

## **Internship/Project/Dissertation:**

**Calendar:** 2nd Year 1st Semester and 2nd Semester

**Contact Hours:** var.

### **Syllabus:**

The program is set according to the supervisor and type of theme to be developed, in the chosen field of specialization. The theme of the work to develop and, consequently, the program carried out by the student is chosen from among the proposals of the Faculty of ESTBarreiro/IPS. The student shall prepare a proposal plan of the thesis, in association with the Supervisor, where the objectives, tasks and work plan for two semesters are defined. This program must be approved by the Scientific-Technical Council, after consultation with the Master Scientific Committee.

### **Intended learning outcomes of the curricular unit:**

In the curricular unit Internship / Project / Dissertation, the student may choose to develop a professional stage, a research project or a conventional scientific dissertation. For any of these possibilities, the student shall submit an original dissertation, specifically developed for this UC.

The objectives of this course are:

- Gain knowledge in a specific area of Civil Engineering, through research, innovation or development of professional skills;
- Ability to integrate knowledge, handle complex issues, develop solutions and make judgments in situations of limited or incomplete information, including reflections on the implications and ethical and social responsibilities that result from those solutions and those judgments;
- Be able to communicate their findings, knowledge and reasoning underlying them, in a clear and unambiguous way.

### **Demonstration of the syllabus coherence with the curricular unit's intended learning outcomes:**

The course contents are designed to complete the formation in the specialization field. During the two semesters the students are followed by their respective Supervisors, team who oversees the progress and guides the student in order to achieve the objectives set.

With the development of the dissertation, the student must conduct research, developing skills and professional knowledge, where innovation is encouraged. The preparation of the final document implies the interconnection of the various knowledges, solutions development and presentation of relevant reflections, with summary of findings.

**Teaching methodologies (including evaluation):**

This course will take place during the last academic year, with 18 ECTS in the first semester and 24 ECTS in the second half. At the end of first semester, students will present a seminar, making the introduction to the subject, proposing the organization and development of the dissertation. This seminar is presented in open session before the Masters Scientific Committee, Faculty, fellow students and the general public as a way to encourage the exchange of views and appreciation of the work to be done. In the second semester, the remaining work will be developed, focusing on completing the dissertation and its presentation in open session.

The result of the work done by each student is presented as a draft version of the dissertation that will be publicly evaluated before a jury. The final grade is calculated by the arithmetic mean of the ratings of the various elements of the jury.