

Course Descriptions Master 2016-2017

Course Title Social Choice Theory
 Course Code EBC4005
 ECTS Credits 6,5
 Assessment Whole/Half Grades

| Period | Period | Start | End | Mon | Tue | Wed | Thu | Fri |
|--------|------------|------------|-----|-----|-----|-----|-----|-----|
| 2 | 31-10-2016 | 22-12-2016 | X | | | X | | |

Level Intermediate

Coordinator Ton Storcken For more information:t.storcken@maastrichtuniversity.nl

Language of instruction English

Goals In this course the student will learn to formally analyse collective decision rules w.r.t. various aspects such as anonymity, Pareto-optimality, neutrality, and strategy-proofness.

Description In collective decision-making (e.g., elections) the rules and procedures used to arrive at a decision may have a considerable impact on the final result. Different rules may lead to different decisions. In this course such rules are studied. In particular, desirable properties like Pareto-optimality and non-manipulability are investigated.

Some topics are:

- voting schemes for two alternatives, theorem of May;
- voting schemes for more than two alternatives, score rules, veto rules;
- Condorcet winners, dictatorial rules, anonymity, neutrality, positive association, impossibility theorems of Arrow, Gibbard and Satterthwaite;
- location problems;
- strategy-proof division.

Literature Lecture notes.

Prerequisites A mathematic level comparable to a BSc Econometrics & Operations Research meets the prerequisites. Exchange students need to have obtained a Bachelor degree and an advanced level in mathematics. An advanced level of English.

Teaching methods PBL / Lecture

Assessment methods Written Exam

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

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|---|---------------------------------|
| Master Econometrics and OR | Econometrics & OR Electives |
| Master Econometrics and OR | Mathematical Economics |
| Master Economic and Financial Research Track Econometrics | Electives |
| Master Economic and Financial Research Track Econometrics | Track Econometrics Core Courses |
| Master Economic and Financial Research | Electives |
| SBE Exchange Master | Master Exchange Courses |
| SBE Non Degree Courses | Master Courses |