Course and Examination Fact Sheet: Spring Semester 2022

10,356: Recent Advances in the Econometrics of Optimal Policy Design

ECTS credits: 4

Overview examination/s
(binding regulations see below)
Decentral - Presentation (individual) (50%)
Examination time: term time
Decentral - Presentation (individual) (30%)
Examination time: term time
Decentral - Active participation (20%)
Examination time: term time

Attached courses
Timetable -- Language -- Lecturer
10,356.1.00 Recent Advances in the Econometrics of Optimal Policy Design -- Englisch -- Preinerstorfer David

Course information

Course prerequisites
Knowledge of mathematics and econometrics at the graduate level in Economics and the willingness to follow, understand and present formal arguments.

Learning objectives

Recently, there has been a substantial amount of research in econometrics concerning the design of optimal policies. Essentially, the question is which “treatment” to choose, often based on observed covariates, to maximize welfare of the population. Other objectives could concern the minimization of inequality or poverty. In practice, a relevant question could be, for example, which job training problem to choose for an individual based on a certain number of characteristics, such as education or previous experience.

This course introduces PhD students to current problems in this exciting, active research field, which also contains many open questions for future research.

Course content

The contents of the course are:

1. Decision theoretic tools
2. Experimental design based approaches to determine optimal policies
3. Empirical risk minimization based techniques
4. Sequential approaches and multi-armed bandits targeting welfare
5. Distributional targets, such as poverty or inequality

The focus of the course can be adapted to the specific interests of the participating students.

Course structure and indications of the learning and teaching design

The course is conducted in 6 blocks:

- In the first 3 blocks, topics are introduced in the form of interactive lectures.
- In the remaining 3 blocks, topics are first introduced by the lecturer, and then papers are presented and discussed by
students. The papers presented by the students are distributed by the lecturer of the course, but suggestions of articles that fit the topic of the course will be taken into consideration.

Course literature

The following list of references provides an overview of the topics covered in this class:


Additional course information

In the case of the President's Board having to implement new directives due to the SARS-CoV-2 pandemic in SpS2022, the course information listed above will be changed as follows:

- The course is conducted online via the platform ZOOM and StudyNet.
- The recordings of the course will not be saved.
- The lecturer informs via StudyNet on the changed implementation modalities of the course.
- There are no changes necessary to the course information.

The examination information listed below would be changed as follows:

- The presentations are conducted online and are being recorded.

Examination information

Examination sub part/s

1. Examination sub part (1/3)

Examination time and form
Decentral - Presentation (individual) (50%)
Examination time: term time
2. Examination sub part (2/3)

Examination time and form
Decentral - Presentation (individual) (30%)
Examination time: term time

Remark
Critical review of a scientific article + report

Examination-aid rule
Presentations
In presentations, aids for visual presentation can be used. These aids can be specified or restricted by the lecturers.

Supplementary aids
The presentation can be supplemented by slides.

Examination languages
Question language: English
Answer language: English

3. Examination sub part (3/3)

Examination time and form
Decentral - Active participation (20%)
Examination time: term time

Remark

Examination-aid rule
Active classroom participation

In the "Active classroom participation" examination form, regular participation in class is assessed.

The assessment criteria can be as follows:

- Requests to speak enrich the discussion (productive) / requests to speak disturb the discussion (counterproductive);
- Requests to speak are correct/requests to speak are incorrect;
- Requests to speak are frequent/average/rare;
- No requests to speak, but students follow the lesson/no requests to speak and students do not noticeably follow the lessons.

Supplementary aids
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Examination content

Every student gives a presentation of an article, which is followed by a critical discussion (concerning the content of the paper) by another student (who also writes a referee report). Active participation in the course is crucial.

The presentation (examination part 1) will be about a scientific paper fitting the topic of the course.

- Every presentation is followed by another (short) presentation (examination part 2) that critically discusses the paper presented and for which also a referee report has to be written.
- The distribution of presented papers (examination parts 1 and 2) will take place in the first week.

Examination relevant literature

The papers discussed in the presentations may be papers that are listed in the course literature above, papers that are follow-ups of these papers, or papers that fit the topic of the course and are suggested by the students. In any case, the relevant papers will be made available through Canvas prior to the presentation.

Please note

Please note that only this fact sheet and the examination schedule published at the time of bidding are binding and takes precedence over other information, such as information on StudyNet (Canvas), on lecturers’ websites and information in lectures etc.

Any references and links to third-party content within the fact sheet are only of a supplementary, informative nature and lie outside the area of responsibility of the University of St.Gallen.

Documents and materials are only relevant for central examinations if they are available by the end of the lecture period (CW21) at the latest. In the case of centrally organised mid-term examinations, the documents and materials up to CW 12 are relevant for testing.

Binding nature of the fact sheets:

- Course information as well as examination date (organised centrally/decentrally) and form of examination: from bidding start in CW 04 (Thursday, 27 January 2022);
- Examination information (regulations on aids, examination contents, examination literature) for decentralised examinations: in CW 12 (Monday, 21 March 2022);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 12 (Monday, 21 March 2022);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before the end of the registration period in CW 15 (Monday, 11 April 2022).