UCLouvain

linma2120

2020

Applied mathematics seminar

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

Teacher(s)	Absil Pierre-Antoine ;Crevecoeur Frédéric ;Delvenne Jean-Charles ;Glineur François ;Hendrickx					
Todonor(o)	Julien ;Jacques Laurent (coordinator) ;Jungers Raphaël ;Nesterov Yurii ;Papavasiliou Anthony ;					
Language :	English					
Place of the course	Louvain-la-Neuve					
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, AA3.3 • AA5.1, AA5.2, AA5.3, AA5.4, AA5.5, AA5.6					
	The objective of this seminar is to introduce students to research activities and current questions in applied mathematics.					
	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	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Student performance will be assessed on the basis of - Attendance to the seminars, reading groups, and/or invitation of industrial researcher for a seminar, and/or visits of companies - Writing of summaries for the activities - Preparation of oral communications and/or written reports related to the topics presented during the activities The type and number of activities will be determined in agreement with the coordinator at the beginning of the year.					
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Students take part (possibly over a single semester) to various research activities in applied mathematics organized at UCL, namely the following (reading) seminars:					
	Systems and Control seminar Operations Research seminar Big Data seminar					
	In these seminars, researchers and professors from UCL or other universities present recent research works. Depending upon opportunities and the number of registered students, inviting one industrial partner to give a seminar, or the visit of a company may be organised.					
	The type and number of activities will be determined at the beginning of the academic year by the students according to their scientific interests, in agreement with the coordinator, so that the total amount of work corresponds to 5 ECTS.					
	In the context of health measures related to Covid-19, some seminars could be organized on a distance (or hybrid) basis, according to the terms and schedule displayed on the moodle page of the course.					
Inline resources	http://moodleucl.uclouvain.be/course/view.php?id=8087					
Bibliography	Dépend des sujets traités lors du séminaire.					
Other infos	The program for each seminar is available online at					
	https://uclouvain.be/en/research-institutes/icteam/inma/seminars.html					

Faculty or entity in	MAP
charge	

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Teaching methods	- all seminars are organized remotely, via MS Teams.
Evaluation methods	Students will continue to be assessed on the basis of: • their active participation in seminars, reading workshops, and / or invitation of industrialists for a seminar; knowing that these seminars will be organized remotely if the health situation requires it; • writing summaries of activities in which they have participated; • the presentation of presentations and / or the writing of reports relating to one of the themes presented during the activities; knowing that any presentation will be provided remotely if the health situation requires it. The number and type of assessment activities to which students are subject is determined at the start of the academic year in consultation with the coordinator.

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Master [120] in Mathematical Engineering	MAP2M	5		٩		
Master [120] in Data Science Engineering	DATE2M	3		٩		
Master [120] in Data Science: Information Technology	DATI2M	3		٩		