

Workshops and Research Seminars (250702)

General Information

School	ETSECCPB
Departments	Departament d'Enginyeria Civil i Ambiental (DECA)
Credits	5.5 ECTS
Programs	MÀSTER UNIVERSITARI EN ENGINYERIA ESTRUCTURAL I DE LA CONSTRUCCIÓ (pla 2015)
Course	2024/25

Main teaching language at each group

- Group 10ES1 Spanish (Q1)
- Group 20EN2 English (Q2)

Faculty

Responsible Faculty: Eva Maria Oller Ibars

Faculty: Jesús Miguel Bairán García, Rolando Antonio Chacón Flores, Noemí Duarte Gómez, Juan Murcia Delso, Eva Maria Oller Ibars, Nikola Tosic

Objectives of Education

Subject to know the latest trends in research related to structural engineering and construction and other cross-cutting issues

- Latest trends in research related to structural engineering and construction.
- Software related to structural analysis and management of structures .
- Aspects related to the development of the master thesis: scientific method, writing scientific and technical documents, using database to search scientific articles for the development of state of the art.
- Workshops on the structural engineering design.

Total hours of student work

		Hours	Percentage
Supervised Learning	Large group	28.05 h	56.66 %
	Medium group	10.73 h	21.67 %
	Laboratory classes	10.73 h	21.67 %
	Guided Activities	0.0 h	0.00 %
Self Study		88.0 h	

Contents

Computer programs

Matlab
SAP2000
SAP2000. Case study
MIDAS Civil
MIDAS Civil. Case study

Escola de Camins

BIM Software
BIM software. Case study
Software IdeaStatica and Diamonds
Software Idea Statica and Diamonds. Case study

Workshops

Conceptual design workshop
Workshop project conception

Subjects related with the master thesis

Gathering information and bibliography
References
How to write scientific and technical documents
Making presentations
Budget of a project
Budget of a project. Case study

Research Seminars

Research seminars

Teaching Methodology

The course consists of 3 hours per week of classroom activity (large size group).

The course consists of conducting group workshops on different topics that are included in the contents and sessions of this guide, which are transversal to other subjects of the Master.

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.

In the case of the group in English, some workshops where an external expert is invited will be held in Spanish if the guest expresses himself better in that language.

Although most of the sessions will be given in the language indicated, sessions supported by other occasional guest experts may be held in other languages.

Grading Rules

() The evaluation calendar and grading rules will be approved before the start of the course.*

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.

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.

Office Hours

The schedule of consultations is on wednesday from 12 to 14h in room C1 201.

Bibliography

Basic

- Área de Informática del ITeC. Departamento de Soporte Técnico y Formación. [TCQ2000 ITeC : guía de iniciación](#). Barcelona: Institut de Tecnologia de la Construcció de Catalunya, ITeC, 2015. ISBN 9788478536450.
- Midas. Midas User Manual. 2006.
- CSI Computers and structures. Manual de Sap 2000.