

MSC INTERNATIONAL AIR TRANSPORT OPERATIONS MANAGEMENT

IN BRIEF

Type of diploma : Master of science degrees

Ministry field(s) : Science and Technology

Mention : Aéronautique et espace

Presentation

The Master of Science in IATOM is a two year-degree accredited by the French Ministry of Education for those students who hold a Bachelor degree in a relevant subject. Located in Toulouse, a major centre for science and technology and the European aviation capital, ENAC is a gateway to air transport worldwide, recognised by ICAO and major civil aviation organisations as one of the world's leading air transport educational institutions.

Objectives

The MSc in IATOM has been designed to emphasise the application of up-to-date engineering and management concepts or methods of the aeronautical and aviation industry.

The full-time two-year Master in IATOM aims at providing the technical and management expertise necessary to a future manager in an international company. It provides graduates with in-depth knowledge in aeronautical engineering, aeronautical project management and technology management, to be able to meet the aeronautical industry demands in terms of the innovative engineers they need to strengthen and develop their business.

The Master in IATOM offers a comprehensive teaching programme with a strong scientific background, aeronautical and aviation engineering, legal, social environment, the economy and project management enabling graduates to get junior management positions in the aeronautical industry, airlines, airports or civil aviation authorities: flight operations engineer, aircraft performance engineer, maintenance manager, airlines operations planning, marketing manager, etc.

Project management currently forms the backbone of the Master IATOM concerns.

Additional information

MORE INFO

Level : Year 5 higher education – Master

Training Audience

* Full-time

Kind of education :
Curriculum

Please, click [here](#) to access to the "Fiche RNCP" (Répertoire national des certifications professionnelles).

Organization

Year 1

Semester 7

- *Human and social science (Mandatory)*
 - EC401E - Fundamental economics
 - CS401E - Project management
 - LV401 - Culture and language French
 - LV406E - Culture and Language - English
 - LV409 - Culture and Language - other language
- *Theoretical flight fundamentals (Mandatory)*
 - AE401E - Flight Mechanics
 - MT401E - Meteorology
 - AE404E - Fluid mechanics
 - AE405E - Aerodynamics
- *Aircraft fundamentals (Mandatory)*
 - AE403E - Mechanics of materials
 - AE407E - Propulsion
 - AE410E - Which aircraft for which mission ?
- *Mathematics tools (Mandatory)*
 - MA410E - Statistics
 - MA413E - Combinatorial optimization
 - MA412E - Continuous optimization

Semester 8

- *Aircraft design and operations 1 (Mandatory)*
 - AE416E - Structural design
 - OP401E - Flight operations
 - CS408E - Safety analysis
- *Aircraft airworthiness (Mandatory)*
 - RG405E - Aircraft certification
 - RG4013E - Certification of aircraft systems
 - MN402E - Basics in aircraft maintenance
- *Aircraft environment (Mandatory)*
 - EA402E - Airport design
 - EA403E - Airport management
 - AT403E - Air Traffic Organisation and management
- *Multi-disciplinary Projects (Mandatory)*
 - OP402E - Flight OPS and airport project
 - RG406E - Certification project
- *Human and social sciences (Mandatory)*
 - LV402 - French culture and language

- LV407E - Culture and Language - English
- LV410 - Culture and Language - other language
- EC417E - Air transport economics
- EC402E - Airline costs and financial management
- EC4009E - Air transport & airlines marketing
- EC4021E - Customer Relationships
- DD101E - Climate change days
- *Upgrade for foreign students (Mandatory)*
 - CS409E - Project management
 - LV408 - French culture and language
 - AU410E - Operational research

Year 2

Semester 9

- *Aircraft design and operations 2 (Mandatory)*
 - OP502E - Flight operations optimization
 - AV501E - Avionics systems
 - EA501E - Sustainable development
 - SA501E - Introduction to SMS
 - EA502E - Helicopters
- *Mathematics tools (Mandatory)*
 - IP520E - Programming language and databases
 - MA503E - Operations Research for applied to Air

Transportation

- *Human and social sciences (Mandatory)*
 - LV501 - Culture and Language - French
 - LV504E - Culture and Language - English
 - LV411 - Culture and Language - other language
 - DJ502E - Air transport law
 - SH503E - Human Resources Management
 - DD102E - Societal issues
- *Multi-disciplinary project (Mandatory)*
 - OP501E - Airline Project
- *Minor in Strategy (Mandatory)*
 - EC5020E - Airline strategies
 - EC5021E - Air transport markets
 - EC5022E - Pricing and revenue management
- *Minor in Airworthiness (Mandatory)*
 - MN504E - Post TC activities
 - MN505E - Advanced maintenance
 - RG502E - Certification of propulsion systems
 - RG503E - Operators certification
 - SA502E - SMS (Manufacturers, Operators, MRO)

Semester 10

- *Final project (Mandatory)*
 - TX5900 - End of study project



Professional insertion

Four main recruitment domains:

- Aircraft manufacturers
- Civil Aviation Authorities
- Airlines
- Airports

Organizational unit

ENAC - Ecole nationale de l'aviation civile

Places

Toulouse

Contacts

Responsable

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