ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
CAMPUS DI FORLÌ

Master's degree in Aerospace Engineering

Thursday, September 15th 2022

School of Engineering- Forlì Campus

Department of Industrial Engineering

Via Montaspro, 97 Forlì

Welcome Day – Master's degree in Aerospace Engineering

- 09.15 Opening greetings
- 09.25 Master's Degree presentation
- 10.45 Coffee break
- 11.15 Extra-curricular activities presentation
- 12.30 Event ending

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Welcome greetings

Prof. Emanuele Menegatti

President of Forlì Campus

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Welcome greetings

Prof. Fabrizio Giulietti

Degree Director

Aerospace engineering degrees in Forlì

DIPARTIMENTO DI
INGEGNERIA INDUSTRIALE - DIN

ALMA MATER STUDIORUM
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Master's degree in Aerospace Engineering

Who are we?

Laurea Magistrale

Master's Degree

2° cycle degree

The Master's Degree in Aerospace Engineering takes students on to a career in the aerospace and high tech industries or research.

Graduates from the programme may work with aerospace, marine, mechanical and automotive industries, including those dedicated the production of wind energy. Airlines and government agencies for Air Traffic Control are also among the possible employments.

Graduates in the space sector may find jobs with national or international space agencies. Graduate students can also access PhD and other post-graduate research degrees.

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The University of Bologna is member of the PEGASUS Network

PEGASUS is the partnership of the best European aerospace universities and currently has 28 members in 11 different European countries.

Graduates from the University of Bologna will receive:
- a European certificate;
- an award in recognition of an individual student's multi-national experience.

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Master's degree in Aerospace Engineering

DIN – Department of Industrial Engineering

School of Engineering

Forlì Campus

DIN offers courses in:

- Aerospace Engineering
- Mechanical Engineering

In Forlì

Aerospace Engineering Degree: Structure

Aerospace Engineering

1st Level
Bachelor's Degree (Laurea)

3 years

180 CFU | **20 exams**

2nd Level
Master's Degree
(Laurea Magistrale)

In English

2 years

120 CFU | **12 exams**

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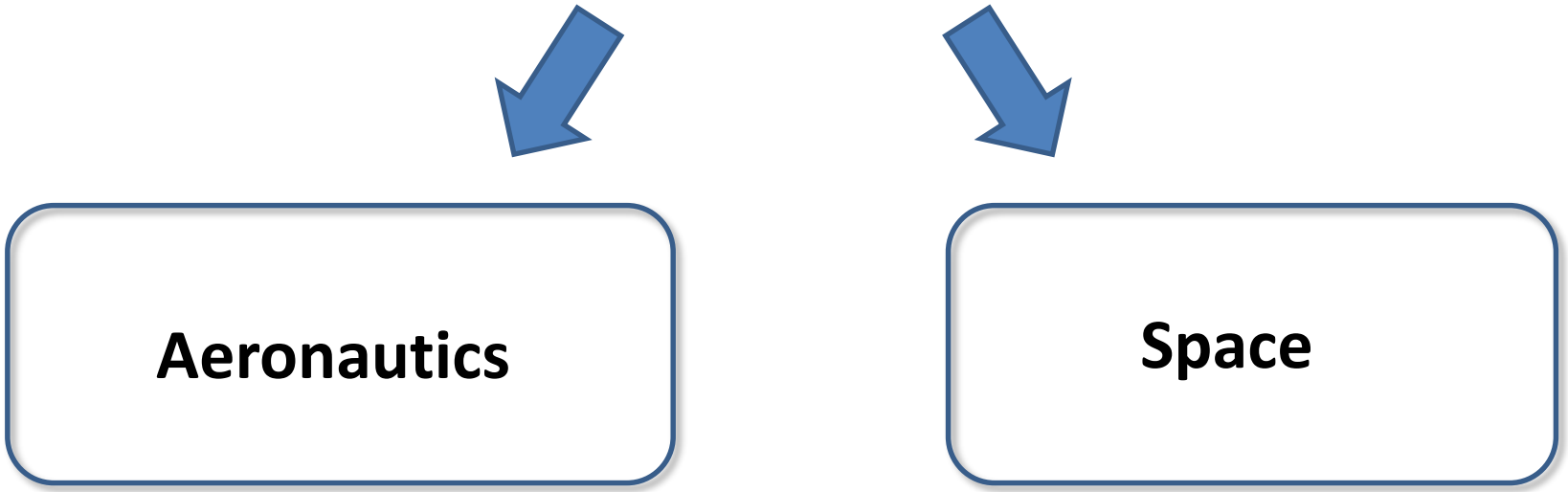
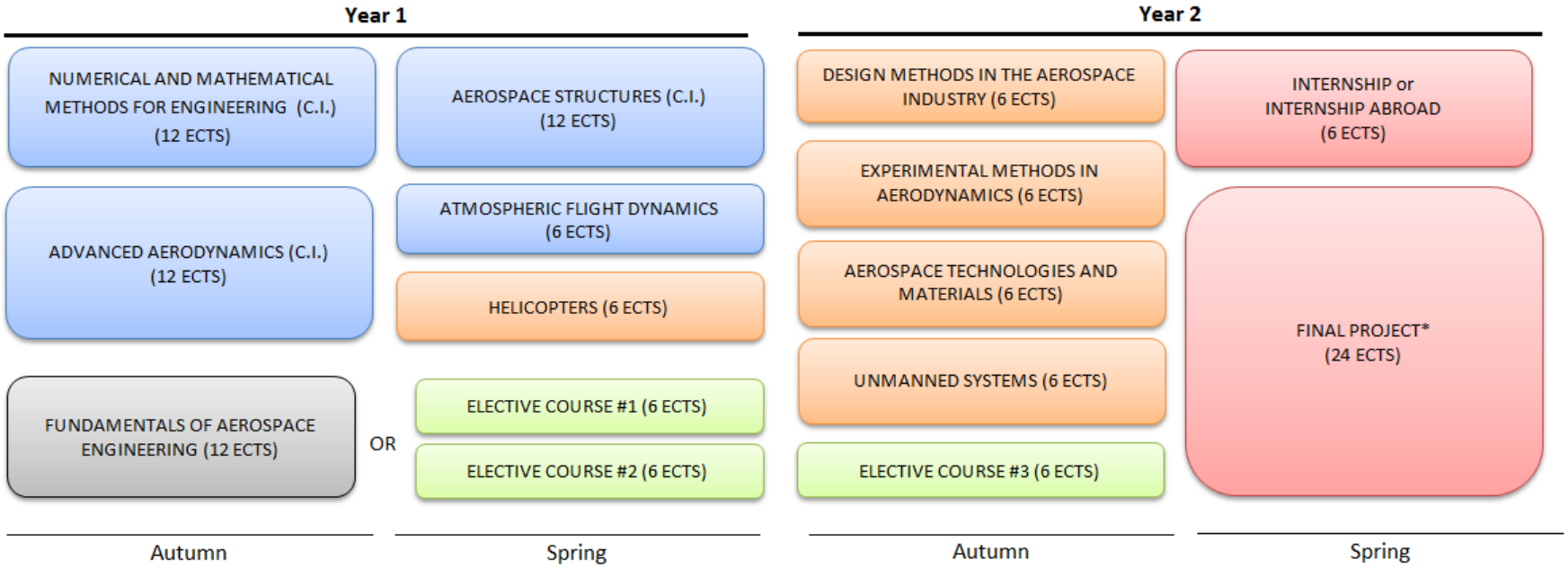
Master's Degree in Aerospace Engineering: Structure

Starting from A.A. 2020/2021 the Master's Degree offers

2 curricula



Master's degree in Aerospace Engineering: curriculum Aeronautics



Key:

- Furthering Basic Knowledge – For non-aerospace students only
- Aerospace Engineering Core Modules
- Elective Modules
- Aeronautics Curriculum modules
- Individual Project Work

*The FINAL PROJECT can be made up of different activities:

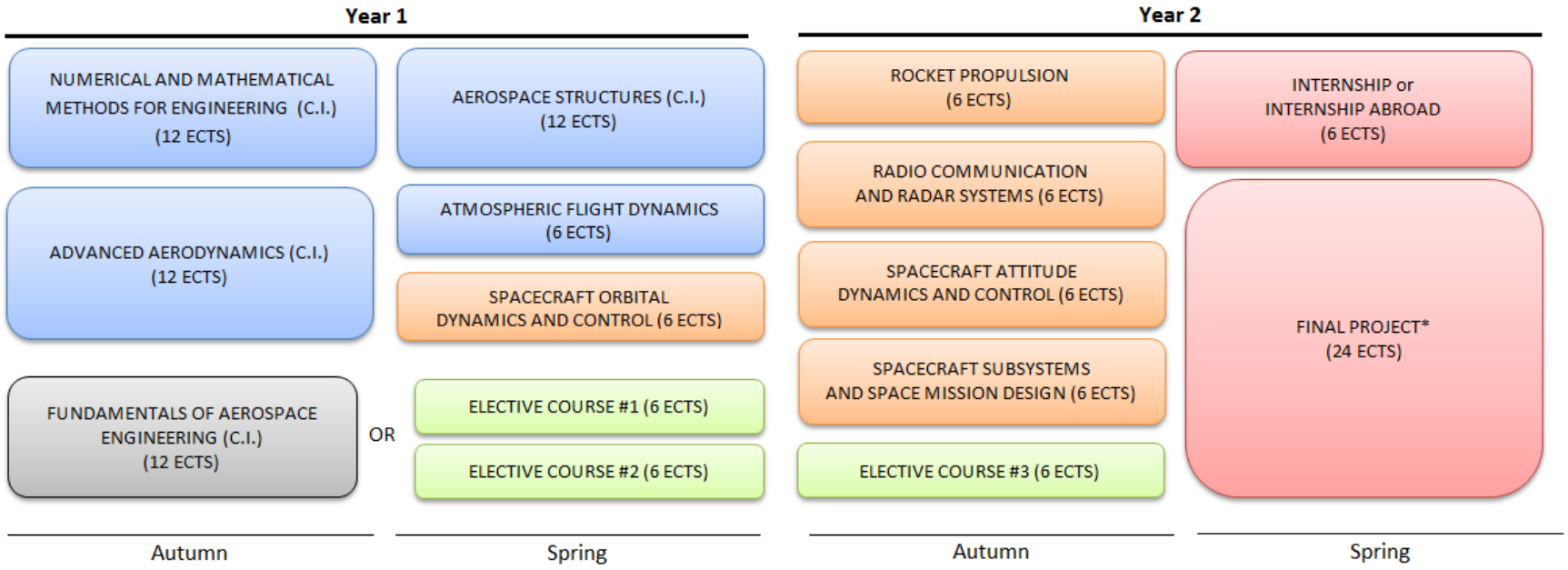
-FINAL PROJECT (24 ECTS)

-INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)

-INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

-THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

Master's degree in Aerospace Engineering: curriculum Space



Key:

- Furthering Basic Knowledge – For NON-AEROSPACE STUDENTS ONLY
- Aerospace Engineering Core Modules
- Elective Modules
- Space Curriculum modules
- Individual Project Work

*The FINAL PROJECT can be made up of different activities:

-FINAL PROJECT (24 ECTS)

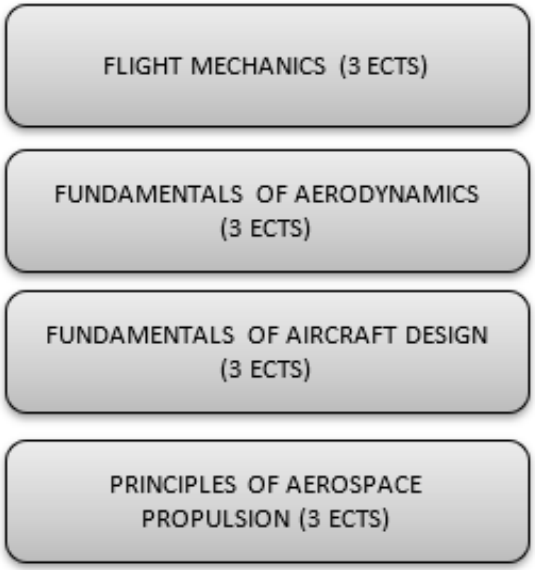
-INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)

-INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

-THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (16 ECTS)

Fundamentals of Aerospace Engineering

Fundamentals of Aerospace Engineering I.C. is exclusively reserved to students who achieved less than 24 ECTS in the scientific disciplinary sectors ING/IND-03, ING/IND-04, ING/IND-05, ING/IND-06, ING/IND-07 (or equivalent if obtained abroad) in the previous university career. These students are notified during selection and admission procedures.



Master's degree in Aerospace Engineering: Elective teaching activities

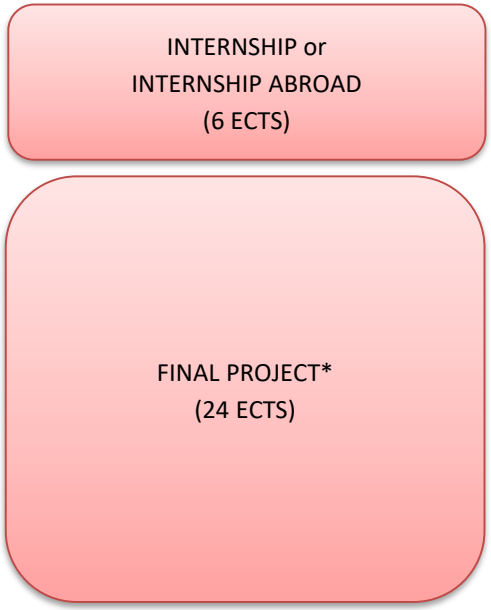
Elective modules #1 and #2 – Spring

- SIMULATION AND MODELING IN FLUID DYNAMICS (6 ECTS)
- HELICOPTERS (6 ECTS)
- SPACECRAFT ORBITAL DYNAMICS AND CONTROL (6 ECTS)
- FUNDAMENTALS OF ASTROPHYSICS (6 ECTS) – TAUGHT IN BOLOGNA
- MATERIALS CHEMISTRY (6 ECTS)

Elective modules #3 – Autumn

- ROCKET PROPULSION (6 ECTS)
- RADIO COMMUNICATION AND RADAR SYSTEMS (6 ECTS)
- SPACECRAFT ATTITUDE DYNAMICS AND CONTROL (6 ECTS)
- SPACECRAFT SUBSYSTEMS AND SPACE MISSION DESIGN (6 ECTS)
- ADVANCED GUIDANCE AND CONTROL OF AIRCRAFT AND SPACECRAFT (6 ECTS)
- DESIGN METHODS IN THE AEROSPACE INDUSTRY (6 ECTS)
- EXPERIMENTAL METHODS IN AERODYNAMICS (6 ECTS)
- AEROSPACE TECHNOLOGIES AND MATERIALS (6 ECTS)
- UNMANNED SYSTEMS (6 ECTS)

Master's degree in Aerospace Engineering: Internship and Final Thesis



*The FINAL PROJECT can be made up of different activities:

-FINAL PROJECT (24 ECTS) **or**

-INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)

-INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

-THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

IMPORTANT

Integrated activity I.C. -> all the modules forming the integrated activity must be sat and passed in order to register the mark.

Be careful for any scholarships or fee exemption requiring a minimum number of credits

Only exception-> Erasmus exchange students

Master's Degree in Aerospace Engineering

Some Teaching Activies

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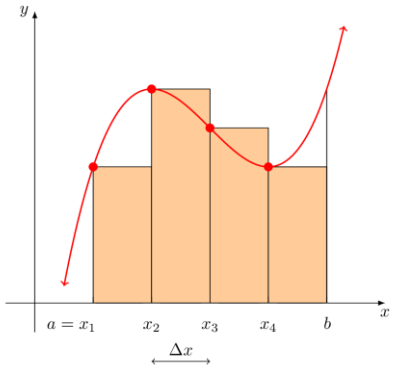
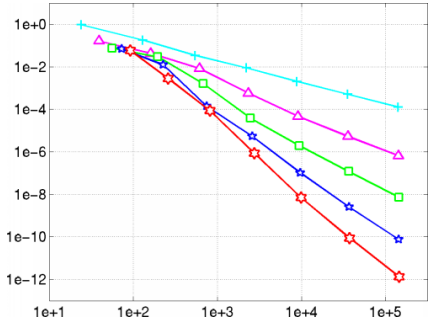
37261 – NUMERICAL ANALYSIS

1st year - fall semester

How to solve mathematical problems that cannot be solved exactly?

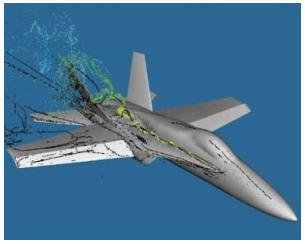


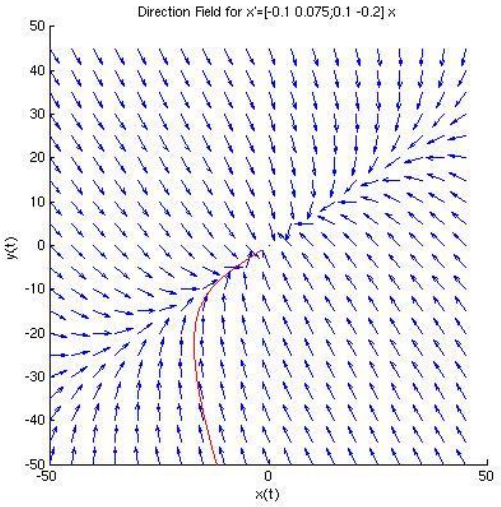


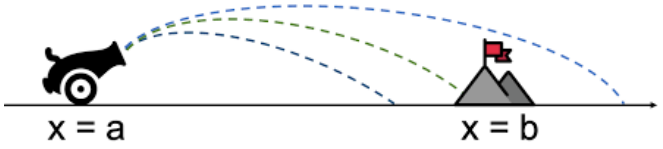
Approximate integrals and derivatives

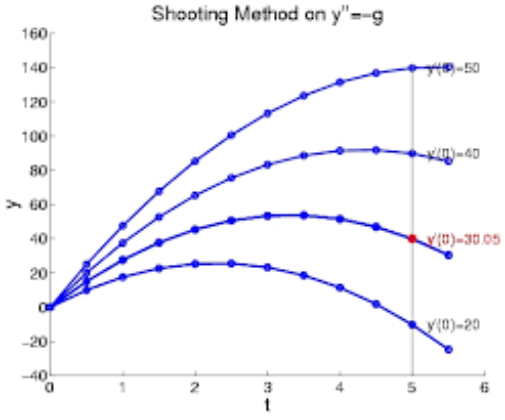
➡ Analysis of error behaviours

Approximate solutions of ODEs









lucia.romani@unibo.it

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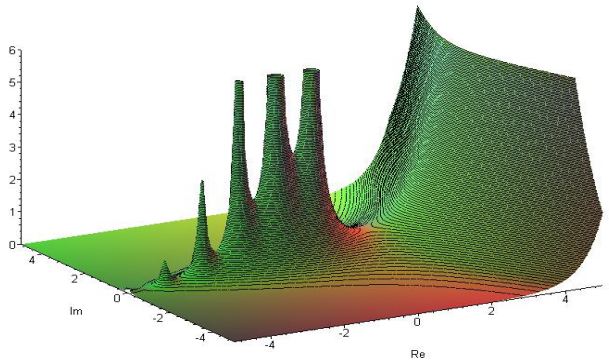
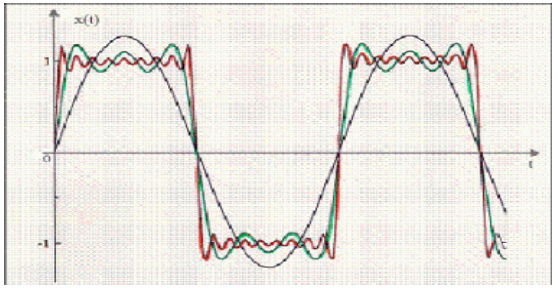
35143 – MATHEMATICAL METHODS FOR ENGINEERING

