



M0.200	Introduction to Research Dissemination	Oct 15 Feb 16	Credits: 6.0
Subject coordinator	Carles Ventura Royo		
Tutors	Fernando Vilariño Freire and Joaquim Clara Rahola		

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Presentation

Description

Introduction to research dissemination seeks to introduce students to the process of dissemination of results. This process will be divided into two areas:

- The oral presentations made, with quality standards at the level of formal content, oral and through correct use of nonverbal language.
- The writing of scientific papers for publication in journals and conference proceedings. This process covers both the academic writing style, the acquisition of competences in the use of writing tools for scientific dissemination (LaTeX), and the knowledge of the publication pipeline

Finally we will deal with some important issues regarding ethical issues in research and plagiarism

The subject within the syllabus as a whole

The course as a part of the master in Computer Vision deals with the non vision-based and transversal aspects of research dissemination. This module 7 is completely independent in terms of contents (although not in terms of activities) from Modules 1-4 that are simultaneously offered by the other 3 Universities of the consortium

Professional fields to which it applies

This master has two main objectives:

1. **Training of researchers.** After this master students will be able of enrolling doctoral program in any of the participating universities or other universities in the field of computer vision.

2. **Training of professionals.** After this master students will be able to transfer knowledge derived from cutting-edge research in computer vision to companies that use this technology. They will be also able to create new companies.

There are several applications of computer vision to business. For instance, the design and development of tools in the fields of automatic medical diagnosing, surgery assistance, automatic vehicle driving, quality control using machine vision, automated surveillance, monitoring, human-computer interaction.

The master is addressed to local students and students from outside the influence area of Barcelona.

Prior knowledge

This course requires no prior knowledge on the topics, although some basic knowledge in video recording is advisable.

Information prior to enrolment

In the whole master it is highly recommended that students have knowledge of algebra, probability and statistics, and algorithmics. During the master examples will be essentially implemented using Matlab and Python. In this particular Module, we do not require these competences explicitly, although they will be used in the projects run in parallel in Modules 1-2, and Modules 3-4, which will be the base for the project presentations in this course. We will require basic knowledge in recording videos from cameras, Webcam or even moderate quality cell phones to complete the presentations in the course.

It also requires some knowledge of English equivalent to B1 of the European Framework of Reference for Languages.

Learning objectives and results

Competences:

The main competences of the course will consist on:

Basic competences:

A) Students should be able to integrate knowledge and handle complexity, and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.

B) That students should be able to communicate their conclusions and the knowledge underlying their work to specialist and non-specialist audiences in a clear and unambiguous way.

Specific competences

C) Communicate and disseminate the results and findings of the investigation.

D) Knowing how to make an oral presentation of a technical nature.

E) Knowing how to prepare a scientific paper using standard editing tools.

General competences

F) Practice the profession with awareness of its human dimension, economic, legal and ethics and a clear commitment to quality.

G) Work in multidisciplinary teams.

Content

The course will be divided in 5 different topics, with specific activities that will be assessed at the end of each module. Essentially the syllabus will be:

1. - Edition of scientific texts: LaTeX
2. - Presentation of research results
 - a. Information and Format
 - b. Oral Presentations
3. Writing scientific papers
 - a. Scientific Text
 - b. Style
4. Publication of research results
 - a. Journals and conferences
 - b. The publishing process
 - c. The relevance and impact of a publication
5. Ethics in R & D

Resources

View the materials used in the subject

Material	Support
Publishing research	PDF

Figures	Audiovisual
Bibliography	Audiovisual
Latex Basics	Audiovisual
Presenting your research	PDF
Tables in LaTeX	Audiovisual
Tools to support research	PDF
Math Formulae in LaTeX	Audiovisual
Writing scientific papers	PDF

Materials and support tools

The materials located in space Classroom **resources** will help further the goals of the course.

The tutors will use the Message Board, which is classroom space communication, and will provide documents and other information to complement previous and explanatory videos on specific topics.

Methodology

The teaching methodology will be based in the continuous assessment of a set of activities that will be provided in the virtual campus. This is an activity based online course, you fix your own pace and you decide when you dedicate your time to the module. There are only specific deadlines for delivering the activities. Essentially you will be provided by:

- A set of learning resources: video lectures, pdf documents and examples.
- Specific delivery instructions for each activity.

The student is supposed to visualize the video lectures and resources, and ask any doubt in the forum boards of the course. The active participation in the forum, asking questions, answering questions from other students and posting opinions in the open debates is highly recommended in the course.

You will have academic tutors that will answer your questions in the forum boards, and they will guide you through the learning process. Many of the activities delivered will be corrected and appropriate feedback will be provided.

The nature of this course is very challenging, and one of the key competences in the module is the delivering of successful oral presentations. Students should prepare an appropriate environment to record themselves delivering oral presentations. The basic methodology of the course is learning practicing.

Assessment

Guidelines on assessment at the UOC

The UOC's Academic Regulations indicate that the assessment process is founded on individual work by the student, presuming authentic authorship and originality in the exercises carried out.

