



# Welcome to POLIMI

Make the most out of your choice!

# Overview

- Politecnico di Milano
- Because students matter!
- Services & Opportunities
- Tutoring
- International Mobility
- Programme Structure
- Ph.D.





Politecnico di Milano

# Politecnico di Milano



**POLITECNICO**  
MILANO 1863



The logo of POLIMI finds its origins in Raffaello's fresco *The School of Athens*. The cartoon of the fresco is today displayed at Pinacoteca Ambrosiana, Milan.

# Politecnico di Milano

Over **1.300** Professors and **1.200** employees  
(technicians, administrative staff, etc.) work here.



**4** Schools

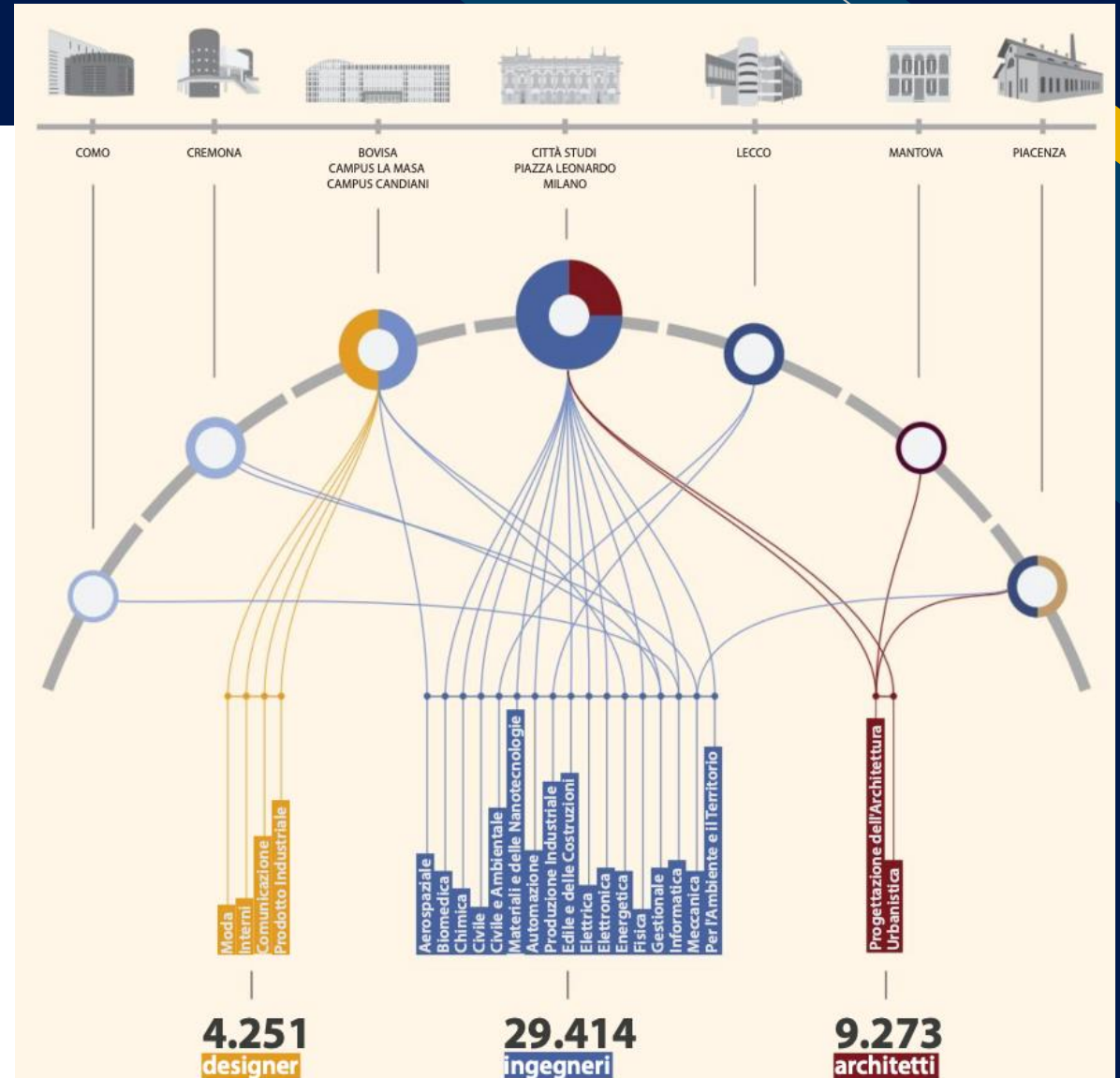
Over **42.000** students



**12**  
Departments



**#1** in Italy  
**#5** in Europe  
**#9** in the world



# DMEC Campuses



Lombardy:

- Milan
- Lecco

Emilia-Romagna:

- Piacenza

# Schools and Programmes



According to its specifics, each BS and MS Programme belongs to one of the Schools:

- **Urban Architecture and Building Engineering;**
- **Design;**
- **Civil and Environmental Engineering;**
- **Industrial and Information Engineering.**

The **Dean**, head of the School, coordinates all teaching activities of the issued Programmes along with other members of the Board and Council.

The **Professor-Student Joint Committee** controls the activities of the Programmes and formulates proposals for improvements.

The **Director of Studies** is in charge of the Programme and first contact for every serious trouble students may have.

# The Professor-Student Joint Committee

This Committee is made of 5 Professors and 5 Student Representatives.

The Professor-Student Joint Committee is in charge of:

- **Controlling and checking the quality of the Programme, lectures, and student services;**
- **Carefully selecting the evaluation criteria that allow the analysis of the performance results;**
- **Formulating proposals to improve the Programmes themselves and submit them to the Dean and the Evaluation Unit.**



Beatrice Bartolozzi



Antonella Polimeno  
Camastra



Giacomo Buratti



Pietro Rossetti



Laurens Lanzillo

# Contacts

The Programme in Mechanical Engineering you recently joined is among the Programmes offered by the School of Industrial and Information Engineering.

