MASTER'S (LM) DEGREE COURSE IN

AEROSPACE ENGINEERING

AERONAUTICS CURRICULUM

Study programme for students enrolled in the academic year 2025-2026

1st YEAR	
MANDATORY UNITS	**CREDITS**
MATERIALS FOR AERONAUTICAL ENGINEERING	**9**
AEROSPACE STRUCTURES 2	**9**
MANUFACTURING TECHNOLOGIES OF AEROSPACE MATERIALS	**9**
ATMOSPHERIC FLIGHT DYNAMICS	**9**
AIRCRAFT PROPULSION	**9**
AIRCRAFT AIR CONDITIONING SYSTEMS	**6**
ADVANCED AERODYNAMICS	**9**
2st YEAR	
MANDATORY UNITS	**CREDITS**
STRUCTURAL DYNAMICS AND AEROELASTICITY	**6**
MEASUREMENTS AND FLIGHT INSTRUMENTATION	**9**
AIRCRAFT SYSTEMS	**9**
FREE-CHOICE UNIT AMONG THE FOLLOWING (9 CREDITS - "attività caratterizzanti"**):**	**CREDITS**
LABORATORY OF COMPUTATIONAL FLUID DYNAMICS	**9**
AEROSPACE STRUCTURES LABORATORY	**9**
LABORATORY OF AIRCRAFT PROPULSION	**9**
ADDITIONAL FREE-CHOICE CREDITS (9 credits including free-choice units reported above and not already selected)	**CREDITS**
SPACE ROBOTIC SYSTEMS	**9**
SPACE OPTICS INSTRUMENTATION	**9**
MODELLING AND CONTROL OF ELECTRIC DRIVES	**9**
GLOBAL POSITIONING AND NAVIGATION	**9**
COMPOSITE MATERIALS	**9**
MECHANICAL MODELING AND SIMULATION OF AEROSPACE SYSTEMS	**9**

LABORATORY OF COMPUTATIONAL FLUID DYNAMICS	**9**
AEROSPACE STRUCTURES LABORATORY	**9**
LABORATORY OF AIRCRAFT PROPULSION	**9**
ELECTROCHEMICAL ENERGY STORAGE TECHNOLOGIES	**6**
ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)	**3**
FINAL THESIS	**15**

ANY FURTHER NOTES

Although not mandatory, classroom attendance is strongly recommended.
There are no propaedeutic units to attend the second-year activities.
Students are required to submit their study plan through the UNIWEB platform as early as the first enrolment year.

This document has been prepared in Spring 2025.
It is strongly recommended to check, at the beginning of each academic year, the correct placement of the course units in the semesters and the actual activation of the free-choice activities.

If the free-choice activities are chosen from those offered by the degree course, the plan will be automatically approved.

If the activities offered in the Master's degree have a program that largely overlaps with exams already taken during the Bachelor's degree, students need to contact the Academic Office through the HelpDesk system (https://helpdesk.dii.unipd.it).
The request must include the words "Exam program overlapping" and students need to attach the program of the exam already taken.

MASTER'S (LM) DEGREE COURSE IN

AEROSPACE ENGINEERING

SPACE CURRICULUM

Study programme for students enrolled in the academic year 2025-2026

1st YEAR	
MANDATORY UNITS	**CREDITS**
AEROSPACE STRUCTURES 2	**9**
MANUFACTURING TECHNOLOGIES OF AEROSPACE MATERIALS	**9**
MEASUREMENTS FOR SPACE PROJECTS	**9**
ADVANCED AERODYNAMICS	**9**
ASTRODYNAMICS	**9**
SPACE PROPULSION	**9**
MECHANICAL VIBRATIONS	**6**
2nd YEAR	
MANDATORY UNITS	**CREDITS**
SPACECRAFT ATTITUDE DYNAMICS AND CONTROL	**9**
SPACE INSTRUMENTATION	**9**
SPACECRAFT THERMAL CONTROL	**6**
FREE-CHOICE UNIT AMONG THE FOLLOWING (9 CREDITS - "attività caratterizzanti"**):**	**CREDITS**
AEROSPACE STRUCTURES LABORATORY	**9**
SPACE PROPULSION LABORATORY	**9**
SPACE SYSTEMS LABORATORY	**9**
ADDITIONAL FREE-CHOICE CREDITS (9 credits including free-choice units reported above and not already selected)	**CREDITS**
SPACE ROBOTIC SYSTEMS	**9**
SPACE OPTICS INSTRUMENTATION	**9**
MECHANICAL MODELING AND SIMULATION OF AEROSPACE SYSTEMS	**9**
MODELLING AND CONTROL OF ELECTRIC DRIVES	**9**
GLOBAL POSITIONING AND NAVIGATION	**9**
COMPOSITE MATERIALS	**9**
AEROSPACE STRUCTURES LABORATORY	**9**

SPACE PROPULSION LABORATORY	**9**
SPACE SYSTEMS LABORATORY	**9**
ELECTROCHEMICAL ENERGY STORAGE TECHNOLOGIES	**6**
ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)	**3**
FINAL THESIS	**15**

ANY FURTHER NOTES

Although not mandatory, classroom attendance is strongly recommended.
There are no propaedeutic units to attend the second-year activities.
Students are required to submit their study plan through the UNIWEB platform as early as the first enrolment year.

This document has been prepared in Spring 2025.
It is strongly recommended to check, at the beginning of each academic year, the correct placement of the course units in the semesters and the actual activation of the free-choice activities.

If the free-choice activities are chosen from those offered by the degree course, the plan will be automatically approved.

If the activities offered in the Master's degree have a program that largely overlaps with exams already taken during the Bachelor's degree, students need to contact the Academic Office through the HelpDesk system (https://helpdesk.dii.unipd.it).
The request must include the words "Exam program overlapping" and students need to attach the program of the exam already taken.