Course guides
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: 2020  ECTS Credits: 5.0  Languages: English

TECTURER

Coordinating lecturer: NARGES DIALAMISHABANKAREH

Others: NARGES DIALAMISHABANKAREH

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

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>Self study</td>
<td>80,0</td>
<td>64.00</td>
</tr>
<tr>
<td>Theory classes</td>
<td>20,0</td>
<td>16.00</td>
</tr>
<tr>
<td>Guided activities</td>
<td>5,0</td>
<td>4.00</td>
</tr>
<tr>
<td>Laboratory classes</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:
- Larese, A. Apuntes de clase.