Scheme of the didactic structure of the Master (sequence and contents of training modules, reference to the different scientific-disciplinary sectors, number of hours dedicated to each module, university credits):

N.	Training modules	Specific training objectives and contents	Scientific- disciplinary sector	Hours	University credits
1	Air Law	 Sources of air law and analogy Freedoms of the Air and traffic rights: legal aspects US Airline Deregulation and EU Air Transport Liberalisation Process: legal aspects Civil aviation authorities and organisations (ICAO, Eurocontrol, EASA, ENAC, ENAV, ANSV, IATA etc.) Air carriers Licensing of air carriers: regulatory aspects Leasing (contracts, lessor and lessee, liability, acceptance and clauses). Liability for Aircraft Accident, safety position and Just culture principles Airport management: legal aspects 	IUS/06	48	8
2	Sustainable Development	 Notion and definitions of sustainability The regulatory evolution of the principle of sustainable development and a pioneering role of transport The pillars of sustainability: Economic Sustainability, Environmental Sustainability, Social Sustainability Sustainability Sustainability goals in the UN Agenda 2030 	IUS/06	24	4
3	Aviation history	 Aviation history The first powered flight The emergence of airlines companies Types of flight The emergence of low cost companies Towards the end of the low cost era? 	IUS/06	6	1
4	Aeronautical engineering (fundamentals of flight) and Aircraft Maintenance	 Aircraft structure (configurations) Aerodynamics Engines and propulsion systems Materials Science and on-board systems Meteorology EASA Part-145 	ING-IND/15 (and other similar sectors)	9	1,5

		- CAMO	GEO/12		
		- Aircraft Inspections (A, B, C, D)			
		- The maintenance reserves			
5	Transport Economics	- Fundamentals of Economics (perfect competition, oligopoly, monopoly)	SECS-P/06	9	1.5
		- Cost factors of an airline (CASK, RASK, pax/km cost, load factor, break even, etc.)	(and other similar sectors)		
		- Imposed costs (ATC, Airport Taxes, IATA, etc.)			
		- Air freedoms and traffic rights: economic aspects			
		- Evolution of air transport			
		- US Airline Deregulation and EU Air Transport Liberalisation Process: economic aspects			
		- Ecological transition and increased cost of flights			
		- Sustainable prices			
6	Air Cargo sector & business jet	 Air Cargo sector: analysis of air routes The P2F reconfiguration The load factor Logistics The main freight airways The role of freight forwarders Customs The business jet: aircraft and fleet models Global market development: China case study The sustainable business model Sustainable development of air cargo The NetJets Case: the private jet airline of Warren Buffett and flight safety Private aviation after the pandemic era: new challenges Sales of business jets Sustainable growth of private terminals 	SECS-P/06 (and other similar sectors)	12	2
7	Licences, certifications, inspections	 Aeronautical licences: requirements to obtain and maintain them AOC (Air Operator Certificate): concept, 	IUS/06	15	2,5

8	Sustainable development of transport	 requirements, certification procedures and the technical time. Ramp Inspection: SAFA/SANA procedures Application of sustainability principles to the transport sector European transport policy Sustainable mobility Logistics and intermodality for sustainable development of transport 	IUS/06	9	1,5
9	Sustainable development of air transport	 Aviation Sustainability Air pollution from aircraft Noise pollution from aircraft EU legislation on sustainable development of aviation International legislation on sustainable development of aviation, with special attention to ICAO Rules (Annexes) and CORSIA (Carbon Offset and Reduction Scheme for International Aviation) Program, etc. 	IUS/06	9	1,5
10	Economics and business management. Business accounts	 Aircraft Performance The purchase of aircraft fuel (policy) Supply and tenders How to read the budget of an airline Management control of airliness Environmental management of airlines/ companies operating in the aviation sector 	SECS-P/06 SECS-P/07	15	2,5
11	Company's sustainable development	 Corporate sustainability approaches: regulatory, ethical and strategic approaches Sustainability and corporate social responsibility Business ethics Social and environmental budget Risk management e operational processes Management Sustanability Strategy Circular Economy 	SEC-P/06 (and other similar sectors)	15	2,5

12	Air transport strategy, policy and finance	 The Value Chain of Aviation Airline Management Competitive scenario Business Model and Business Plan Revenue Management Productivity and costs Fuel Hedging The Distribution The network 	SECS-P/06 (and other similar sectors)	12	2
13	Sustainable development of airline companies	 Characteristics of the air carrier Fuel policies: alternative fuels Sustainable Aviation Fuel (SAF) Emissions trading (ETS) Climate change and the role of aviation Airline Strategic Alliances Air transport pricing strategy Quality service and customer satisfaction "Green" projects Eco-Management and Audit Scheme (EMAS): Certification Business management system Lobbying against EU environmental policies Reduced fuel consumption and flight safety Environmental risk management Aviation sustainability in a post-pandemic world National Action Plans as a voluntary instrument for reducing CO2 emissions ICAO's commitment: Resolution A39-2 "Consolidated statement of continuing ICAO policies and practices related to environmental protection – Climate change" 	SECS-P/06 (and other similar sectors)	15	2,5

14	Airport system and sustainability	 IATA's role in a sustainable recovery Scrapping/dismantling of aircraft: pollution and circular economy Legislation and consumption Disposal of waste oils, aircraft washing, noise and air pollution Use of APU (Auxiliary Power Units) Sustainable development of airports 	SECS-P/06 (and other similar sectors)	3	0,5
15	Communication Airport system and sustainability	- Communication with the media - Internal business communication - Institutional communication	SPS/08	3	0,5
16	Flight Operations	 Selection of personnel The flight planning system Operational coordination and operational guard Technical-operational office The network: aircraft performance in the operating environment The flight dispatcher Sustainable management of flight operations 	M-PSI/06 (and other similar sectors)	18	3
17	Ground operations	 Tasks of the nominated person for ground operations Ticket office Balance operations Ramp operations Baggage Handling Special assistance Handling of dangerous goods Sustainable management of ground operations 	ICAR/05	15	2,5
18	Training	 How to establish an ATO (Air Training Organization) Regulatory requirements Dangerous goods, security (Legislative Decree no. 81/2008) Training programmes Transition programmes 	IUS/06 (e altri settori affini)	15	2,5

	Licences of personnelTraining on sustainability			
19 Human factor & safety	 Theoretical foundations of human factor Human error Human performance and limitations Safety models for sustainable development of air transport Team work (CRM <i>Crew</i> <i>Resource Management</i>, NOTECHS <i>Non-Technical</i> <i>Skills</i>) in professions at risk Organisational factors and organisational sustainability Sustainable automation and ergonomics Psychological resilience and peer support (Wellbeing in aviation: Reg. (EU) 2018/1042) 	SECS-P/11 M-PSI/06 (and other similar sectorsi)	15	2,5
20 Security	 Aviation security legislation Infrastructures Training of staff On board Inspections Cybersecurity and sustainability 	IUS/06 ICAR/06 (and other similar sectorsi)	9	1,5
TOTAL			276	46