



POLITECNICO
MILANO 1863

SCUOLA DI INGEGNERIA INDUSTRIALE
E DELL'INFORMAZIONE

Welcome to Politecnico di Milano!

How to make the most of your choice

14.09.2026 | Process Engineering

About me.

Lorenzo Dozio

Professor | Department of Aerospace Science and Technology
Dean of the School of Industrial and Information Engineering
(2025-2027)

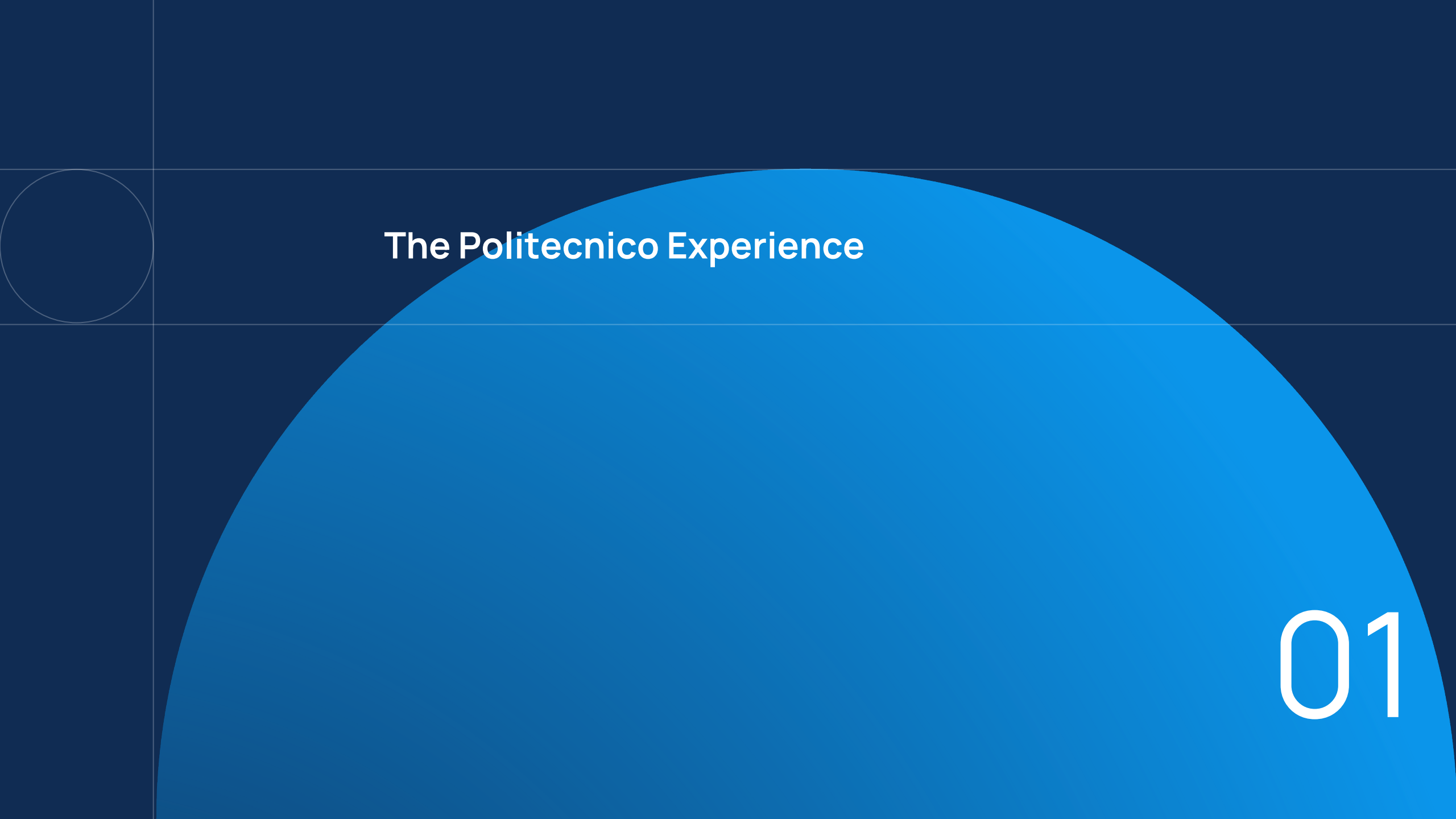
How can you reach me?

Write an e-mail to: lorenzo.dozio@polimi.it



Agenda

1. The Politecnico Experience
2. The Process Engineering Experience
3. Getting Started



The Politecnico Experience

01

Welcome!



