



Decree Index no. 1472 Ref. no. 26563
Date 18/02/2021
Title III Class V
UOR SEMFC

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 of Specialising Masters of Politecnico di Milano issued with Rector's Decree no. 2235 of 05.08.2013;
HAVING ACQUIRED the favourable opinion of the Academic Senate during the meeting on 15.02.2021, on the establishment and activation of Specialising Masters including the "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM" II level Specialising Masters

DECREES

The "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM" II level specialising Masters is established and activated for the year 2021/2022;

ART. 1 **Masters features**

The "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM" II level specialising Masters is established and activated at the Department of Architecture, Built Environment and Construction Engineering.

The Masters' Administrative Office is at the Consorzio CIS-E, and the Reference School is the School of Architecture Urban Planning and Construction Engineering.

The Coordinator of the Specialising Masters is Prof. Pietro Giuseppe Crespi.
The Commission of the Specialising Masters programme comprises the following Politecnico di Milano professors: Pietro Giuseppe Crespi, Gianandrea Ciaramella, Angelo Lucchini, Alberto Franchi, Paola Ronca and engineers Giovanni Franchi and Alessandro Zichi from the Consorzio CIS-E.

ART. 2 **Educational objective and employment opportunities**

The Masters' educational objective is to teach essential Project Management tools and techniques to engineers and architects. It is increasingly important to know how a project should be managed from its beginning until its completion to optimise costs and time. Students receive an introduction to Project Management, investment appraisal, and business accounting theory principles during the masters programme. Students will receive the required information to take the exam and obtain Project Management Institute (PMI) and International Project Management Association (IPMA) certifications. Students will receive all the information needed to become Lean Green Belt Project Leaders. Students will receive an introduction to the principles of forensic engineering and FIDIC contract management. All these PM tools will be further extended and made more valuable by using Building Information Modeling (BIM) software for architectural design, structural design, plant design, and facility management. The BIM philosophy and its software are fundamental tools: engineers and architects should become familiar with their use. They will allow an integrated team of architects, engineers and project managers to work together with less friction and misunderstanding to achieve a common goal of completing a project on time and within budget.

The job opportunities offered to those who have acquired the knowledge and tools provided through the Masters lectures are varied. They include construction companies, engineering companies, real estate developers, general contractors, public bodies etc. They need and are constantly looking for Project Managers who have in-depth knowledge of BIM tools and are specialising in construction industry digitisation.

The Programme will take place online.

ART. 3
Teaching content and organisation

The Specialising Masters will start in **November 2021** and close in **November 2022**.

The Masters consists of 522 hours of lectures divided between 382 hours of various Project Management disciplines and 140 hours of BIM management. There are no intermediate examinations (during lectures), but students will be asked to carry out a final exercise at the end of lectures. The students will devote 250 working hours to this exercise, which will be examined and assessed by the Masters' scientific committee. Students will be told the final exercise subject after the lecture. Afterwards, each student can carry out the final exercise independently.

TEACHING			
SSD	Teaching modules title	Total hours	ECTS
ING-IND/35	Fundamentals of Management Engineering	264	11
ING-IND/35	An Introduction to Value Averaging	32	1
ING-IND/35	IPMA® International Project Management Certification	64	2.5
ING-IND/35	PMI Project Management Certification (CAPM® and PMP®)	124	4.5
ING-IND/28	Lean Six Sigma Green Belt Project Leader	164	6.5
ICAR/12	Real estate valuation and valorisation	82	3
ING-IND/35	How to become a certified project manager	56	2
ING-IND/35	Leadership & soft skills + communication and public speaking	91	3.5
ICAR 13 / ICAR 14	Digitisation and its impact on project management	41	1.5
ICAR 12 / ICAR 09	Data analyst	64	2.5
ICAR 09 ICAR 11 ICAR 17	BIM and The Architectural Authoring	90	3.5
ICAR 09 ICAR 10 ICAR 11 ICAR 12	BIM and The Structural Authoring	90	3.5
ICAR 10 ICAR 11 ICAR 12 ICAR 17 ING IND 11	BIM and The MEP Authoring (Building Performance Analysis)	90	3.5
ICAR 11 ICAR 17	BIM for The Evaluation of Costs in Construction and Facility Management	90	3.5
	TOTAL teaching	1,342	52

OTHER ACTIVITIES			
	Thesis preparation, discussion and final exam	250	10
	TOTAL other activities	250	10
	TOTAL	1,592	62

ART. 4 Admission requirements

The Masters is open to applicants with a Specialising Masters/ Laurea Magistrale (equivalent to Master of Science) in Civil Engineering, Mechanical Engineering, Environmental and Land Planning Engineering, Building Engineering, Architectural Engineering, Construction Engineering, Management Engineering and related scientific disciplines. Equivalent qualifications from the university systems of foreign applicants are valid.

The Commission is responsible for the selection.

