

Rector



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 1st and 2nd level Specialising Masters, Post Graduate Courses and Continuing Education of Politecnico di Milano issued with Rector's Decree no. 0227162 of 04.10.2022;
 HAVING ACQUIRED the favourable opinion of the Academic Senate during the meeting on 20.02.2023, on the establishment and activation of proposals for Specialising Masters, including the "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM" second-level Specialising Master's.

DECREES

That the "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM second level Specialising Master's has been established and activated for the years 2023/2024.

ART. 1 Master's features

The "PROJECT MANAGEMENT IN CONSTRUCTION WORKS WITH BIM second-level Specialising Master's has been established and activated at the Architecture, Built Environment and Construction Engineering Department.

The Academic Programme is provided by Consorzio CISE-E - Politecnico di Milano. The reference school is the School of Architecture Urban Planning and Construction Engineering.

The Specialising Master's Director is Professor Pietro Giuseppe Crespi. The Vice Director is Professor Gianandrea Ciarabella.

The Scientific Committee of the Specialising Master's programme comprises Professors from Politecnico di Milano: Pietro Giuseppe Crespi, Gianandrea Ciarabella, Paola Ronca, Alberto Franchi and Angelo Lucchini; and Eng. Giovanni Franchi and Alessandro Zichi from Consorzio CIS-E – Politecnico di Milano.

ART. 2 Educational objective and employment opportunities

This specializing master course aims to give the main tools of project management to both engineers and architects. Nowadays it is getting more and more important to know how any project should be managed from its inception to its end, in order to optimize costs and to get forward according to a predefined schedule. During this specializing master the students will be introduced to the theory of project management, of investment valuation, and financial accounting. They will receive all the information needed to obtain the PMI (Project Management Institute) certifications the IPMA (International Project Management Association) certifications. They will receive all the information needed to become a Lean Green Belt Project Leader. They will be introduced to forensic engineering with specific regard to how the FIDIC contracts are to be written, read, and managed. All these PM tools will be enhanced with BIM (Building Information Modeling) software for architectural design, structural design, mechanical design, and facility management. The BIM philosophy and its software have proven to be very useful: both engineers and architect must get acquainted with them. They

will permit a team of architects, engineers and project managers to be more integrated and to work more seamlessly toward the shared goal of project completion in time and on budget.

The job opportunities opened by the skills acquired following the lessons of this specializing master are varied and plentiful: construction firms, engineering companies, real-estate developers, general contractors, government agencies, etc., all of them need and look for project managers who know how to use BIM tools and are specializing in the digitalization of the construction industry.

The Master programme is delivered online.

ART. 3

Teaching content and organisation

The Specialising Master's will start in **November 2023** and will end in **November 2024**.

This specializing master is made of 522 hours of lectures split between 382 hours of various project management subjects and 140 hours of BIM management. No intermediate tests are scheduled, while at the end of the course 250 working hours will be dedicated to the writing of a dissertation that will be reviewed and judged by the academic committee. The subject of the dissertation will be explained to the students at the end of the period of lectures. After that each student will be able to write her/his dissertation autonomously.

The master is a **62 ECTS** programme and teaching will be organised as follows:

