UCL Université catholique de Louvain

LINMA2120

2015-2016

Applied mathematics research seminar

3.0 credits	30.0 h	2q

Teacher(s) :	Lefèvre Philippe ; Blondel Vincent ; Delvenne Jean-Charles (coordinator) ; Van Dooren Paul ; Absil Pierre-Antoine ; Van Vyve Mathieu ; Glineur François ; Jungers Raphaël ; Hendrickx Julien ; Chevalier Philippe ; Nesterov Yurii ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	> http://icampus.uclouvain.be/claroline/course/index.php?cid=INMA2120
Prerequisites :	Standard training in applied mathematics (e.g. contents of the mandatory courses of the master in mathematical engineering).
Main themes :	The seminar allows local and international speakers to present research results in various domains of applied mathematics : systems and control, numerical analysis, optimisation, etc.
Aims :	-- AA3 : 1, 3 -- AA5 : 1, 2, 3, 4, 5, 6 The objective of this seminar is to introduce students to research activities in applied mathematics organized at UCL. After taking this course, students will be able to : -- Fruitfully attend a research seminar, and extract the main ideas -- Critically assess scientific results presented in talks or journal articles -- Give an oral or written presentation of advanced scientific results *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".*
Evaluation methods :	Student performance will be assessed on the basis of - Active participation to the seminars - Writing of summaries for seminars attended - Preparation of an oral communication or a written report related to one of the topics presented during the (reading) seminars The type and number of activities will be determined in agreement with the coordinator at the beginning of the semester.
Teaching methods :	Students take part to various research activities in applied mathematics organized at UCL, namely the following (reading) seminars: -- Systems and Control seminar -- Optimization and Mathematical Programming seminar -- Large Graphs and Networks seminar Researchers and professors from UCL or other universities present recent research works. The type and number of activities will be determined at the beginning of the semester by the students according to their scientific interests, in agreement with the coordinator, so that the total amount of work corresponds to the course's ECTS value.
Bibliography :	Depends on the topics of the seminar.
Other infos :	The seminar can be followed during the first of the second semester; please contact the coordinator at the beginning of the desired semester. The program for each seminar is available online at -- http://www.uclouvain.be/11245.html (systems and control) -- http://www.uclouvain.be/en-44416.html (optimization and operations research) -- http://sites.uclouvain.be/big-data (Big Data)

Faculty or entity in charge:	MAP

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Mathematical Engineering	MAP2M	3	-	
Master [120] in Electro-mechanical Engineering	ELME2M	3	-	