

Ecole Nationale de l'Aviation Civile

[International Air Transport Operations Management - Hong Kong](#)

Objectives

Executives in aeronautical industry must have technical knowledge, managerial skills and a thorough understanding of the regulatory context associated with air transport. This multidisciplinary system creates major challenges that call for improvements of their capabilities and skills in developing and managing effectively and efficiently their respective domains.

In order to respond to these challenges, ENAC has been offering Master of Science program in International Air Transport Operations Management (MSc IATOM) in France since 2007. Since September 2016, ENAC has been offering a joint MSc IATOM in Hong Kong; in partnership with Hong-Kong University of Science and Technology (HKUST), which is one of the best universities in Engineering in the world - HKUST is ranked 14th globally in Engineering and Technology in 2015 QS World University Rankings.

This joint program offers a unique international experience with a semester in Hong-Kong, as well as specialization in airworthiness at ENAC in France. It could also be considered as an option of MSc in IATOM focusing on aircraft conception, maintenance and airworthiness, which have been major cause of concerns for aircraft and engines manufacturers, along with air transport companies globally. This program aims at training managers with a global view on air transport system and improving their ability to work cross-domains; specifically throughout the aircraft life-cycle, that is from the conception of aircraft, development, operation, maintenance to safety.

Upon graduation, each student shall receive a joint institutional Master of Science in International Air Transport Operations Management (MSc IATOM) degree certificate from ENAC and HKUST. Since the IATOM degree is accredited and recognized by the French Ministry of Higher Education, a separate certificate recognized by the French Ministry of Higher Education will be issued by ENAC.

Program

Structure

In order to graduate with the 2-year MSc (IATOM) degree, each student has to complete total of 120 ECTS including the 30 ECTS of internship.

Students are required to complete the first term at HKUST in Hong Kong (HK), the second and third terms at ENAC in Toulouse (TLS), France, and then a 6-month internship in the air transport industry in the last term. In order to start the third term at ENAC, each student has to complete 60 ECTS.

Courses

1st Semester (HKUST): Fundamentals

Students are required to take at least 9 credits of foundation courses in the first term at HKUST, to fulfill the graduation requirement. The remaining credits can be taken from the foundation or elective courses.

Foundation Courses:

- Fluid Dynamics
- Advanced Aerodynamics
- Advanced Aircraft Structures
- Advanced Aircraft Design
- Aircraft Flight Dynamics
- Aircraft Propulsion
- Aeronautical Independent Project
- Six Sigma Quality Management

Elective Courses:

- Fracture Behavior of Polymers
- Robotics: Mechanics and Control
- Advanced Flow Instability
- Composites and Nanocomposites
- Computational Fluid Dynamics
- Computational Aeroacoustics
- Advanced Mechanical Behavior of Materials
- Finite Element Methods
- Special Topics
- Operation/Production Management

2nd Semester (ENAC) : Basics in Aircraft Certification, Operations and Maintenance

- Design Principles
- Production Process
- Operator's Responsibilities
- MRO Constraints
- Manufacturer's Role
- Safety Management System

3rd Semester (ENAC): Aviation Management

- Aircraft Performances Optimization – Specialization
- Flight Control System
- Maintenance Management and Engineering
- Airspace Organization and ATM
- Airline Strategy
- Marketing, Customer Support and Fleet Management
- Human Resources Management
- Fleet Planning and Crew Management
- Social Sciences

4th Semester

5 to 6-month master thesis carried out in aeronautical company, airline, airport etc.

Master thesis is concluded by a written report and an oral defense in front of jury composed of academics and expert of industry

Admission

Applicants for an “Master of Science” program must have a Completed Bachelor Degree in Electrical Engineering, Aerospace Engineering, Mechanicals, Mathematics, Physics or equivalent, Mechatronics,

Physics...

Requested language qualification :

- TOEFL 550 (PBT)
- IELTS 6.0

For this program in partnership with HKUST, please use [the HKUST online application website ///](#)

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Documents

À voir aussi

Contact

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