

## PIANO FORMATIVO

Master universitario di Secondo livello in

Aviation Industry Management and Operations

|   |                                         |                                                                                                                                                                                                                                                                                                                                    |
|---|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Anno accademico                         | 2025-2026                                                                                                                                                                                                                                                                                                                          |
| 2 | Direttore                               | Guido De Matteis                                                                                                                                                                                                                                                                                                                   |
| 3 | Consiglio Didattico Scientifico         | Alessandro Corsini<br>Giuliano Coppotelli<br>Tiziana D'Alfonso<br>Guido De Matteis<br>Giulio Di Gravio<br>Annalisa Fregolent<br>Massimo Mecella<br>Riccardo Malpica Galassi<br>Franco Mastroddi<br>Fabio Nonino<br>Riccardo Patriarca<br>Giampaolo Romano                                                                          |
| 4 | Delibera di attivazione in Dipartimento | 16/04/2025                                                                                                                                                                                                                                                                                                                         |
| 5 | Data di inizio delle lezioni            | 27/02/2026                                                                                                                                                                                                                                                                                                                         |
| 6 | Calendario didattico                    | Indicativamente dal 27 febbraio al 25 luglio 2026, con alternanza di attività in presenza (attività infrasettimanale; una settimana al mese) e attività in remoto (attività nel giovedì, venerdì e sabato; tre settimane al mese)                                                                                                  |
| 7 | Eventuali partner convenzionati         | Sono full partner del Master:<br>- Ente Nazionale per l'Aviazione Civile, ENAC<br>- Aeroporti di Roma S.p.A.<br>- Atitech S.p.A.<br>- Avio S.p.A.<br>- Creasys S.p.A.<br>- Ente Nazionale di Assistenza al Volo, ENAV S.p.A.<br>- The European Organisation for the Safety of Air Navigation, EUROCONTROL<br>- Leonardo Elicotteri |

|    |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | Requisiti di accesso    | <p>Possono partecipare al Master, senza limitazioni di età e cittadinanza:</p> <ul style="list-style-type: none"> <li>- i laureati magistrali in ingegneria aerospaziale (LM-20) o equivalente</li> <li>- i laureati magistrali nelle classi (LM-21, -22, -23, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -72) o equivalente (si veda la NOTA 1 di seguito)</li> <li>- coloro che sono in possesso di un titolo universitario appartenente ad una qualsiasi classe di laurea magistrale o equivalente (si veda la NOTA 2 di seguito).</li> </ul> <p>Possono accedere al Master anche i possessori di una Laurea conseguita in Italia in base al sistema previgente alla riforma universitaria del D.M. 509/99 equiparata ad una delle classi suindicate, come da tabella ministeriale.</p> <p>(NOTA 1) Sarà titolo di merito in sede di ammissione una esperienza lavorativa pregressa in aziende e/o enti aeronautici, dell'aviazione o nel trasporto aereo, oppure in un settore strettamente correlato.</p> <p>(NOTA 2) Sarà valutata positivamente una esperienza lavorativa pregressa di almeno un anno in aziende e/o enti aeronautici, dell'aviazione o nel trasporto aereo, oppure in un settore strettamente correlato.</p> <p>Possono accedere al Master anche i possessori di una Laurea conseguita in Italia in base al sistema previgente alla riforma universitaria del D.M. 509/99 equiparata ad una delle classi suindicate, come da tabella ministeriale</p> <p><a href="https://www.cun.it/uploads/3852/par_2009_04_23.pdf">https://www.cun.it/uploads/3852/par_2009_04_23.pdf</a></p> |
| 9  | Prova di selezione      | Prevista                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10 | Sede attività didattica | <ul style="list-style-type: none"> <li>- Via Eudossiana, 18 – 00184 Rome (Italy)</li> <li>- Online (solo per alcune attività didattica)</li> <li>- Sarà possibile erogare l'attività didattica o formativa in una sede diversa per necessità operative, previa approvazione del Consiglio didattico scientifico.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11 | Stage                   | Aeroporti di Roma (ADR)<br>aiComply<br>airsight<br>Atitech<br>Avio<br>Creasys<br>ENAV<br>EUROCONTROL<br>Leonardo Elicotteri<br>Lufthansa Systems<br>TMC<br>ITA Airways                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|    |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      |
|----|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | Modalità di erogazione della didattica                              | Mista; si prevedono moduli/attività formative erogate in presenza e altre a distanza.                                                                                                                                                                                                                                                                                                |
| 13 | Finanziamenti esterni, esenzioni, agevolazioni o riduzioni di quota | <p>Si</p> <p>Sono previste esenzioni e/o riduzioni della quota di iscrizione secondo quanto previsto dai protocolli di intesa stipulati con le aziende e gli enti coinvolti nel Master.</p> <p>Per accedere all'esenzione totale dal pagamento della quota di iscrizione è necessaria la disponibilità a svolgere il tirocinio presso una delle aziende full partner del master.</p> |
| 14 | Contatti Segreteria didattica                                       | <p>Indirizzo:<br/>Dipartimento di Ingegneria Meccanica e Aerospaziale, Via Eudossiana 18, 00184 Rome (Italy)</p> <p>e-mail:<br/>master.avimo@uniroma1.it</p>                                                                                                                                                                                                                         |

