

The Rector

**POLITECNICO
MILANO 1863**

HAVING REGARD TO Politecnico di Milano's Articles of Association;
 HAVING REGARD TO Ministerial Decree 3.11.1999, no. 509;
 HAVING REGARD TO Ministerial Decree 22.10.2004, no. 270;
 HAVING REGARD TO the University's Educational Rules - Regulations;
 HAVING REGARD TO the Regulation for 1st and 2nd level Specialising Masters, Post Graduate Courses and Continuing Education of Politecnico di Milano issued with Rector's Decree no. 6485 of 30.05.2024;
 HAVING ACQUIRED the favourable opinion of the Academic Senate during the meeting on 16.02.2026, on the establishment and activation of proposals for Specialising Masters, including the second level Specialising Master in "SUSTAINABILITY AND ENERGY MANAGEMENT IN CONSTRUCTION WORKS"

HEREBY DECREES

that the second level Specialising Master in "SUSTAINABILITY AND ENERGY MANAGEMENT IN CONSTRUCTION WORKS" is established and activated for the years 2026/2027.

ART. 1

Master's features

The second level Specialising Master in "SUSTAINABILITY AND ENERGY MANAGEMENT IN CONSTRUCTION WORKS" has been set up and activated at the Department of Architecture, Built Environment and Construction Engineering.

The Master is provided by CONSORZIO CIS-E - POLITECNICO DI MILANO. The reference school is the School of Architecture, Urban Planning and Construction Engineering.

The Specialising Master's Director is Professor Giuliano Dall'Ò. The Vice-Director is Professor Pietro Giuseppe Crespi.

The Scientific Committee of the Specialising Master's programme is composed by Professors from Politecnico di Milano: Giuliano Dall'Ò, Alberto Franchi, Paola Ronca, Claudio Del Pero, Pietro Giuseppe Crespi, Adalberto Del Bo and Stefano Della Torre, Angelo Lucchini; and by Alessandro Zichi from Consorzio CIS-E.

ART. 2

Educational objective and employment opportunities

The Consorzio CISE is the headquarters of the GBC (Green Building Council) Italy, of which prof. Giuliano Dall'O' (Director of the Master) is President. This allows continuous comparison with realities in the construction sector attentive to minimizing the impact on the environment from their manufacturing activities. A report by the International Energy Agency and UN Environment has highlighted that about 39% of carbon dioxide emissions in the atmosphere on a global scale are due to the construction industry. A very significant percentage that highlights the opportunity that the Construction industry today has to play a major role in the struggle to climate change. The course is focused on issues related to the environmental impact of the activity of construction of buildings and infrastructures, towards a conscious choice of technologies e solutions both in new buildings and infrastructures, and in the recovery of the building heritage e existing infrastructure. It addresses the integral process related to the activities of construction, from the design of highly efficient buildings and infrastructures energy, to development on site, with the use of IT tools for integrated design, BIM type, and energy analysis software, from design lighting technology, the design of the envelopes, the dynamic modeling software employed in the world of green building. Special attention is paid to use rationale of resources, the choice of building materials, the construction site, the management, the use of environmental impact assessment systems aimed at achievement of certifications of both regional (CENED) and international (LEED) value. The

outlets jobs are foreseen in construction companies, producers of technologies for construction, engineering and architectural design studios, public administration. The Master will provide the basic training for enrollment in professional registers such as energy certifiers in Italy, in the specific case in Lombardy CENED*, and abroad, LEED AP or LEED Green Associate* GBC US.

The job opportunities offered to those who have acquired the knowledge and tools presented during the master's classes are numerous and varied: design studios, engineering firms, construction companies, building materials suppliers, real estate developers, general contractors, public entities, etc., all require and are constantly in search of professionals capable of optimizing their industrial processes in order to enhance the sustainability of their products and/or services.

The Master's will be delivered online and in English language.

ART. 3 Teaching content and organisation

The Specialising Master's will start in **November 2026** and will end in **November 2027**.

The master is made up of 391 hours of lessons divided between about 186 hours dedicated specifically to energy management and the remaining 205 hours dedicated to various disciplines related to the sustainability of buildings and infrastructures. There are no intermediate exams (during the lessons), while students will be asked to write a master's thesis at the end of the lessons. The students will dedicate about 400 working hours to it and it will be viewed and judged by the master's scientific commission. The final thesis will consist in the critical description of one or more concrete works in which the student is involved or has been involved in the past. With the aim of highlighting how the student has learned to use some of the tools that the master has made available in professional practice. Each student will be able to carry out the thesis independently.

