

**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 1<sup>st</sup> and 2<sup>nd</sup> 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 REGARD TO the collaboration agreement signed by the Rector of Politecnico di Milano, by the Rector of Alma Mater Studiorum University of Bologna, by the Rector of the University of Florence, by the Rector of the University of Naples, by the Rector of the University of Padua and by the Rector of Sapienza University of Rome, for the issuance of the joint Master's qualification on File. n° 6561 del 05.06.2025;  
 HAVING ACQUIRED the approvals by the Universities involved;  
 HAVING ACQUIRED the favourable opinion of the Academic Senate during the meeting on 17.02.2025, on the establishment and activation of proposals for Specialising Masters, including the first level Specialising Master in "SUSTAINABLE MANAGEMENT OF RESOURCES".

**HEREBY DECREES**

that the first level Specialising Master in "SUSTAINABLE MANAGEMENT OF RESOURCES" is established and activated for the years 2025/2027.

**ART. 1**

**Master's features**

The first level Specialising Master in "SUSTAINABLE MANAGEMENT OF RESOURCES" has been set up and activated at the Department of Energy.

The Master is provided by the Department of Energy. The reference school is the School of Industrial and Information Engineering.

Director of the First Level Specializing Master's Program for the Politecnico di Milano is Prof. Fabio Inzoli; Director of the University Master's Program for Alma Mater Studiorum Università di Bologna is Prof. Raffaella Campaner; Director of the University Master's Program for the Università degli studi di Firenze is Prof. Giorgia Giovannetti; Director of the University Master's Program for the Università degli Studi di Napoli is Prof. Guido D'Urso; Director of the University Master's Program for Sapienza Università di Roma is Prof. Carlo G. Cereti; and Director of the University Master's Program for the Università degli studi di Padova is Prof. Piergiorgio Sonato.

The Vice-Director of the University Master's Program for the Politecnico di Milano is Prof. Diana Shendrikova.

The Scientific Committee of the First Level Specializing Master's Program is composed as follows:

- Prof. GUIDO D'URSO - UNIVERSITA' DI NAPOLI;
- Prof. CARLO G. CERETI - UNIVERSITA' DI ROMA;
- Prof. PIERGIORGIO SONATO - UNIVERSITA' DI PADOVA;
- Prof.ssa GIORGIA GIOVANNETTI - UNIVERSITÀ DI FIRENZE;
- Prof.ssa EMANUELA COLOMBO - POLITECNICO DI MILANO;
- Prof. FABIO INZOLI - POLITECNICO DI MILANO;
- Prof. RAFFAELLA CAMPANER - UNIVERSITA' DI BOLOGNA;
- Prof. DIANA SHENDRIKOVA - POLITECNICO DI MILANO.

## **ART. 2**

### **Educational objective and employment opportunities**

The overall objective of this Master's degree is to support African universities by contributing to the improvement of personnel and the training of a qualified generation of young researchers and lecturers in line with a renewed centrality of the African continent synchronised with the interests of the university world and Italy, as confirmed by the strategies supported both by the Ministry of Universities and Scientific Research and by the more political level with the launch of the Mattei Plan and the declarations during the Italian G7 Presidency. In these years of great uncertainties and unpredictability, science has once again become a strategic asset: the European Commission itself, in 2021, launched the European Alliance for Science Diplomacy and activated working groups responding to the Global Service Facility in order to promote new paradigms of international cooperation and to increase the presence of scientific research in the global debate to inform policies. The Capacity for Science is central to the AU-EU Innovation Agenda promoted by the European Commission and the African Union, and this is the direction in which the Master's degree programme in question fits, in order to recognise the university world, science and higher education as having an added value: the spin-offs of (knowing how to) build a link in terms of principles and values with the future ruling class of the African continent and tie it to Italy would be more than significant in terms of sustainability as well. Within the AU-EU partnership, both continents are already committed to strengthening the overall framework of cooperation for science, technology and innovation (STI), which has been marked as a property of the Joint Africa Europe Strategy (JAES) since 2008. Moreover, this commitment is also a claim within the seven aspirations of the African Union (Agenda 2063) and with the people-centred approach of the Sustainable Development Goals (Agenda 2030).

As part of this pathway, this master's degree course is designed with a specific threefold objective for the target audience (trainers) to increase their knowledge of the global challenges of sustainable development and clarify their implications for the African continent; to provide them with the appropriate tools to pursue research and training in this field by being able to transfer their knowledge back to their home universities; strengthen the partnership between their universities of origin and Italian universities to corroborate the link between the countries. The Master is designed for young talents with academic perspectives: young lecturers, junior researchers. The scholarship covering the Master's costs will be available to 25 candidates from Africa. The Master is designed for young talents with academic perspectives: young lecturers, junior researchers. The scholarship covering the Master's costs will be available to 25 applicants from Africa. The Master will be open to a maximum of 10 other post-doctoral researchers and young lecturers from outside Africa at full cost. Local universities will help the Scientific Committee and the Management Committee of the IHEA Foundation to select a group of highly qualified lecturers who will be trained in skills, capacities and tools. This knowledge, if well grafted onto a generation of young talent, can be used to support effective, fair and reasoned policy choices. Indeed, African governments have appealed to support African higher education institutions and to use the COVID-19 pandemic as an opportunity to strengthen local educational institutions by making them more resilient to unforeseen crises.

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

## **ART. 3**

### **Teaching content and organisation**

The Specialising Master's will start in **October 2025** and will end in **February 2027**.