### Piano delle Attività Formative

| Denominazione attività formativa             | Obiettivi formativi                                                                                                                                                           | Docente         | Settore scientifico disciplinare (SSD) | CFU | Tipologia                        | Verifica di profitto (Se prevista, e modalità)                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|-----|----------------------------------|----------------------------------------------------------------------------------------|
| Modulo I: Perspectives on Aviation Law (PAL) | To provide a systematic understanding of aviation national and international laws and regulations, allowing participants to define their impact on management and operations. | Prof. Mastroddi | IIND-01/D (ex ING-IND/04)              | 3   | Lezioni, Esercitazioni, Seminari | Yes.<br><br>Multiple choice test at the completion of the module.                      |
| Modulo II: Supply Chain Management (SCM)     | To provide participants with the foundational principles and business models, and business strategies for the delivery of aviation goods and services.                        | Prof. Di Gravio | IIND-05/A (ex ING-IND/17)              | 3   | Lezioni, Esercitazioni, Seminari | Yes.<br>Multiple choice test at the completion of the module, and case study analysis. |

|                                                             |                                                                                                                                                                                                                                                                                   |                                                                                      |                                                                                                                                       |   |                                        |                                                                                                                                                                                           |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulo III: Project Management and Financial Analysis (PMF) | To demonstrate the role of Project and Portfolio Management for translating strategies into results and to equip participants with the methodologies for establishing a project, building a business case, managing portfolio risks, and analyse market requests and investments. | Prof. D'Alfonso (resp.)<br>Altri docenti coinvolti:<br>Prof. Nonino                  | IEGE-01/A<br>(ex ING-IND/35 )                                                                                                         | 8 | Lezioni,<br>Esercitazioni,<br>Seminari | Yes.<br>Summative assessments will take place at the completion of the module based on a written report on an assignment, carried out either individually or as small group projects.     |
| Modulo IV: Analytics and Business Intelligence (ABI)        | To provide principles for designing data warehouses, and for developing and deploying advanced Business Intelligence systems to facilitate data mining and knowledge discovery, including AI solutions.                                                                           | Prof. Fregolent (resp.)<br>Altri docenti coinvolti:<br>Prof. Corsini e Prof. Mecella | IIND-02/A<br>(ex ING-IND/13)<br>(2 CFU)<br><br>IIND-06/A<br>(ex ING-IND/08)<br>(2 CFU)<br><br>IIND-01/E<br>(ex ING-INF/05)<br>(2 CFU) | 6 | Lezioni,<br>Esercitazioni,<br>Seminari | Yes.<br><br>Summative assessments will take place at the completion of the module based on a written report on an assignment, carried out either individually or as small group projects. |