1st year - fall semester



Complex Analysis: application to real integrals and evaluation of singularities

Fourier Analysis:
approximation of signals



Probability

matteo.franca4@unibo.it

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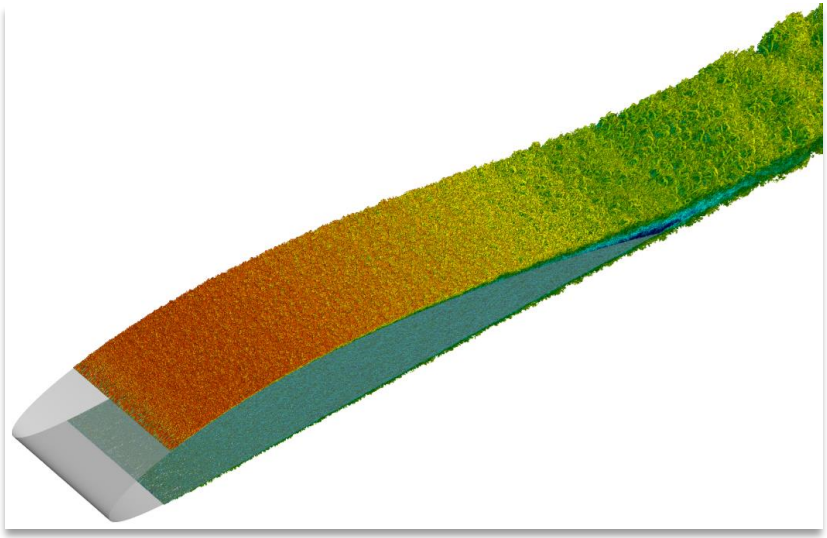
93750 - Flow Stability And Turbulence

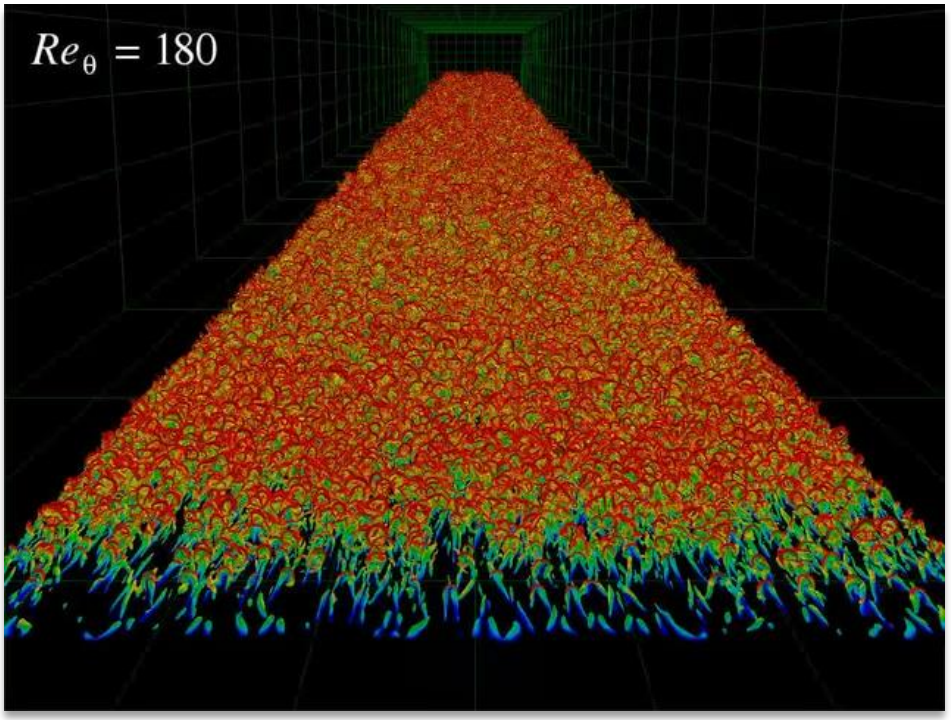
1st year - autumn semester

Viscous flow solutions

Hydrodynamic instability and transition

Turbulence





philipp.schlatter@unibo.it and ramis.orlu2@unibo.it

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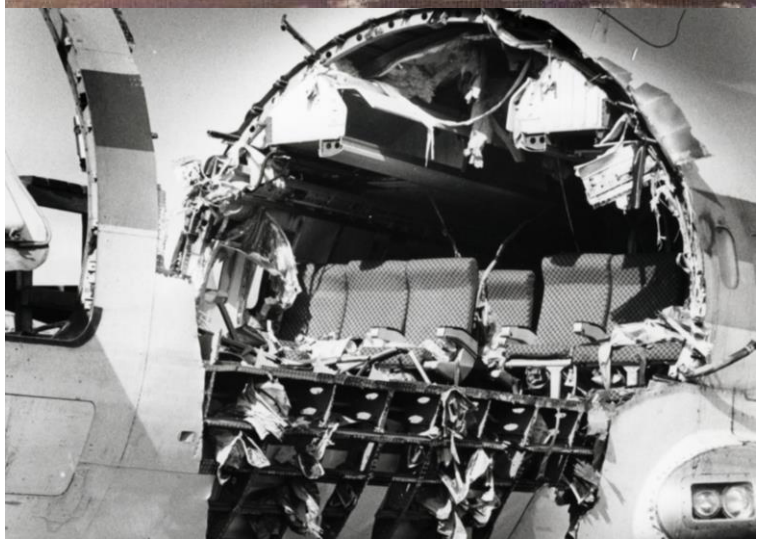
93847 - Fatigue and Damage Tolerance

1st year - spring semester



Fatigue life assessment

Fatigue damage growth prediciton

Residual strength of structures

r.c.alderliesten@tudelft.nl / j.a.pascoe@tudelft.nl

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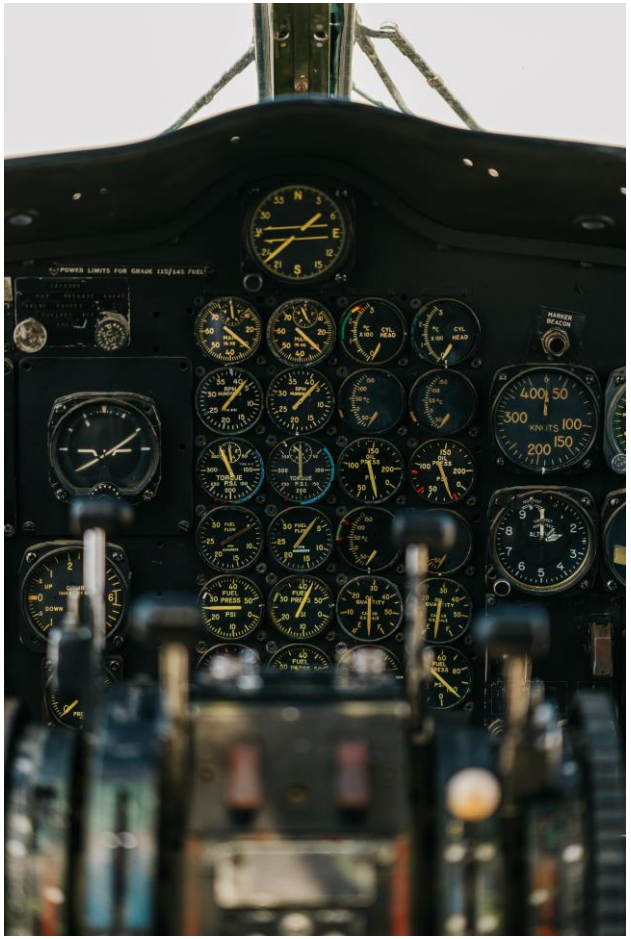
93848 - ATMOSPHERIC FLIGHT DYNAMICS

1st year - spring semester



Fixed wing aircraft dynamics

Flight simulation

Flight control system design

fabrizio.giulietti@unibo.it

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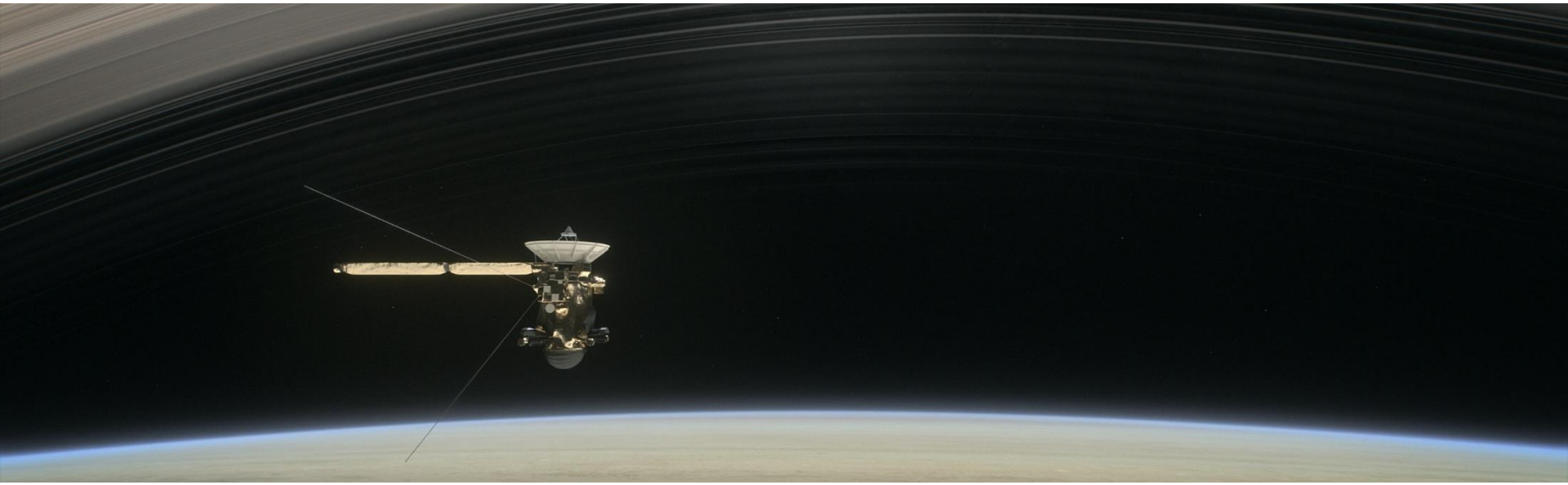
73202 - SPACECRAFT ORBITAL DYNAMICS AND CONTROL

