Course guide
250809 - 250809 - Seminars

Last modified: 25/01/2024

Unit in charge: Barcelona School of Civil Engineering
Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering.

Degree: MASTER'S DEGREE IN GEOTECHNICAL ENGINEERING (Syllabus 2015). (Optional subject).

Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: ANNA RAMON TARRAGONA

Others: ANNA RAMON TARRAGONA

TEACHING METHODOLOGY

Channels of dissemination of scientific and technical information, techniques for oral and written presentations, tools for bibliographic search and reference management are presented in the lectures.

The student attends seminars and must write a summary of each one. Moreover, each student must write a scientific paper and present it orally in class.

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.

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.

LEARNING OBJECTIVES OF THE SUBJECT

To conceive soils and rocks as porous media governed by Solid and Fluid Mechanics.
To interpret laboratory tests and field observations so as to identify the mechanisms responsible for soil response. To propose laboratory testing programmes.
To formulate and implement Finite Element and Finite Differences numerical models with the objective to analyze the processes that govern ground response, to interpret field information and to predict soil response.

* To apply oral presentation techniques.
* To use advanced calculation tools to analyze Civil Engineering problems, design big-scale models and suggest design solutions for prototypes.
* To know and be able to use advanced techniques to geo-referentially represent data.
* To have powerful tools for the geospatial analysis of geo-referentiated data.

The student attends a series of seminars on Geo-Engineering, presents orally a critical analysis of both the content and the form of the presentation and delivers a report of the work. Seminars can be organized on a regular basis in the educational institution or seminars available online in the web of reknown institutions of (Webinars) .

* Apply techniques of oral and written presentations
* Know the media for diffusion of scientific and technical information
* Know and use tools for management of bibliographic references
* Know and use databases to search for scientific and technical information relating to geotechnical engineering.

The student attends a series of seminars on Geotechnical Engineering. They include seminars organized regularly in the educational institution or seminars available online on the web of renowned institutions (Webinars). He presents a critical analysis of both the content and form of presentation and delivery a written work in the format of a scientific article.

STUDY LOAD

Type	Hours	Percentage
Hours small group	9,8	7.83
Self study	80,0	63.95
Hours large group	25,5	20.38
Hours medium group	9,8	7.83

Total learning time: 125.1 h

CONTENTS

Introduction

Description:
Course presentation

Specific objectives:
Introducing the course

Full-or-part-time: 7h 11m
Theory classes: 3h
Self study : 4h 11m

Preparation of written documents

Description:
Preparation of written documents
Review of scientific and technical documents

Full-or-part-time: 28h 47m
Theory classes: 9h
Laboratory classes: 3h
Self study : 16h 47m

Search of bibliographic information

Description:
Search of bibliographic information

Full-or-part-time: 7h 11m
Theory classes: 3h
Self study : 4h 11m

Reference Management

Description:
Reference Handling (Mendeley)

Full-or-part-time: 7h 11m
Theory classes: 3h
Self study : 4h 11m

Preparation of oral presentations

Description:
Preparation of oral presentations

Full-or-part-time: 21h 36m
Theory classes: 6h
Laboratory classes: 3h
Self study : 12h 36m

Preparation of proposals for research projects

Description:
Research proposals

Full-or-part-time: 21h 36m
Theory classes: 6h
Laboratory classes: 3h
Self study : 12h 36m

GRADING SYSTEM

The mark of the course is obtained from the ratings of continuous assessment.

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 final grade is established with the following weights:

0.30 [Average weekly summaries]
0.30 [Oral presentation (25 min)]
0.30 [Paper (20 pages)]
0.05 [Oral presentation (5 min)]
0.05 [Summary (1 page)]

EXAMINATION RULES.

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

BIBLIOGRAPHY

Basic:
- Derricourt, Robin. An Author's guide to scholarly publishing. Princeton (N.J.): Princeton University Press, cop. 1996. ISBN 0691037094.
- Rubio, Joana; Puigpelat, Francesc. Com parlar bé en públic. Barcelona: Mina, 2010. ISBN 9788499301402.