lecon2609

2019

Game Theory

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	Q2

Teacher(s)	Vannetelbosch Vincent ;
Language :	English
Place of the course	Louvain-la-Neuve
Main themes	Game theory is a bag of analytical tools designed to help us to undestand the phenoma that we observe wen decision makers interact.
Aims	*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.** Homework (50%) + Presentation of a research article (50%)
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** The course consists of lectures. The topics will be introduced during the lectures. Compulsory homeworks will be assigned to students. Reading assignments are also possible.
Content	**Topics in Game Theory** **Part A Network Science and Economics** • Representing, Measuring and Analyzing Networks • Learning and Diffusion on Networks • Games and Behavior on Networks • Game-Theoretic Modeling of Network Formation **Part B Market Design and Matching** • The Basic Matching Model • The Medical Match • Assignment Markets • School Allocation • Course Allocation • Kidney Exchange
Inline resources	Slides, homeworks, exercises, compulsory readings will be available on the course webpage on Moodle UCL (http://moodleucl.uclouvain.be/).
Bibliography	• Social and economic networks by Matthew O. Jackson, Princeton University Press (2008). • Connections by Sanjeev Goyal, Princeton University Press (2007). • Network science by Albert-Laszlo Barabasi, Cambridge University Press (2016). • The Oxford handbook of the economics of networks edited byYann Bramoullé, Andrea Galeotti and Brian W. Rogers, Oxford University Press (2016). • Market design: auctions and matching, by Guillaume Haeringer, MIT Press (2018).
Faculty or entity in charge	ECON

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Economics : General	ECON2M1	5		🔍
Master [120] in Economics: Econometrics	ETRI2M	5		🔍
Master [120] in Economics: General	ECON2M	5		🔍