1st year - spring semester



- orbital dynamics of an artificial satellite, including interplanetary trajectories.
- strategies for orbital maintenance, rendezvous, injection into an interplanetary trajectory and around a target planet.
- Hands-on activities on trajectory optimization and orbit determination with Python

m.zannoni@unibo.it

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93849 - HELICOPTERS

1st year - spring semester

Part 1

Hovering helicopter

Vertical flight

Forward flight

sven.vanwilder@unibo.it

Part 2

Rotor flapping characteristics

Trim & Static stability

Design considerations

elmargustav.recker@unibo.it

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73369 – Materials Chemistry

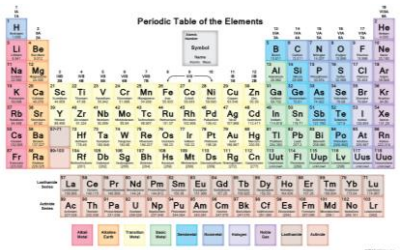
1st year - second semester

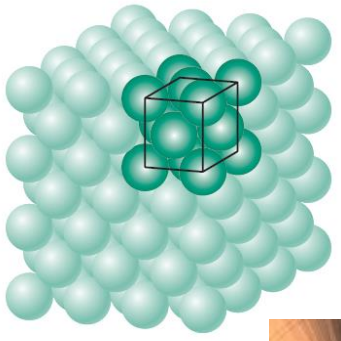
For the different classes of materials a focus on the relationships between:

- ✓ nature of atoms, chemical bonds, structure, morphology

⟺

- ✓ physical properties and final performances





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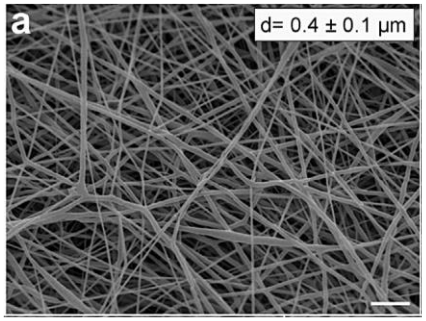

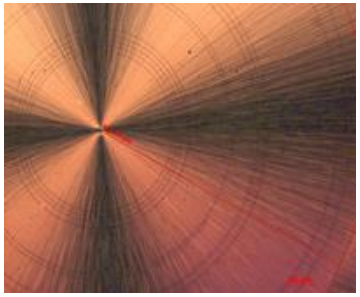

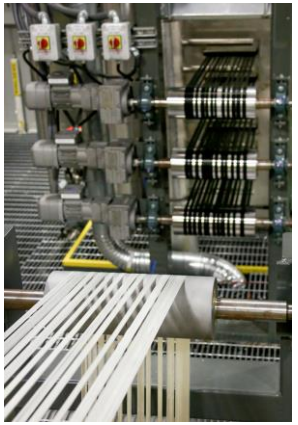

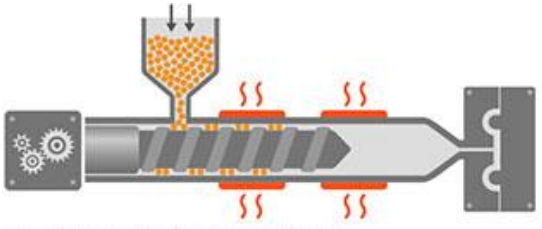

annamaria.celli@unibo.it

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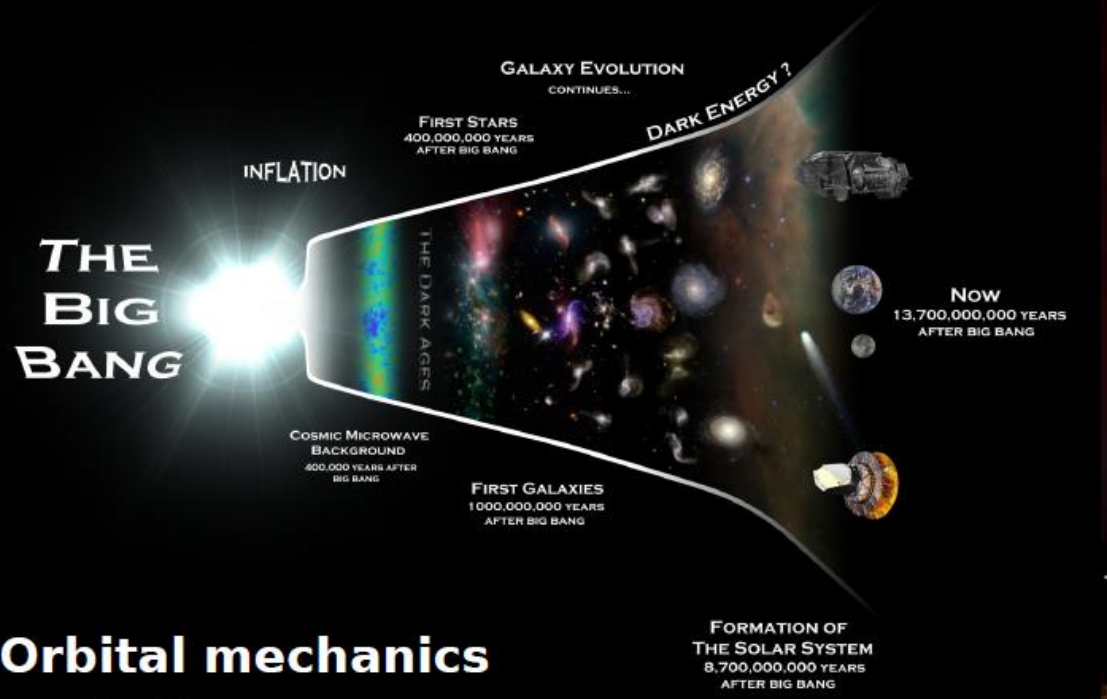
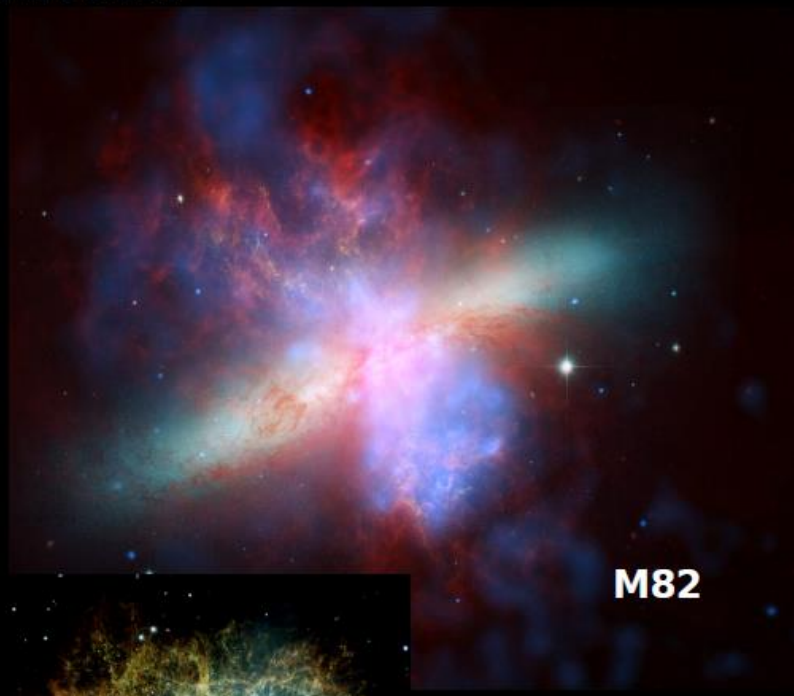
91187 – FUNDAMENTALS OF ASTROPHYSICS

1st year - spring semester





M82

Crab nebula

Orbital mechanics
Radiative processes
Stellar interiors and evolution
The interstellar medium
Cosmology and galaxy formation

