EF5412: TOPICS IN ECONOMETRICS II

Effective Term
Semester B 2024/25

Part I Course Overview

Course Title
Topics in Econometrics II

Subject Code
EF - Economics and Finance
Course Number
5412

Academic Unit
Economics and Finance (EF)

College/School
College of Business (CB)

Course Duration
One Semester

Credit Units
3

Level
P5, P6 - Postgraduate Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
EF5470 Econometrics / FB8912 Business Research Methods (applicable to 2015 and preceding intakes)
EF5470 Econometrics (applicable to 2016 intake and thereafter)

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

This course provides an in-depth survey of selected state-of-the-art topics in Econometrics, such as new development in theoretical econometrics, computational methods in econometrics, econometric models for preferences and pricing, the econometrics of industrial organization, index numbers and the econometrics of trade, and models of consumer and worker choice. Course materials will be drawn from Handbook of Econometrics and selected journal articles. Students will apply these techniques and concepts to real life cases and examine their usefulness in various fields of economics and finance. By engaging in these exercises, students further strengthen their discovery skills.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Apply the econometric methods covered in this course; Students will solve real-world problems by using econometric software. Empirical applications focus on the underlying economic rationale and their mathematical interpretations.	50	x	x	x
2	Critically evaluate applications of the econometric methods covered in this course in the literature; Students will discover the contribution and limitation of the econometric applications in the literature and innovate by applying recently developed methods to unsolved problems.	50	x	x	

A1: Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

	LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lectures, in-class discussions, assignments	Discuss various econometric methods and evaluate their contribution and limitation. Introduce the use of an econometric software to solve real-life issues.	1, 2	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Projects, Homework assignments, discussions	1, 2	100	

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)

Assessment Task

Projects, Homework assignments, discussions (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Demonstrate being familiar with the various econometric models and the capability of applying those to solve problems with the use of a econometric software programme.

Excellent

(A+, A, A-) High

Good

(B+, B, B-) Significant

Fair

(C+, C, C-) Moderate

Marginal

(D) Basic

Failure

(F) Not even reaching marginal levels

Assessment Task

Projects, Homework assignments, discussions (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion

Demonstrate being familiar with the various econometric models and the capability of applying those to solve problems with the use of a econometric software programme.

Excellent

(A+, A, A-) High

Good

(B+, B) Significant

Marginal

(B-, C+, C) Basic

Failure

(F) Not even reaching marginal levels

Part III Other Information

Keyword Syllabus

Bootstrap; Panel data; Interactions–based models; Duration models; Computational intensive methods in econometrics; Markov chain Monte Carlo methods; Structural econometric modelling; Microeconometric models of investment and employment; Heterogeneity; Testing international trade theory

Reading List

Compulsory Readings

	Title
1	Handbook of Econometrics, Vol. 1 – 6. Elsevier.

Additional Readings

	Title
1	Nil