- The Dean of the School is Professor **Antonio Capone**.
- The Director of Studies is Professor **Gaetano Cascini**.

The Student Representatives of your Programme are:

- |                             |                                |                                       |
|-----------------------------|--------------------------------|---------------------------------------|
| ■ <b>Paola Bassi;</b>       | ■ <b>Lorenzo Di Salvatore;</b> | ■ <b>Marta Petroni;</b>               |
| ■ <b>Francesco Biasoni;</b> | ■ <b>Giacomo Errighi;</b>      | ■ <b>Antonella Polimeno Camastra.</b> |
| ■ <b>Michele Bravi;</b>     | ■ <b>Marco Gandolla;</b>       |                                       |
| ■ <b>Marta Crivellari;</b>  | ■ <b>Laurens Lanzillo;</b>     |                                       |
| ■ <b>Simone Curioni;</b>    | ■ <b>Clara Mogno;</b>          |                                       |

# The Student Ombudsman Office

Students who wish to complain about any behavior that breaks the University regulations and/or denies students' rights and duties at POLIMI may contact the Ombudsman.

The Ombudsman acts after a non-anonymous complaint is made: after having properly investigate the case, the in-charge Professor tries to find a suitable solution and always informs the student on the outcome of the query. The ultimate objective is always to protect the student against any reprisals.

The Ombudsman is **Professor Mara Tanelli**.

Contacts:

Email: [difensoredeglistudenti@polimi.it](mailto:difensoredeglistudenti@polimi.it)

Phone: +39 02.2399.3621





Because Students  
matter!

# Students and Representatives: Rights and Responsibilities

Students hold the right to actively participate in the life and governance of the University by electing their Representatives. They are asked to express their opinion during each of the University management bodies meeting they are invited to.

You directly vote 2 of your Student Representatives.

Elections occur very 2 years: your chance to be heard.

The easiest and most effective way to submit a proposal or a request on issues like lectures or student services to the right University body is speak your mind through your Student Representatives.



**COMMISSIONE PARITETICA**

**10 COMPONENTI**

- 5 DOCENTI NOMINATI DAL PRESIDE DELLA SCUOLA;
- 5 RAPPRESENTANTI DEGLI STUDENTI;

**RUOLO:**  
MONITORA L'OFFERTA FORMATIVA, LA QUALITÀ DELLA DIDATTICA E DEI SERVIZI AGLI STUDENTI.

**GIUNTA DI SCUOLA**

**COMPONENTI**

- PRESIDE SCUOLA;
- N. DIRETTORI DEI DIPARTIMENTI RACCORDATI;
- N. PRESIDENTI DEI CCS;
- 25 RAPPRESENTANTI DEGLI STUDENTI ELETTI IN COMMISSIONE PARITETICA

IL NUMERO COMPLESSIVO DEI MEMBRI VARIA DA SCUOLA A SCUOLA

**RUOLO:**  
COORDINA I CORSI DI STUDIO E FORNISCE UN INDIRIZZO GENERALE ALLA SCUOLA.

**COMPONENTI**

- PRESIDENTE DEL CCS;
- N. DOCENTI DEL CCS;
- N. RAPPRESENTANTI DEGLI STUDENTI

**RUOLO:**  
DEFINISCE I PROGRAMMI DELLE MATERIE DEL CORSO DI LAUREA, LE MODALITÀ DI FRUIZIONE DELLA DIDATTICA, L'ANALISI DELL'EFFICACIA DEGLI INSEGNAMENTI SVOLTI, L'ORGANIZZAZIONE DEL PIANO DI STUDIO, LA DISTRIBUZIONE DEI CFU.

IL NUMERO COMPLESSIVO DEI MEMBRI VARIA DA CCS A CCS

IL CCS SI RIUNISCE UNA VOLTA OGNI 3 - 4 MESI. LA FREQUENZA VARIA IN BASE AL SINGOLO CORSO DI LAUREA.

# Students and Representatives: Rights and Responsibilities

Your Student Representatives commitment helped POLIMI achieve over the years several positive results:

- **Teaching and lectures have been reorganised;**
- **More Funding & Scholarships (included the ones for low income students) have been issued by Diritto allo Studio;**
- **Top students have been exempted from paying tuition fees.**

N.B. by submitting your ideas and requests through your Students Representatives, you have a real chance to change your University decision-making process. You just have two options:

- 1. Contact your Student Representatives, after a careful evaluation, ask them to submit to decision-making bodies your idea or request;**
- 2. You run for Student Representatives and eventually, become one yourself.**

# Students' opinion on Courses (1/2)

To check the quality of its Courses and Lectures, Politecnico di Milano asks their students to respond to a quality-check survey:

**Filling in the online ANONYMOUS survey is MANDATORY in order to register for an exam and for all of the courses in your timetable.**

By responding to the questionnaire, students play an active role in improving and strengthen the quality of the University.

Questions are about:

- **Courses;**
- **Professors;**
- **Lecturers' practical modules;**
- **Infrastructures.**