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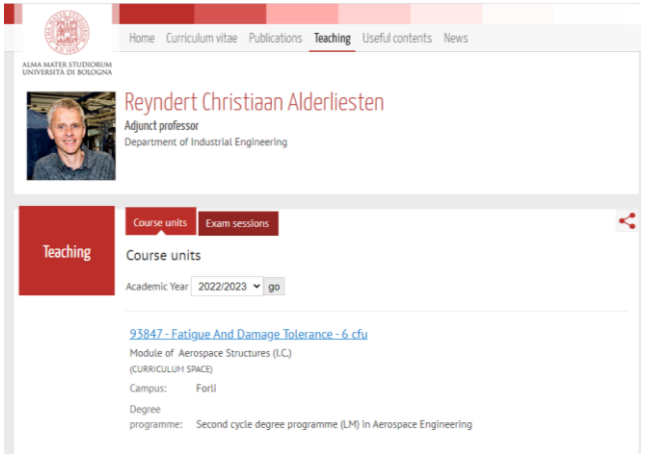
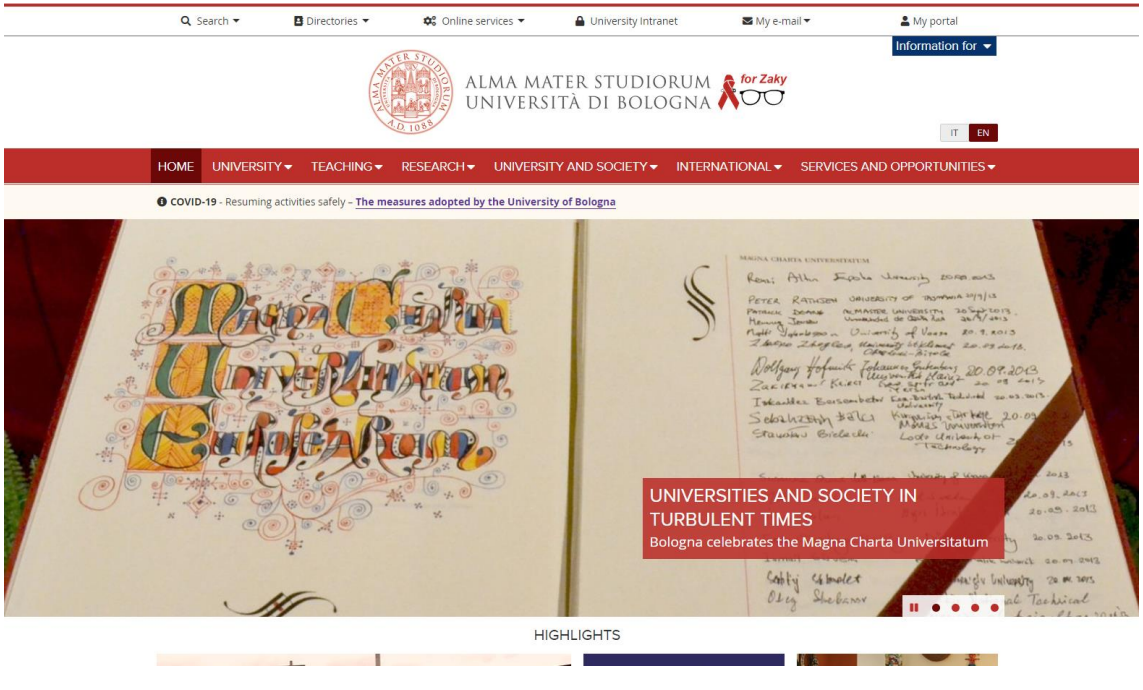
Where can I find all this information?

- Degree website
- Professors personal websites
- UNIBO website





CFU-University Educational Credits

CFU are a tool used to measure the quantity of learning, including individual study, required of a student in order to acquire knowledge and skills in the learning activities envisaged in the degree programme.

CFUs are obtained by passing exams or other assessment tests.

Credits define the quantity of work; the quality of the student's performance on the other hand is documented by a grade (18/30 minimum to pass).

ECTS=CFU

1 CFU = 25 hours

10 class lecture + 15 individual study

6 CFU = 150 hours

60 class lecture + 90 individual study

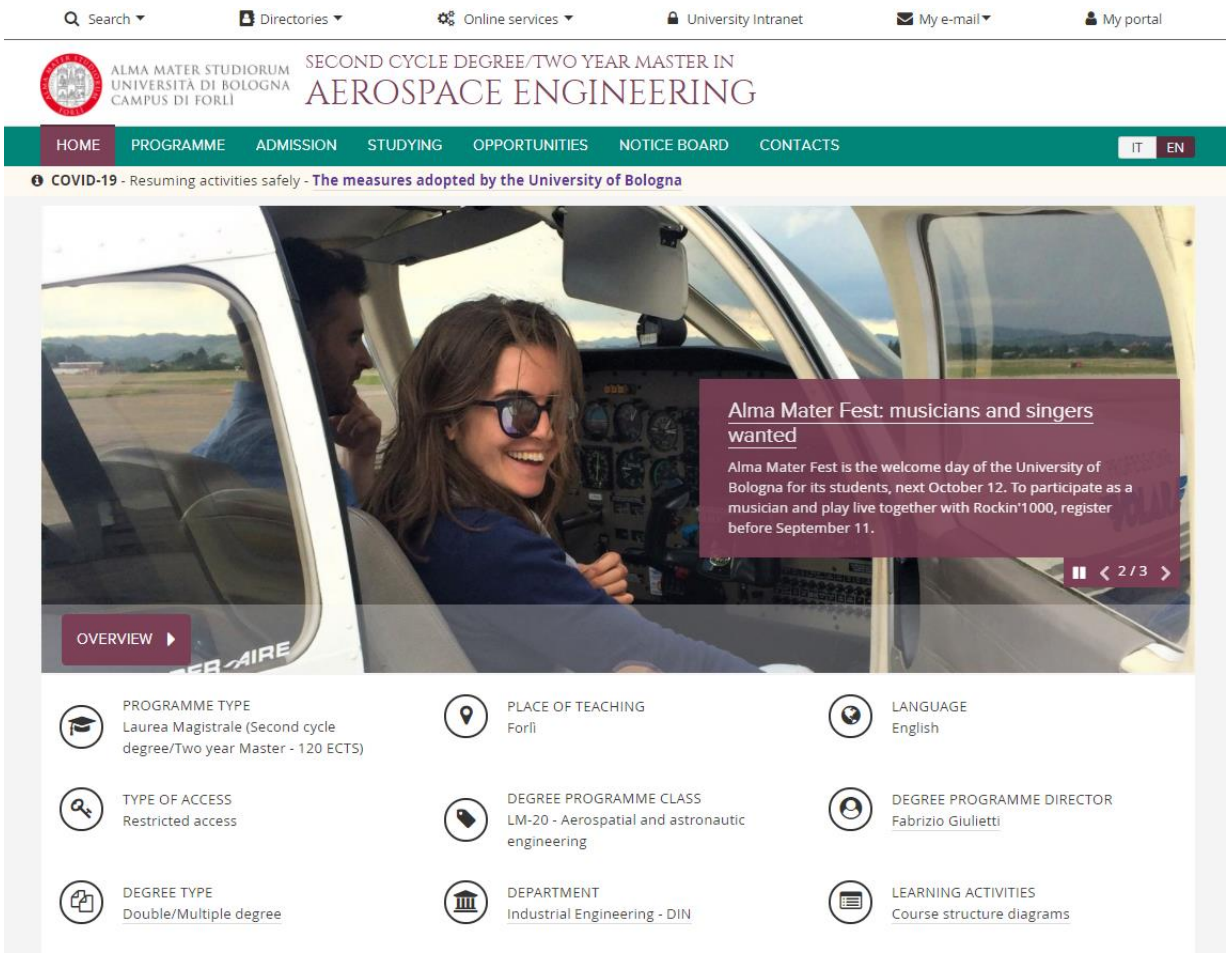
I don’t understand how I failed this exam

Don’t wait January exam session to start studying

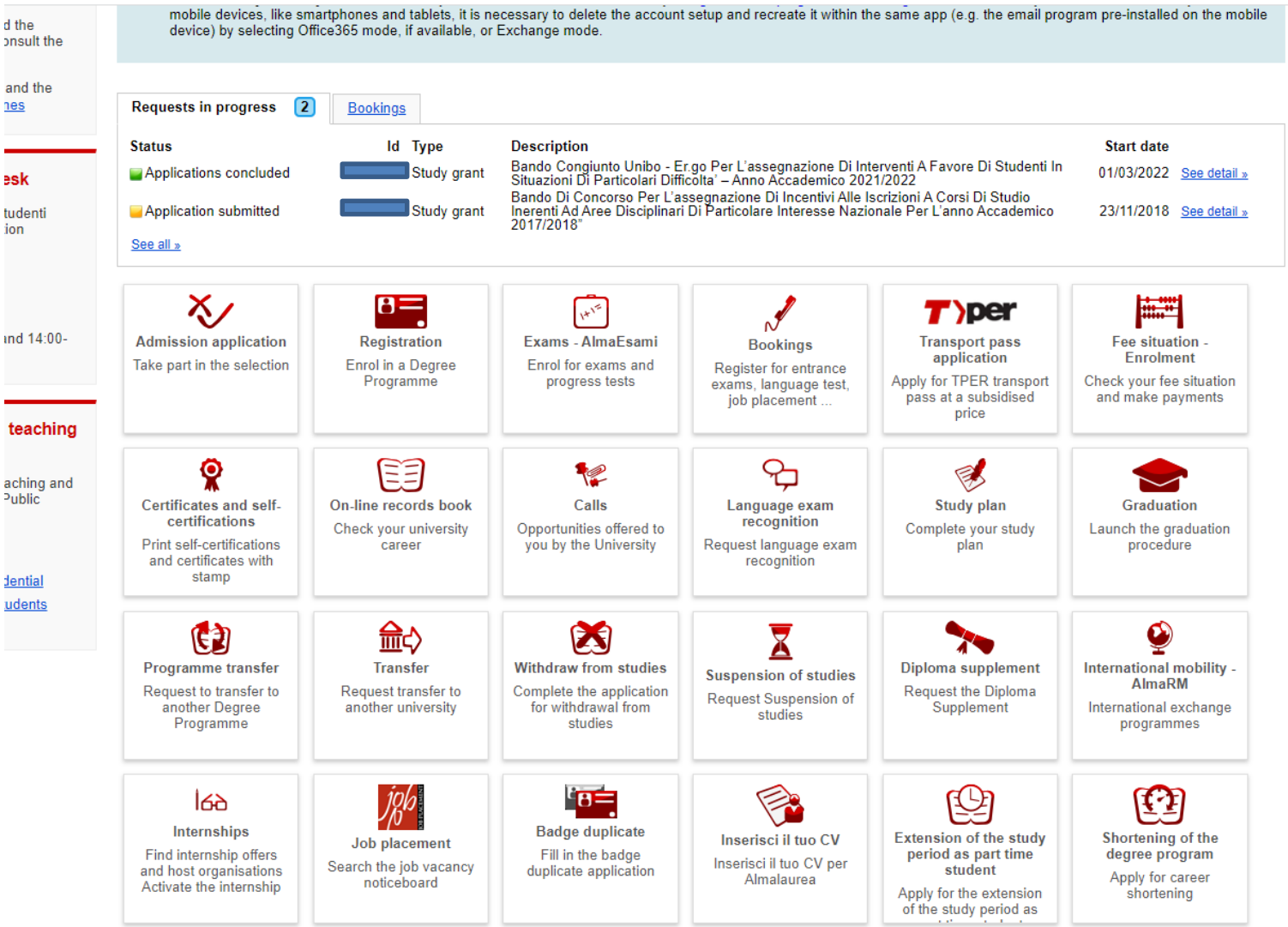
- Raise your hand during lessons, ask questions and be participative
- Consult professors during office hours
- Ask for help to our Tutor
- If you think you need some revision, all students are welcome to attend the *Fundamentals of Aerospace Engineering I.C.*

Master's degree in Aerospace Engineering programme website

http://corsi.unibo.it/2cycle/AerospaceEngineering/Pages/default.aspx



Master's degree in Aerospace Engineering Studenti Online Page



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What am I supposed to do as a new student?