**POLITECNICO
MILANO 1863**



When Raphael painted
“The School of Athens”,
he was not depicting a classroom.

He was depicting a
**community of people
brought together by curiosity,
committed to learning, questioning,
and discovering.**

Today, you become part of this tradition.

The values of Politecnico.

Every community is built on shared values.
Welcome to ours.

RESPECT

PROFESSIONALISM

RESPONSIBILITY

FAIRNESS

INTEGRITY

TRUST

TRANSPARENCY



One university. Four Schools.

Our Schools create close academic communities within a large university.

- ✓ Architecture
- ✓ Design
- ✓ Civil, Environmental and Land Management Engineering
- ✓ **Industrial and Information Engineering (3I)**

Your academic home within Politecnico.



Many engineering programmes. One School.

Bachelor's
Programmes

Aerospaziale
Automazione
Biomedica
Chimica
Elettrica
Elettronica
Energetica
Fisica
Gestionale
Informatica
Matematica
Materiali e Nanotecnologie
Meccanica
Produzione Industriale
Engineering Science
Industrial Engineering
Process Engineering

The School brings
together many
engineering
programmes covering a
**wide range of
engineering fields.**

your academic family



Many possible futures at PoliMi.

Our Master's programmes offer many paths for **advanced study and specialization.**

Master's Programmes

Aeronautical Engineering
Agricultural Engineering
Automation and Control Engineering
Biomedical Engineering
Chemical Engineering
Computer Science and Engineering
Electrical Engineering
Electronic Engineering
Energy Engineering
Food Engineering
HPC Engineering
Industrial Safety and Risk Engineering
Management Engineering
Materials and Nanotechnology Engineering
Mathematical Engineering
Mechanical Engineering
Mobility Engineering
Music and Acoustic Engineering
Nuclear Engineering
Engineering Physics
Space Engineering
Telecommunication Engineering



One university. Many campuses.

One community,
wherever
you study.

○ Cremona

A student
centred
campus



○ Milano Leonardo

○ Milano Bovisa

○ Lecco

○ Piacenza

○ Mantova

A welcoming
student city



A globally recognised university.

Join a community of more than 36,000 students, with more than 20% coming from abroad, studying at **one of Europe's leading technical universities**.



Italian Ranking



1

World Ranking



Top 100

Engineering Ranking



Top 20

Total Students @31



36000+

International Students @31



20%+

Life beyond the classroom.



Students associations



Student Collaborations



PoliPsi



Sport and leisure



Equal opportunities



Passion in Action



Students with Disabilities

Students with disabilities or specific learning disorders (SLD)

Polimi offers a support service for admission tests, secretarial practices, accessibility to spaces, equipment and distance learning.

PoliPsi

It is the counseling and psychological and psychotherapeutic support service aimed at students. It offers a place to discuss and receive support in moments of discomfort, uncertainty and difficulties related to study or personal events.

Passion in Action

Extracurricular activities designed to help you develop transferable skills and enrich your personal and professional growth.



The Process Engineering Experience

02

Process Engineering in a nutshell.

From raw materials, energy and data
to the products we use every day.



Process Engineering in a nutshell.



UNDERSTAND PROCESSES AS SYSTEMS

Materials, energy, equipment, data and operations interact to create value.



CONNECT PHYSICAL AND DIGITAL

Combine process knowledge with data, models, digital technologies and control.



ANALYSE · MODEL · SIMULATE · CONTROL · OPTIMISE

Use engineering tools to make processes safer, more efficient and sustainable.

Your Process Engineering journey.



YEAR 1

BUILD THE FOUNDATIONS

Develop a strong scientific and computational foundation, while connecting basic sciences to engineering practice through the Engineering Corners.



YEAR 2

EXPLORE AND MODEL PROCESSES

Learn to analyse and model industrial processes, connecting physical phenomena with data, digital technologies and control.



YEAR 3

INTEGRATE AND APPLY

Bring physical and digital knowledge together to design, manage and optimise industrial processes in realistic contexts.



CAPSTONE PROJECT

Put everything together on a real-world industrial challenge.

Where your journey can take you.



ENTER THE INDUSTRIAL WORLD

Apply your skills to analyse, operate and optimise industrial processes across a wide range of sectors.

Process Engineering

Operations

Automation & Control

Process Analytics

Data & Digital

Production



CONTINUE YOUR STUDIES

Build on a solid foundation to pursue Master of Science programmes in several engineering domains.

