

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.



5 credits

30.0 h

Q1 and Q2

Teacher(s)	Absil Pierre-Antoine ;Crevecoeur Frédéric ;Delvenne Jean-Charles ;Glineur François ;Hendrickx 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	<ul style="list-style-type: none"> <li>• AA3.1, AA3.3</li> <li>• AA5.1, AA5.2, AA5.3, AA5.4, AA5.5, AA5.6</li> </ul> <p>The objective of this seminar is to introduce students to research activities and current questions in applied mathematics.</p> <p>1 After taking this course, students will be able to :</p> <ul style="list-style-type: none"> <li>• Fruitfully attend a research seminar, and extract the main ideas</li> <li>• Critically assess scientific results presented in talks or journal articles</li> <li>• Give an oral or written presentation of advanced scientific results</li> </ul> <p>-----</p> <p><i>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".</i></p>
Evaluation methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <p>Student performance will be assessed on the basis of</p> <ul style="list-style-type: none"> <li>- Attendance to the seminars, reading groups and/or visits of companies</li> <li>- Writing of summaries for the activities</li> <li>- Preparation of oral communications and/or written reports related to the topics presented during the activities</li> </ul> <p>The type and number of activities will be determined in agreement with the coordinator at the beginning of the year.</p>
Teaching methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <p>Students take part (possibly over a single semester) to various research activities in applied mathematics organized at UCL, namely the following (reading) seminars:</p> <ul style="list-style-type: none"> <li>• Systems and Control seminar</li> <li>• Operations Research seminar</li> <li>• Big Data seminar</li> </ul> <p>In these seminars, researchers and professors from UCL or other universities present recent research works. Depending upon opportunities and the number of registered students, visits of companies 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.</p>
Inline resources	<a href="http://moodleucl.uclouvain.be/course/view.php?id=8087">http://moodleucl.uclouvain.be/course/view.php?id=8087</a>
Bibliography	Dépend des sujets traités lors du séminaire.
Other infos	<p>The program for each seminar is available online at</p> <ul style="list-style-type: none"> <li>• <a href="http://www.uclouvain.be/11245.html">http://www.uclouvain.be/11245.html</a> (systems and control)</li> <li>• <a href="http://www.uclouvain.be/en-44416.html">http://www.uclouvain.be/en-44416.html</a> (operations research)</li> <li>• <a href="http://sites.uclouvain.be/big-data">http://sites.uclouvain.be/big-data</a> (Big Data)</li> </ul>

Faculty or entity in charge	MAP
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<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Data Science Engineering	DATE2M	5		
Master [120] in Mathematical Engineering	MAP2M	5		
Master [120] in Data Science: Information Technology	DATI2M	5		