

Master's Dissertation

Code: 44042
ECTS Credits: 12

Degree	Type	Year	Semester
4313785 Aeronautical Management	OB	0	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: spanish (spa)

Prerequisites

Have completed and passed at least 70% of the credits of subjects (modules) of the master (excluding the Final Master Thesis).

Objectives and Contextualisation

This is a practical module, whose main purpose is that the student applies all, or a good part, of the knowledge acquired throughout the master in a specific case.

The student must design, prepare and write a research or applied work within any of the areas of the Master, or a combination of these, and make a presentation of the results achieved.

Competences

- Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- Conduct an original, innovative project on a problem related to the aeronautical sector.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Organise, plan and manage projects.
- Seek out new areas to open up within the field.
- Solve complex problems by adopting a rigorous, efficient approach.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.

Learning Outcomes

1. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
2. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
3. Organise, plan and manage projects.

4. Planificar y desarrollar proyectos de innovación en temáticas propias del ámbito de la gestión aeronáutica.
5. Seek out new areas to open up within the field.
6. Solve complex problems by adopting a rigorous, efficient approach.
7. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.

Content

Description and organization of work

Students decide according to their interests, and with the collaboration of the master's coordinator (if required), the subject of their work. Depending on it, the coordinator assigns the student an academic director (master's teacher) of the work.

In the first interview with the academic director, the conditions of follow-up are set: the work theme is specified, the main aspects of development are discussed and the work plan is established, including the follow-up calendar. Periodic meetings are held throughout the development period in which the principal ensures that the student adequately follows the established work plan. Likewise, the principal advises the student regarding the correct structuring and quality parameters to be considered in the writing of the student's work report. At the end of the work, the director prepares a report assessing the follow-up. This report is made available to the Final Master Thesis (TFM) evaluation commission, as it constitutes one of the evaluation elements.

There is the possibility of realizing the TFM within one of the companies or institutions of the aeronautical sector that collaborate with the master. In this case, in addition to the academic director, the student will have a supervisor in the company or institution. In this modality, the work plan is elaborated jointly between student, academic director and supervisor in the company or institution. From here, the follow-up of the work plan is the fundamental responsibility of the supervisor, with specific periodic interventions by the academic director who, in any case, advises the student regarding the writing of the report, as commented in the previous paragraph. In this case, both the academic director and the supervisor issue reports that are made available to the TFM evaluation commission.

The evaluation commissions are formed by teachers of the master's degree and the evaluation method is the same, regardless of whether the TFM has been developed, or not, within a company or institution.

As a support to the realization of the TFM, the students have a "Guide for the realization of the TFM" in which the organizational aspects mentioned in these lines are detailed and, in addition, they are provided with formal guidelines for a correct elaboration of the memory of the work, the evaluation method is explained and a calendar of the whole process of conducting the TFM is established, including its evaluation.

Methodology

The teaching methodology used combines the meetings between student and principal, the autonomous work done by the student himself, and the presentation of the results.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Presentation and public defense of the work	1	0.04	1
Type: Supervised			
Follow-up meetings student - supervisor	15	0.6	6, 5, 3, 4, 2, 7

Type: Autonomous

Work development	204	8.16	6, 5, 3, 4, 2, 7
Writing of the memory	80	3.2	2, 1

Assessment

The elements on which the Master's Final Project will be evaluated are the following:

- Assessment report of the academic director and, in the event that the work has been carried out within a company or institution, of the student's supervisor in it.
- Work development. Overall assessment of the evaluation commission on the student's work, according to their level of difficulty, originality, methodology followed, results achieved and conclusions drawn.
- Written report (memory), taking into account both the quality of the document itself and, especially, the ability to collect in it all relevant information about the development of the work.
- Oral presentation, taking into account both the quality of the prepared material and the ability to synthesize and clearly expose the most relevant aspects of the work, adjusting to the established time (20 minutes).

The weights of each evaluation activity are given in the following table.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Oral presentation	20 %	0	0	1
Supervisor report	40 %	0	0	6, 5, 3, 4, 2, 7
Work development	20 %	0	0	6, 5, 3, 4, 2, 7
Work memory	20 %	0	0	6, 5, 3, 4, 2, 7, 1

Bibliography

- John M. Nicholas and Herman Steyn. Project Management for Engineering, Business and Technology. Fifth edition, Routledge, 2017.
- Davidson, Jeff. La Gestión de Proyectos. Prentice-Hall (guías de bolsillo), 2000.
- Clanchy, John; Ballard, Brigid. Cómo se hace un trabajo académico. Guía práctica para estudiantes universitarios. Zaragoza: Prensas Universitarias de Zaragoza, Ciencias Sociales 23, 2000 (Essay Writing for Students: A practical Guide, 1997).
- Morales, Carlos Javier. Guía para hablar en público. Madrid: Alianza Editorial, LP 7010, 2001.