

Master's degree in Mechanical Engineering for Sustainability

Cod.6720

Forlì Campus

Department of Industrial Engineering Via Montaspro, 97 Forlì

Master's degree in Mechanical Engineering for Sustainability DIN – Department of Industrial Engineering Forlì Campus

DIN offers courses in:

- Aerospace Engineering
- Mechanical Engineering
- Ingegneria Nautica

In Forlì



Mechanical Engineering for Sustainability

Course Structure

- First Year: 57 ECTS
 - 51 ECTS \rightarrow 6 required courses
 - \circ 6 ECTS \rightarrow 1 elective course

Required Courses (51 ECTS)

Elective Course (6 ECTS)

- Second Year: 63 ECTS
 - 18 ECTS → 3 required courses, depending on the chosen guided choice
 - o 6 ECTS → 1 required course

 - o 15 ECTS → thesis/internship

Guided Choice Courses (18 ECTS)

Required Course (6 ECTS)

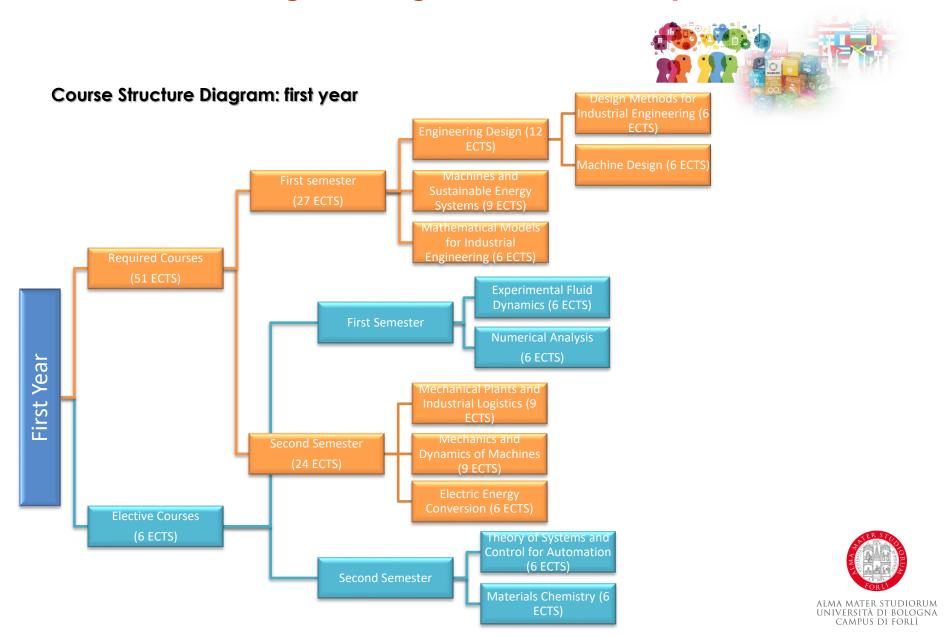
Elective Courses (12 ECTS)

Interdisciplinary Laboratories (12 ECTS

Final Project/Internship (15 ECTS)



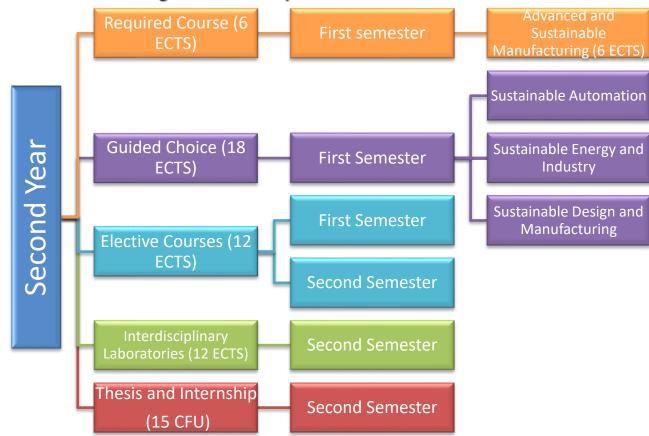
Mechanical Engineering for Sustainability