Automation & Control Engineering

Chemical Engineering

Food Engineering

Management Engineering

Agricultural Engineering

How you will learn. The student-centred approach.



How you will learn.



Engineering Corners.

Where foundations start becoming engineering.



CONNECT

knowledge from different disciplines

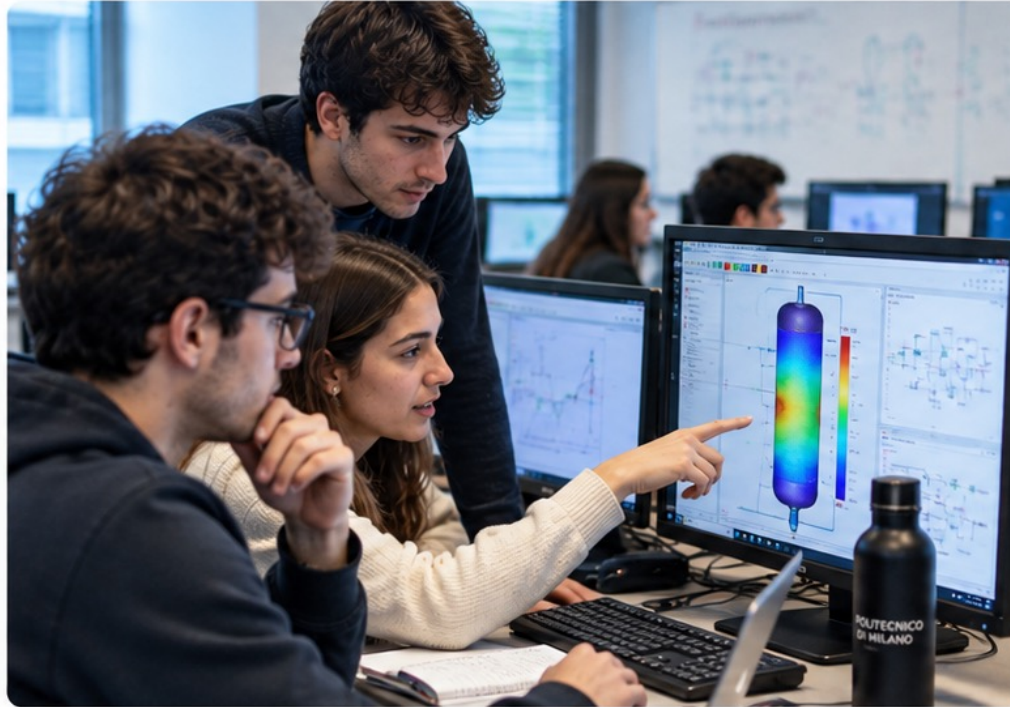
Bring together concepts from mathematics, physics, chemistry, computer science and beyond.



WORK TOGETHER

in multidisciplinary teams

Develop problem-solving, collaboration and communication skills.



APPLY

what you learn to engineering problems

Use your knowledge in hands-on simulation activities to tackle realistic, open-ended challenges.



EXPLORE REAL-WORLD TOOLS

and industrial problems

Work with professional software, data and cases inspired by real industrial contexts.

FOUNDATIONS IN SCIENCE



Mathematics



Chemistry



Physics



Computer Science

...

ENGINEERING CORNERS

TOWARDS ENGINEERING PROBLEMS



Processes



Sustainability



Systems



Global challenges

...

How you will demonstrate your learning.



Different competences require different ways of demonstrating what you've learned.



Written and oral examinations

Individual assessment of your knowledge and understanding.



Homework and continuous assessment

Regular assignments and formative activities to support your learning.



Project work

Apply your knowledge to complex problems, often in teams.



Presentations

Communicate your ideas, methods and results effectively.



Laboratory work

Gain hands-on experience and demonstrate practical skills.

Demonstrating your learning with integrity.

RESPECT

RESPONSIBILITY

INTEGRITY

PROFESSIONALISM

FAIRNESS

TRUST

TRANSPARENCY



Students must strictly **follow the instructions provided by the instructor** regarding permitted materials, devices, and assessment procedures. Failure to comply may result in the assessment being invalidated and/or disciplinary action.

Instructors may verify the authorship of submitted work and the student's understanding of it and may revise the assessment outcome in case of substantial inconsistencies.



Getting Started

How to navigate your first weeks:
when, what, where, who

03

When does everything happen?

Your first lesson:
the **rhythm** of the academic year.

SEMESTER 1

Fall Semester

14 SEPTEMBER – 26 FEBRUARY

Teaching, exams and Engineering Corner 1.