- Complete your enrolment
- Finalise fees calculation
- Complete the study plan
- Attend lessons
- Sign up for exams

Complete your enrolment

To complete the enrolment, you need to **validate your identity** and activate your career. Italian students can use **SPID credentials or the CIE** to log into Studenti Online so that the identity will be automatically validated.

If you are an international Student with a foreign qualification, please contact the Student Administration Office in Forlì Campus to book an appointment and validate your identity. After this procedure and after all the necessary documents regarding your bachelor's degree have been submitted, your career will be active, and you can start to use all the services of the University.

You will receive an e-mail on your inbox @studio.unibo.it with the instructions to **get the badge**.

SPID is the digital and personal identity of each citizen, with which he/she is recognized by the Public Administration to use digital services in a personalized and secure way.

In order to activate your SPID you need to possess a valid Italian identification document. If you have a EU or non-EU citizenship, you will need to request one at the Anagrafe office of Forlì after you register your residency in Italy.

Complete your enrolment- Contact the Student Administration Office

Get in contact with the Student Administration Office through the

VIRTUAL HELPDESKS -The new service for video calling your Student Administration Office and Right to Higher Education Offices

You can speak to a dedicated operator by connecting or by making an appointment during opening hours

Office hours

Tuesday 09:00-12:00 V 14:00-15:30 V

Wednesday 09:00-12:00 V

Thursday *09:00-12:00 P* 14:00-15:30 V

Friday 09:00-12:00 V

Address: Padiglione Melandri, Piazzale Solieri 1, 47121 Forlì

E-mail: segforli@unibo.it

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Complete your enrolment- Non-EU citizens requiring a permit of stay

A very useful check-list is available at https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/international-students-how-to-prepare-for-enrolment-1/checklist-for-non-eu-students-residing-abroad-already-admitted-to-a-degree-programme

Regarding doubts about the Residence Permit:

https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/visa-and-rules-for-residence-in-italy/residence-permit

If you matriculated by submitting only the entry VISA for study purposes, your (conditional) enrolment will be activated only after the receipt has been recorded, so send a copy to the Student Administration Office.

Having collected your residence permit, submit a copy to the Student Administration Office, as your enrolment is subject to the acquisition of the residence permit. If you forget it, after 180 days from the application date you will no longer be allowed to sit for exams or request certificates.

Complete your enrolment- Contact the Student Administration Office

Particular situations or doubts, especially of Non-EU citizens with a VISA, can be discussed individually.

Please send an email to didatticaforli.ingstudenti@unibo.it for an appointment.

For all the information, please refer to the Unibo website: http://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination

Tuition fees and ER.GO Scholarships

Tuition fees are calculated based on the 2022 ISEE value with special subsidies in relation to the right to higher education.

With an ISEE value up to €24,500, first year students and students that meet merit requirements are totally exempted from paying tuition fees.

Above this limit, fees are calculated progressively, more favourably for students who have a low income and meet merit requirements.

You need to have the 2022 ISEE certification for uses in relation to the right to higher education and submit your application by 2 November 2022 at 18:00 (or by 15 November 2022 at 18:00 and pay a late submission fee of €100).

https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/tuition-fees-and-exemptions/tuition-fees

As an international student, your tuition fees will be calculated according to your country of origin and the country where your family has income and assets.

https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/tuition-fees-and-exemptions/tuition-fees-for-international-students-a-y-2022-23

Tuition fees and ER.GO Scholarships

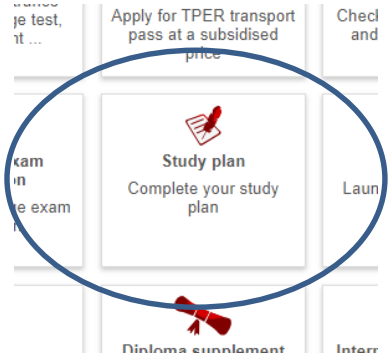
The presentation by ER.GO. About their service and their helpdesk will be available tomorrow at the **Welcome inFO** event at the Teaching Hub

Complete your study plan for a.y. 2022-2023

The study plan is the complete set of exams that you need to sit in order to graduate. Some exams are compulsory, while others are **elective**.

A study plan can be presented by properly enrolled students who have paid their tuition fees and, in the case of international students, who hold a valid residence permit.

To be submitted **online** on https://studenti.unibo.it



First period: 10th October to 11th November 2022

Second period: 13th February to 10th March 2023

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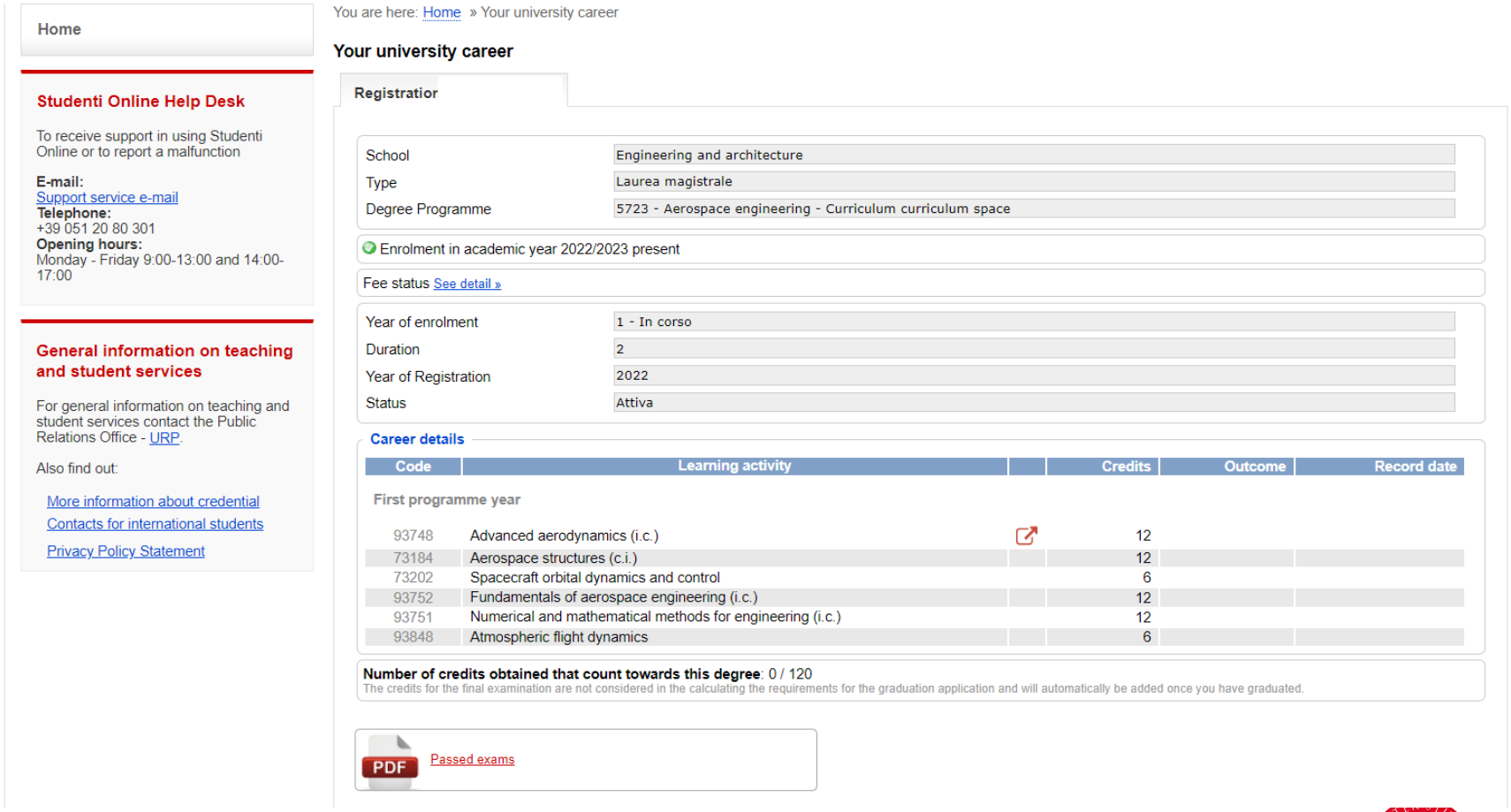
Complete your study plan for a.y. 2022-2023: Fundamentals of Aerospace Engineering



Home

Studenti Online Help Desk

To receive support in using Studenti Online or to report a malfunction

E-mail:
Support service e-mail
Telephone:
+39 051 20 80 301
Opening hours:
Monday - Friday 9:00-13:00 and 14:00-17:00

General information on teaching and student services

For general information on teaching and student services contact the Public Relations Office - URP.

