Enquire Teaching Timetable

Return

Course Outcome

ECON 1101 - Mathematical Methods in Economics I

Learning Outcome

- 1. Understand and apply basic relevant mathematical concepts, tools, and techniques to analyze simple economic issues.
- 2. Learn the basic principles and skills which will be needed for optimization analysis in ECON1111 and other upper level courses in Economics.
- 1. 理解及運用基本的相關數學概念、工具和技術,分析簡單的經濟問題。
- 2. 學習適用於優化分析之基本原理和技能,為ECON1111和其他較高級的經濟學課程作準備。

Course Syllabus

- 1. Functions and Equilibrium Analysis
- 2. Set Theory
- 3. Linear Models and Matrix Algebra Determinant and Inverse
- 4. Limit and Single- variable Differentiation
- 5. Unconstrained Optimization First-order condition and Second-order condition
- 6. Exponential and Logarithmic Functions
- 1. 函數與均衡分析
- 2. 集合理論
- 3. 線性代數模型和矩陣 行列式和逆矩陣
- 4. 極限和單變量微分學
- 5. 無約束條件的最優化方法 一階條件與二階條件
- 6. 指數與對數函數

Assessment Type

Feedback for Evaluation

Course and Teaching Evaluation at end of course Informal feedback channels throughout the course (face-to-face, email, WebCT) Departmental Retreat Programme Review 課程終結前的課程及教學評鑑 課程內非正式表達渠道(面談,電子郵件, WebCT) 學系週年會議

課程檢討復審

Required Readings

Chiang, Alpha C., Kevin Wainwright (2005), Fundamental Methods of Mathematical Economics, 4th ed., McGraw-Hill.

Recommended Readings

Frank Werner and Yuri N. Sotskov (2006), Mathematics of Economics and Business, London: Routledge. Sydsæter, Knut and Peter Hammond (2006), Essential Mathematics for Economic Analysis, Harlow, England; New York: Prentice Hall Financial Times.