

Syllabus

Subject

Subject / Group	11495 - Analysis of Economic Impacts / 1
Degree	Master's in Economics of Tourism: Monitoring and Evaluation
Credits	3
Period	2nd semester
Language of instruction	English

Professors

Lecturers	Office hours for students					
	Starting time	Finishing time	Day	Start date	End date	Office / Building
Elisabeth Valle Valle elisabeth.valle@uib.es	11:00	12:00	Thursday	01/09/2019	31/07/2020	DB258

Context

The importance of tourism to economies is 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 measures the contribution of tourism to the economy. Computable General Equilibrium 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
- * 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

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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

Range of topics

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

V. Social Accounting matrix (SAM) and SAM models

Social accounting matrices

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- 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 (0.72 credits, 18 hours)

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 government (GAMS)	2

At the beginning of the semester a schedule of the subject will be made available to students through the UIB digital 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 Aula Digital platform.

Distance education tasks (2.28 credits, 57 hours)

Modality	Name	Description	Hours
Individual self-study	Rasmussen	Rasmussen indexes (GAMS)	10
Individual self-study	Simulation	Demand simulation (GAMS)	10
Individual self-study	Economic report	Report	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
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

Frau en elements d'avaluació

In accordance with article 33 of Regulation of academic studies, "regardless of the disciplinary procedure that may be followed against the offending student, the demonstrably fraudulent performance of any of the evaluation elements included in the teaching guides of the subjects will lead, at the discretion of the teacher, a undervaluation in the qualification that may involve the qualification of "suspense 0" in the annual evaluation of the subject".

Simple general equilibrium model

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

Final grade percentage: 20%

Rasmussen

Modality	Individual self-study
Technique	Objective tests (non-retrievable)
Description	Rasmussen indexes (GAMS)
Assessment criteria	You have to obtain Rasmussen indexes

Final grade percentage: 20%

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Simulation

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

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%

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%

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 economics 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





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* Wagner, J.E., 1997 "Estimating the economic impacts of tourism", *Annals of Tourism Research*, 24(3), 592-608

