Course Code: EB406 / Google Classroom Code: 4nw4el6

Subject	Intermediate Econometrics (Special Lectures)II
Instructor	YUTA KURODA
Day/Period	Fall Semester Tue 2
Eligible Participants	3･4
Course Numbering	EAL-ECO365E
Credit(s)	2

Object and summary of class	This course provides students advanced knowledge and contemporary methods for econometric analysis and cover the statistical foundations for implementing empirical study. We study how to use statistical techniques to evaluate the effects of treatment on outcomes of interest using a variety of evaluation designs.
Goal of study	Students acquire following abilities and skills; 1. to select appropriate econometric methods when analyzing actual issues, 2. to understand the latest empirical analysis papers.
Contents and progress schedule of the class	Class Code: 4nw4el6 ･The Lectures will be delivered on demand. ･Lecture videos and materials will be uploaded to the Google Classroom sequentially. ･Lecture materials can be viewed at your own convenience, but final report must be submitted by the designated deadline. ･If you wish to take this course, please use the class code above to attend. After that, you must register for this course in the Student Affairs Information System. ･If you are unable to attend the class, please email the instructor with your name, student ID, and the subject of the course you wish to take. The schedule is as follows. 1. Course Guidance and Initial Arrangements 2. Introduction to Econometrics and Empirical Economic Analysis 3. Multiple Regression Analysis 4. Dummy Variables, Interaction Terms and Quadratic Terms 5. Randomization 6. Panel Data Methods 7. Difference in Differences 8. Fixed and Random Effects Estimation 9. Instrumental Variable Estimation 10. Regression Discontinuity or Kink Design 11. Propensity Score Matching 12. Synthetic Control Method 13. Logit and Probit Models
Practical business	
Language Used in Course	English
Evaluation method	Students will be evaluated based on final report (100%).
Textbook and references	(see table below)
URL	
Preparation and Review	
Attached File	
In addition	･How to contact the instructor By email (yuta.kuroda.d1@tohoku.ac.jp). Initial registration, questions for lectures, and other consultations are available.

Textbook and references:

No	Title	Author	Publisher	Year	ISBN/ISSN	Classification
1.	『Introductory Econometrics: A Modern Approach』	Jeffrey M. Wooldridge	South-Western Pub	2016	9781305270107	Reference
2.	『Econometric Analysis of Cross Section and Panel Data, 』	Jeffrey M. Wooldridge	MIT Press	2010	9780262232586	Reference
3.	『Mostly Harmless Econometrics: An Empiricist's Companion』	Joahua D. Angrist, Jorn-steffen Pischke	Princeton Univ Pr	2009	9780691120355	Reference

	・Necessary preparations Computer that can download and watch mp4 videos. Basic knowledge of Mathematics, Statistics and Econometrics is prerequisite. ・About the first class First lecture materials will be uploaded on October 6. You don't have to watch them on this day, but you should attend the Google Classroom by this day.
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