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**DIPARTIMENTO DI
SCIENZE E TECNOLOGIE
AEROSPAZIALI**

1ST LEVEL MASTER COURSE IN FUNDAMENTALS OF THE AIR TRANSPORT SYSTEM 2020-2021 EDITION

With sponsorship of



1st Level Master Course
Fundamentals of the Air Transport System
2020-2021 Edition

Politecnico di Milano

**Department of
Aerospace Science and Technology**

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DAER 023/2019



1st Level Specializing Master Course in Fundamentals of the Air Transport System

2020-2021 Edition

Organized by:

**DAER - Department of Aerospace Science
and Technology
Politecnico di Milano**

1. PURPOSE

The air transport system is an inherently multidisciplinary field, where technical and organizational skills are needed to face both normal operation and developmental programs.

Today, commercial aviation is experiencing a significant growth at a global level. All major players in the system, including airlines, handling and airport management companies, as well as regulators and supervisory agencies, will need to cope with this trend, relying on highly skilled professionals with an excellent technical qualification in aeronautics and a deep knowledge of the processes typical to the air transport system, from the global picture to the innermost components.

The Master Course will allow the participants to develop a complete knowledge of the air transport system in its multiple aspects, by means of a structured theoretical approach well suited for engineers, followed by a practical internship period of a minimum of 4 months in a qualified organization, with the tuition of experienced industry staff.

At the end of the Course, the participants will have gained a good familiarity with the field of the air transport, which will constitute a primary asset for a successful job application in the field, easing their transition from the academic world to the job market.

2. BEGINNING AND END OF THE COURSE

The Course will start within the end of March 2020 and will end within March 2021.

2. PROGRAM (60 CFU)

Teaching Activities (40 CFU)

Module 1: Civil Aviation System

Module 2: Cybersecurity

Module 3: Quality Assurance and Compliance Monitoring

Module 4: Safety Management System

Module 5: Accident Investigation

Module 6: Human Factors and Psychological Aspects

Module 7: Emergency Management

Module 8: Airport Capacity

Module 9: Airport Management System

Module 10: Air Transport Company

Module 11: Continued airworthiness, Maintenance and Engineering

Four Months Internship (10 CFU)

Individual Activities (10 CFU)

3. REQUIREMENTS

A Bachelor of Science (Laurea) in Engineering is required. For candidates graduated abroad, equivalent qualification in the respective educational Institutions will be considered. The Admission Board will select the students to be accepted by means of CV evaluation and oral examination.

Enrolment requests should be received by March 10th 2020. A maximum of 25 students will be admitted.

4. FEE

Total costs: € 7.000 (€ 6.500 tuition fee plus € 500 enrolment fee) to be paid in two instalments.

5. SCHOLARSHIPS

Scholarships covering the whole tuition fee or a part of it will be made available by collaborating industrial subjects. They will be assigned by the Admission Board after the expiration of the enrolment deadline and within March 31th 2020.

6. LOCATION

Politecnico di Milano, Bovisa Campus, Via La Masa 34, Milano. The internship period will be hosted by companies acknowledged by the Organizing Committee.