Teaching period

Lectures, exercises
and laboratory activities



14 Sep – 22 Dec



Regular examination

First exam sitting



7 – 27 Jan



Resit opportunity

Second exam sitting



28 Jan – 13 Feb



ENGINEERING CORNERS 1

Intensive, multidisciplinary
workshops



15 – 26 Feb

SEMESTER 2

Spring Semester

1 MARCH – 23 JULY

Teaching, exams and Engineering Corner 2.



Teaching period

Lectures, exercises
and laboratory activities



1 Mar – 5 Jun



Regular examination

First exam sitting



7 – 23 Jun



Resit opportunity

Second exam sitting



24 Jun – 10 Jul



ENGINEERING CORNERS 2

Intensive, multidisciplinary
workshops



12 – 23 Jul



GENERAL RESIT SESSION

ALL COURSES



25 August – 10 September

When does everything happen?

General Rule

- ✓ The exam sittings within each session are reserved for the courses delivered in the corresponding term.
- ✓ The General Resit session is open to all courses.

Depending on the course...

- ✓ Some learning activities are assessed only once, at the end of the activity.
- ✓ Some courses include laboratory activities and project work to be completed during the semester, which contribute to the final assessment.



What will I study first?

SEMESTER 1

14 September – 26 February

30 ECTS

4 courses



Mathematical Analysis I

9 ECTS



General and Organic Chemistry

9 ECTS



**Fundamentals of
Computer Science**

9 ECTS



Engineering Corners 1

3 ECTS

SEMESTER 2

1 March – 23 July

30 ECTS

4 courses



Linear Algebra

9 ECTS



**Mechanics and
Thermal Physics**

9 ECTS



**Business Management
and Industrial Systems**

9 ECTS



Engineering Corners 2

3 ECTS



Mathematics



Natural Sciences



Digital & Computing



Management &
Industrial Systems



Engineering Corners

What a typical week looks like?

[illegible]

Where do I find what I need?

Students' website:

<https://www.polimi.it/en/students>

Find everything you need during your studies:
contacts,
tuition fees, deadlines,
scholarships, exams,
certificates, services and
much more.



Explore information for **Students** →

Notices

After the enrolment

Tuition fees, scholarships and financial aid

Study Plan and OFA

Didactic Activities and Degree Examination

Language requirements

Special cases

Calendar and deadlines

Certificates and forms

Contacts

Student Ombuds Office

Associations and cultural activities

Where do I find what I need?

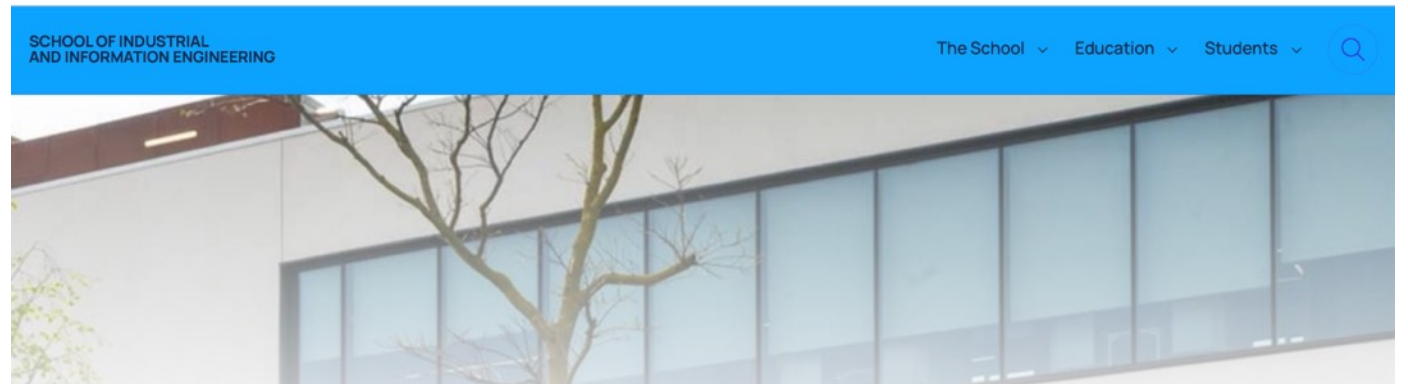
Students' website:

<https://www.polimi.it/en/students>

School website:

<https://www.ingindinf.polimi.it/en/>

Specific info about Educational Rules,
Calendars, Policies, Contacts.



Where do I find what I need?