Mechanical Engineering for Sustainability



Course Structure Diagram: second year





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

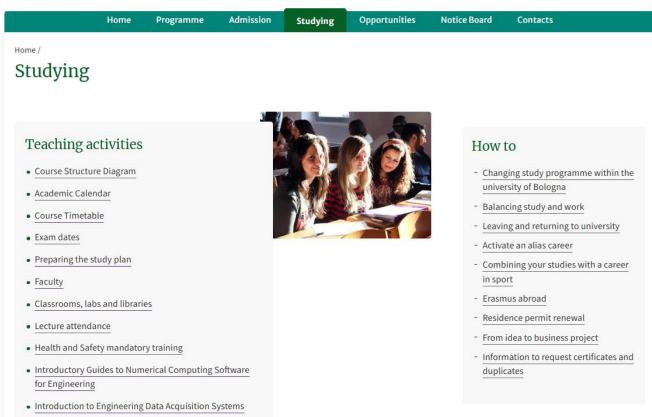


Our website and where to find information

The website of the master's degree is the main place where to look for information. It will guide you through processes, services and information you may need.

https://corsi.unibo.it/2cycle/MechanicalEngineering-Forli

ALMA MATER STUDIORUM UNIVERSITA DI ROLOGIA Mechanical Engineering for Sustainability

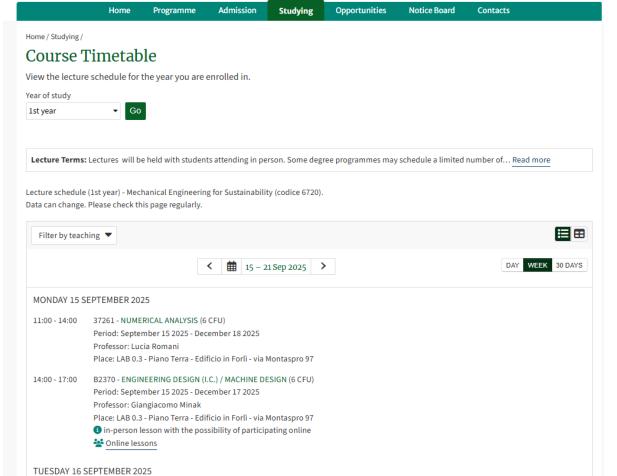




Attending lessons- course timetable

https://corsi.unibo.it/2cycle/MechanicalEngineering-Forli/timetable
Homepage-> Studying > Course Timetable



