

Master's Degree in Aeronautical and Space Engineering

The Master's Degree in Aeronautical and Space Engineering curriculum includes:

- Core Courses (15 ECTS)
- Elective Courses (31 ECTS)
- Master Thesis (14 ECTS)

S1	Core courses (5 ECTS)	Elective courses (25 ECTS)	
S2	Core courses (10 ECTS)	Elective courses (6 ECTS)	TFM (14 ECTS)

CORE COURSES

- Computational Engineering - 5 ECTS (Semester 1)
- Research Management and Aerospace Projects - 10 ECTS (Semester 2)

ELECTIVE COURSES

- Airport Operations – 5 ECTS (Semester 1)
- Space Propulsion - 5 ECTS (Semester 1)
- Extension of Rocket Engines - 5 ECTS (Semester 1)
- Internal Aerodynamics and Aeroelasticity of Turbomachines - 5 ECTS (Semester 1)
- Extension of jet Engines - 5 ECTS (Semester 1)
- Advanced Propulsion - 5 ECTS (Semester 1)
- Aerospace Laboratories - 5 ECTS (Semester 1)
- Advanced Aeroelasticity - 5 ECTS (Semester 1)
- Advanced Aerodynamics - 5 ECTS (Semester 1)
- Architecture and Aircraft Systems - 5 ECTS (Semester 1)
- Business Management Airport - 5 ECTS (Semester 1)
- Extension of Space Propulsion - 3 ECTS (Semester 2)
- Applications for Planetary Exploration - 3 ECTS (Semester 2)
- Design and Use of UAV for remote sensing of the environment - 3 ECTS (Semester 2)
- Thermal Turbomachine and Combustion - 3 ECTS (Semester 2)
- Acoustics - 3 ECTS (Semester 2)
- Structures of New Generation - 3 ECTS (Semester 2)
- Surface Engineering - 3 ECTS (Semester 2)
- Science and Technology Communication Through Media - 3 ECTS (Semester 2)

MASTER THESIS - 14 ECTS

Students shall work on a research project granting them 14 ECTS out of the total required. The Master Thesis is meant to train the student in rigorous and critical thinking, data analysis, and independent problem-solving in preparation for their professional (industrial or academic) careers.

The outcome of the work will be compiled into a final dissertation. The student shall also make a short public presentation of the most relevant aspects of his/her work. Upon reviewing the dissertation and attending the presentation, an appointed member of the faculty will award the final grade.