

Información del Plan Docente

Academic Year	2018/19
Subject	27038 - Celestial Mechanics
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.Aims of the course****1.2.Context and importance of this course in the degree****1.3.Recommendations to take this course****2.Learning goals****2.1.Competences****2.2.Learning goals****2.3.Importance of learning goals****3.Assessment (1st and 2nd call)****3.1.Assessment tasks (description of tasks, marking system and assessment criteria)****4.Methodology, learning tasks, syllabus and resources****4.1.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.

4.2.Learning tasks

- Lectures for explanation of theoretical contents.
- 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)

4.3.Syllabus

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

4.4.Course planning and calendar

4.5.Bibliography and recommended resources