

Social Impacts of the Public Constructions (250259)

General information

School:	ETSECCPB
Departments:	Departament d'Infraestructura del Transport i del Territori (ITT)
Credits:	4.5 ECTS
Programs:	GRAU EN ENGINYERIA D'OBRES PÚBLIQUES, pla 2010 - (codi pla 791)
Course:	2014/2015
Course language:	Català

Faculty

Responsible faculty: Miriam Villares Junyent

Teachers: Elisabeth Roca Bosch, Miriam Villares Junyent

Generic objectives

To provide students with basic knowledge in the area of the social impact of public works from different methods of analysis and case studies. Understand the basic concepts used in the field of civil engineering planning. Knowing the main effects of infrastructure in urban and understand the effect modifier producing infrastructure on the territory, potential and weaknesses of cause and effect relationship.

Skills

Generic skills of subject

SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

ECTS credits: total hours of student work

		Dedication	
		Hours	Percent
Supervised Learning	Theory	28.00	56.6%
	Assignments	6.00	12.1%
	Laboratory	11.00	22.2%
	Supervised activities	4.50	9.1%

Self-Learning	63.00	
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Contents

THE SOCIAL IMPACTS OF PUBLIC WORKS

Dedication

6.0h. Theory + 6.0h. Assignments + 11.0h. Laboratory

Description

Definition and concept of social impact. The social perception of impacts. The historical and territorial context of social awareness.

The content of impact assessment studies. The assessment of social and urban issues. The valuation methods: quantitative and qualitative.

Description and analysis of key legal texts

The content of impact assessment studies. The assessment of social and urban issues. The valuation methods: quantitative and qualitative.

Demographic analysis: age structure, family structure, socio-professional, etc..territorial distribution and trends. Status and population trends in Catalonia

Conduct a practical exercise

The social structure. Stakeholders / social agents

Analysis of the conflict: origins, types, effects ...

Methods to minimize conflict: consensus and participation

Methods to characterise and define impacts

Objectives

Introducing the subject. Making the student understand the transformative potential of public works on territory and society. Explain the context of these from the second half of S. XX to the present.

To understand the impact of public works projects on the physical, social and ecological environment from different valuation methods. To present the main methodological tools. To understand the administrative procedure of the current legislation.

Disseminating the legislation and the administrative hierarchy in the different territories.

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Exercise identification and classification of actors

Financial Analysis

Exercise assessment

Social and Environmental impacts in the urban environment

Dedication

10.0h. Theory

Description

Classification and description of the effects of major infrastructures in urban areas

The study of the environment: the affected neighborhoods. Identification and description of the impacts: barrier effect, visual impact, impact on landscape, noise, impact on community facilities. The impacts on the construction period. Measures taken. The transformations produced.

Study of the affected neighborhoods. Analysis of proposals and solutions adopted. The transformations of urban form.

Objectives

To disseminate the main effects of infrastructures based on the analysis of the changes that have occurred in the city

Understand and reflect on the effects of the urban infrastructure

The social, economic and environmental infrastructure on the territory

Dedication

12.0h. Theory

Description

Direct effects on the construction period and on the management of infrastructures.

Induced effects on economic activities and sectors of production (industrial location, the creation of technology parks, tertiary and commercial location, the transformations in the agricultural sector, in the tourism sector).

The impacts on the hierarchy of cities and the residential expansion and concentration

The background: planning and projects in the Llobregat corridor. The evolution of the road structure of Catalunya, Pyrenees connexion and international route. Economic impacts: impacts on the territory structure. Changes in production structure.

Case study of the Ebro Delta canalization. Evolution and transformation of the delta. The social, economic and institutional agents. The effects on the population, agriculture, environment protection. Transformations: the case of mini water transfer to Tarragona, the water conflicts and the consequences of PHN.

Case study of intervention in beach renourishment. Description of the coastal environment, uses and problems of the Catalan coast. Technical assistance and management of beaches. The

effects of change.

Objectives

To understand the modifying effect of infrastructures on the territory, their strengths and weaknesses. Positive and negative effects.

Understanding the effect modifier interventions and actions that occur on the open techniques, potentials and weaknesses of the relationship between cause and effect.

Activities

Departure visit work, focus or exposure

Dedication

4.5 h. Supervised activities

Description

During the year we make a scheduled departure to

Grading rules

The mark of the course is obtained from the ratings of continuous assessment and their corresponding laboratories and/or classroom computers.

Continuous assessment consist in several activities, both individually and in group, of additive and training characteristics, carried out during the year (both in and out of the classroom).

The teachings of the laboratory grade is the average in such activities.

The evaluation tests consist of a part with questions about concepts associated with the learning objectives of the course with regard to knowledge or understanding, and a part with a set of application exercises.

Criteria for re-evaluation qualification and eligibility: Students that failed ordinary evaluation and have been regularly attending tests throughout the course will have the option to perform a re-evaluation test during the period specified in the academic calendar. The highest mark for the subject in the case of attending the evaluation exam will be five. In the case of justified absences to the regular evaluation tests that prevent the assessment of some parts of the contents of the subject, with prior approval of the Head of Studies, students may get evaluated by the re-evaluation test of the contents that have not been previously examined as well as the contents whose tests students have failed. The limitation on the maximum mark shall not apply to the parts assessed for the first time.

Test rules

Failure to perform a laboratory or continuous assessment activity in the scheduled period will result in a mark of zero in that activity.

Teaching methodology

The course consists of 2.3 hours per week of classroom activity (large size group) and 0.7 hours weekly with half the students (medium size group).

The 2.3 hours in the large size groups are devoted to theoretical lectures, in which the teacher presents the basic concepts and topics of the subject, shows examples and solves exercises.

The 0.7 hours in the medium size groups is devoted to solving practical problems with greater interaction with the students. The objective of these practical exercises is to consolidate the general and specific learning objectives.

Support material in the form of a detailed teaching plan is provided using the virtual campus ATENEA: content, program of learning and assessment activities conducted and literature.

Office hours

Thursday, 12 to 14 h.

Basic bibliography

- Riera, P. **Avaluació d'impacte ambiental**. Generalitat de Catalunya, Departament de Medi Ambient : Rubes. Barcelona. 2000. ISBN 84-497-0086-8.
- Alba Nogueira (dir). **Evaluación del impacto ambiental**. Atelier. Barcelona. 2009. ISBN 978-84-9675889-6.
- Enric Pol. **Impacte social, comunicació ambiental i participació**. Departament de Medi Ambient Generalitat de Catalunya. Barcelona. 2000. ISBN DL:B.50.949-2000.
- Mercedes Pardo. **La evaluación del impacto ambiental y social para el siglo XXI**. Ed Fundamentos. Madrid. 2002. ISBN 84-245-0944-7.

Complementary bibliography

- Miriam Villares, Elisabet Roca et al.. **Transiciones Ambientales y Participación**. Amarú Ediciones. Salamanca. 2012. ISBN 978-84-8196-347.
- Oriol Nel.lo. **Aquí no**. Empúries. Barcelona. 2003. ISBN 84-7596-380-3.
- SCOT. **Anuari Territorial de Catalunya**. SCOT. Barcelona. 2003-2004-2005-2006-2007-2008-2009-2010-2011-2012. ISBN 978-84-9965-012-8.