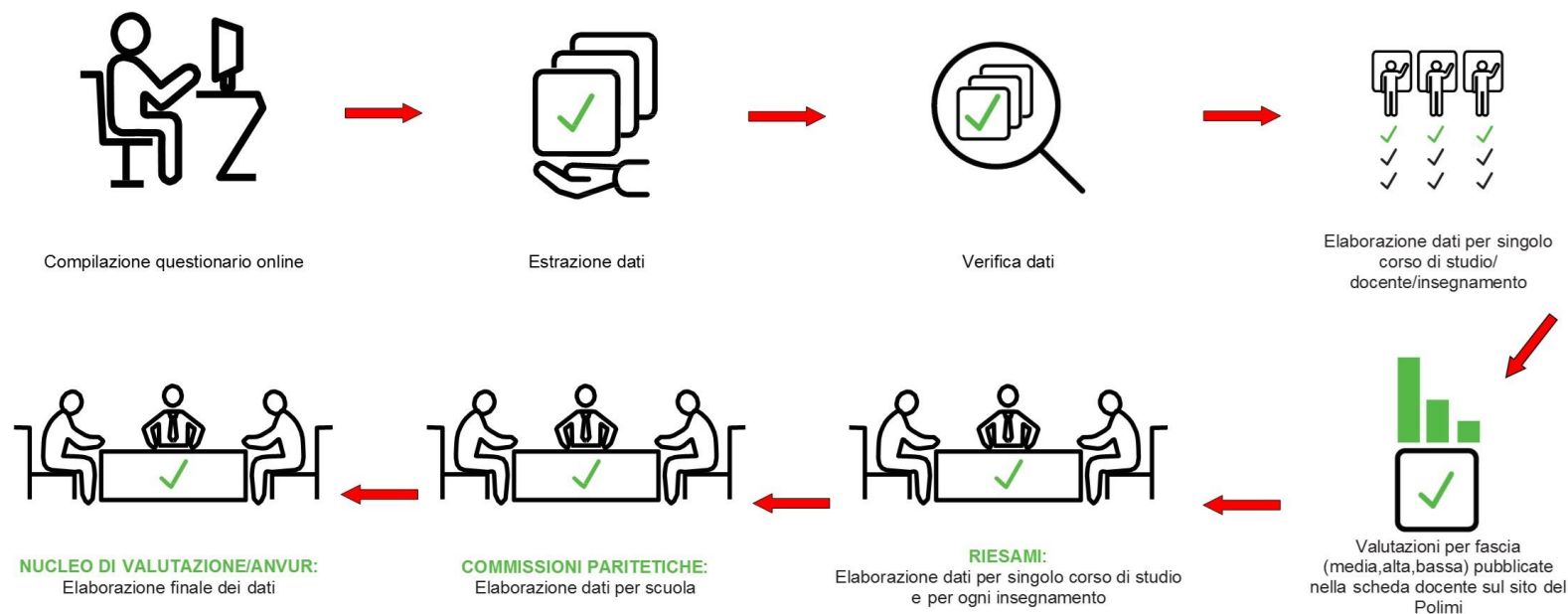
Know that POLIMI cares about your opinion, therefore we highly recommend to our Students to:

- **Pay full attention when responding;**
- **Give appropriate and consistent responses;**
- **Use open-ended questions to make helpful and constructive comments .**

# Students' opinion on Courses (2/2)

COSTRUISCI IL TUO FUTURO  
CON LE TUE RISPOSTE

IL QUESTIONARIO E' ANONIMO



# Students' opinion: final year

During your last year at POLIMI, you will be asked to give your opinion on:

## → Your Programme

To register for Graduation (Undergraduate and Postgraduate) you MUST fill in a questionnaire on:  
Lecture organisation, Course contents, infrastructures, library, internships, international mobility, final exam.

## → Services

To register for the first exam of your final year, you MUST respond to an ANONYMUS questionnaire on:  
Enrollement, courses and tracks, exam registration, taxes, student offices, ICT services, libraries, PoliPrint, canteen, communication, studying environment.



# Services e Opportunities

# Student support services: contacts

## Courses related issues:

1. Professor;
2. Director of Studies;
3. Student Representatives;
4. Professor-Student Joint Committee;
5. Dean of the School;
6. Ombudsman.



## Administrative issues:

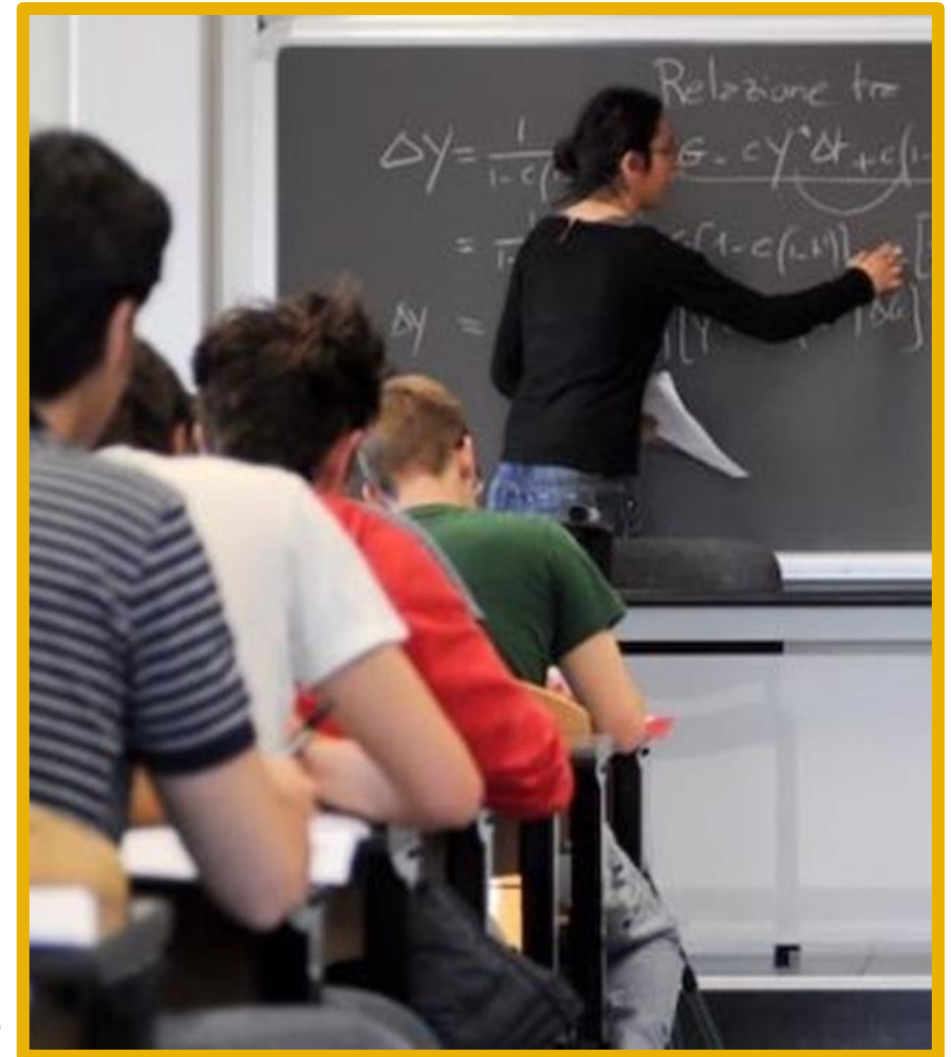
- Student Office: desks, online chat, chatbot and e-mail (<https://www.polimi.it/en/current-students/contacts/>).

