



COURSE SYLLABUS

1. **COURSE TITLE**

Microeconomics
微观经济学

2. **COURSE CODE**

ECON2103

3. **PRE-REQUISITE**

Nil

4. **CO-REQUISITE**

Nil

5. **NO. OF UNITS**

3

6. **CONTACT HOURS**

42

7. **MEDIUM OF INSTRUCTION (MOI)**

English

8. **OFFERING UNIT**

Financial Mathematics Programme, Faculty of Science and Technology

9. **SYLLABUS PREPARED & REVIEWED BY**

Prepared by: Dr Tianhao Zhi

Reviewed by: Dr Sherry Zhou

10. **AIMS & OBJECTIVES**

This course aims to introduce concepts & principles of microeconomics for financial mathematics students from elementary to intermediate level. The students should moreover appreciate the relevance of the course materials to real life, and learn to apply them in analyzing economic problems commonly encountered by individuals and firms. The major topics covered are: the market forces of demand and supply, and the associated concept of elasticity; the key role of price in the resource allocation; the efficiency of, and some possible

problems with, the market mechanism; the various cost measures for firms; the different forms of market competition, and the impact on social welfare; and finally, the basic role of government in the economy.

11. COURSE CONTENT

- Supply & Demand and Elasticity
- Consumer Behaviour & Derivation of a Demand Curve
- Producer Behaviour & Derivation of a Supply Curve
- Market Structure I: Monopoly and Monopolistic Competition
- Market Structure II: Oligopoly and Cartel
- Introduction to Game Theory
- Introduction to Investment Theory
- Information, Market Failure, and the Role of Government

12. COURSE INTENDED LEARNING OUTCOMES (CILOS) WITH MATCHING TO PILOS

Programme Intended Learning Outcomes (PILOs)

Programme Title: Bachelor of Science (Honours) in Financial Mathematics	
PILO	Upon successful completion of the Programme, students should be able to:
PILO 1	Apply the basic principles of microeconomics to clearly explain the phenomena and problems in financial markets;
PILO 2	Interpret quantitative models for microeconomic forecasting and policy analysis;
PILO 3	Employ theories and tools of microeconomics for the construction of the financial product, asset pricing and risk management;
PILO 4	Use mathematical and financial software to perform computation of microeconomic data analysis;
PILO 5	Conduct independent research in microeconomics and exploring business opportunities in financial markets;
PILO 6	Develop the capacity to work as part of a team.

CILOs-PILOs Mapping Matrix

Course Code & Title: ECON2103 Microeconomics		
CILO	Upon successful completion of the course, students should be able to:	PILO(s) to be addressed
CILO 1	Explain basic concepts related to microeconomics	PILO 1
CILO 2	Analyse financial institutions and financial instruments and how they work in a financial market	PILOs 1,3
CILO 3	Apply microeconomic principles to analyze real-world phenomena	PILOs 3,5

13. TEACHING & LEARNING ACTIVITIES (TLAS)

CILO No.	TLAS
CILO 1	<ul style="list-style-type: none"> ● Lectures and Tutorials: Three hours lecture each week on course materials. Tutorials of one-hour duration each week will provide further opportunities to understand the materials through activities such as work-along practice questions, group discussions, self-test multiple-choice questions, ideas sharing, etc. ● Concept Maps: A series of concept maps will be designed by the course lecturer to visually unify different concepts into a coherent structure. The concept maps will illustrate the interrelationships embedded in economics, and enhance students' holistic understanding of economics. ● Assignments and Quizzes: Quizzes will be conducted to measure students understanding of the theories and concepts of financial markets .
CILO 2	<ul style="list-style-type: none"> ● Lectures and Tutorials: Lectures will strengthen students' understanding of the basic concepts, including their synthesis and their uses in the real world, and tutorials will focus on small group learning activities allowing deeper understanding of the core concepts. ● Assignments and Quizzes: Assignments and quizzes are designed to measure students understanding of the basic concepts and theories.



CILO No.	TLAs
CILO 3	<ul style="list-style-type: none">● Lectures and Tutorials: Three hours of lecture each week and weekly tutorial assignments are given, designed to give students the opportunity to work through the concepts and to apply them to various situations.● Case Studies: Local and region economic examples and real-world cases will be used in lectures and tutorials to teach students how to put theory into practice.● Assignments and In-class Practice: Assignments and in-class practice are designed to measure students understanding of the theories and how monetary policy works.

14. ASSESSMENT METHODS (AMS)

Assessment Methods	Weighting	CILO(s) to be addressed	Description of Assessment Tasks
In-class Practices Assignments	20% 20%	CILOs 1-3	Students' ability to identify the relevant concepts and use them to answer questions as well as their ability to apply financial concepts and theories to explain and solve financial and economic problems.
Case Studies	20%	CILO 3	Students' understanding of the knowledge learned and their ability to apply them correctly in different contexts.
Final Exam	40%	CILOs 1-3	Final Examination is designed to see how far students have achieved the intended learning outcomes of the course, especially in the knowledge domain. It involves essay questions on real-world cases, and each question assesses students' ability to identify a set of relevant concepts to



Assessment Methods	Weighting	CILO(s) to be addressed	Description of Assessment Tasks
			real-world case and use them to analyze the case.

15. **TEXTBOOKS / RECOMMENDED READINGS**

TEXTBOOK:

- Robert Pindyck and Daniel Rubinfeld, *Microeconomics*, Pearson; 9th Edition

RECOMMEND READINGS:

1. Mankiw, N. Gregory. (2014). *Principles of Economics*. (7th edition). Cengage Learning.
2. Arthur O'Sullivan, Steven Sheffrin and Stephen Perez (2011). *Microeconomics: Principles, Applications and Tool* (7th ed.). Prentice Hall.
3. Daniel Hamermesh. (2011). *Economics is Everywhere* (4th ed.). Worth Publisher.
4. Dirk Mateer and Lee Coppock. (2013). *Principles of Microeconomics*. W.W. North & Company.
5. Hall, Robert E. and Lieberman, Marc. (2012). *Microeconomics: Principles and Applications* (6th ed.). Cengage Learning.
6. Karl E. Case, Ray C Fair and Sharon Oster (2013). *Principles of Microeconomics* (11th ed.). Prentice Hall.
7. Krugman, Paul and Wells, Robin. (2012). *Economics* (3rd ed.). Worth Publishers.
8. Mankiw, N. Gregory. (2014). *Study Guide for Mankiw's Principles of Economics* (7th ed.). Cengage Learning.
9. Robert Frank and Ben Bernanke. (2012). *Principles of Microeconomics* (5th ed.). McGraw-Hill/Irwin.
10. The Economist (2014). *Numbers Guide: The Essentials of Business Numeracy* (6th ed.) The Economist.
11. Varian, H. R. (2014). *Intermediate Microeconomics with Calculus: A Modern Approach* (9th ed.). W.W. Norton & Company.

OTHER REFERENCES:

- Various newspapers, magazines, journal articles and web addresses will be referenced, e.g. Wall Street Journal <http://asia.wsj.com/home-page>, New York Times www.nytimes.com, and Economist www.economist.com

Revised on: <2023-06-20>