

## Econometric Methods for Empirical Economics

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| Course title - Intitulé du cours               | Econometric Methods for Empirical Economics |
| Level / Semester - Niveau /semestre            | M2 / S1                                     |
| School - Composante                            | Ecole d'Economie de Toulouse                |
| Teacher - Enseignant responsable               | SINHA SHRUTI                                |
| Other teacher(s) - Autre(s) enseignant(s)      |   |
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| Other teacher(s) - Autre(s) enseignant(s)      |   |
| Lecture Hours - Volume Horaire CM              | 15  |
| TA Hours - Volume horaire TD                   |   |
| TP Hours - Volume horaire TP                   |   |
| Course Language - Langue du cours              | Anglais                                     |
| TA and/or TP Language - Langue des TD et/ou TP |   |

### **Teaching staff contacts - Coordonnées de l'équipe pédagogique :**

Email: shruti.sinha@tse-fr.eu

Office Number: T.528

Office Hours: TBA

Preferred means of interaction: by email / prior appointment.

### **Course's Objectives - Objectifs du cours :**

In this course you will study identification and estimation in various models of latent dependent variables.

The course starts from the analysis of econometric models for dependent variables whose support is restricted in some important way, e.g., Linear Probability Model, Probit Model, Logit Model, Multinomial Logit Model, Conditional Logit Model, Ordered Probit Model, Tobit Model. It then moves to consider the problem of sample selection and related econometric models, e.g., Type II Tobit Model.

### **Prerequisites - Pré requis :**

M1 Intermediate Econometrics course, or equivalent.

Students must be comfortable with:

- matrix algebra
- introductory statistics that includes hypothesis testing
- estimators like OLS, MLE, IV

### **Grading system - Modalités d'évaluation :**

The final exam will be made up of two parts. Each part counts 50% of the final mark.

(a) An empirical project which consists of some Stata exercises.

(b) A closed-book exam.

**Bibliography/references - Bibliographie/références :**

A total understanding of the material in the slides is sufficient to pass the exam.

Below some books have been listed that may offer additional help:

1. Cameron, A.C. and P.K. Trivedi (2005): Microeconometrics - Methods and Applications, Cambridge University Press ,chapters 15-16.

2. Woolridge, J.M. (2002): Econometric Analysis of Cross Section and Panel Data, MIT Press, chapters 15-17.

**Distance learning – Enseignement à distance :**

In case of distance learning, you will be provided with recorded lectures and/or virtual classrooms.

You will be able to send your exam solutions online.

Virtual office hours will be provided, if needed.