## Organisation and timetables:

- Programme contact person;
- Dean's Office: desks, chat and e-mail (<https://www.polimi.it/en/current-students/contacts/>);
- Department Student Office.

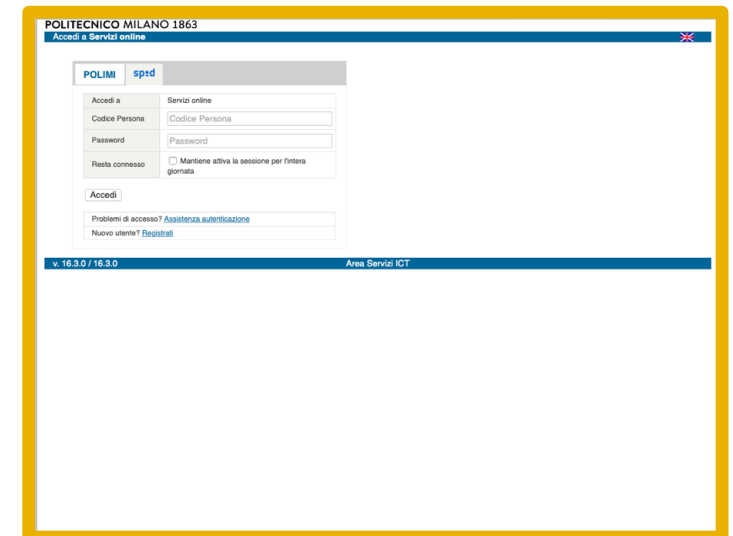
# Regulations

- **Educational Rules:** available on the School website (<https://www.ingindinf.polimi.it/en/1>) and the University website (<https://www.polimi.it/en/programmes/>)
- **Charter of the rights and duties of students:** [http://www.normativa.polimi.it/?id\\_sottoc=66](http://www.normativa.polimi.it/?id_sottoc=66).
- **School Regulations:** <https://www.ingindinf.polimi.it/en/translate-to-english-scuola/translate-to-english-informazioni-e-documenti/translate-to-english-documenti-e-regole>.
- **Academic Calendar and Deadlines:** <https://www.polimi.it/en/current-students/calendar-and-deadlines/deadlines/>.



# Information: where and how to look for

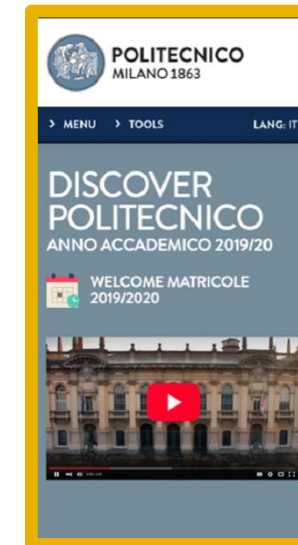
- The Politecnico di Milano website: [www.polimi.it](http://www.polimi.it). For further details on the University or your timetable, check the students' page (<https://www.polimi.it/en/current-students/>).
- The School website: <http://www.ingindinf.polimi.it>. For more detailed information on your programme (admission, courses, tracks and graduation days) check the **Mechanical Engineering Programmes website** <http://www.ccsmecc.polimi.it/>.
- Find your profile and your timetable on the **Online Services** webpage: [www.polimi.it/servizionline](http://www.polimi.it/servizionline).



