



Università  
degli Studi di  
Messina  
DIPARTIMENTO DI GIURISPRUDENZA  
"SALVATORE PUGLIATTI"



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## PROGRAMME

### OF THE FIRST LEVEL

### MASTER IN AVIATION: SUSTAINABLE DEVELOPMENT GOALS

Academic Year 2025/2026

(First Edition)

N.	MODULE	SPECIFIC EDUCATIONAL OBJECTIVES AND CONTENTS	CLASS HOURS	Credits
1	FUNDAMENTALS OF FLIGHT AND AIR LAW	<ul style="list-style-type: none"> <li>- Fundamentals of Flight and History of Aviation</li> <li>- Sources of Air Navigation Law and Analogy</li> <li>- Freedoms of the Air and Traffic Rights: Legal Aspects</li> <li>- American Deregulation and European Liberalization: Legal Aspects</li> <li>- Civil Aviation Bodies and Organizations (ICAO, Eurocontrol, EASA, ENAC, ENAV, ANSV, IATA)</li> <li>- The Operator</li> <li>- Aviation Licensing: Regulatory Aspects: Requirements for Acquiring and Maintaining an AOC (Air Operator</li> </ul>	59 theoretical lessons  29 exercises  30 simulations	9



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		<p>Certificate): Definition, Requirements, Certification Procedures, and Timeframes</p> <ul style="list-style-type: none"> <li>- Ramp Inspection: SAFA/SANA Procedures</li> <li>- Leasing (Contracts, Lessors and Lessees, Civil Liability, Acceptance, and Clauses)</li> <li>- Liability in the Event of Aircraft Accidents, Liability for Liability, and Just Culture Principles</li> <li>- Airport Management: Legal Aspects</li> </ul>		
2	SUSTAINABLE DEVELOPMENT	<ul style="list-style-type: none"> <li>- Concept and Definitions of Sustainability</li> <li>- The Regulatory Evolution of the Principle of Sustainable Development and the Role of Transportation</li> <li>- The Pillars of Sustainability: Economic Sustainability, Environmental Sustainability, Social Sustainability</li> <li>- The Sustainability Goals in the UN 2030 Agenda</li> </ul>	<p>35 theoretical lessons</p> <p>29 exercises</p> <p>30 simulations</p>	6.5
3	SUSTAINABLE TRANSPORT ECONOMY	<ul style="list-style-type: none"> <li>- Basic economic concepts (perfect competition, oligopoly, monopoly)</li> <li>- Airline cost factors (CASK, RASK,</li> </ul>	<p>20 theoretical lessons</p> <p>29 exercises</p> <p>30 simulations</p>	3



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		<p>passenger-kilometer cost, load factor, break-even, etc.)</p> <ul style="list-style-type: none"> <li>- Imposed costs (ATC, Airport Taxes, IATA, etc.)</li> <li>- Green transition and rising flight costs</li> <li>- Sustainable pricing</li> </ul>		
4	SUSTAINABLE TRANSPORT DEVELOPMENT	<ul style="list-style-type: none"> <li>- Applying sustainability principles to the transport sector</li> <li>- European transport policy</li> <li>- Sustainable mobility</li> <li>- Logistics and intermodality for sustainable development</li> </ul>	<p>20 theoretical lessons</p> <p>29 exercises</p> <p>30 simulations</p>	3
5	SUSTAINABLE DEVELOPMENT OF AIR TRANSPORT	<ul style="list-style-type: none"> <li>- Aviation Sustainability</li> <li>- Air pollution from aircraft</li> <li>- Noise pollution from aircraft</li> <li>- EU legislation on the sustainable development of air transport</li> <li>- International legislation on the sustainable development of air transport, with particular attention to ICAO regulations (Annexes), CORSIA (Carbon Offsetting and Reduction Scheme for International Aviation), etc.</li> </ul>	<p>20 theoretical lessons</p> <p>29 exercises</p> <p>30 simulations</p>	3
6	ECONOMICS AND SUSTAINABLE BUSINESS MANAGEMENT	<ul style="list-style-type: none"> <li>- Aircraft Performance</li> <li>- Fuel Purchasing (Policy)</li> </ul>	<p>26 theoretical lessons</p> <p>29 exercises</p>	5



