

Teaching guide

Subject identification

Subject	11495 - Analysis of Economic Impacts
Credits	0.72 de presencials (18 hours) 2.28 de no presencials (57 hours) 3 de totals (75 hours).
Group	Group 1, 1S (Campus Extens)
Teaching period	First semester
Teaching language	English

Professors

Lecturers	Horari d'atenció als alumnes					
	Starting time	Finishing time	Day	Start date	Finish date	Office
Elisabeth Valle Valle elisabeth.valle@uib.es	11:00	12:00	Wednesday	01/09/2016	31/07/2017	DB258

Contextualisation

The importance of tourism to economies is now well recognised. As a result, when tourism changes or policy shifts are being considered, there is an interest in determining what impact on the economy they might have. Techniques such as input-output analysis and social accounting matrix analysis are very commonly used to make estimates of the economic impact of changes in tourism expenditure. Tourism Satellite Accounts (TSAs) measures the contribution of tourism to the economy. Computable General Equilibrium (CGE) models go much further than the previous models and are now extensively used to estimate economics impacts of a wide variety of changes and policies.

Requirements

There is no requirements

Skills

Specific

- * CE4 - To be able to contribute to the planning, monitoring and evaluation of policies, programmes and projects oriented towards the improvement of the competitiveness and sustainability of a tourism company, destination or region.
- * CE7 - To be able to collect, generate, process and analyse statistical data to support monitoring and evaluation activities.

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- * CE10 - To develop skills that facilitate integration into labour markets related to the tourism industry and, especially, to the companies and institutions that monitor and evaluate projects and programmes in the tourism environment.

Generic

- * CG2- To develop an innovative capacity by applying the acquired knowledge to the resolution of problems in new environments related to the tourism sector.
- * CG7- To acquire specialized knowledge about the tourism system to make it possible to face challenges and provide solutions.
- * CG8 - To know how to apply information and communications technology (ICT) in the context of tourism projects.

Basic

- * You may consult the basic competencies students will have to achieve by the end of the Master's degree at the following address: http://estudis.uib.cat/master/comp_basiques/

Content

Theme content

I. Introduction

The growing role of tourism in the economy

The economic impact of tourism

II. System of European National Accounts and Regional Accounts

Introduction to the System of National Accounts

Main aggregates

Units of production and institutional units

Production activities

Distribution operations

Basic identities

III. The Input-Output framework

Concepts and structure of an I-O table

Technical coefficients

Determination of equilibrium quantities and economic impacts

Measurement of impacts on prices, production and employment

Measurement of impacts on profitability and productivity

GAMS exercises

IV. Tourism Satellite Accounts

Brief history of TSA

Key concepts

General compositions TSA

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V. Social Accounting matrix (SAM) and SAM models

Social accounting matrices

Accounting multipliers

Tourism multipliers

A comparison of input-output and SAM models

GAMS exercise

VI. An introduction to applied general equilibrium models

What's an AGE model

Design of an AGE model

Numerical specification

Policy simulations

GAMS exercises

Teaching methodology

In-class work activities

Modality	Name	Typ. Grp.	Description	Hours
Theory classes	Theory	Large group (G)	Introduction. System of European National Accounts and Regional Accounts. The input-output framework. Tourism Satellite Accounts. Social accounting matrix (SAM) and SAM models. An introduction to applied general equilibrium models.	10
Practical classes	Software	Large group (G)	GAMS	6
Assessment	Simple general equilibrium model	Large group (G)	Introduce unemployment (GAMS)	2

At the beginning of the semester a schedule of the subject will be made available to students through the UIBdigital platform. The schedule shall at least include the dates when the continuing assessment tests will be conducted and the hand-in dates for the assignments. In addition, the lecturer shall inform students as to whether the subject work plan will be carried out through the schedule or through another way included in the Campus Extens platform.

Distance education work activities

Modality	Name	Description	Hours
Individual self-study	Economic report	Report	10
Individual self-study	Functions	Maximization and minimization	10

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Modality	Name	Description	Hours
Individual self-study	Main aggregates	Manipulation of a symmetric table to obtain the main aggregates (GAMS)	10
Individual self-study	Simulation	Demand simulation and rasmussen indexes (GAMS)	10
Group or individual self-study	Studying	Study	17

Specific risks and protective measures

The learning activities of this course do not entail specific health or safety risks for the students and therefore no special protective measures are needed.

Student learning assessment

Simple general equilibrium model

Modality	Assessment
Technique	Student internship dissertation (non-retrievable)
Description	Introduce unemployment (GAMS)
Assessment criteria	You have to introduce unemployment in a simple applied general equilibrium model

Final grade percentage: 20%

Economic report

Modality	Individual self-study
Technique	Objective tests (non-retrievable)
Description	Report
Assessment criteria	You have to elaborate and economic report

Final grade percentage: 20%

Functions

Modality	Individual self-study
Technique	Objective tests (non-retrievable)
Description	Maximization and minimization
Assessment criteria	You have to maximize utility and minimize cost

Final grade percentage: 20%



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Main aggregates

Modality	Individual self-study
Technique	Objective tests (non-retrievable)
Description	Manipulation of a symmetric table to obtain the main aggregates (GAMS)
Assessment criteria	You have to obtain value added, production, intermediate demand. You have to obtain an inverse matrix in GAMS

Final grade percentage: 20%

Simulation

Modality	Individual self-study
Technique	Objective tests (non-retrievable)
Description	Demand simulation and Rasmussen indexes (GAMS)
Assessment criteria	You have to study what would be the consequences of a specific impact on the economy. You have to obtain Rasmussen indexes

Final grade percentage: 20%

Resources, bibliography and additional documentation

Basic bibliography

Hara, Tadayuki (2008) "Quantitative tourism industry analysis: introduction to input-output, social accounting matrix modeling and tourism satellite accounts" Amsterdam: Butterworth-Heinemann.

Complementary bibliography

- * Dwyer, L., P. Forsyth and R. Spurr, 2004. "Evaluating tourism's economic effects: new and old approaches", *Tourism Management*, 25, 307-317
- * Polo, C. and E. Valle, 2008. "A general equilibrium assessment of the impact of a fall in tourism under alternative closure rules: the case of the Balearic Islands", *International Regional Science Review*, 31(1), 3-34.
- * Polo, C. and E. Valle, 2008. "An assessment of the impact of tourism in the Balearic Islands", *Tourism Economics*, 14 (3), 615-630.
- * Polo, C. and E. Valle, 2012. "Input-Output and SAM Models" in *Handbook of Research Methods in Tourism. Quantitative and Qualitative Approaches* L. Dwyer, A. Gill and N. Seetaram (eds.). pp: 227-260 (ISBN 9781781001288) Edward Elgar Publishing
- * Pyatt, G., 1998, "A SAM approach to modelling", *Journal of Policy Modelling*, 10(3), 327-352
- * Valle, E. and M. Yobesia, 2009: "Economic Contribution of Tourism in Kenya" *Tourism Analysis*, vol. 14, (3). 401-414
- * Wagner, J.E., 1997 "Estimating the economic impacts of tourism", *Annals of Tourism Research*, 24(3), 592-608