# App, newsletter and Social Networks

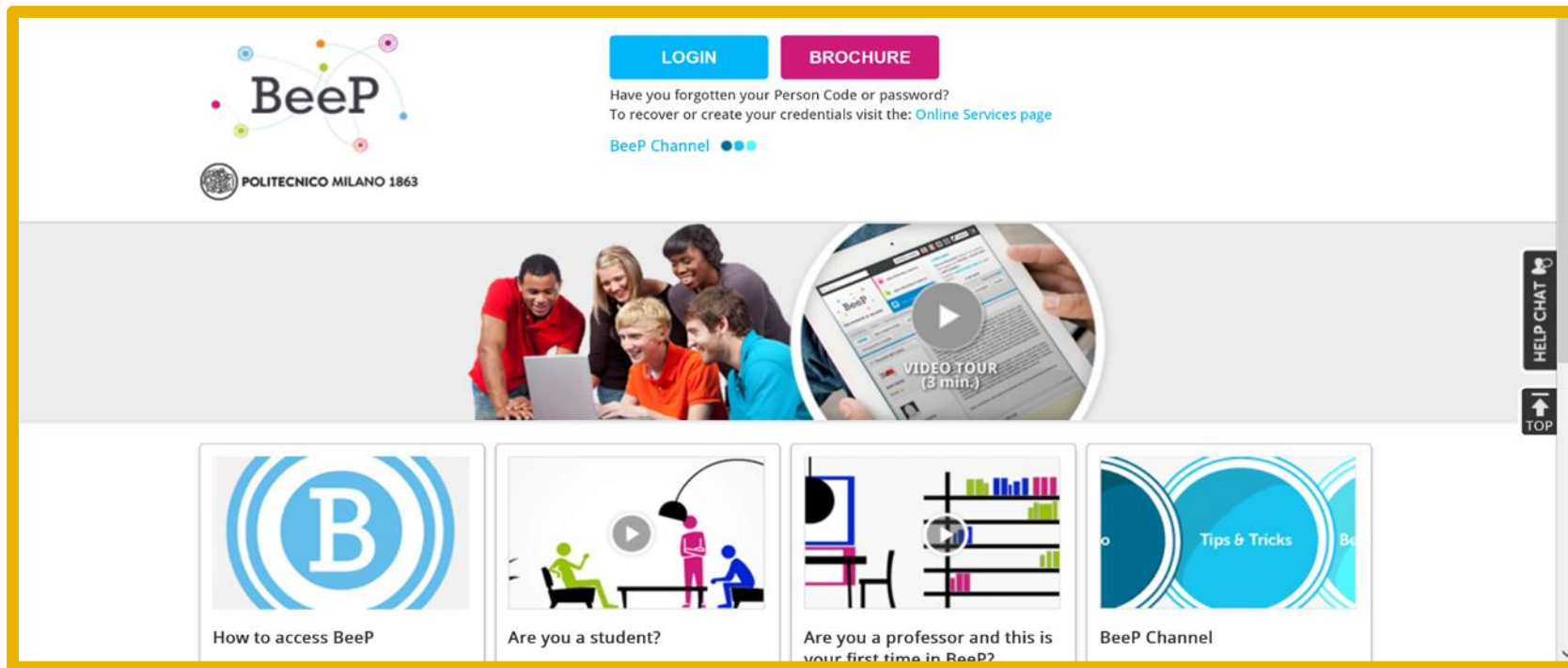
- **DISCOVER POLIMI:** the mobile **APP** for freshmen that helps you discover all POLIMI services for students.
- **POLIMI:** the mobile **APP** for all students who would like to have immediate access to lecture timetables, manage study plan, request support to student office, etc.
- **Politamtam:** subscribe to our fortnightly newsletter <http://www.politamtam.polimi.it/> to be notified of all events, student clubs' activities, students' opportunities, and so much more.
- **Social Networks:** [www.facebook.com/polimi](http://www.facebook.com/polimi);  
[www.youtube.com/polimi](http://www.youtube.com/polimi); [www.instagram.com/polimi](http://www.instagram.com/polimi);  
[www.twitter.com/polimi](http://www.twitter.com/polimi);  
[www.linkedin.com/school/polimi](http://www.linkedin.com/school/polimi);  
[www.polimi.it/itunes](http://www.polimi.it/itunes).

## SOCIAL



# BEEP

**Beep** is our web app where you can find all lecture-related information and material: <https://beep.metid.polimi.it/>.



## Beep Courses

Teaching material and notes, student-teacher communications.

## Beep ME Programme:

Communications between study program students, Student Representatives, and Director of Studies.

# Services and Opportunities

- **Libraries:** You can find 4 libraries in all POLIMI campuses in Milan and other 5 in all other campuses over Lombardy and Emilia-Romagna.
- **Career Service** is the University service that connects students with companies, helping with finding internships or jobs:  
<http://www.careerservice.polimi.it/>.
- **POLIHUB** is the startup District & Incubator that gives you opportunities for turning your ideas into a startup company: [www.polihub.it](http://www.polihub.it).
- **Moocs** is the POLIMI portal of free online courses (MOOCS):  
[www.pok.polimi.it](http://www.pok.polimi.it).
- **International mobility** → exchange programmes, short mobility, double degrees: <https://www.polimi.it/en/services-and-opportunities/>.

For further info: <https://www.polimi.it/en/services-and-opportunities/>.





Tutoring

# Services and Opportunities

The tutoring service of the School supports student during their studies with peer-tutors and contact-teachers.

Tutors must:

- Be students' first contact when in need due to any lecture-related issue;
- Help students with any course-related problem, even clarifying some concepts or doing exercises.



The School offers to its students different tutoring opportunities. Meaning any enrolled student can be part of the peer-tutoring programme, provided on-demand, or take part into other more traditional tutoring services, provided on a daily basis.

For further info: <https://www.ingindinf.polimi.it/en/studenti/translate-to-english-servizi/translate-to-english-tutorato>.

# Tutoring for Postgraduate Students

**Peer-to-Peer tutoring** is the service provided for international students mainly. More experienced peer-tutors provide help, individually or virtually in small groups (3-4 people), on the basic courses of the Postgraduate Programme. It is possible to request for a tutor's help both during the very first semester of your master, and at other given time over the year by sending an email: [tutorato-ingegneria@polimi.it](mailto:tutorato-ingegneria@polimi.it).

**Specific tutoring** : extra practical lessons held by PhD students and expert teachers on some selected courses of the Programme (information provided by the Lecturer of the course).



# Exchange Programmes

# Make your CV International

POLIMI offers their students many opportunities to study or abroad:

- Exchange Programmes allow you to attend courses in one of our partner Universities;
- Double Degrees Programmes will allow you to graduate from POLIMI and another Partner University.



<https://www.polimi.it/en/services-and-opportunities/experience-abroad/>

# Exchange Programmes: Contacts

If you need any information on how to apply for an Exchange programme, please contact one of the following Professors in charge:

- **Prof. Mauro Filippini**
- **Prof.ssa Silvia Barella**
- **Prof.ssa Paola Saccomandi**

You can also send an email to: [erasmus@polimi.it](mailto:erasmus@polimi.it).

In the Educational Rules document you can find the complete list of all Partner Universities, which can be selected as destinations.

The International Student Mobility grant is issued every year, but to be selected you must apply by following the University policy on Exchange Programmes.