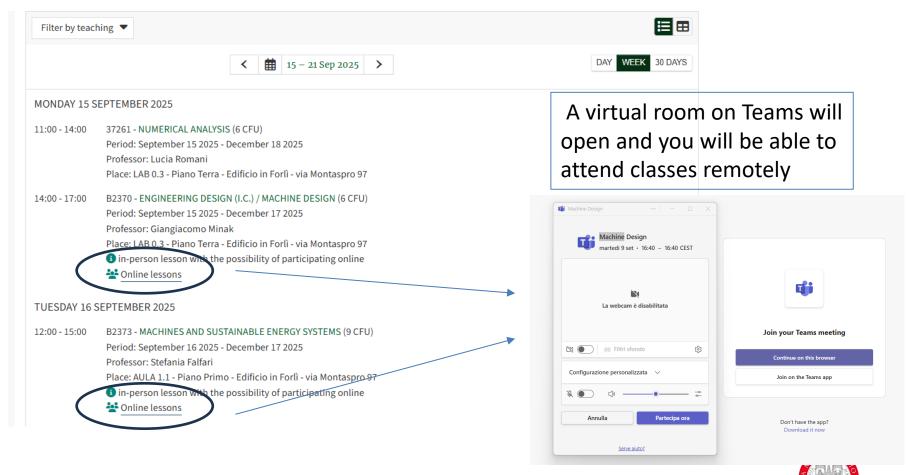


Please check it regularly (every morning) for any changes or lesson cancellation



Attending lessons- course timetable

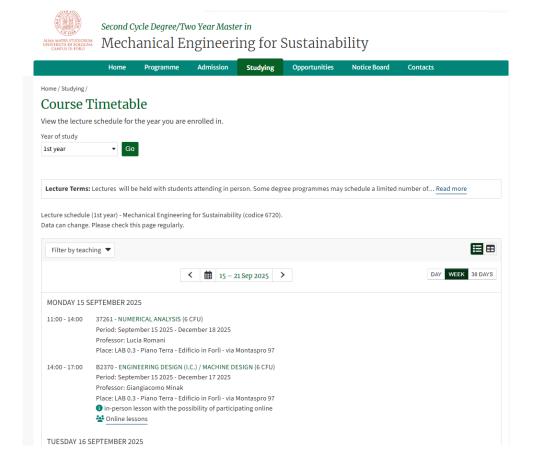
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Homepage-> Studying > Course Timetable





Attending lessons- course timetable

https://corsi.unibo.it/2cycle/MechanicalEngineering-Forli/timetable
Homepage-> Studying > Course Timetable



Please bear in mind:

- -Classes will be available both in presence and remotely until **mid**-**October**; check the lesson schedule
- -Lessons in presence take place in Via Montaspro 97, Forlì
- -Teams desktop works better than the browser version. Make sure you dowload the app on your PC
- -You may join online classes even if you have not completed your enrolment yet

ALMA MATER STUDIORUM Università di Bologna Campus di Forlì

Who are my points of contact?

Professor Giangiacomo Minak
Programme Coordinator
Giulia Chiadini
Mechanical Engineering Tutor
Lorenzo Fucacci

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



Degree Director

Prof. Giangiacomo Minak

- 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 promotional and counselling events
- Can be consulted for issues related the activities of the master's degree, but not for administrative procedures

Giangiacomo.minak@unibo.it
Office hours: upon appointment



Programme Coordinator

Giulia Chiadini

- Point of contact for the master's degree Aerospace Engineering and Mechanical Engineering for Sustainability students
- Support with applications and enrolment
- Welcome and informative meetings and events
- Support for Italian and foreign students during their academic career and administrative procedures

<u>Didatticaforli.ingstudenti@unibo.it</u> Giulia.chiadini2@unibo.it



Mechanical Engineering for Sustainability Tutor

Lorenzo Fucacci

- acts as an interface between the students and the Degree Programme to offer a reference for the teaching activities
- collects 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.
- maintains 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.
- Supports students interested in international mobility

didatticaforli.tutoringmeccanica@unibo.it

Office hour: upon appointment by email



Italian Language for international students (B3120)

The University of Bologna considers it very important that all students have the opportunity to make the best of their study experience and life in a new country.

To this extent, the Italian language is a tool that can simplify your life in many aspects, broaden relationships in our community, and foster your social life. At the end of your studying and living experience in Forlì, the Italian language will improve your chances to enter the national job market.

Completion of the *B3120 Italian language for international students activity* is **compulsory** for international students with no previous knowledge of the Italian language. The corresponding activity has to be registered in your study plan **before graduation**.

We advise you to consider taking this opportunity as soon as possible.

In case you hold a bachelor/secondary school diploma taught in Italian, please inform the Student Administration Office to be exempted from this activity.

International students who are already in possession of an Italian language certification can request recognition to be exempted from completion of the course.

International students that have previous knowledge of the Italian language equivalent or superior to CEFR level A1, but cannot certify it officially, can choose the in-class courses (A2-C1) offered by the University Language Centre.

Please read all information on the Italian test here: https://centri.unibo.it/cla/en/italian-language-cours
https://centri.unibo.it/cla/en/italian-language-cours
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CAMPUS DI FORLÌ

What am I supposed to do as a new student?

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



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



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 may request one at the Anagrafe office of Forlì after you register your residency in Italy.

