



Master in Industrial Organization and Markets

Specialization Course Transport Economics

10th Edition (2009/2010)

Universidad Carlos III de Madrid
Centro de Ampliación de Estudios

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Master in Industrial Organization and Markets
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PRESENTATION AND OBJECTIVES

The Specialization Course in Transport Economics offers the necessary tools to have a general view of how this economic sector works. The case of Spain is particularly relevant due to the liberalization experiences within the international context. All modes of transport, urban, metropolitan, railway, road, ship and air, have been subject to deregulation.

The program has been designed to highlight the particularities of this sector as well as its most modern trends, and has benefited from the advising of firms in the sector.

The course is structured in five modules. The first module introduces a general view of the problems that constitute the major interest in Transport Economics. The second module studies the different modes of transport, using the foundations of Economic Theory in the discussion. The last three modules are devoted to the analysis of topics such as congestion, tariffs, intermodal transport, methodology of transport studies, and case studies of interest.

ORGANIZATION

The Specialization Course on Transport Economics is taught in 90 hours, distributed along the academic year of 2009/2010 from November 2009 till June 2010. All classes are scheduled from 16:00 till 20:00 hours.

SCHEDULE AND LOCATION

Classes run from 16:30 till 20:00 and will take place in building Luis Vives in the Getafe Campus of the Universidad Carlos III de Madrid, located in Street Madrid, 126, Getafe 28903.

REGISTRATION FEES

Registration fee (including seminars and practical classes) is 2,800 euros. Total fee can be divided in payments due at the beginning of each quarter.

DIRECTION COUNCIL AND FACULTY

Direction Council of the Specialization Course in Transport Economy: Álvaro Escribano (Universidad Carlos III de Madrid), Carlos Yáñez (RENFE Operadora), Carlos Huesa (ALSA GRUPO), Carlos Zapatero (Fundación de los Ferrocarriles Españoles) and Julián García Valverde (IMATHIA Consultores).

Because of the practical orientation of the course, the faculty is composed by both qualified professionals and professors with research experience in the sector.

PROGRAM

MODULE 1: TRANSPORT ECONOMICS

Overview of the major problems in Transport Economics, from the perspective of both the supply and the demand. The main issues are concerned with the production technology of the transport activities, transport costs, principles of tariff systems, and the structure and organization of markets for the different transport modes. The last two sessions will deal with the analysis and modeling of transport demand.

MODULE 2: TRANSPORT MODES

Analysis of the different modes of transport. Special attention is given to all aspects of organization, economic, and technological issues that shape the sector in Spain.

- Urban and metropolitan
- Intercity transport
- Railway
- Ship
- Air

MODULE 3: TARIFF SYSTEMS, INFRASTRUCTURE AND CONGESTION

Study of the different criteria to establish tariff systems and services in the sector. Evaluation of investments in infrastructure. Analysis and treatment of externalities in transport activities (congestion, environmental effects, accidents,...).

MODULE 4: LOGISTICS AND TRANSPORT

The different modes of transport are becoming more interrelated in the present times. The logistics and the integrated modes are key elements to understand the new trends.

MODULE 5: METHODOLOGY FOR TRANSPORT STUDIES

Practical application of the quantitative techniques commonly used in transport studies. These techniques answer the need for analysis, forecasting, simulation, and evaluation as posed by institutions and organisms connected to transport planning and by operating firms in the sector.

Case study I: Analysis of mobility.

Case study II: Study of demand in a High Velocity railway.