27038 - Celestial Mechanics

Información del Plan Docente

Academic Year	2017/18
Faculty / School	100 - Facultad de Ciencias
Degree	453 - Degree in Mathematics
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
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

- Lectures in which the theoretical aspects of the subject are presented.
- Solution and oral or written presentation of theoretical and practical issues of the subject.
- Problems proposed for personal work.
- Sessions in which the students solve the proposed exercises and problems and discuss their solution procedures.

5.2.Learning tasks

- Lectures for explanation of theoretical contents.

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- Practical sessions with oral discussion of proposed problems whose solution the students should previously have handed in.
- Support for learning through documents and links on the page of the subject at ADD, moodle.unizar.es (restricted access, with the PIN and password provided by the University)

5.3.Syllabus

- Motion in a central force field.
- Analytical dynamics: Lagrangian and Hamiltonian formulation.
- Orbital perturbations.

5.4.Course planning and calendar

5.5.Bibliography and recommended resources