Educational Series & Academy

LIST OF COURSES 2022

AIDAA is pleased to announce the **list of courses for 2022** in the framework of the institutional activities for members organized by the Educational Series and Academy technical committee.

Courses will be **online on Webex**, and exact dates will be announced for each course via dedicated web pages on www.aidaa.it. **Twenty-three courses** are scheduled to date, but a few more could be added.

Participation fees are indicated below, and registration platforms will be available soon.

At the end of each course, **attendance certificates** will be sent to participants.

For further info: **academy@aidaa.it.**

Title	Speakers	Duration (hours)	Dates (quarter)
Challenges and opportunities for the aerospace frontier research offered by the ERC and the MSCA programme	C. Colombo and F. Topputo – Politecnico di Milano A. Giacomello – Università La Sapienza A. Pagani – Politecnico di Torino	4	1
Economic assessment of future environmentally sustainable high-speed vehicles	R. Fusaro, D. Ferretto, and N. Viola – Politecnico di Torino	8	1
Multiscale techniques for nonlinear analysis of composite structures	I. Kaleel – NASA Glenn M.H. Nagaraj – University of Massachusetts Lowell	8	2
Sound transmission control through optimized composite sandwich lattice panels	C. Orlando and S. Valvano – Università di Enna Kore	8	2
Boosting the commercialisation of space activities	L. Del Monte, A. de Clercq, and C. Eldering - ESA	4	2
Optical methods for spacecraft attitude and orbit determination	D. Modenini – Università di Bologna	6	2
High-speed civil aircraft on-board systems integration	N. Viola, R. Fusaro, and D. Ferretto – Politecnico di Torino	8	2
Aerothermodynamic and propulsive investigations to support pollutant and greenhouse gases emissions estimation of future high-speed vehicles	M. Marini, P. Roncioni, G. Saccone, and L. Cutrone - CIRA	4	2

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Tethers in space: deorbiting and power generation	G. Colombatti – Università di Padova	4	3
Toward smart air mobility: a model-based design approach	E.L. de Angelis – Università di Bologna	6	3
Basics of corrosion and protection of metals for aerospace	F. Di Franco and A. Zaffora – Università di Palermo	10	3
High-order accurate numerical methods in aeronautics at the Exascale	V. Gulizzi – Università di Palermo	8	3
Nonlinear spacecraft attitude control	F. Celani – Università La Sapienza	4	3
Aircraft impact dynamics	M. Guida – Università di Napoli	4	4
An overview on space debris protection best practices	L. Olivieri – Università di Padova L. Barilaro - Malta College of Arts, Science and Technology	4	4
Numerical models for the solution of multifield problems	E. Zappino – Politecnico di Torino	8	4
Innovative propulsion system in service of small satellites	D. Pavarin and F. Barato - Università di Padova E. Toson – T4i	4	4
Planetary probes entry and descent science	A. Aboudan – Università di Padova	4	4
Introduction to the design of LEO nanosatellite orbits for local coverage	C. Bettanini – Università di Padova	4	4
Numerical modeling of hypersonic flows	F. Bonelli – Politecnico di Bari L. Sciacovelli - DynFluid Laboratory of Arts & Métiers Institute of Technology	8	4
The space environment interaction engineering: physics, test technology and experimental validation	A. Delfini – Università La Sapienza	6	4
Full flight simulator: testing and research platform	A. Alaimo and A. Esposito – Università di Enna Kore	8	4
HMI design in aeronautics	S. Bagassi and F. De Crescenzio – Università di Bologna	6	4

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LIST OF COURSE PACKAGES 2022

AIDAA courses are part of the institutional activities of the Association for its **members**. As detailed below, an online payment platform will be available soon to purchase courses packages. For further info: **academy@aidaa.it.**

PACKAGES FOR ORGANIZATIONS (UNIVERSITIES, DEPARTMENTS, COMPANIES, ETC.)

For each package it is possible to select **one of the two** options.

ID	Price (EUR)	Content and benefits *
E1	650	A. **5** accesses to each course or B. **100** tokens to access courses
E2	1200	A. **10** accesses to each course or B. **200** tokens to access courses
E3	5000	A. **50** accesses to each course or B. **1000** tokens to access courses
E4	8000	A. **100** accesses to each course or B. **2000** tokens to access courses

*Each package includes 1-year AIDAA Membership for the organization.

PACKAGES FOR INDIVIDUALS

ID	Price ** (EUR)	Content and benefits *
I1	40	**2** tokens
I2	80	**6** tokens
I3	160	Access to **all** courses

*Each package includes 1-year AIDAA Membership.

** For AIDAA members the price of I2 and I3 is 40€ and 120€, respectively.