Students' website:

<https://www.polimi.it/en/students>

School website:

<https://www.ingindinf.polimi.it/en/>



Online services:

<https://www.polimi.it/oneservices>

Manage your career:
Study Plan, Exam
Registration, Records.

Online Services

	SPID login	Polimi Credentials Person Code Password Sign in Sign up	
	CIE login		
	Login with eIDAS		
	eduGAIN login		
☐ Stay connected. ?			

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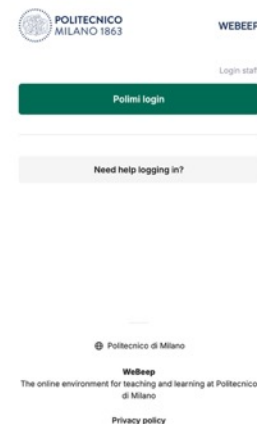
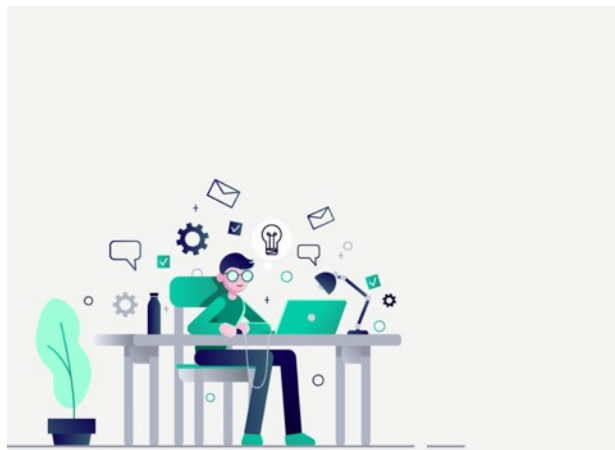
<https://www.polimi.it/oneservices>

School website:

<https://www.ingindinf.polimi.it/en/>

WeBeep:

<https://webeep.polimi.it/>



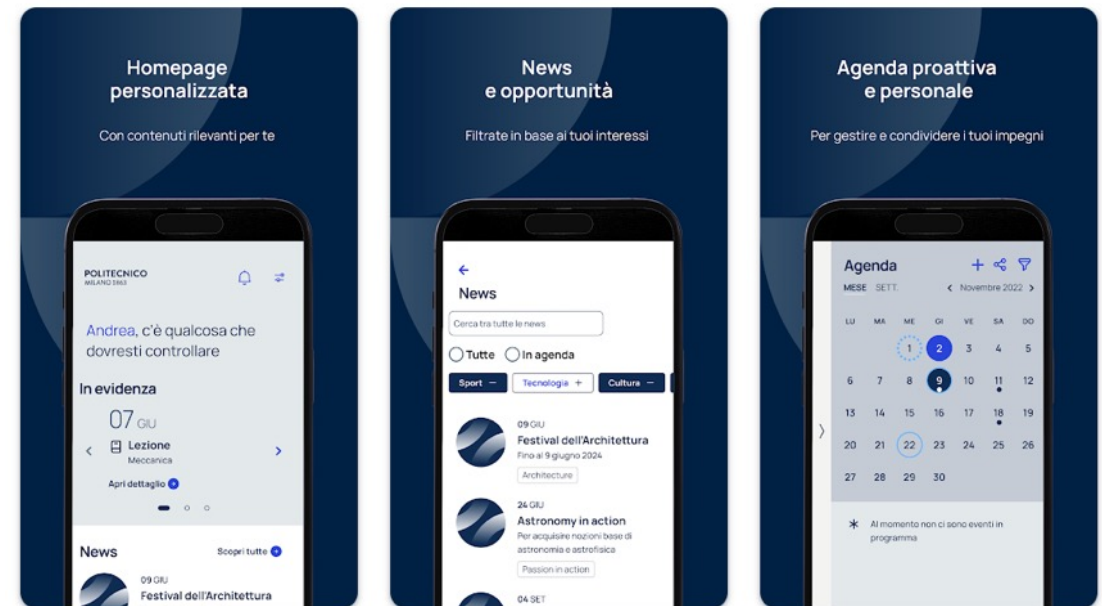
PoliMi's digital learning platform:
access course materials,
announcements, assignments,
assessments and interactive
learning—all in one place.

Where do I find what I need?

Everything on the go:

Polimi App

Politecnico di Milano



Who can help me?

Academic Tutor

A faculty member who guides and supports you throughout your academic journey, helping you make the most of your studies.