The master's is a **61 ECTS** programme and teaching will be organised as follows:

Educational activity	MANDATORY Courses		
	SSD	Total hours of activity	ECTS
Teaching			
CAM - Minimum Environmental Criteria	ING-IND/11	16	0,5
	ICAR/10		
CENED - NZEB designer	ING-IND/11	214	8,5
	ICAR/10		
BMS (Building Management System)	ING-IND/11	32	1
	ICAR/11		
Green Market - project financing and economic evaluations of investments - LCC	ICAR/14	24	0,5
	ICAR/09		
Environmental rating systems compared: Energy Star, Green Globes, Living Building Challenge, Zero Energy Building, Parksmart	ING-IND/11	50	2
	ICAR/10		
Green Building Council and LEED	ING-IND/11	140	6,5
	ICAR/10		
WELL Building Standard	ING-IND/11	32	1
	ICAR/10		
BREEAM Building, infrastructure standard rating system	ING-IND/11	75	3
	ICAR/10		
Sustainable infrastructure: ENVISION	ING-IND/11	50	2
	ICAR/10		
LCA analysis, evaluations and use of software	ING-IND/11	32	1
	ICAR/10		
Building materials: innovations and technological choices	ING-IND/11	32	1
	ICAR/10		
Dynamic energy modeling for energy and environmental certifications	ICAR/14	82	3
	ICAR/09		

Water management	ING-IND/11	16	0,5
	ICAR/10		
Conceptual Design: the land, infrastructure and buildings project	ING-IND/11	23	0,5
FIRE DESIGN - passive design, technologies, maintenance and control	ING-IND/11	50	2
Energy Manager: EGE e Energy Auditor [EGE]	ING-IND/11	89	3,5
The energy contribution provided by renewable sources	ING-IND/11	39	1,5
Energy evaluation and design of industrial and civil systems	ING-IND/11	50	2
Introduction to the use of thermography	ING-IND/11	50	2
BIM Management, from modelling to coordination	ING-IND/11	175	7

Other activities	MANDATORY Courses		
Teaching	SSD	Total hours of activity	ECTS
Thesis preparation, discussion and final examination	n.a.	300	12

ART. 4 Admission requirements

The admission is open to applicants holding a Master of Science or equivalent degrees. The admission is also open to Italian and foreign citizens with foreign degrees as far as equivalent in their respective university systems.

The maximum number of admitted students is 50. The selection process is carried out by the Scientific Committee.

ART. 5 Formal requirements

The **admission application** must be submitted starting from the day after the date of this Decree and **no later than one month BEFORE the start of the program.**

The extended information on data processing and data subject rights is available on the website www.polimi.it/privacy.

The managing authority delivering the program must provide students with all the necessary set of forms and information on how to correctly apply to the Master's.

Once the validity of the qualification has been verified, the Managing Body will advise the student on the documentation needed to prove the authenticity of their qualification, in accordance with the MIUR/MAE's note "Procedures for entry, residency and enrolment of international students and the respective recognition of qualifications, for higher education courses in Italy for the academic year 2025/2026".

In particular, the Managing Body can request the following documents:

*** Italian/foreign citizens having graduated in Italy**

- copy of the identity document
- copy of the Diploma Supplement or copy of the degree diploma or self-certification through the appropriate form provided by the Master's Managing Authority.

* Italian/EU citizens with qualification obtained abroad

- copy of the identity document
- **copy of the academic qualification** in original language and its translation into Italian/English/French or Spanish
- copy of transcripts with the list of exams in the original language and their translation into Italian/English/French or Spanish or Diploma Supplement in English language (**when enrolling, the students have to submit:**
 - **the Declaration of Value issued by the relevant area's Italian Representative abroad** or
 - **the Diploma Supplement with digital signature or electronic time stamp** or, in case of absence of digital signature/electronic time stamp, **the Diploma supplement with apostille** or
 - **a certificate issued by the Enic/Naric Centres** or
 - **a certificate issued by the World Education Services - WES).**

Under Art. 75 of Italian Presidential Decree 445/2000, if the Administration, after carrying out suitable checks, finds that the content of the declarations made by the applicant is untrue, the declarant forfeits any benefits obtained through the untrue declaration.