Also find out:

More information about credential
Contacts for international students
Privacy Policy Statement

You are here: Home » Your university career

Your university career

Registration

School	Engineering and architecture
Type	Laurea magistrale
Degree Programme	5723 - Aerospace engineering - Curriculum curriculum space

Enrolment in academic year 2022/2023 present

Fee status See detail »

Year of enrolment	1 - In corso
Duration	2
Year of Registration	2022
Status	Attiva

Career details

Code	Learning activity		Credits	Outcome	Record date
First programme year					
93748	Advanced aerodynamics (i.c.)		12		
73184	Aerospace structures (c.i.)		12		
73202	Spacecraft orbital dynamics and control		6		
93752	Fundamentals of aerospace engineering (i.c.)		12		
93751	Numerical and mathematical methods for engineering (i.c.)		12		
93848	Atmospheric flight dynamics		6		

Number of credits obtained that count towards this degree: 0 / 120
The credits for the final examination are not considered in the calculating the requirements for the graduation application and will automatically be added once you have graduated.

PDF Passed exams

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Complete your study plan for a.y. 2022-2023

Elective activities must count for **18 CFU** of your study plan.

You can choose:

From 6 to 12 CFU chosen at year 1 and from 6 to 12 CFU at year 2, for a total of 18 CFU.

Students may ask the Degree Board to add some different activities to their study plan which are not included in the Degree curriculum but offered by other Degrees of the University of Bologna.

In this case, you must submit the paper module to the Engineering Degree Office.

The Degree Board will evaluate the request and approve/deny the proposal.

Attending lessons

https://corsi.unibo.it/2cycle/AerospaceEngineering/teaching-calendar

- **1st semester:**

Lessons: September 15th - December 22nd 2022

Exams: January 9th 2023 – February 17th 2023

- **2nd semester:**

Lessons starting: February 20th- June 1st 2023

Exams: June 5th – September 19th 2023

Holidays

No activity for holidays: 31st October, 1st November, 8th and 9th December 2022;

4th February, 24 th and 25th April, 1st May, 2nd June 2023.

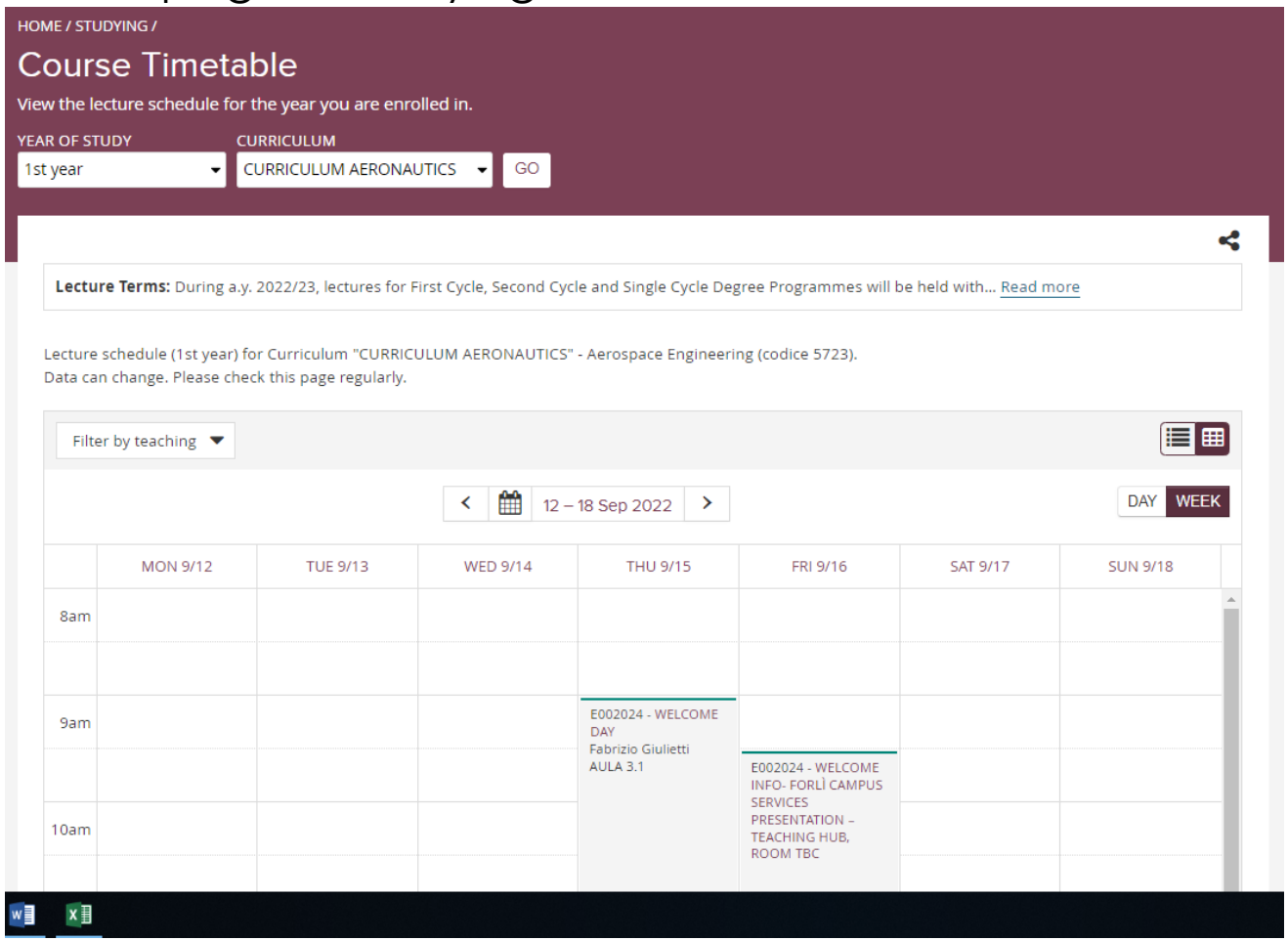
from 23rd December 2022 to 8th January 2023 (Christmas holidays)

from 6th to 11th April 2023 (Easter holidays)

Attending lessons- course timetable

http://corsi.unibo.it/2cycle/AerospaceEngineering/Pages/course-timetable.aspx

Homepage-> Studying > Course Timetable



Please check it regularly (every morning) for any changes or lesson cancellation

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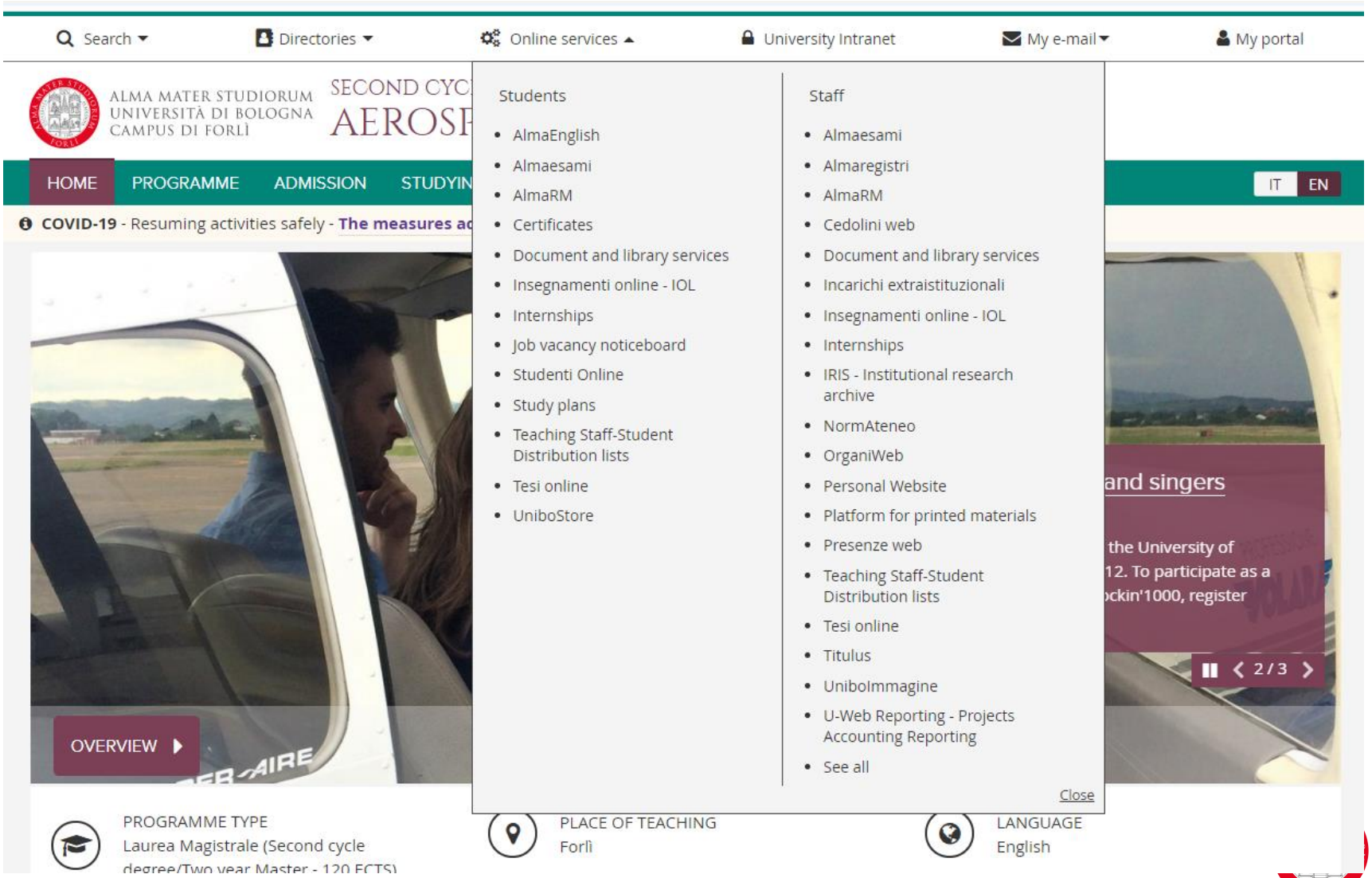
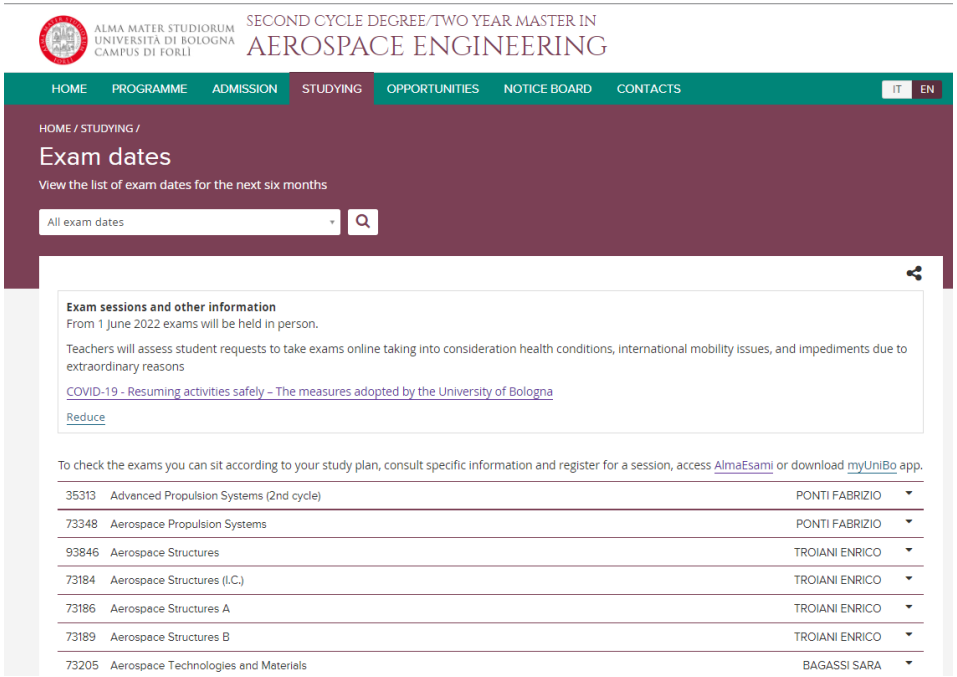
Online services