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		<ul style="list-style-type: none"> <li>- Supplies and Procurement</li> <li>- How to Read an Airline Financial Statement</li> <li>- Management Control of an Airline</li> <li>- Environment-Oriented Management of an Airline/Airline Company</li> </ul>	30 simulations	
7	SUSTAINABLE DEVELOPMENT OF A COMPANY	<ul style="list-style-type: none"> <li>- Approaches to sustainability in business: regulatory, ethical, and strategic approaches</li> <li>- Sustainability and corporate social responsibility</li> <li>- Business ethics</li> <li>- Social reporting/environmental sustainability reporting</li> <li>- Risk management and operational processes</li> <li>- Management Sustainability Strategy</li> <li>- Circular economy</li> </ul>	26 theoretical lessons 29 exercises 30 simulations	5
8	SUSTAINABLE AIR TRANSPORT STRATEGIES AND POLICIES	The Air Transport Value Chain <ul style="list-style-type: none"> <li>- Airline Management</li> <li>- Competitive Landscape</li> <li>- Business Model and Business Plan</li> <li>- Revenue Management</li> <li>- Productivity and Costs</li> <li>- Fuel Hedging</li> <li>- Distribution</li> <li>- The Network</li> <li>- Revenue Management</li> </ul>	23 theoretical lessons 29 exercises 30 simulations	3
9	SUSTAINABLE DEVELOPMENT OF AN AIR TRANSPORT ENTERPRISE	<ul style="list-style-type: none"> <li>- Characteristics of the Airline Company</li> </ul>	26 theoretical lessons 29 exercises	5



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		<ul style="list-style-type: none"> <li>- Fuel Policies:</li> <li>Alternative Fuels</li> <li>- Sustainable Aviation Fuel (SAF)</li> <li>- Emissions Trading System (ETS)</li> <li>- Climate Change and the Role of Aviation</li> <li>- Strategic Alliances</li> <li>- Air Transport Pricing Policy</li> <li>- Service Quality and Customer Satisfaction</li> <li>- Green Projects</li> <li>- EMAS (Eco Management and Audit Scheme) Certification</li> <li>- Corporate Management System</li> <li>- Lobbying Against European Union Environmental Policies</li> <li>- Fuel Consumption Reduction and Flight Safety</li> <li>- Environmental Risk Management</li> <li>- The Sustainability of Post-Pandemic Air Transport</li> <li>- National Action Plans as a Voluntary Tool for Emissions Reduction</li> <li>- ICAO's Commitment: Resolution A39-2</li> <li>"Consolidated Statement of Continuing ICAO Policies and Practices Related to Environmental</li> </ul>	30 simulations	
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		Protection – Climate Change" - IATA's Role in a Sustainable Recovery - Aircraft Scrapping/Dismantling: Pollution and the Circular Economy - Sustainable Development of Flight Operations - Legislation and Consumption		
10	AIRPORT SYSTEM AND SUSTAINABILITY	Oil disposal, aircraft washing, noise and environmental pollution; - use of Auxiliary Power Units (APUs) - sustainable airport development - sustainable ground operations development	21 theoretical lessons  28 exercises  30 simulations	3,5
	<b>TOTAL (LESSONS, EXERCISES AND SIMULATIONS)</b>		<b>865</b> (of which: 276 hours of theoretical lessons; 289 hours of practical exercises; 300 hours of simulations)	<b>46</b>
	<b>STAGE/INTERNSHIP</b>		<b>300</b>	<b>10</b>
	<b>INDIVIDUAL STUDY AND FINAL THESIS DRAFTING</b>		<b>335</b>	<b>4</b>
	<b>TOTAL HOURS</b>		<b>1500</b>	<b>60</b>