* Non-EU citizens having graduated abroad

Non-EU foreign citizens must submit the following documents to the Managing Authority:

- **copy of the degree** in the original language and its translation into Italian/English/French or Spanish;
- **copy of the transcripts** with the list of exams in the original language and their translation into Italian/English/French or Spanish (**when enrolling, the students have to submit:**
 - **the Declaration of Value issued by the relevant area's Italian Representative abroad** or
 - **a certificate issued by the Enic/Naric Centres** or
 - **a certificate issued by the World Education Services - WES.**
- **copy of a valid passport)**

After the acceptance from the University, and only after confirming to the Managing Authority their participation to the programme in accordance with its procedures, students will have to register on the Ministerial portal <https://www.universitaly.it>. Once the registration has been completed, the student will have to inform the Managing Authority, so that the application can be sent to the authorities responsible for issuing the entry visa.

It is also specified that:

- the preliminary acceptance of a candidate by the university **does not grant any right to obtain the visa;**
- obtaining a student visa issued by the competent diplomatic-consular representation **does not grant any right to complete the enrollment.**

The managing authority informs Politecnico di Milano Masters and Continuous Educations unit, about the starting date of the course AT LEAST two months before the starting date.

ENROLMENT PROCESS:

Students admitted to the Master's Programme must obtain the access credentials to Politecnico di Milano's online services on the website www.polimi.it, enter their personal data and attach valid identity document (passport for non-EU citizens). Students already registered are expected to update their personal details, if these are obsolete.

Portal access credentials must be safely kept since they will be required for the access to all Politecnico di Milano's services. Lost credentials can be autonomously restored or obtained through an OTRS ticket.

In order to proceed with the enrolment, students admitted to the Masters' must pay the enrolment fee as well as the enrolment stamp via Politecnico di Milano's online services.

In addition to the above documentation, **non-EU citizens must upload a copy of a valid entrance document as well as the residence permit, on their online services personal data record.**

In order to be enrolled at Politecnico di Milano, regardless of the Master's delivery mode (in person, online/distance learning), **non-EU citizens must upload a copy of a valid passport on their online services personal data record.**

ART. 6 Degree and award recognitions

ISSUED CERTIFICATION

In order to be able to take the final exam, students admitted to the Master's final examination have to pay the due fee through the online services of Politecnico di Milano.

At the end of the Programme, upon completion of the course and after passing the final test, the student will be awarded the second level specialising Master in “Sustainability and energy management in construction works”, in English language.

STUDENT OBLIGATIONS

Attendance is compulsory for at least 75 per cent of the programme activities.

Withdrawal from the Programme must be communicated in written form. The training period cannot be suspended for any reasons.

TESTING METHODS

The final exam will consist of the discussion online of the master's thesis.

ART. 7 Tuition fees and contributions

The cost of this Specialising Master programme, is **€ 3.000,00** divided as follows:

- Politecnico di Milano enrolment fee is **€ 500,00** per student.
- Participation fee is **€ 2.500,00** per student

Politecnico di Milano enrolment fee will not be refunded under any circumstances.

As far as the Specialising Master participation fee is concerned, it will be the managing authority responsibility to define the procedures.

ART. 8 Personal data processing

Under EU Regulation no. 2016/679 on data protection, the University processes personal data only for purposes related to the master's admission, enrolment and management, and you agree to the disclosure of your personal information to third parties, particularly:

- public and private entities possibly interested in recruitment;
- to academic programme backers; Politecnico Treasurer for services related to tuition fees;
- to Managing Authorities managing loans, housing, flexible employment contracts, cultural, recreational and/or sport activities.
- I authorise the use of the data for statistical purposes in respect of the procedures and authorisations required by the cited regulation.

The extended information on data processing and data subject rights is available on the website www.polimi.it/privacy

ART. 9
Publication

This Decree is made public on Politecnico di Milano's website at <https://www.polimi.it/corsi/master-universitari-e-corsi-post-laurea/>

FOR CLARIFICATIONS AND FURTHER INFORMATION, PLEASE CONTACT:

PAOLA RONCA

CONSORZIO CISE C/O POLITECNICO DI MILANO

P.ZZA LEONARDO DA VINCI, 32

Phone: +39 02 2399 4252/4381

Email: franchi@cise-polimi.it; paola.ronca@polimi.it

Website: <https://www.masterpesenti.polimi.it>

The Rector
(prof. Donatella Sciuto)
Signed Donatella Sciuto

Digitally signed document, under legislation.