Sign up for exams



Changing Curriculum

The degree regulations allows curriculum change, that must be approved by the Degree Council after submission by the student of a specific form (and 16 euro stamp).

Please think carefully about changing curriculum

-> it has effects on your study plan

Who are my points of contact?

Degree Director

Professor Fabrizio Giulietti

Programme Coordinator

Giulia Chiadini

Aerospace Engineering Tutor

Federica Remor

Tutor for International Mobility

Gianmarco Broilo

For contact details, please visit: https://corsi.unibo.it/2cycle/AerospaceEngineering/contacts

Degree Director

Prof. Fabrizio Giulietti

- The Director is responsible for the implementation of the Board's guidelines and liaises with the relevant Departments and Schools
- Represents the master's degree at guidance events
- Can be consulted for issues related the activities of the master's degree

Fabrizio.giulietti@unibo.it

Office hours: Thursday 10.00-12.00 upon appointment
Other days on appointment

Programme Coordinator

Giulia Chiadini

- Point of contact for the master's degree Aerospace Engineering students
- Support with applications and enrolment
- Organise welcome and guidance meetings and events
- Support Italian and foreign students during their academic career

Didatticaforli.ingstudenti@unibo.it
Giulia.chiadini2@unibo.it

Via Montaspro 97, 1° floor 19/A

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Aerospace Engineering Tutor

- acts as an **interface** between the students and the Degree Programme to offer a reference for the teaching activities
- to collect information and comments, as well as to receive any **claims** or **feedbacks** about existing critical conditions or any requests regarding logistic and organizational aspects or other issues.
- maintaining the **contacts** with students who may for various reasons (for example, job activities) encounter major difficulties at tests/exams and of setting up a clear programming for their studies and career.

didatticaforli.tutoringaerospaziale@unibo.it

Office hour: Every Monday from 9.30 to 11.30, in via Montaspro 97 (1° floor office 18)
upon appointment by email

International Mobility Tutor

- Help to fill out the Learning Agreement
- Support for students involved in Erasmus+ mobility (studies and traineeship)
- Help incoming international students
- Information for research and thesis preparation abroad

didatticaforli.internazionalizzazione.ing@unibo.it
Office hour: upon appointment by email
Via Montaspro 97, room 18

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MAE Facebook Page

@aerospaceengineering.unibo

Official page of the master's degree in Aerospace Engineering

Updates on events and opportunities, interesting articles, calls for applications etc.

Health and Safety in the Workplace training course aimed at students

The training courses, partly online and partly taught in class, targets all those students who will carry out activities in university laboratories or in private companies during their degree programs (training in laboratory, internships projects, thesis, etc.) and are for these reasons treated equally to workers (art.37 Italian law nr. 81/08, letter a)

This is an important opportunity aimed to provide knowledge and raise awareness on health and safety in the workplace, but most of all **it is mandatory.**

General training (module 1) provides a no-expiry certification which is recognized in private and public company in Italy. Training on specific risk types (module 2 and 3) provide a certification expiring after 5 years (external companies can recognize this certification or part of this).

More info and registration instructions at

https://www.unibo.it/en/services-and-opportunities/health-and-assistance/health-and-safety/online-course-on-health-and-safety-in-study-and-internship-areas

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Tecnopolo CIRI Aeronautics

Via B. Carnaccini 12, Forlì

The facility for Aeronautics and Astronautics provides laboratories and offices for graduating and thesis students, PhD candidates and researchers.

Forlì Campus and the Teaching Hub

Teaching Hub
Viale Corridoni 20, Forlì
Teaching and study rooms

Via Giacomo della Torre 1
PC lab (LABIC)

Forlì Campus
Piazzale Solieri 1, Forlì

Services of the Forlì Campus

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Incoming EVENTS

Welcome InFO- Tomorrow!

European Researchers' Night, September 30th

AlmaFest 5-10 October

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Questions?

The world's fastest hypersonic rocket-powered aircraft

North American x-15

Aero Trivia

Match the yellow and green card

If the couple brings to us the correct match you will get an extra gagdet

at the end of the event!

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Thank you for your attention

Enjoy the coffee-break!

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Extra-curricular activities

- **Flight experience with Professione Volare**
- **ENAV- Thinking cup 2022**
- **Alma-X**
- **Onda Solare**
- **Unibo Motorsport**
- **Euroavia**
- **Educational trips**
- **PEGASUS Student Conference**

PROFESSIONE VOLARE

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Flight experience with PROFESSIONE VOLARE

ACCOUNTABLE MANAGER
Com.te
Cesare Montefiori

HEAD OF TRAINING (HT)
Emanuela Brandone

- At Forlì airport
- 20 years of collaboration with Unibo

PROFESSIONE VOLARE
IT-ATO-0020

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Flight experience with PROFESSIONE VOLARE

Since 2017 we have provided a flight experience to Unibo first year students

- Group Briefing
- Individual 35’ flight experience with pilot
- Debriefing

Aim of the educational experience: hands-on activity about what is taught in classroom

- Effect of commands
- Performance analysis
- Study of the aircraft dynamics

Professione Volare & Alma Mater Studiorum

Your Fligth Instructor will wait for you at Professione Volare training centre.
The fligth mission consist of a first approach to fligtht, so :

- Engine Start Up;
- Taxi;
- Take Off Briefing and T/O procedure;
- Short navigation to Castro, Faenza, Straight in approach to the field, Touch & go, traffic pattern and Landing;
- Taxi again to the stand;
- Parking and Engine Shut down.

Professione Volare & Alma Mater Studiorum

Flight Mission Briefing

- Before flight the instructor make with you a preflight briefing about wheather conditions and Air Traffic situation.
- He will explain what to do in case of emergency.
- For «emergency» I mean also the case you don’t feel good during flight!

Professione Volare & Alma Mater Studiorum

Each mission is about 35/40 minutes length.

You will be provided with sanitized headphones for each individual student.

If you have any doubts about your health, or fear of flying, please, advise.
It’s not mandatory to fly!

and

Please, if during the flight you will not feel well, tell immediately to your Instructor, so he can carry you on ground suddenly.

Flight experience with PROFESSIONE VOLARE: Our students experiences

Questions?

...Italian trainers do it better...

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ENAV

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ALMA-X

ONDA SOLARE

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UNIBO MOTORSPORT

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EUROAVIA

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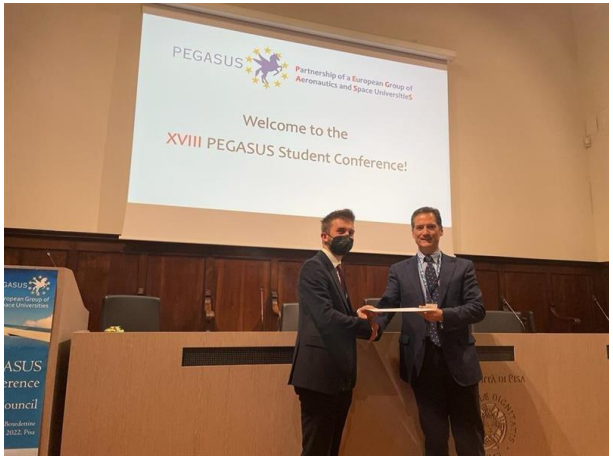
Educational trips and other opportunities

Company visits as part of a teaching module

Visit to the AERO Friedrichshafen 2022

June 2023- International Paris Air Show at Le Bourget!

PEGASUS Student Conference and Aero-games



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Thank you for your attention!

The Staff of the master's degree of Aerospace Engineering

Didatticaforli.ingstudenti@unibo.it