

Información del Plan Docente

| | |
|-------------------------|---|
| Academic Year | 2017/18 |
| Faculty / School | 110 - Escuela de Ingeniería y Arquitectura |
| Degree | 438 - Bachelor's Degree in Telecommunications Technology and Services Engineering |
| ECTS | 6.0 |
| Year | 1 |
| Semester | Second semester |
| Subject Type | Basic Education |
| Module | --- |

1.General information**1.1.Introduction****1.2.Recommendations to take this course****1.3.Context and importance of this course in the degree****1.4.Activities and key dates****2.Learning goals****2.1.Learning goals****2.2.Importance of learning goals****3.Aims of the course and competences****3.1.Aims of the course****3.2.Competences****4.Assessment (1st and 2nd call)****4.1.Assessment tasks (description of tasks, marking system and assessment criteria)****5.Methodology, learning tasks, syllabus and resources****5.1.Methodological overview**

The learning process designed for this course is based in the following
Continuous work of the student: study of the theory, review of the documentation made available for the student and lookup of the bibliography, solution of problems, exercises and questions on the subject.
Lectures where the theoretical contents will be developed. They will be illustrated with examples and counterexamples for helping to understand them.

30306 - Mathematics III

Practical sessions with the help of a computer. Problems and exercises will be considered in these sessions. Sessions of problems integrated in the lectures where concepts and techniques presented will be further developed.

5.2.Learning tasks

The program offered to the student to achieve the results consists of the following activities

Type I: Lectures. 3 hours in the week will be devoted to lectures and problem sessions. In the lectures, the contents and theoretical results will be presented and this will be complemented with the solution of problems and exercises. Both activities will be combined to get the the concept in the course will be as clear as possible. Questions and short debates will be used to promote the participation of the student.

A collection of problems and exercises can be made available to the students. Some problems will be solved in the classroom and others will be used as recommended work outside the classroom.

Type II: Practical sessions (6 sessions of 2 hours each). The students will be distributed in 3 subgroups and will take place in the classroom and schedule fixed by the school. In these sessions, the students should be working the proposed exercises both written in a paper or with the computer under the supervision of the professor.

Type III: Tutorial sessions of problems (6 sessions of 1 hour each). Problems will be considered in order to help the understanding of the contents and to relate the concepts and the techniques in each subject.

5.3.Syllabus

- Improper and parametric integrals
- Double and triple integrals
- Vector calculus
- Integration of functions of a complex variable
- Interpolation and numerical integration
- Differential equations

5.4.Course planning and calendar

Schedule of classroom sessions and presentation of assignments

The schedule of lectures and the practical sessions is established by the school

Exam calendar: fixed by the school

Each teacher will inform about the schedule of tutorials

Exam time: It will be fixed by the professor according to the University regulations.

5.5.Bibliography and recommended resources