

1. BASIC INFORMATION

Subject	Propulsion systems
Degree	Degree in Aerospace Engineering of Aircraft
School	Escuela de Arquitectura, Ingeniería y Diseño
Course	4
ECTS	6 ECTS
Type	Compulsory
Language	English
Delivery mod	Face-to-face
Semester	First
Academic year	2019/2020
Coordinator	

2. PRESENTATION

This course belongs to the “Motopropulsion I” module:

- Thermodynamics and Propulsion 6 ECTS (second year)
- Fluid Mechanics I 6 ECTS (second year)
- Propulsion systems 6 ECTS (fourth year)

3. CONTENTS

- Introduction to alternative engines
- Introduction to jet engines. aeronautics and gas turbine design basics
- Resolution of problems of use, selection and performance of components.
- Introduction to rocket engines. Fundamentals of rocket engines and micro-rocket engines

4. TEACHING-LEARNING METHODOLOGIES

The following table shows how the different types of activities are distributed and how many hours are assigned to each type:

Training Activities	hours
Lecture-based class	20
Integrative team work	60
Self-study	50
Mentoring, academic monitoring and assessment	20
TOTAL	150

5. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Assessment criteria	Weight (%)
Exam, test and other type of assessment.	30%-35%
Reports, articles and informs.	15%-30%
Alternative system of assessment.	15%-30%
Conferences, company-tour visit and experiences in situ	10%-10%
Transversal skills (rubric)	10%-15%

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

5.1. First exam period

To pass the course in the first exam period, you must obtain a final course grade of at least 5 out of 10 (weighted average).

In order to be evaluated you must have a minimum of 50% attendance.

In the case, when the student do not reached the minimum required to pass any evaluable activity. The final grade will be:

- The mean average when the mean value is less than or equal to 4
- 4 if the value of the mean average is greater than 4

The grade will be considered as NP (Not Presented) when the student has not delivered any evaluable activity of which they are part of the weighted average.

5.2. Second exam period

To pass the course in the second exam period, you must obtain a final grade of at least 5 out of 10 (weighted average).

In the case, when the student do not reached the minimum required to pass any evaluable activity. The final grade will be:

- The mean average when the mean value is less than or equal to 4
- 4 if the value of the mean average is greater than 4

The grade will be considered as NP (Not Presented) when the student has not delivered any evaluable activity of which they are part of the weighted average.

6. BIBLIOGRAPHY

Recommended bibliography will be updated.

7. DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.