Structural Models and Policy Evaluation

<table>
<thead>
<tr>
<th>Course title - Intitulé du cours</th>
<th>Structural Models and Policy Evaluation</th>
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<tbody>
<tr>
<td>Level / Semester - Niveau /semestre</td>
<td>M2 / S2</td>
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<tr>
<td>School - Composante</td>
<td>Ecole d’Economie de Toulouse</td>
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<tr>
<td>Teacher - Enseignant responsable</td>
<td>Olivier DE GROOTE – Ana GAZMURI</td>
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<td>Lecture Hours - Volume Horaire CM</td>
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<td>TA Hours - Volume horaire TD</td>
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<td>TP Hours - Volume horaire TP</td>
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<td>Course Language - Langue du cours</td>
<td>Anglais</td>
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<td>TA and/or TP Language - Langue des TD et/ou TP</td>
<td>Anglais</td>
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Teaching staff contacts - Coordonnées de l’équipe pédagogique :

Students with questions about the course material are encouraged to ask them during or at the end of class before requesting a meeting with the lecturer.

Meetings should be requested by email:

- Olivier De Groote olivier.de-groote@tse-fr.eu
- Ana Gazmuri ana.gazmuri@tse-fr.eu

Course Objectives - Objectifs du cours :

In this course students learn how to apply econometric methods to answer specific policy questions. The focus is on applying the toolbox of an econometrician to address important economic questions. We will apply and extend the methods introduced in previous econometrics courses to focus on big questions in labor economics and related fields.

Using relevant examples from the field, we discuss: (1) how to look at economic theory and the available data to find the appropriate method to answer a research question (2) the most common problems applied researchers encounter, how it could impact the results and what can be done about it.

Prerequisites - Pré requis :

Students should be familiar with the compulsory econometrics courses in M1 and M2.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Students are expected to read the assigned papers before the class and participate actively in class discussions.

Grading system - Modalités d’évaluation :

Grades will be based on two problem sets, in-class presentations and a final exam. You have to choose one paper to present during a class from a provided list (10% of the grade). Problem sets and the final exam will each account for 30% of the grade.
Bibliography/references - Bibliographie/références:

The slides with the explanation in class will be sufficient to understand the basics of each method. For further reading, we recommend the following references for applied econometricians:


Session planning - Planification des séances:


2. Treatment Effect Heterogeneity and Instrumental Variables

3. Structural Models:
   3.1 Logistic regression as a random utility model
   3.2 Discrete choice models and alternative distributional assumptions
   3.3 Counterfactual simulations
   3.4 Forward looking behavior and dynamic models.

4. Common practical issues
   4.1 Endogeneity in nonlinear models
   4.2 Serial correlation