

**1. General information****Course:** FINAL YEAR DISSERTATION**Type:** PROJECT**Degree:** 2343 - MASTERS DEGREE PROGRAMME IN ENGINEERING OF ROADS, CANALS AND PORTS**Center:** 603 - E.T.S. CIVIL ENGINEERS OF CR**Year:** 2**Main language:** English**Use of additional languages:****Web site:****Code:** 310824**ECTS credits:** 18**Academic year:** 2020-21**Group(s):** 20**Duration:** SD**Second language:** English**English Friendly:** N**Bilingual:** N**Lecturer:** ANA MARIA RIVAS ALVAREZ - Group(s): 20

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2. Pre-Requisites

In order to present and defend the master's thesis, it will be a prerequisite that the student has passed the rest of the ECTS leading to this master's degree.

3. Justification in the curriculum, relation to other subjects and to the profession

The Master's Final Project must seek to solve specific and specific problems posed with the help of those institutions where the student develops his or her Internship and must be closely related to the work carried out by the student. In this way, the Internship will not only contribute to increasing the student's training by orienting him/her towards professional practice, but will also constitute a coherent training unit that will serve the student to intensify the contents of the speciality being studied, together with the Master's Final Project.

4. Degree competences achieved in this course**Course competences**

Code	Description
CB06	Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.
CB07	Apply the achieved knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
CB08	Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of knowledge and judgments
CB09	Know how to communicate the conclusions and their supported knowledge and ultimate reasons to specialized and non-specialized audiences in a clear and unambiguous way
CB10	Have the learning skills which allow to continue studying in a self-directed or autonomous way
G01	Scientific-technical and methodological capacity for the continuous recycling of knowledge and the exercise of the professional functions of consultancy, analysis, design, calculation, project, planning, leadership, management, construction, maintenance, conservation and exploitation in the fields of civil engineering.
G02	Understanding of the multiple technical, legal and property constraints that arise in the design of a public work, and the capacity to establish different valid alternatives, to choose the optimum one and to express it adequately, anticipating the problems of its construction, and using the most suitable methods and technologies, both traditional and innovative, with the aim of achieving the greatest efficiency and promoting the progress and development of a sustainable and respectful society with the environment.
G03	Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Civil Engineer.
G04	Knowledge of the history of civil engineering and ability to analyse and assess public works in particular and the construction industry in general.
G05	Knowledge of the Civil Engineering profession and the activities that can be carried out in the field of civil engineering.
G06	Ability to plan, design, inspect and manage land (roads, railways, bridges, tunnels and urban roads) or sea (port works and facilities) transport infrastructures.
G07	Knowledge to apply technical and managerial skills in R&D&I activities in the field of civil engineering.
G12	Capacity to plan, design, manage, maintain and operate infrastructure.
G15	Capacity for environmental assessment and restoration of infrastructure works in projects, construction, rehabilitation and conservation.
G18	Ability to participate in research projects and scientific and technological collaborations within its thematic area, in interdisciplinary contexts and, where appropriate, with a high knowledge transfer component.
G27	Ability to communicate in a second language.
G28	Ability to work in an international context.
TFM1	Realization, presentation and defense of an original exercise before a university committee, consisting of a comprehensive project of Civil Engineering of a professional nature in which the competences acquired in the programme are synthesized.

5. Objectives or Learning Outcomes

Creation of an original exercise, and its presentation and defense in the presence of a panel of examiners, consisting of a comprehensive project of professional Civil Engineering in which the skills acquired in the course are summarized.

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).