

區域經濟發展評估 Evaluation of Regional Economic Impacts

Semester	Spring semester 2016
Time	Monday 6, 7, 8
Classroom	62X01
Instructor	Dr. Ya-Yen Sun 孫雅彥
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Office hour	2~4PM Wednesday or by appointment, room 62410

Introduction

This course is designed to offer in-depth information regarding the evaluation methods of regional economic impacts. The course introduces major evaluation methods of regional economic impacts (especially in recreation and tourism), beginning with Input-Output Analysis, Social Accounting Matrix, Tourism Satellite Accounts, and Environmentally Extended Input-Output Model. Cases studies of international and domestic tourism projects are used. Students will be exposed to the fundamental theories on each method as well as hands-on experiences on the applications of tourism & transportation cases.

Purposes

1. To improve students' knowledge on evaluation methods of regional economic impacts.
2. To develop the calculation ability with soft-ware operation. Need to have a notebook.

Textbooks

- Hara, T. (2008). *Quantitative Tourism Industry Analysis: Introduction to Input-Output, Social Accounting Matrix Modelling and Tourism Satellite Accounts*. Oxford, UK: Butterworth-Heinemann.
電子書 <http://www.sciencedirect.com/science/book/9780750684996>

Grading

Homework	20%
Mid-term exam	25%
Final exam	25%
Term-project	30%

Contents

1. Input-Output (I-O) Analysis

- Direct, indirect and induced effects
- Economic base multipliers
- Input-Output table, coefficients and inverse matrix computation
- Construction of regional Input-Output table
- Economic analysis using I-O
- Excel-based model

Textbook: (Hara, 2008) Chapter 1-3

Assigned reading:

- a. Crompton, J. L., Lee, S., & Shuster, T. J. (2001). A guide for undertaking economic impact studies: The Springfest example. *Journal of Travel Research*, 40(1), 79-87.
- b. 孫雅彥 (2010) , 2009 世運會經濟效應評估, 高雄市: 高雄市政府研究發展考核委員會。

2. Social Accounting Matrix (SAM)

- Conceptual framework of SAM
- Structure of SAM table
- Economic analysis using SAM

Textbook: (Hara, 2008) Chapter 4

3. Tourism Satellite Account (TSA)

- Conceptual framework of TSA
- Construction of TSA
- Case studies of TSA

Textbook: (Hara, 2008) Chapter 5

Assigned reading:

- a. Taiwan Tourism Bureau (2010). *Taiwan Tourism Satellite Accounts*. Taipei, Taiwan: Taiwan Tourism Bureau, Ministry of Transportation and Communication.

4. Environmentally extended input-output model

- Basic concepts of environmental extended input-output analysis
- Applications of EEIO in tourism carbon footprint estimation.

Assigned reading:

- a. Sun, Y. Y. (2014). A framework to account for the tourism carbon footprint at island destinations. *Tourism Management*, 45, 16-27.

Arrangement of courses in this semester

Week	Contents
1	Introduction
2	228 連假補假 不上課
3	Chapter 1 - Introduction to Tourism as an Industry
4	Chapter 2 - Introduction to Quantitative Methods for Tourism Industry
5	Chapter 3 - Input-Output Model and its Application
6	Chapter 3 - Input-Output Model and its Application
7	春假 不上課
8	Software operation
9	Mid-term exam
10	Chapter 4 - Social Accounting Matrix Model and its Application
11	Chapter 4 - Social Accounting Matrix Model and its Application
12	Chapter 5 - Introduction to Tourism Satellite Accounts
13	Chapter 6 - Future Directions and Explorations
14	Environmentally Extended Input-Output Model
15	Environmentally Extended Input-Output Model
16	Software operation
17	Term paper presentation
18	Final exam

Rules:

- You need to have a notebook computer for the class exercise.
- No late homework will be accepted. All assignments are due at the beginning of class.
- No make-up exams will be granted unless with legitimate reasons.
- Be on-time for your classes and please turn-off your cell phone. It is a curtsey for your classmates and the teacher.
- 報告及作業請用再生紙列印，或雙面列印。節省紙張，保護地球!
- 請用釘書針裝訂及可，不需使用特殊裝訂或塑膠套子。