ART. 5 Formal requirements

The **admission application** must be submitted starting from the day following this Decree's date and **not later than 31st October 2021.**

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

- Self-certification of personal identity (surname and name, place and date of birth, nationality, and residence)
- Identity document copy
- copy of the Diploma Supplement or photocopy of the degree diploma and certificate with a list of exams taken for Old Educational System graduates
- Curriculum Vitae

*** Italian/EU citizens with qualification gained abroad**

- Self-certification of personal identity (surname and name, place and date of birth, nationality, and residence)
- Identity document copy
- Photocopy of the academic qualification obtained, and a certificate showing the marks given in the individual exams or Diploma Supplement (**during enrolment, the certificate of equivalence issued by the relevant area's Italian Representative abroad or certificate issued by the Enic/Naric Centres must be submitted**)
- Curriculum Vitae

The admission application must state the following "I authorise this University, under EU Regulation no. 2016/679 on data protection, to process personal data only for purposes related to the Masters' admission, enrolment and management, and agree to the disclosure of my personal information to third parties, particularly:

- public and private entities interested in possible recruitment;
- academic programme backers; Politecnico Treasurer for services related to tuition fees;
- entities managing unsecured loans, housing, flexible employment contracts, cultural, recreational and/or sports 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 on data subject rights is available on the website www.polimi.it/privacy

The application form can be found at <http://www.masterpesenti.polimi.it> or by contacting the secretariat of the F.lli Pesenti School - Tel. +39 02.2399.4341/4381 e-mail: franchi@cise-polimi.it

The documentation must be sent to:

Consorzio CISE Politecnico Di Milano
Piazza Leonardo Da Vinci, 32
20133 MILAN (MI)
Telephone: +39.02.2399.4341/4381
Email: franchi@cise-polimi.it

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 by the measure issued based on untrue declaration.

* **Non-EU citizens who graduated abroad**

Non-EU foreign citizens must submit the following 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 **or Diploma Supplement**
- **copy of a valid passport**
- Curriculum Vitae

At least 30 days before the enrolment closing date as set out in this article.

The Managing Authority shall send the documentation listed above for the evaluation of qualifications, to participate in the Politecnico di Milano's Specialising Masters, **Masters and Lifelong Learning Service by the closing date of this call for applications**, under the MIUR/MAE note "Procedures for entry, stay and enrolment of students applying for visas in higher education programmes in Italy for the 2020/21" academic year.

Following acceptance by the University, and only after confirming to the Managing Authority their participation on the Programme by the set methods, students must register on the Ministerial portal <https://www.universitaly.it> informing the Managing Authority that the registration has been completed in order for the application to be sent to the Representative responsible for issuing the entry visa.

ENROLMENT METHOD:

Students admitted to the Masters Programme must create access credentials to Politecnico di Milano's online services on the website www.polimi.it They must then enter their details and create a **person code**, attaching a valid identity document (passport for non-EU citizens), and communicate their person code to the Masters Managing Authority. Students already registered must update their personal details, if they are obsolete.

Portal access credentials must be retained as they will be required to access all of Politecnico di Milano's services. Lost access credentials may be autonomously restored or obtained by writing to master@polimi.it

Politecnico creates a temporary student identification number to allow the student to pay the enrolment fee via online services.

The achievement of an Italian degree can be self-certified by completing the appropriate form provided by the Managing Authority. A degree obtained abroad must be documented by presenting a **declaration of value (DOV)** issued by the Italian Representative abroad (Italian Embassy or Consulate) on letterhead complete with its original stamp; **or a certificate issued by the Enic/Naric Centres.**

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

ART. 6
Degree and award recognitions

ISSUED CERTIFICATION

After passing the final test, the “Project Management in Construction Works with BIM” II level specialising masters will be awarded at the end of the Programme.

Students admitted to the Masters' final examination will pay the fee via the online services of Politecnico di Milano in order to be able to take the exam.

STUDENT OBLIGATIONS

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

Cancellation from the Programme must be made in writing. The training period may not be suspended for any reason. The simultaneous enrolment on a specialising Master and on another Italian University academic programme is not allowed.

TESTING METHODS

The final examination will consist in the discussion the Masters thesis and will take place online.

ART. 7
Tuition fees and contributions

The cost of the Specialising Masters is € 3,500, thus divided:

- € 500 – Politecnico di Milano enrolment fee
- € 3,000 – Masters attendance fee

Enrolment and attendance fees can be paid on the following dates:

- First instalment € 2,000 by 10/11/2021
- Second instalment € 1,500 by 31/03/2022

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

Tuition and enrolment fees can be paid to the bank account number: IT89N0306909498100000001001 – Current account 100000001001 – CIN EUR 89 – CIN IT N
at Banca INTESA SANPAOLO - agency no. 1890 - viale Romagna 20 - 20133 Milan.

Indicating as the payment reason ID 2016 MU2 PM WITH BIM.

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 masters admission, enrolment and management, and in any case you agree to the disclosure of your personal information to third parties, particularly:

- public and private entities interested in possible recruitment;
- academic programme backers; Politecnico Treasurer for services related to tuition fees;
- entities managing unsecured loans, housing, flexible employment contracts, cultural, recreational and/or sports 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 the Politecnico di Milano's website at <https://www.polimi.it/corsi/master-universitari-e-corsi-post-laurea/>

FOR INFORMATION ON THE SPECIALISING MASTERS:

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Consorzio CIS-E

Piazza Leonardo Da Vinci, 32

20133 MILAN (MI)

Telephone: +39.02.2399.4341/4381

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

<http://www.masterpesenti.polimi.it/>

Milan, 18th February 2021

Rector
(Prof. Ferruccio Resta)
Signed Ferruccio Resta