City University of Hong Kong

Information on a Course
offered by the Department of Economics and Finance
with effect from Semester A in 2012 / 2013

Part I

Course Title: Econometrics

Course Code: EF5070

Course Duration: 1 semester (39 hours)

Credit Units: 3

Level: P5

Medium of Instruction: English

Prerequisites: Nil

Precursors: Nil

Equivalent Courses: Nil

Exclusive Courses: Nil

Part II

Course Aims

This course aims to equip the students with the knowledge and skills of econometric modelling and empirical investigations in economics and finance. It also equips the students with the skills to use computer software to carry out econometric analysis. The computer skill is essential for students who wish to pursue further studies or a professional career in economics, finance or related disciplines. Real-world economic and finance data will be used in this course to help students to master different econometric methods. By combining the knowledge acquired in class with software skills students will be able to discover how to apply econometric models to test economic and finance theories, and to predict economic time series. They will discover the econometrics tools and design econometric models to come up with effective solutions for a wide range of real-life questions.

Course Intended Learning Outcomes (CILOs)

Upon successful completion of this course, students should be able to:

No.	CILOs	Weighting (if applicable)
1.	This course is designed to equip students with the knowledge to **formulate and apply econometric models** to perform empirical analysis in business economics and finance; master basic econometric skills to analyse data in economics and finance.	
2.	This course also equip students with the skills to **compile economic and financial data** for empirical analysis; learn how to conduct empirical analysis using economic and finance data, and use these skills to discover the answers to real life questions.	
3.	Equip the students with the numerical skills to **analyse and interpret economic and finance data**	
4.	Equip the students with the knowledge and skills to **plan, conduct and present independent professional empirical investigation**	
5.	This course teaches the students how to **use computer software for empirical analysis;** apply econometric software packages such as EViews, STATA or SAS.	

Teaching and Learning Activities (TLAs)

(Indicative of likely activities and tasks designed to facilitate students' achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)

CILO No.	TLAs	Hours/week (if applicable)
CILO 1	Lecture and computer lab sessions In the computer lab sessions, we use examples and problem sets to illustrate how to apply econometric techniques and econometric software to real life data. Students are encouraged to actively participate in the software exercises and interact with the instructor. The use of computer software such as EViews, STATA or SAS helps students conduct empirical studies. An illustration of software solved regression results helps students understand the application of regression models and the test for basic assumptions behind these models.	3 hours
CILOs 1-5	Homework, group project and presentation The homework assignments and mid-term examinations will test students on their understanding of basic econometric concepts, applications of econometric models, basic assumptions, and limitations of the models. They are essential in helping students discover how to conduct empirical studies.	2 hours(homework) 1 hour (project)

Assessment Tasks/Activities

(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)

CILO No.	Type of Assessment Tasks/Activities	Weighting (if applicable)	Remarks
CILOs 1-5	Homework, group project, mid-term test, computer lab sessions	Homework (30%), Group project (20%), Mid-term test (40%)	
CILO 4	Presentation	Presentation (10%)	

Assessment Methods

	Coursework	Final Exam	Total
CILO 1-5	100%	Nil	100%

Summary of how DEC is incorporated in Assessment Tasks, and Teaching and Learning Activities (TLAs)

DEC Elements	Assessment Tasks and TLAs
Develop students' attitude to discover and innovate	Lecture with In-class discussion group projects
Develop students' abilities to discover and innovate, accomplishments of Discovery and Innovation	Computer lab sessions Midterm examination Homework Assignment

Grading of Student Achievement:
Refer to Grading of Courses in the Academic Regulations for Taught Postgraduate Degrees.

Part III

Keyword Syllabus
Econometrics, empirical analysis, computer skills

Recommended Reading
Text(s)

Textbook

(a) Title: Introductory Econometrics (3rd Edition)
Author: James H. Stock and Mark W. Watson
Publisher: Prentice Hall, 2010
ISBN: 0-138-00900-7

Reference book

(a) Title: Introductory Econometrics: A Modern Approach (2nd Edition)
Authors: Jeffrey M. Wooldridge
Publisher: Thomson, 2006
ISBN: 0-324-32348-4

More recent edition of the reference book:
Title: Introductory Econometrics: A Modern Approach (4th International Edition)
Author: Jeffrey M. Wooldridge
Publisher: South-western Cengage Learning, 2008
ISBN: 0-324-78890-8

Online Resources