

# PROBABILITY ANALYSIS AND STATISTICS

## *General Information. Academic year 2023/2024*

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COORDINATOR:	Luis Ramírez Palacios
OTHER LECTURERS:	Fermín Luis Navarrina Martínez, Laura Edreira Marzoa
COURSE:	Grado en Tecnología de la Ingeniería Civil. Second year
TYPE OF SUBJECT:	Annual Basic Training
CREDITS:	3 h/week (9 ECTS)

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### OBJECTIVES:

The course aims, through the understanding of the randomness of most physical, social and economic phenomena, to show the student the correct way to make decisions in the presence of uncertainty.

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### ORGANIZATION:

The teaching activity is three hours of class per week. There will be no differentiation between theoretical and practical class hours. Exercises to be done at home will be proposed periodically, which will later be solved in class.

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### SYSTEM OF EVALUATION:

Practice Problems, controls and exams will be carried out throughout the course, within a continuous evaluation system described on the following page. The use of illicit documents or devices, as well as copying by any means during an exam will be considered as serious fraudulent activities (**See details**).

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### TUTORIAL SESSIONS:

During working hours. A specific schedule may be published during exam periods.

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### ADDITIONAL INFORMATION:

Elementary knowledge of Algebra and Calculus is required. Class attendance is not compulsory, but will be checked occasionally. Regular class attendance will increase the global grade per course (**see details**).

## SYSTEM OF EVALUATION (DETAILS):

- 1.- Periodic Exercises (practice problems and assignments) will be proposed. These exercises will be collected on the last day of class of the following week. The exercises will be solved later in class by the students who have carried out the practices. The non-resolution of these exercises will not suppose any detriment in the grades, but their overcoming will increase the score to pass the course.
- 2.- Short knowledge tests (assessments) will also be periodically carried out in the classroom. The non-realization or non-passing of these controls will not suppose any detriment in the grades, but their passing will increase the score to pass the course. They will also count positively in case of doubt in the final exams.
- 3.- Throughout the course we will try to carry out seminars and practices with computers. The attendance to these practices will be voluntary, but the attendance to them will be equally considered in the final grades.
- 4.- Those who carry out any type of fraudulent activity will be subject to the corresponding disciplinary measures. In addition, and indefinitely, the offenders will lose the right to receive any kind of bonus in the qualification of the exams.

## EXAMS

- 1.- There will be four exams during the course: two mid-term exams (January and May), and two final exams (June and July).
- 2.- Those students who obtain 3.5 or more points out of 10 in the January mid-term exam are able to take the second mid-term exam in May and thus pass per course (**see passing per course**).
- 3.- Those students who do not pass the course per course, may take the final exams in June and July (**see passing in the final exam**).
- 4.- In the exams, the consultation of class notes, summaries, calculators, etc. will be allowed. Electronic instruments with internet access, books, or collections of solved problems (including course practices) are not allowed.

## PASSING PER COURSE

- 1.- In order to pass per course, it will be an essential condition to have obtained a minimum grade of 3.5 out of 10 in each mid-term exam.
- 2.- In order to pass per course an average qualification of the mid-term exams equal or superior to 5 points is required, taking into account the following increments:
  - Periodic Exercises : Maximum 0.75 points.
  - Short knowledge tests : Maximum 0.25 points.

**PASSING IN THE FINAL EXAM.**

- 1.- Those who do not pass per course and take a final exam for the entire subject may receive a maximum increase of 1 point out of 10 depending on the grades obtained in the mid-term exams, weekly exercises, class attendance and passing the short knowledge tests.**
- 2.- The final exam will be passed if the total grade of the exam, with the aforementioned increases, is equal or higher than 5.**