

シラバス参照

④ 科目名	Econometrics I
④ 科目名/Subject	Econometrics I
④ 担当教員	KO IAT MENG
④ 担当教員/Instructor	KO IAT MENG
④ 曜日・講時/Day/Period	前期 火曜日 2講時
④ 対象学年 /Eligible Participants	1年/1year
④ 科目ナンバリング /Course Numbering	EEM-ECO564E
④ 単位数/Credit(s)	2
④ メディア授業科目 /Course of Media Class	

④ 授業の目的と概要 /Object and summary of class	This course is a one-semester introduction to probability theory and statistics for economists. The course will cover fundamental knowledge of probability and statistics for the preparation of subsequent econometrics courses. Simple R programs will be used and taught.
④ 学修の到達目標 /Goal of study	The students are expected to have a deep understanding of probability and statistics, especially in conducting economic data analysis. Good command of knowledge covered in this course will also facilitate studying other economic courses.
④ 授業内容・方法と進捗予定 /Contents and progress schedule of the class	<p>Foundation of Probability (Hansen Chapter 1)</p> <ul style="list-style-type: none"> - Random outcomes and events - Probability measure - Conditional probability and independence <p>Random Variables and Univariate Distributions (Hansen Chapter 2)</p> <ul style="list-style-type: none"> - Random variables: discrete & continuous - Distribution functions - Moments <p>Important Parametric Distributions (Hansen Chapter 3 & 5)</p> <ul style="list-style-type: none"> - Discrete distributions - Continuous distributions <p>Random Vectors and Multivariate Distributions (Hansen Chapter 4 & 5)</p> <ul style="list-style-type: none"> - Joint distributions - Conditional distributions - Independence and correlation - Conditional expectation <p>Sampling Theory and Statistics (Hansen Chapter 6)</p> <ul style="list-style-type: none"> - Population, random sample, and statistics - Sampling distribution of statistics <p>Law of Large Numbers and Central Limit Theory (Hansen Chapter 7 & 8)</p> <ul style="list-style-type: none"> - Asymptotic limits & LLN - Convergence in distribution & CLT <p>Parameter estimation and evaluation (Hansen Chapter 10 & 11)</p> <ul style="list-style-type: none"> - Population and distribution model - Maximum likelihood estimation - (Generalized) Method of Moments - Mean squared error and best unbiased estimators <p>Hypothesis Testing (Hansen Chapter 13)</p> <ul style="list-style-type: none"> - Hypothesis testing related concepts <p>Note: We may not be able to cover all topics due to time constraints. The contents will be adjusted accordingly.</p>
④ 実務・実践的授業 /Practical business ※○は、実務・実践的授業であることを示す。 /Note: "○" Indicates the practical business	

使用言語 /Language Used in Course	English						
成績 評価方法 /Evaluation method	Assignments (40%) Mid-term exam (30%) Final exam (30%)						
教科書 および 参考書 /Textbook and references	No	書名	著者名	出版社	出版年	ISBN/ISSN	資料種別
	1.	『Probability and Statistics for Economists.』	Hansen, Bruce E.		2022		
関連URL /URL	Google Classroom: bdv36v6						
授業時間外 学修 /Preparation and Review							
添付 ファイル /Attached File							
その他 /In addition	The author's earlier draft of the book will be uploaded on google classroom.						
更新日付 /Last Update	2023/02/28 16:24						

1単位の授業科目は、45時間の学修を必要とする内容をもって構成することを標準としています。1単位の修得に必要な学修時間の目安は、「講義・演習」については15～30時間に授業および授業時間外学修(予習・復習など)30～15時間、「実験・実習及び実技」については30～45時間の授業および授業時間外学修(予習・復習など)15～0時間です。

One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.