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ECON300007

Advanced Econometrics

Program : Global Summer Program Term : Summer 2024 Duration : June 24, 2024 - July 19, 2024 Contact Hours : 54 Fudan Credits : 3

Teaching Modes and Locations:

Modes: Offline + Online Location: Offline at Fudan University / Online with no specific place

Course Description:

Advanced Econometrics is a course designed to provide an in-depth exploration of the theory and methods of econometrics. Through theoretical presentations and empirical analyses, students will learn how to apply econometric tools for economic data analysis, model estimation, and inference.

Course Goals:

- 1. Understand the core concepts and basic principles of econometrics.
- 2. Learn to build, estimate and test econometric models.
- 3. Learn to work with panel data, time series data, and cross-sectional data.
- 4. Familiarize yourself with common econometric techniques, including linear regression, instrumental variables methods, and time series analysis.
- 5. Develop independent research and paper writing skills.



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Prerequisites:

No prerequisites.

References:

Econometric Theory and Methods, by Davidson and MacKinnon, Oxford University Press, 2003.

Schedul	Schedule:					
Lecture	Date	Торіс				
1		Introduction to Econometric Theory and Methods				
2		Basics of Linear Regression Analysis				
3	June 24 - July 19, 2024	Multiple Linear Regression Analysis				
4		Violations of Classical Assumptions and Remedies				
5		Instrumental Variables and Two-Stage Least Squares (2SLS)				
6		Generalized Method of Moments (GMM)				
7		Time Series Econometrics: Autocorrelation and Heteroscedasticity				
8		Panel Data Analysis: Fixed Effects and Random Effects Models				
9		Limited Dependent Variable Models: Probit and Logit Models				
10		Time Series Analysis: ARIMA Models and Cointegration				
11		Advanced Topics in Econometrics: Structural Equation Modeling and Bayesian Econometrics				
12		Final Exam / Thesis				



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Assessment:

Assessment Task	Weighting
1. Attendance & Participation	20%
2. Assignments & Presentation	30%
3. Final Exam / Thesis	50%

Grading Scale:

Grades	Α	А-	B +	В	B-	C+	С	C-	D	F
100	90-100	85-89	82-84	78-81	75-77	71-74	66-70	62-65	60-61	<60

The instructor will use the grading system as applied by Fudan University.

Credit Point Value:

Component	Contact Hours	Fudan Credits
Academic Lectures	44	
Thesis/Exam	4	
Field Trip	3	3
Seminar	3	
Total	54	

At Fudan University, the duration of one contact hour is 45 minutes, and 18 contact hours are equivalent to 1 credit.

Note: The document is subject to change at the discretion of School of Management, Fudan University.