# Programme Structure

# MS in Mechanical Engineering

Bachelor of  
Science

- I Basic S/T subjects for Industrial Engineering
- II Mechanical Engineering fundamentals
- III Preparatory and Professional tracks

Master of  
Science

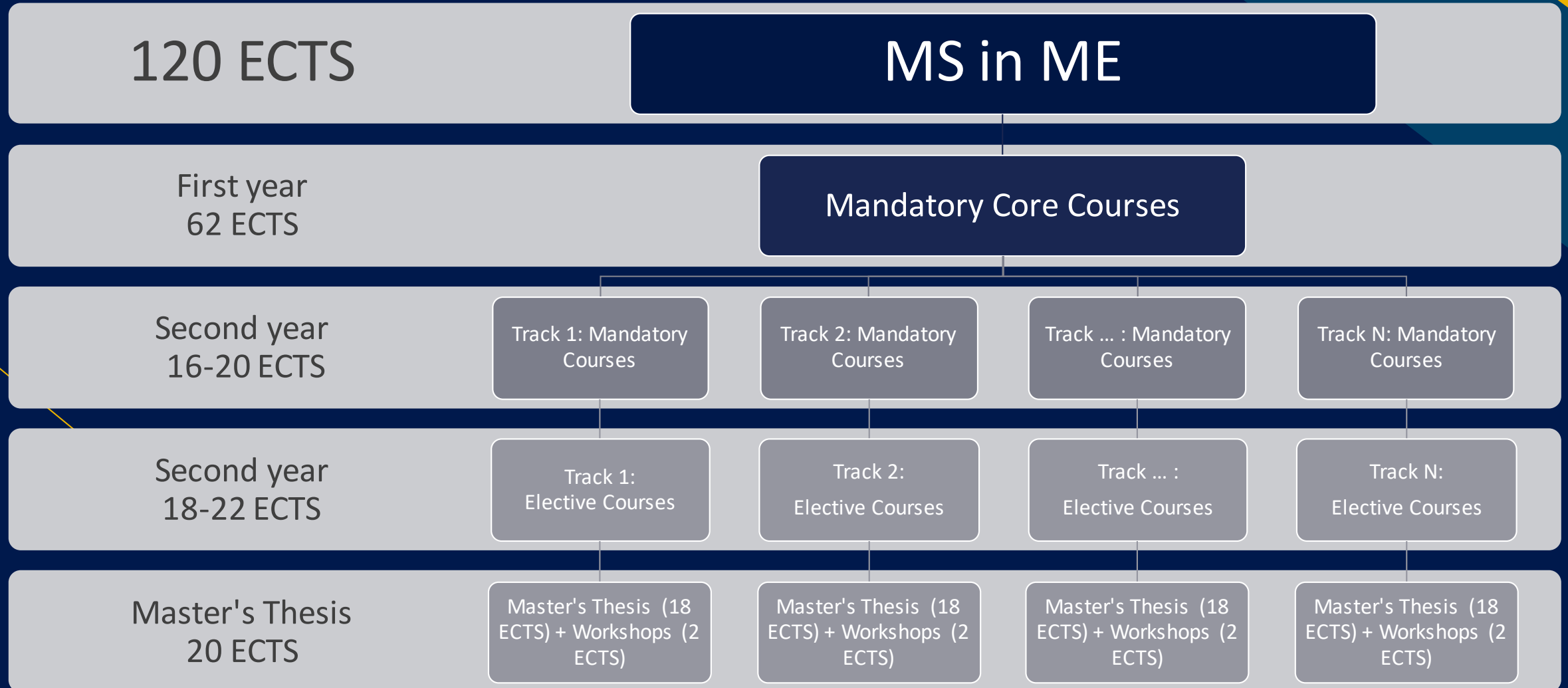
- IV Advanced Mechanical Engineering common subjects
- V Specialisation tracks

Ph.D.

- I
  - II
  - III
- } Research-oriented studies



# Programme structure



# MS: first year

62 ECTS

Mandatory  
Core Courses

- Control and actuating devices for mechanical systems
- Applied metallurgy
- Energy systems
- Advanced manufacturing processes
- Machine design
- Mechanical system dynamics
- Measurements
- Design and management of production systems

# MS: second year

38 ECTS

Track Mandatory  
Courses

16-20 ECTS

Track Elective  
Courses

18-22 ECTS

## Tracks:

- ME1: Production Systems
- ME2: Mechatronics and Robotics
- ME3: Virtual Prototyping
- ME4: Int. Comb. Engines and Turbomachinery
- ME5: Advanced Mechanical Design
- ME6: Advanced Materials and Manufacturing
- ME7: Ground Vehicles
- ME8: Machine Tools and Manuf. Systems (BV+PC)
- ME9: Mobility Engineering
- ML5: Engineering Design and Manufacturing (LC)

# MS: Master's thesis

20 ECTS

Master's Thesis –  
research project  
18 ECTS

Workshops  
2 ECTS

- Written dissertation about a chosen Master's thesis research/industrial project
- Horizontal competences acquired by attending four workshops.

# Horizontal Competences

## ■ How are the Horizontal Competences ETCS awarded?

- Admission: confirm you have been awarded already 49+ ECTS
- Workshops: each one lasts about 4 hours and covers important topics for you future career.
- Exams: you have to take and pass a multiple-choice test and for each passed module you'll be awarded 0.5 ECTS;

Once you pass all the 4 modules tests (1 per workshop), you will be awarded the 2 ECTS required.

Company	Speaker	Title	Language	Date	Time	Room
PoliHub	Stefano Mizio	Startup innovation workshop	ENGLISH	2020 April 07	09:00 - 13:00	Teams
	Maurizio Dalla casa	Cenni di diritto civile ed aspetti del contenzioso giudiziale in ambito industriale	ITALIAN	2020 April 07	14:00 - 18:00	Teams
Siemens		How To Be Ready for the New Industry, now	ENGLISH	2020 April 08	09:00 - 13:00	Teams
BHGE	Marco Ruggiero	IPR management in large enterprises: a primer	ENGLISH	2020 April 08	14:00 - 18:00	Teams
	Andrea Casaroli	La fotografia come strumento tecnico per l'ingegneria	ITALIAN	2020 April 09	14:00 - 18:00	Teams

# Master's Thesis and Graduation Day

## ■ Topic

- Master students are supposed to write a Master's Thesis on a subject or a scientific domain (SSD) that is part of the selected track.