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Complete your enrolment- Contact the Student Administration Office

Get in contact with the Student Administration Office through the

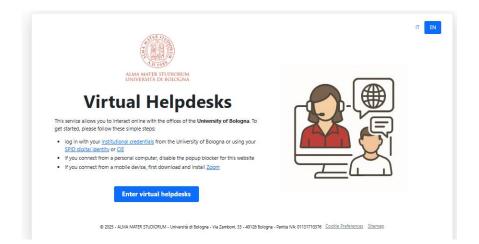
VIRTUAL HELPDESKS -The new service for video calling your Student Administration Office and Right to Higher Education Offices

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



UNIVERSITÀ DI BOLOGNA Campus di Forlì

Address: Padiglione Melandri, Piazzale Solieri 1, 47121 Forlì- only for booked appointment

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

Here are all the steps necessary for enrolment:

https://www.unibo.it/en/study/enrolment-fees-and-other-procedures/degree-programmes/procedures-for-degree-programmes

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 <u>send a copy to the Student Administration Office</u>.

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.

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Tuition fees and ER.GO Scholarships

Tuition fees are calculated based on the 2025 ISEE value with special subsidies in relation to the right to higher education.

With an **ISEE value up to €27,000**, first year students and students that meet merit requirements are totally exempted from paying tuition fees.

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

Other situations can be found here at the specific page: https://www.unibo.it/en/study/enrolment-fees-and-other-procedures/degree-programmes/tuition-fees-and-exemptions/fees-and-exemptions-amounts-deadlines

FAQ: https://www.unibo.it/en/study/enrolment-fees-and-other-procedures/degree-programmes/tuition-fees-and-exemptions/faqs-frequently-asked-questions-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/study/enrolment-fees-and-other-procedures/degree-programmes/tuition-fees-and-exemptions/reduced-fixed-fee-for-citizens-of-particularly-poor-and-developing-countries-or-non-eu-non-oecd-countries

JNIVERSITÀ DI BOLOGNA Campus di Forlì

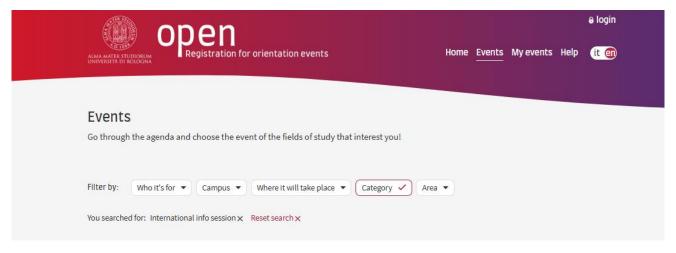
Tuition fees and ER.GO Scholarships

Doubts about fees, exemptions and scholarships?

From June, you can join online meetings with Unibo and ER.GO staff to learn about fees, potential exemptions or reductions, and how to access ER.GO student benefits.

Check the calendar of events →

https://open.unibo.it/events?categoria=S



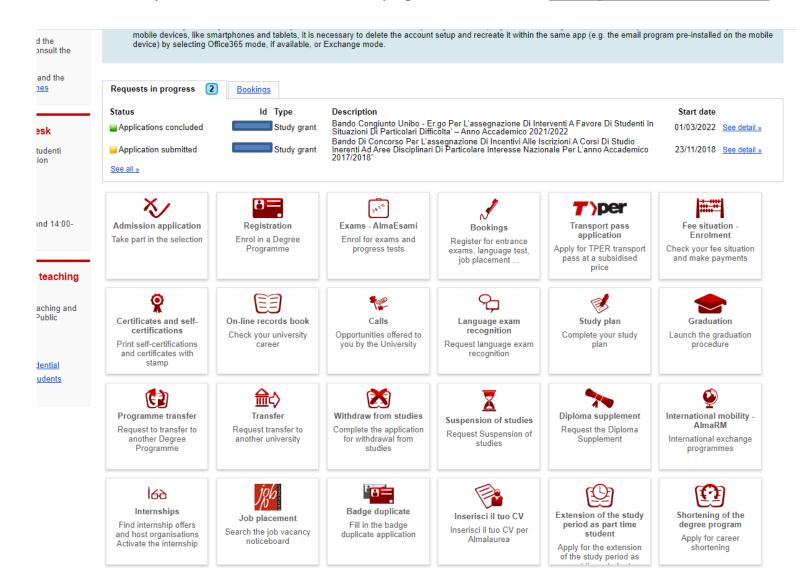
Upcoming events





Studenti Online Homepage

All the tabs on your StudentiOnline homepage will be visible once your career is active