|                                                       |                                                                                                                                                                                                             |                                                                            |                                                                                        |   |                                        |                                                                                                                                                                                           |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulo V:<br>Airworthiness and<br>Certification (AWC) | To provide knowledge and tools for compliance management as a means for managing certification and airworthiness processes and to be capable of implementing regulations in different operational settings. | Prof. Coppotelli (resp.) Altri docenti coinvolti:<br>Prof. Malpica Galassi | IIND-01/D<br>(ex ING-IND/04)<br>(3 CFU)<br><br>IIND-01/G<br>(ex ING-IND/07)<br>(3 CFU) | 6 | Lezioni,<br>Esercitazioni,<br>Seminari | Yes.<br><br>Summative assessments will take place at the completion of the module based on a written report on an assignment, carried out either individually or as small group projects. |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                   |                                                                                                                                                                                                                                        |                 |                              |   |                                        |                                                                                                                                                                                           |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|---|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulo VI: Risk and<br>Safety Management<br>(RSM) | To explore the structure of aviation safety management systems, equipping participants with the various methods for socio-technical safety and resilience assessment, including just culture programmes and human resource management. | Prof. Patriarca | IIND-05/A<br>(ex ING-IND/17) | 6 | Lezioni,<br>Esercitazioni,<br>Seminari | Yes.<br><br>Summative assessments will take place at the completion of the module based on a written report on an assignment, carried out either individually or as small group projects. |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|---|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                  |                                                                                                                                                                                                                                                                                                                                                                       |                                                                |                                                                            |    |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulo VII: Aviation Operations Management (AOM) | To provide an understanding of the relationships and coordination among aviation stakeholders and to apply data-driven digital solutions for optimizing flight, ground, air traffic (including collaboration between Air Traffic Management, ATM, and Uncrewed Traffic Management, UTM) and maintenance operations to ensure safety, efficiency, and sustainability.  | Prof. De Matteis (resp.) Altri docenti coinvolti: Prof. Romano | IIND-01/C (ex ING-IND/03) (3 CFU)<br><br>IIND-01/F (ex ING-IND/06) (3 CFU) | 6  | Lezioni, Esercitazioni, Seminari                                                                                                                                                                                                                                                                           | Yes.<br><br>Summative assessments will take place at the completion of the module based on a written report on an assignment, carried out either individually or as small group projects. |
| Tirocinio/Stage/Progetto di innovazione          | To delve into thematic aspects from an operational perspective, allowing the participants to conduct an innovation project in one of the partner companies. Each participant will apply his/her expertise to a complex challenge to generate a tangible outcome, and develop the skills acquired through the basic and advanced modules in dynamic work environments. |                                                                | -                                                                          | 18 | Participant's performance and growth during the innovation project will be assessed by the company supervisor over four areas of knowledge and skills: application/integration and building of knowledge, problem solving/decision making, initiative and self-management, and interpersonal and teamwork. |                                                                                                                                                                                           |
| Altre attività                                   | To practice the articulation of concepts, ideas, and questions, challenging them against diverse industrial points of view.                                                                                                                                                                                                                                           |                                                                | SSD non richiesto                                                          | 1  | Keynote lectures by senior figures and high-level personalities in the aviation industry.                                                                                                                                                                                                                  |                                                                                                                                                                                           |

|              |                                                                                                                                                                                |                      |    |                                                                                                                                                                                                                                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prova finale | The final examination consists of the presentation and discussion of a technical report prepared by the candidate on the activities carried out during the innovation project. | SSD<br>non richiesto | 3  | Preparation of final report on the internship project/innovation project and delivery of its presentation.<br><br>The final mark is obtained by the grades in the modules, and the assessment of internship activities by the company supervisor, and of the final report and presentation. |
| TOTALE CFU   |                                                                                                                                                                                |                      | 60 |                                                                                                                                                                                                                                                                                             |