



ITALIAN AIR FORCE ACADEMY INTERNATIONAL SEMESTER

Bruxelles, February 20th 2019

L.TCOL. Mauro NAZZI

ITALIAN AIR FORCE ACADEMY &
UNIVERSITY OF NAPLES "FEDERICO II"
SCHOOL OF POLYTECHNIC AND BASIC SCIENCES
DEPARTMENT OF INDUSTRIAL ENGINEERING

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II



Management of Aerospace Defense Systems
Bachelor and Master Degree



Italian Air Force Academy

*Management of Aerospace Defense Systems Master Degree
International Semester*

- ✓ FIRST YEAR - FIRST SEMESTER MASTER DEGREE
- ✓ CLASSES: OCTOBER TO DECEMBER 2019
- ✓ EXAMS: JANUARY TO FEBRUARY 2020
- ✓ PILOTS OFFICER & GPO CURRICULA



*Management of Aerospace Defense Systems Master Degree
International Semester*

COURSE NAME	ECTS	WH
Aerospace Remote Sensing Systems	6	150
Space Systems	6	150
Unmanned Aircraft Systems	6	150
Air Traffic Management and Control	6	150
Artificial Intelligence and Big Data	9	225



Management of Aerospace Defense Systems Master Degree

International Semester

AEROSPACE REMOTE SENSING SYSTEMS (6 ECTS)

This course is intended to provide a basic knowledge of scientific and engineering problems related to the aerospace systems for earth observation, with particular reference to airborne and spaceborne high resolution sensors, both in the electro-optical and microwave region of the electromagnetic spectrum, and to space remote sensing mission analysis and design.



Management of Aerospace Defense Systems Master Degree

International Semester

SPACE SYSTEMS (6 ECTS)

The course provides the basic elements for the design of a space system in response to space mission requirements and objectives, with particular concern to the subsystems on board a satellite, in terms of mathematical and physical modeling of the subsystem behavior, technologies and development examples and solutions.



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UNMANNED AIRCRAFT SYSTEMS (6 ECTS)

The course is intended to provide a basic knowledge about architecture and operation of Unmanned Aircraft Systems (UAS), dealing in particular with UAS classification, regulations, sensors and data fusion algorithms, autonomous guidance, navigation and control, communication and data links, ground stations.



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International Semester

AIR TRAFFIC MANAGEMENT AND CONTROL (6 ECTS)

This course will provide a complete overview about Air Traffic Management and Air Traffic Control systems and procedures. In this framework, the aircraft is considered a component of a global traffic scenario at national, continental, and intercontinental level.



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ARTIFICIAL INTELLIGENCE AND BIG DATA (9 ECTS)

This course aims to provide an overview of modern techniques of Artificial Intelligence, with particular reference to machine learning and cognitive computing.

The course, starting from the definition of a database and a DBMS, also provides an introduction to Big Data, with reference to the design of large data systems, and to the processes of modeling, acquisition, sharing, analysis and visualization of the information present in Big Data.



Thanks for the attention



Questions?

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