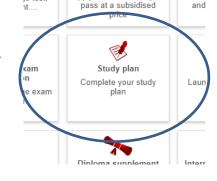


Complete your study plan for a.y. 2025-2026

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. Apply for TPER transport

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



je test.

Checl

First period: 6th October to 7th November 2025 Exceptional extra opening from November 24th to December 19th 2025 just for first year students <u>Second period</u>: 9th February to 6th March 2026



Complete your study plan for a.y. 2025-2026:

Ingegneria e architettura Scuola Laurea magistrale Tipo Corso di studio 5980 - Mechanical engineering for sustainability matico Iscrizione anno accademico 2023/2024 presente 4:00-Situazione tasse Vedi dettaglio » Anno di iscrizione 1 - In corso 2 Durata servizi Anno Immatricolazione 2023 Attiva Stato lidattica e Dettaglio carriera Attività formativa Cod. Primo anno di corso Electric energy conversion B2377 6 B2369 12 Engineering design (i.c.) onali Mechanics and dynamics of machines B2376 9 ei dati Mathematical models for industrial engineering B2374 B2375 Mechanical plants and industrial logistics B2373 Machines and sustainable energy systems 9 Numero dei crediti sostenuti utili al conseguimento del titolo: 0 / 120 I crediti della prova finale non sono considerati nel calcolo dei requisiti della domanda di laurea e verranno aggiunti automaticamente al momento del conseguimento del titolo.



Complete your study plan for a.y. 2025-2026 Mechanical Engineering for Sustainability

Elective Course - 6 CFU

Students must choose one course among those available (1st or 2nd semester)

->Students who are interested in selecting the 'Sustainable Automation' guided choice in the second year must have already registered at least 6 credits in the scientific disciplinary sector ING-INF/04 in the previous career (degree) or in the first year of this master's degree.

12 CFU will be chosen during year 2, so as the Guided choice and the labs

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 and you may add 12 CFU max.

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

Complete your study plan for a.y. 2025-2026 Mechanical Engineering for Sustainability

Elective Course - 6 CFU

Home / Course Structure Diagram / piani didattici 2025-2026 /

Course structure diagrams for students enrolled a.y. 2025-26

First Year

Compulsory Courses

		PERIOD(?)	TYPE(?)	SSD (?)	CFU (?)
B2369	Engineering Design (I.C.)	1			
	B2371 Design Methods for Industrial Engineering	1	В	ING-IND/15	6
	B2370 Machine Design	1	В	ING-IND/14	6
B2373	Machines and Sustainable Energy Systems	1	В	ING-IND/08	9
B2374	Mathematical Models for Industrial Engineering	1	С	MAT/07	6
B2377	Electric Energy Conversion	2	C	ING-IND/32	6
B2375	Mechanical Plants and Industrial Logistics	2	В	ING-IND/17	9
B2376	Mechanics and Dynamics of Machines	2	В	ING-IND/13	9

Elective Course - 6 CFU (6 CFU)

Students must choose one course among those (1st or 2nd semester) – Students who are interested in selecting the 'Sustainable Automation' guided choice in the second year must have already registered at least 6 credits in the scientific disciplinary sector ING-INF/04 in the previous career (degree) or in the first year of this master's degree.