Information about your tutor and how to contact them will be provided during the first weeks of the semester.

Your Academic Tutor is your first point of contact for academic guidance whenever you need support or advice.

Who can help me?

Student Representatives

Your voice can make a difference.

Student Representatives help turn students' ideas and feedback into real improvements.



Edoardo Occhipinti
Email edoardo.occhipinti@mail.polimi.it

Early student feedback.

A few weeks into the semester, you will be invited to share **short, informal feedback on your learning experience.**

Your feedback helps instructors identify difficulties, workload issues and possible improvements **while the course is still in progress.**

An early opportunity to make your voice heard and improve the learning experience together.

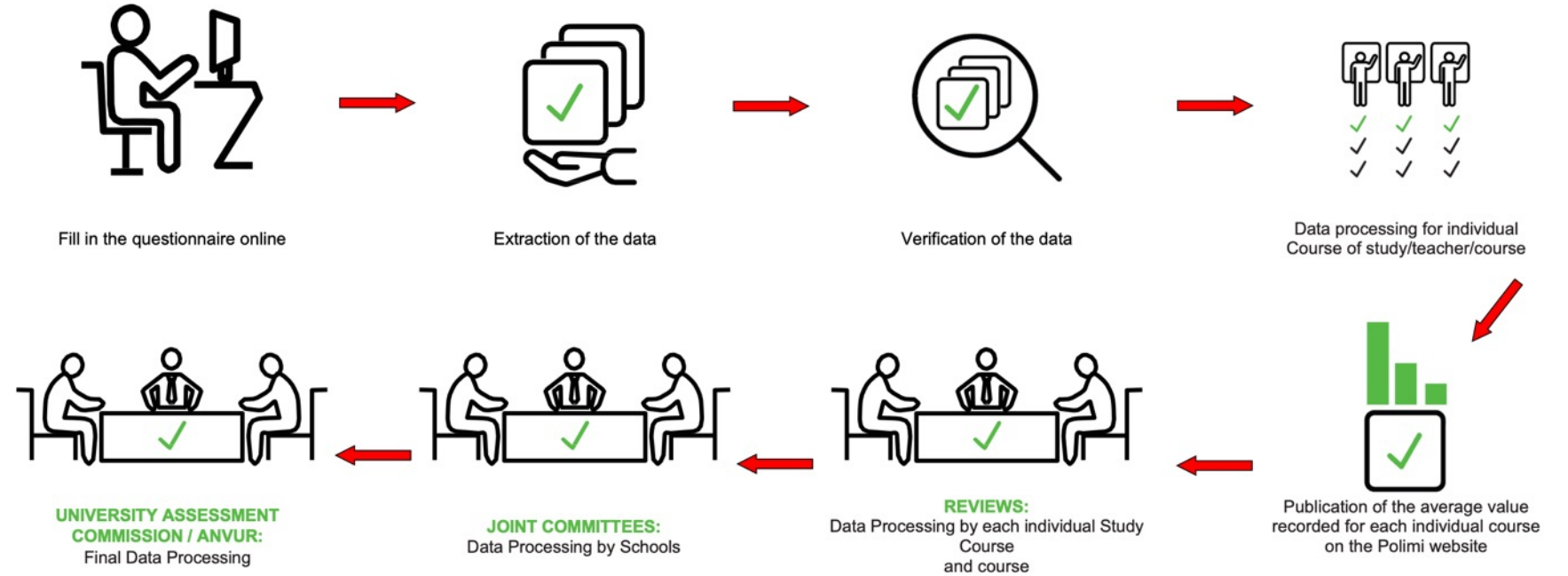


Teaching Evaluation Questionnaire.

Your feedback helps improve teaching.

- ✓ Anonymous.
- ✓ One questionnaire for each course.
- ✓ Completed before registering for the exam.
- ✓ Please answer thoughtfully and constructively.

STUDENTS' OPINION: THE QUESTIONNAIRE



Who should I contact?

If you need help with...	Contact...
A course or an exam	Course instructor(s)
Your study plan	Course coordinator
Your academic journey	Academic tutor
Administrative procedures	Student services
Suggestions and ideas	Student representatives

If you're not sure who to contact,
your Academic Tutor will be happy to point you in the right direction.

Your journey starts now.

You are now part of the Politecnico di Milano community.

The next three years will challenge you,
inspire you and change the way you see the world.

Be curious.

Work together.

Ask questions.

Learn from mistakes.

Take every opportunity.

We'll be here to support you. Welcome to Process Engineering.