The Master consists of 3 general modules and 3 specific modules: Introductory Module: Sustainable Development and the Challenge of Africa (6CFU) General Skills Module: Fundamentals of Geopolitics in Cooperation (6CFU) Instrumental Skills Module: Project Management/Research Innovative Teaching (5CFU) Module on Sustainable Agro-Food Chains (10CFU) Module on Sustainable and Just Energy Transition (10CFU) Module on Cultural heritage and its valorisation (10 CFU) Final project (13 CFU): The specialisation Master's course involves the assignment of a project work carried out in groups during which students will apply the knowledge acquired within the Modules and write a research proposal on a topic of interest to their university of origin or design a programme and syllabus (including innovative teaching) for a new teaching course..

The master's is a **60 ECTS** programme and teaching will be organised as follows:

Module 1 - Sustainable development and the Africa challenge			
Teaching	SSD	Total hours of activity	ECTS
Current status of SDGg in Africa, with special attention to the management of natural resources	AGR/08	25	1
	ICAR/03		
Practical Perspective on achieving SDGs: methodologies and tools	AGR/01	50	2
	ING-IND/10		
The Agenda 2063 and the connection to the SDGs	AGR/02	25	1
	SECS-P/01		
Module 2 - Fundamentals of Geopolitics for Cooperation			
Teaching	SSD	Total hours of activity	ECTS
History of Cooperation and Development	SPS/06	25	1
Introduction to Geopolitics	SPS/04	25	1
Evidence Based Policy Making Fundamentals	ING-IND/10	25	1
	ING-IND/22		
Module 3 - Project and Research Management and Innovative Teaching			
Teaching	SSD	Total hours of activity	ECTS
Research project Management and valorization	SECS-S/03	75	3
	ING-IND/35		
Innovative teaching and monitoring systems	M-PED/03	100	4
	MAT/05		
EU Calls for Cooperation in Higher Education	M-PED/03	75	3
	ING-IND/10		
Module 4 - Sustainable Food System			
Teaching	SSD	Total hours of activity	ECTS
Agriculture in economic development	SECS-P/01	75	3
	AGR/01		
Production factors and peasant farm organization	AGR/08	50	2
	AGR/03		
Development of peasants	AGR/02	50	2
	AGR/10		
Sustainability of food systems	ING-IND/35	75	3

	AGR/15		
Module 5 - Sustainable Energy Transition			
Teaching	SSD	Total hours of activity	ECTS
Fundamentals of Energy System and Energy Accounting	ING-IND/10	50	2
	ING-IND/08		
Energy Scenarios: history and trends of energy demand and resources	SPS/06	75	3
	ING-IND/10		
Energy Technologies and Infrastructure	ING-IND/31	50	2
	ING-IND/25		
Energy Modelling Tools	ING-IND/09	75	3
	ING-IND/11		
Module 6 - Cultural Heritage			
Teaching	SSD	Total hours of activity	ECTS
Legal framework and wide-ranging actions of the main international UN-based actors (e.g., UNESCO, ICRROM, ICOMOS)	L-OR/14	50	2
	L-ART/04		
Role and functions of preventive archaeology	L-ANT/01	50	2
	L-ANT/10		
Relationships between cultural heritage, local communities and society	M-DEA/01	75	3
	L-ANT/10		
Digital humanities	L-OR/09	75	3
	M-STO/08		
Module 7 - Project work			
Teaching	SSD	Total hours of activity	ECTS
Project work	N.A.	325	13

## ART. 4

### Admission requirements

Twenty-five candidates who are researchers, lecturers including contract faculty and collaborators of African universities holding a Bachelor's degree (Bachelor), Master of Science degree (Master of Science) will be eligible. For foreign applicants, equivalent degrees in their respective study systems will be considered valid. Knowledge of English is recommended and preferably certified (level B2). Motivation letter and letter of support from your university are mandatory. An additional 10 places are provided for postdoctoral researchers and young non-African faculty members at full cost.

The maximum number of participants admitted to the master's program is 35.

Selection Process:

- PHASE 1: PRE-SELECTION BY THE POLYTECHNIC OF MILAN The Department of Energy, having received the applications, will assess the eligibility of each candidate with respect to the above-mentioned requirements and will forward to Fondazione IHEA the list of candidates considered eligible.
- PHASE 2: SELECTION BY THE IHEA FOUNDATION Upon receipt of the list referred to in Phase 1 of Pre-selection, IHEA Foundation will identify, at its unchallengeable judgement, the eligible candidates.

Further details on the selection process are available at <https://www.masterafrica.polimi.it/>

## 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](http://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](http://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 course, after passing the final exam, the first level Specializing master's diploma "Sustainable Management of Resources, in English, jointly with Alma Mater Studiorum Università di Bologna, Università degli studi di Firenze, Università degli Studi di Napoli, Università degli studi di Padova and Sapienza Università di Roma.

#### **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**

Intermediate examinations are foreseen. The final assessment test consists of the drafting of a project work that will then be discussed in front of the Scientific Board.

## **ART. 7**

### **Tuition fees and contributions**

The costs of participation in the Master's program are fully covered by the **IHEA Foundation**, including the application fee to the Milan Polytechnic (€500.00 per student).

Full coverage of the Master's costs will be available for 25 applicants from Africa and referred by African higher education institutions. Individual applications from Africa will not be considered. The Master's program will also be open to 10 non-African post docs and junior faculty at full cost.

## **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](http://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:**

**Dott.ssa BARBARA VILLA**

VIA LAMBRUSCHINI 4

20156 MILANO (MI)

Email: [masterafrica-ihea-deng@polimi.it](mailto:masterafrica-ihea-deng@polimi.it)

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

The Rector  
(prof. Donatella Sciuto)  
*Signed Donatella Sciuto*