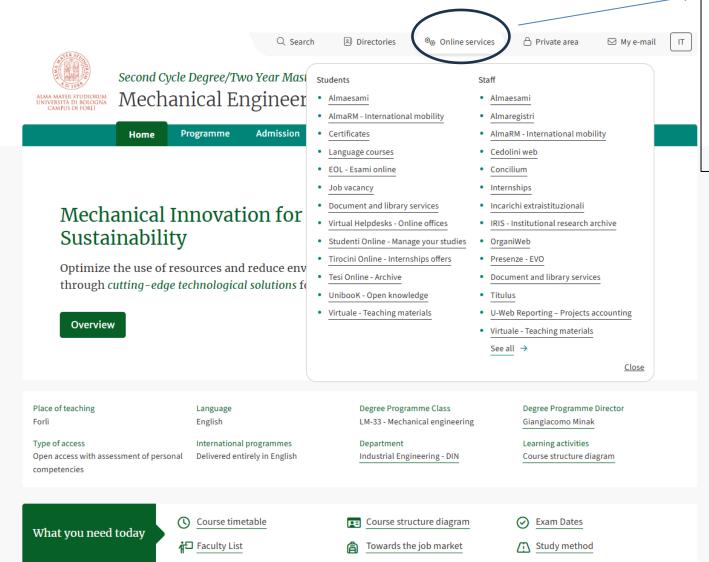
	PERIOD(?)	TYPE(?)	SSD ?	CFU(?)
Experimental Fluid Mechanics	1	D	ICAR/01	6
Numerical Analysis	1	D	MAT/08	6
Materials Chemistry	2	D	CHIM/07	6
Theory of Systems and Controls for Automation	2	D	ING-INF/04	6
	Numerical Analysis Materials Chemistry	Experimental Fluid Mechanics 1 Numerical Analysis 1 Materials Chemistry 2	Experimental Fluid Mechanics 1 D Numerical Analysis 1 D Materials Chemistry 2 D	Experimental Fluid Mechanics 1 D ICAR/01 Numerical Analysis 1 D MAT/08 Materials Chemistry 2 D CHIM/07

Second Year

Compuls	sory Courses					
		PERIOD ?	TYPE ?	SSD ?	CFU ?	
B2391	Advanced and Sustainable Manufacturing - Not available for the year 2025/2026	1	В	ING-IND/16	6	



Online services



Students may also access services of the university from the degree homepage



Health and Safety in the Workplace training course aimed at students

The training courses, partly online and partly taught in class, targets <u>all those</u> <u>students who will carry out activities in university laboratories or in private</u> <u>companies during their degree programs</u> (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 for those who will carry out activities in university labs in their second year.

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

CAMPUS DI FORLÌ

https://corsi.unibo.it/2cycle/MechanicalEngineering-Forli/health-and-safety-mandatory-training

Study halls and libraries



Teaching Hub (Viale Corridoni n. 20) Monday- Friday 08:00 - 21:00; Saturday 08:00 - 13:00



Sala Studio University Canteen (Piazzale Igino Lega n. 20) Monday- Friday 9:00 - 18:00.



Central Library "Roberto Ruffilli" (Via Caterina Sforza, 45) orari: Monday- Friday 9:00-24:00 Saturday-Sunday 9:00-18:00.



Residenza Universitaria "Sassi Masini" (Via Maroncelli, 15) orari: Tuesday 18:00 – 24:00; Friday, Saturday, Sunday 8:30 – 24:00.



Study room at the Engineering Department (Via Montaspro, 97) orari: dal Monday- Friday 8:00 - 19:00.



Other services at Forlì Campus

The laboratories have 170 personal computers from which internet access.

 Laboratori Informatici di Campus (LABIC)

Two black and white laser printers are installed at the Labic and are available to users and a printer is installed on the ground floor of the Engineering headquarters.

Printing service

It deals with the promotion of basic and competitive sport within all university schools in Bologna and the surrounding areas.

 CUSB Centro Universitario Sportivo Bologna

The Service is aimed at young people who have emotional and relational problems, affective and behavioral disorders, difficulties in university and/or working life, and is free for students of the University of Bologna.

 SAP Servizio di Aiuto Psicologico

CAMPUS DI FORL



Thank you for your attention!

The Staff of the Mechanical Engineering For Sustainability

Didatticaforli.ingstudenti@unibo.it