



## INFORMATION TECHNOLOGIES APPLIED IN AVIATION

Master programme, taught in English 2 semesters, 120 ECTS

25 students without tuition fee 2 full scholarships for African students

## CAREER PROSPECTS

The master will ensure knowledge and skills for challenging current and new jobs, such as: Chief IoT, Data architect, Cybersecurity engineer, Environmental Analyst, Virtualisation engineer, Developer, Responsible with digital data, Data Scientist, Airport UX Designer, Growth Hacker, Mechatronic Engineer.

**Professional partners:** Menzies Aviation, Cluj Airport, Blue Air, Safety Investigation and Analysis Authority, Iași Airport, Romanian Airports Association, Croatia Airlines.

International aviation partner organizations: ACI, ICAO

This master programme strongly focuses on digitalization of air transport, ensuring cross-disciplinary skills in aviation and ICT and a holistic understanding of ICT options and methods applied in aviation. Students will acquire learning outcomes for developing, analyzing and managing innovative and advanced ICT systems for air transport industry.

Academic partners: University of Zagreb, Instituto Superior Técnico Lisbon, University of Strasbourg, University of Zilina, École Nationale Supérieure des Mines d'Albi-Carmaux.

\* The master programme is in process of accreditation; expected start date: October 2019



## YEAR 1 YEAR 2 **SEMESTER I SEMESTER III** ■ Air Transport Economics □ Data & Decision Support Management □ Strategic Management in Aviation □ CAD/CAM Methodology □ Student Research Computer Vision Unmanned Air Vehicles and their IT A. STUDENTS WITH A BACKGROUND IN IT Aerodynamics and Flight Mechanics ☐ Cybersecurity Systems Management in Airline Operations Aviation Reliability of Hardware and Airport Management and Infrastructure Software in Aviation Air Traffic Management **SEMESTER IV** B. STUDENTS WITH A BACKGROUND IN AERONAUTICS ■ Ethics Software Engineering ■ Student Research Master Directors System Engineering Development **SORIN EUGEN ZAHARIA** • Data center architecture **ADINA PAVEL** Smart Data Processing **SEMESTER II CONTACT US** ☐ Aviation Operations Optimization Methods ☐ Modeling Theory And Tools in Aeronautical Industry Web-site: www.upb.ro ☐ Specific Platforms and Tools for Aeronautical Industry □ ATM Information Network Management www.unesco.chair.upb.ro Telephone: +40 214029097 □ Aviation Safety Management A. Airworthiness +40 214029096 B. Intelligent Interfaces E-mail: unesco.office@upb.ro