## ■ Supervisor

- Once identified the subject of interest, students ask that course Professor for available topics on which to write the dissertation.
- N.B. is always best not to rush the process, therefore the best timing to start looking for a dissertation topic is when you have about 2 or 3 on top exams left.

## ■ Thesis presentation

- On your graduation day you will present your work in front of a Graduation Committee.
- If you present your dissertation in front of an opponent, you will get a higher evaluation of your work.

For further info <http://www.ccsmecc.polimi.it/en/enrolled-students/theses-and-graduation-essays/>.

# More opportunities to improve your skills

## PASSION IN ACTION

### BEYOND THE CURRICULUM: TRAINING AND PASSION

"Passion in Action" is a catalogue of **open participation** teaching activities that the Politecnico offers to students to **support the development of transversal, soft and social skills** and to encourage/facilitate students in enriching their personal, cultural and professional experience. This opportunity is open to everyone. Students may choose from a range of subjects depending on their own interests and personal aptitudes. Students taking part in "Passion in Action" can register for any of the activities in the catalogue, regardless of whether they are related to the programme in which they are enrolled (subject to any prerequisites for access to individual initiatives). Acquired skills will be accredited on the [Diploma Supplement](#).

### SCHEDULED INITIATIVES

◀	OCT 2019	NOV 2019	DEC 2019	JAN 2020	FEB 2020	MAR 2020	▶
	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	SEP 2020	

CAMPUS: ▼

LANGUAGE: ▼

Courses with open enrollment

# ME Programme: Contacts

## ■ Admission (Milano Bovisa)

- Prof. Simone Cinquemani – students graduated in Italy
- Prof. Massimo Scotti – students graduated abroad

## ■ Admission (Lecco)

- Prof. Andrea Tommaso Venia

## ■ Customisation of your Postgraduate Programme (Milano Bovisa)

- Prof. Massimiliano Annoni

## ■ Customisation of your Postgraduate Programme (Lecco)

- Prof. Andrea Tommaso Venia

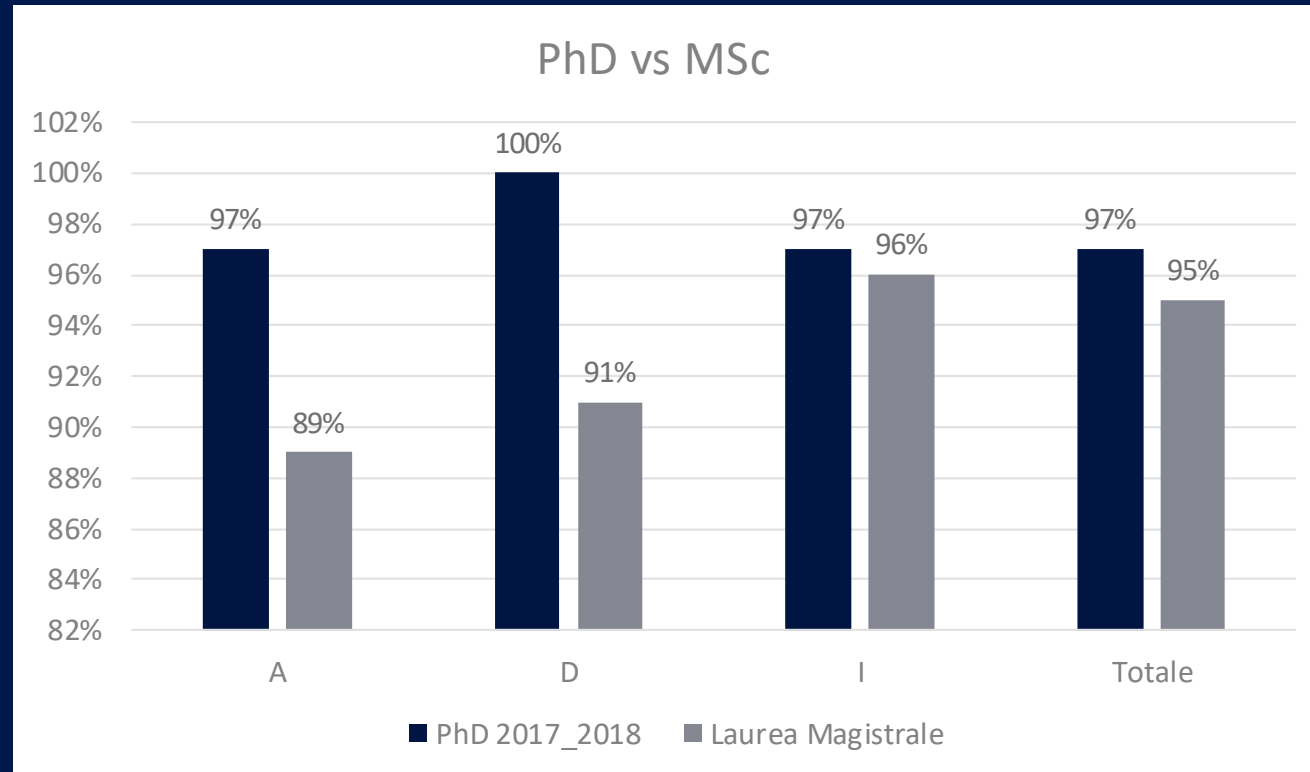




Ph.D.