| Didactic activities | MANDATORY Courses | | |
|---|-------------------|-------------------------|------|
| Courses | SSD | Total hours of activity | ECTS |
| Fundamentals of management engineering | ING-IND/35 | 264 | 11 |
| An Introduction to Value Averaging | ING-IND/35 | 32 | 1 |
| IPMA® International Project Management Certification | ING-IND/35 | 64 | 2,5 |
| PMI Project Management Certification (CAPM® and PMP®) | ING-IND/35 | 124 | 4,5 |
| Lean Six Sigma Green Belt Project Leader | ING-IND/28 | 164 | 6,5 |
| Real estate valuation and valorization | ICAR/12 | 82 | 3 |
| How to become a certified project manager | ING-IND/35 | 56 | 2 |
| Leadership & soft skills + communication and public speaking | ING-IND/35 | 75 | 3 |
| Digitization and its impact on project management | ICAR/13 | 57 | 2 |
| | ICAR/14 | | |
| Data analyst | ICAR/12 | 64 | 2,5 |
| | ICAR/09 | | |
| BIM and The Architectural Authoring | ICAR/09 | 90 | 3,5 |
| | ICAR/11 | | |
| BIM and The Structural Authoring | ICAR/10 | 90 | 3,5 |
| | ICAR/12 | | |
| BIM and The MEP Authoring (Building Performance Analysis) | ICAR/17 | 90 | 3,5 |
| | ING-IND/11 | | |
| BIM for The Evaluation of Costs in Construction and Facility Management | ICAR/11 | 90 | 3,5 |
| | ICAR/17 | | |
| Other activities | MANDATORY Courses | | |
| Course | SSD | Total hours of activity | ECTS |
| Thesis preparation, discussion and final exam | Not applicable | 250 | 10 |

ART. 4

Admission requirements

The admission is open to candidates with a Master of Science in Civil Engineering, Mechanical Engineering, Environmental Engineering, Building Systems Engineering, Building and Architecture Engineering, Building Engineering, Management Engineering and similar science degrees. For applicants holding a foreign degree, the equivalent qualifications in the respective university systems will be considered

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 to the managing authority starting from the day after the date of this Decree and by **6 November 2023**.

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 Master's 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;
- to academic programme backers; Politecnico Treasurer for services related to tuition fees;
- to 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

Admission documentation is available at the following website <https://www.masterpesenti.polimi.it/modulistica.php> or contacting the secretary at the following number and email +39 02.2399.4341, franchi@cise-polimi.it

The listed document below must be sent to:

Consorzio CISE/Scuola Master f.lli Pesenti

P.ZZA LEONARDO DA VINCI, 32

20133 MILANO (MI)

Telefono: +39 02 2399 4341/4381

email: franchi@cise-polimi.it

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

- copy of the identity document
- copy of the Diploma Supplement or photocopy of the degree diploma

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

- copy of the identity document
- copy of the academic qualification obtained both in original language and translated
- copy of the certificate (both in original language and translated) 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**)

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 the 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**

At least 30 days before the closing date of the registration period as indicated 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 2022/23" 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 Master's 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 Master's 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 through an OTRS ticket.

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 entrance document and residence permit on their online services personal data record.**

ART. 6

Degree and award recognitions

ISSUED CERTIFICATION

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

At the end of the Programme, upon completion of the course and after passing the final exam, the student will be awarded the "Project Management in construction works with BIM" second-level Specialising University Master's.

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.

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 € **3,500.00** divided as follows:

- Politecnico di Milano enrolment fee: € **500.00** per student.
- Participation fee: € **3,000.00** per student

Enrolment and participation fees can be paid by the following dates:

- First instalment: € **2,000.00** by 15/11/2023
- Second instalment: € **1,500.00** by 28/02/2024

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

Enrolment and participation fees can be paid to the current account with IBAN:

IT89N0306909498100000001001 – Current Account 100000001001 – CIN EUR 89 – CIN IT N – Account Holder Consorzio CIS-E Politecnico di Milano – at Banca INTESA – Viale Romagna 22 - 20133 Milan.

Specifying as the reason for the payment: **ID 2522 MU2 PM in construction work 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 master's admission, enrolment and management, and you agree to the disclosure of your personal information to third parties, particularly:

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

FOR CLARIFICATIONS AND FURTHER INFORMATION, PLEASE CONTACT:

Prof. Paola Ronca

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P.zza Leonardo Da Vinci, 32

20133 Milano (MI)

Phone: +39 02.2399 4341/4381

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

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

Rector
(Prof. Donatella Sciuto)
Signed Donatella Sciuto

Digitally signed document, under legislation.