

1. BASIC INFORMATION

Course	Aeroelasticity and Vibrations
Degree program	Degree in Aerospace Engineering of aircrafts
School	Arquitectura, Ingeniería y Diseño
Year	Fourth
ECTS	6
Credit type	Compulsory
Language(s)	English
Delivery mode	Face to face
Semester	First
Academic year	2019-20
Coordinating professor	

2. PRESENTATION

This course belongs to the “aerospace vehicles ii” module:

- Aeronautical Structures 6 ECTS (third year)
- Aerodynamics 6 ECTS (third year)
- Space Vehicles and Missiles 6 ECTS (third year)
- Flight Mechanics 6 ECTS (third year)
- Maintenance and Certification of Aerospace Vehicles 6 ECTS (third year)
- Aircraft Design 6 ECTS (fourth year)
- Aeroelasticity and Vibrations 6 ECTS (fourth year)

3. CONTENT

- Vibrations
- Static aeroelasticity
- Dynamic aeroelasticity
- Internal aeroelasticity

4. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Lecture-based class
- Integration of team work
- Self-study
- Mentoring, academic monitoring and assessment

5. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Campus-based mode:

Type of educational activity	Number of hours
Lecture-based class	20 h
Integration of team work	60 h
Self-study	50 h
Mentoring, academic monitoring and assessment	20 h
TOTAL	150 h

6. 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%
Tansversal 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.

6.1. 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.

6.2. 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.

7. BIBLIOGRAPHY

Recommended bibliography will be updated.

8. 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.