# Education: Bachelor & Master Level

Placement:  
Graduates (MSc)  
vs Ph.D.s (Survey 2019)



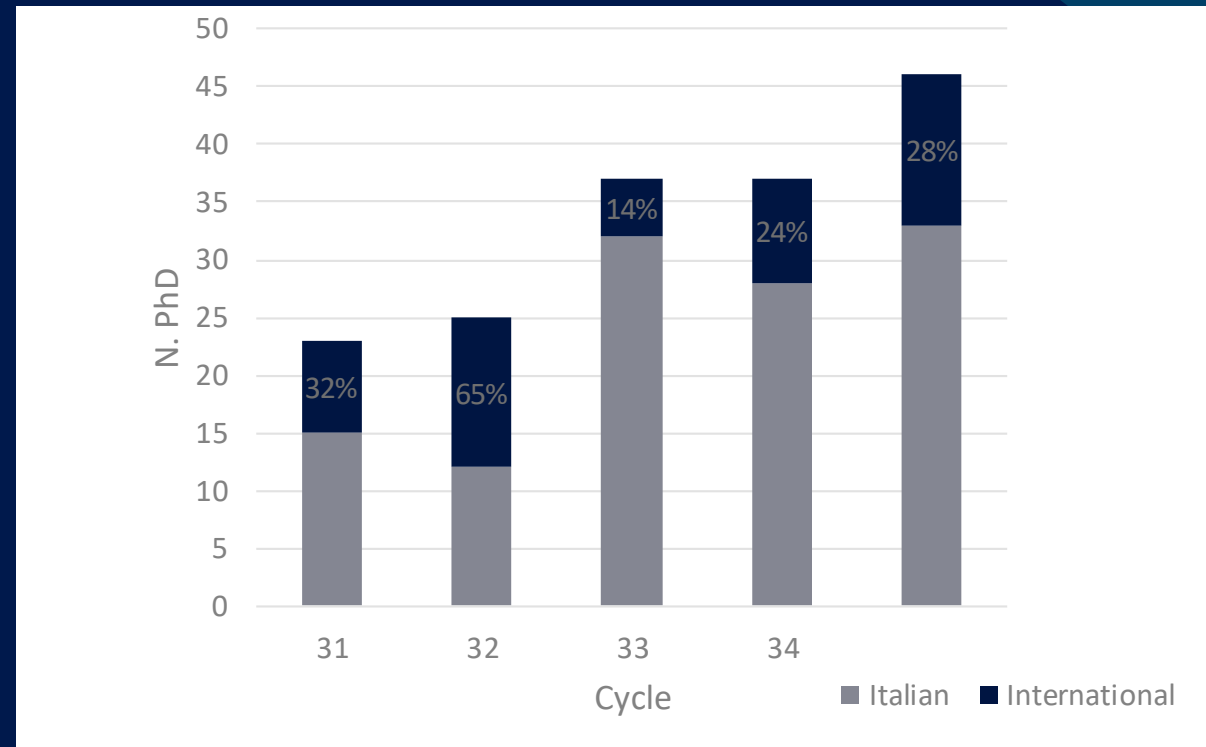
A: Architecture  
D: Design  
I: Engineering

Employment rate MSc: 95%  
Employment rate Ph.D.s: 97%

Monthly net amount MSc: 1575 €  
Monthly net amount PhDs: 1828 €

# Ph.D. in Mechanical Engineering

Placement of Ph.D.s in  
Mechanical Engineering:  
(Survey 2019)



Employment rate Ph.D.s: 97,1%

Monthly net amount PhDs: 2067 €

# Internationalisation



**POLITECNICO**  
MILANO 1863

**IDEA League** A focused network of leading European universities of science and technology



**ALLIANCE TECH**

European Campus without borders:  
a real international experience!



- Centrale Supélec;
- Politecnico di Milano;
- Technische Universität Berlin;
- University College London;
- European Campus without borders for students and faculties



**同濟大學**  
TONGJI UNIVERSITY

# Internationalisation

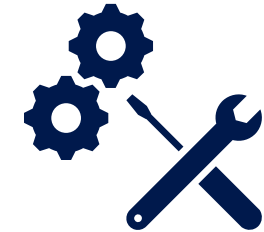


Progetto Roberto Rocca

## Doctoral at MIT

The Progetto funds 6-12 month research stays at MIT for 5-6 Politecnico PhD students every year. High-quality profiles are sought. Priority will be given to students who participate in collaborative projects between MIT and Politecnico research groups. Please note that in addition to academic excellence, the fit between the applicants' interests and those of the hosting labs is a major criterion for selection

# Deadlines



PHD START DATE	FEB 2021	MAY 2021	NOV 2021
APPLICATION DEADLINE	NOV 2020	MARCH 2021	MAY 2021



# Contacts



## MeccPhD Office

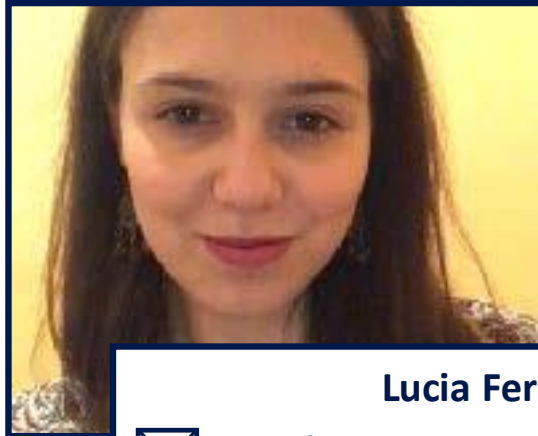
Campus Bovisa, Via La  
Masa 1

Ground floor

Administration Area

ph. 02-2399 8555/8497 

**phd-dmec@polimi.it** 



**Lucia Ferrari**

 **lucia.ferrari@polimi.it**



**Daniela Ripanti**


 **daniela.ripanti@polimi.it**



## MY CONTACT

### Giovanni Lugaresi

Campus Bovisa, Via La Masa 1

ph. 02-2399 8538 

**giovanni.lugaresi@polimi.it** 



## Programme Coordinator

### Prof. Daniele Rocchi

Campus Bovisa, Via La  
Masa 1

First floor

 ph. 02-2399 8485

 **phd-dmec@polimi.it**

**daniele.rocchi@polimi.it**



GRAZIE PER  
L'ATTENZIONE

FINE



THANK YOU FOR  
YOUR ATTENTION

THE END