feedback from the supervisor and, if appropriate, the external partner.					
Teaching methods :	Students work in groups on a project selected among a list of potential projects presented at the beginning of the academic ye A supervisor monitors the progress of each group on a regular basis.					

Content :	No specific content. Recent project topics include "Image restoration", "Optimal Economic Dispatch of Power Generating Units", "An intelligent smartphone keyboard", "Fighting fires in Siberia", "Modelling the energy market", "Location of a sensor network and measure aggregation", "Optimal robust design of mechanical structures".
Faculty or entity in charge:	МАР

Programmes / formations proposant cette unité d'enseignement (UE)							
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage			
Master [120] in Mathematical Engineering	MAP2M	5	-	٩			