Research Dissemination

Code: 43084
ECTS Credits: 6

Degree	Type	Year	Semester
4314099 Computer Vision	OB	0	1

Contact

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External teachers

Joaquim Clara Rahola

Use of Languages

Principal working language: english (eng)

Prerequisites

Degree in Engineering, Maths, Physics or similar

Objectives and Contextualisation

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 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.

The main competences of the course will consist on:

- Basic competences:
  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.
  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:
  Communicate and disseminate the results and findings of the investigation.
  Knowing how to make an oral presentation of a technical nature.
  Knowing how to prepare a scientific paper using standard editing tools.

- General competences:
  - Practice the profession with awareness of its human dimension, economic, legaland ethics and a clear commitment to quality.
  - Work in multidisciplinary teams.

Competences

- Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Recognise the human, economic, legal and ethical dimension of the profession and show a clear commitment to quality in the objectives.

Learning Outcomes

1. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
2. Give an oral presentation and write an article of a scientific and technical nature.
3. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
4. Recognise the human, economic, legal and ethical dimension of the profession and show a clear commitment to quality in the objectives.

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

- Information and Format
- Oral Presentations

3. Writing scientific papers

- Scientific Text
- Style

4. Publication of research results

- Journals and conferences
- The publishing process
- The relevance and impact of a publication

5. Ethics in R & D

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, where the student fix his own pace and he decides when he dedicates his time to the module. There are only specific deadlines for delivering the activities. Essentially the student 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.

The student will have academic tutors that will answer your questions in the forum boards, and they will guide him 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.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Edition of scientific texts: LATEX	10	0.4	1
Ethics in Research	5	0.2	3, 4
Oral presentations	15	0.6	2
Writing Scientific Texts	15	0.6	2, 1

Assessment

The final marks for this module will be computed with the following formula:

Final Mark = 0.4 x Oral presentations + 0.2 x LaTeX skills + 0.2 x Writing style + 0.1 x Ethics in research + 0.1 x 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 and modultes 3/4, checking only the rich use of LaTeX.
Writing style: is the mark obtained from the written report from modules 1/2 and modules 3/4, 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.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Ethics in Research: Debate	10%	10	0.4	3, 4
Oral Presentation: introduce yourself	5%	5	0.2	2

Oral Presentation: machine learning techniques for computer vision	20%	20	0.8	2
Oral presentation: introduction to human and computer vision (Module 1)	15%	20	0.8	2
Publishing Research Results: quiz test	10%	10	0.4	4
Writing Scientific Texts: introduction to computer vision	10%	20	0.8	2, 1
Writing of Scientific Texts: machine learning techniques for computer vision	10%	20	0.8	2, 1

Bibliography

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.