An absence of originality in authorship or abuse of the conditions in which assessment of the subject takes place represent offences that can have serious academic consequences.

The student will be awarded a fail mark (D/0) if an absence of originality is detected in answering an assessment activity (practicum, continuous assessment test (CAT), final assessment test (FAT) or that established in the course plan). This may relate to use of unauthorized materials or devices, the copying of text from the internet, the copying of notes, materials, manuals or articles (without the corresponding citation), copying from another student, or for any other improper behaviour.

A fail mark (D/0) in final continuous assessment may entail an obligation to sit an exam in person in order to pass the course (if there is an exam and passing it is enough to pass the course, as indicated in the course plan).

If improper behaviour occurs when taking a final test in person, the student may be sent out of the room, and the examiner will keep a record of all information and other elements relevant to the case.

In addition, this behaviour may lead to the start of a disciplinary process and, where appropriate, the application of the corresponding sanction.

The UOC will employ whatever mechanisms it considers appropriate to safeguard the quality of its study programmes and ensure excellence and quality in its educational model.

View assessment model

Aquesta assignatura només es pot superar a partir de l'avaluació contínua (AC). La nota final d'avaluació contínua esdevé la nota final de l'assignatura. La fórmula d'acreditació de l'assignatura és la següent: AC.

Option to pass the course: Continuous assessment

End of course: Continuous assessment

Continuous assessment

The course will have 5 deliverables for the continuous assessment. The student will have access to the wordings in the activity centered virtual classroom. In addition, the student might be asked to participate in debates or short Quizzes to complete the evaluation.

Final evaluation

And the final mark will be obtained by a weighted combination of the grades of each activity. By a way of guidance, we are planning to use the following weights:

Final Mark = $0.4 \times \text{Oral presentations} + 0.2 \times \text{LaTeX skills} + 0.2 \times \text{Writing style} + 0.1 \times \text{Ethics in research} + 0.1 \times \text{Research dissemination tools}$.

where:

Oral presentations: Is a grade obtained in the short presentation at the beginning of the module (0.05) + the grade obtained after the presentation of modules 1/2 (0.15) + the grade of the final presentation of modules 3/4 (0.20)

LaTeX skills: is the mark obtained from the written report from modules 1/2, checking only the rich use of LaTeX.

Writing style: is the mark obtained from the written report from modules 1/2, checking the writing style.

Ethics in research: is the mark obtained in a debate participation.

Research dissemination tools: is the mark obtained in a Quizz to grade the activity.

Feedback

Students will receive specific feedback after the completion of each activity.

Key dates

Name	Start / Presentation	Submission	Feedback	Mark
Name: Introduction to Latex: edition of a basic text	Start / Presentation 20/10/2015	Submission 26/10/2015	Feedback 30/10/2015	Mark 30/10/2015
Name: Advanced LaTeX: Standard text edition	Start / Presentation 02/11/2015	Submission 09/11/2015	Feedback 13/11/2015	Mark 13/11/2015
Name: Oral Presentation: introduce yourself	Start / Presentation 07/11/2015	Submission 12/11/2015	Feedback 13/11/2015	Mark 14/11/2015
Name: Oral presentation: introduction to human and computer vision (Module 1)	Start / Presentation 13/11/2015	Submission 26/11/2015	Feedback 27/11/2015	Mark 28/11/2015
Name: Writing Scientific Texts: simplifying a scientific document	Start / Presentation 01/12/2015	Submission 13/12/2015	Feedback 13/12/2015	Mark 16/12/2015
Name: Writing Scientific Texts: introduction to computer vision (Module 1)	Start / Presentation 14/12/2015	Submission 22/12/2015	Feedback 23/12/2015	Mark 26/12/2015
Name: Publishing Research Results: quiz test	Start / Presentation 09/01/2016	Submission 22/01/2016	Feedback 25/01/2016	Mark 25/01/2016
Name: Writing of Scientific Texts: machine learning techniques for computer vision (Module 3 or Module 4)	Start / Presentation 23/12/2015	Submission 06/02/2016	Feedback 07/02/2016	Mark 08/02/2016
Name: Oral Presentation: machine learning techniques for computer vision (Module 3 or Module 4)	Start / Presentation 27/11/2015	Submission 07/02/2016	Feedback 08/02/2016	Mark 09/02/2016
Name: Ethics in Research: Debate	Start / Presentation 22/01/2016	Submission 10/02/2016	Feedback -	Mark 14/10/2015

Name	Start / Presentation	Submission	Feedback
Name: Course Welcome	Start / Presentation: 14/10/2015	Submission: 15/10/2015	Feedback: -
Name: Edition of scientific texts: LaTeX	Start / Presentation: 15/10/2015	Submission: 19/10/2015	Feedback: -
Name: Oral Presentations	Start / Presentation: 05/11/2015	Submission: 06/11/2015	Feedback: -
Name: Writing Scientific Texts	Start / Presentation: 29/11/2015	Submission: 30/11/2015	Feedback: -

Name: Ethics in Research	Start / Presentation: 20/01/2016	Submission: 21/01/2016	Feedback: 15/02/2016
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