Course guide
250967 - HABCOM-II - Communication Skills 2

Unit in charge: Barcelona School of Civil Engineering
Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering.
Degree: MASTER'S DEGREE IN NUMERICAL METHODS IN ENGINEERING (Syllabus 2012). (Compulsory subject).
ERASMUS MUNDUS MASTER'S DEGREE IN COMPUTATIONAL MECHANICS (Syllabus 2013). (Optional subject).
Academic year: 2022  ECTS Credits: 5.0  Languages: English

LECTURER
Coordinating lecturer: NARGES DIALAMI SHABANKAREH
Others: NARGES DIALAMI SHABANKAREH

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES
Specific:
8382. Experience in numerical simulations. Acquisition of fluency in modern numerical simulation tools and their application to multidisciplinary problems engineering and applied sciences.
8383. Interpretation of numerical models. Understanding the applicability and limitations of the various computational techniques.
8384. Experience in programming calculation methods. Ability to acquire training in the development and use of existing computational programs as well as pre and post-processors, knowledge of programming languages ??and of standard calculation libraries.

TEACHING METHODOLOGY
The course will alternate lectures and practical classes in which students present their oral or written work.

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
The objective of the module is to help the students identify the important aspects of the preparation of scientific works and papers, while improving their written communication skills.

* To learn the methodology to elaborate the structure of a scientific text. * To identify the key aspects for preparation of research works and articles. * To rationally use computational techniques for the preparation and presentation of scientific works. * To be able to adapt the work to a deadline, summarizing and organizing complex ideas to clarify them upon their presentation to an audience, improving their comprehension.

* Written communication: Reports, thesis, magazines and articles in conferences Learning resources: notes

This course will give you the guidelines to improve your ability in creating well-crafted academic communication. The guidelines on how to create good oral presentation as well as journal papers or scientific reports will be given. An overview on how to design a research poster will be treated as well.

You will practice your communication skills during the course and you will receive feedback from your colleagues and from the lecturers.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guided activities</td>
<td>5,0</td>
<td>4.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>20,0</td>
<td>16.00</td>
</tr>
<tr>
<td>Self study</td>
<td>80,0</td>
<td>64.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>20,0</td>
<td>16.00</td>
</tr>
</tbody>
</table>

**Total learning time:** 125 h

CONTENTS

**Introduction**

*Description:* Introduction

**Full-or-part-time:** 4h 48m
- Theory classes: 2h
- Self study: 2h 48m

**aspects of oral and written communication**

*Description:*
- Oral presentations, tips and tricks
- Long writing - The scientific reporting
- Poster basics

**Full-or-part-time:** 43h 12m
- Theory classes: 18h
- Self study: 25h 12m

**Group Practices**

*Description:*
- Oral presentation
- Extended abstract
- Poster

**Full-or-part-time:** 48h
- Laboratory classes: 20h
- Self study: 28h

**GRADING SYSTEM**

The mark of the course is obtained from the ratings of continuous assessment made in class and at home.

Continuous assessment consists in several activities, both individually and in group, of additive and training characteristics, carried out during the year.
EXAMINATION RULES.

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

BIBLIOGRAPHY

Basic: