



Decree Index no. 6145 Prot. no. 156576
Date 29/06/2022
Title III Class V
UOR SEMFC

HAVING REGARD TO the Statute of the Politecnico di Milano;
HAVING REGARD TO M.D. no.509 of 3.11.1999;
HAVING REGARD TO M.D. no. 270 of 22.10.2004;
HAVING REGARD TO the University's General Regulations;
HAVING REGARD TO the Politecnico di Milano Master regulations, issued with R.D. no. 2235 of 05.08.2013;
HAVING OBTAINED the favorable opinion of the Academic Senate at its meeting of 20.06.2022, regarding the establishment and activation of Specializing Master proposals, including the 1st level Specializing Master "INTERNATIONAL MASTER IN BUSINESS ANALYTICS AND BIG DATA";

HEREBY DECREES

The 1st level Specializing Master "INTERNATIONAL MASTER IN BUSINESS ANALYTICS AND BIG DATA" has been established and activated for the years 2023/2024.

ARTICLE 1 **Features of the Master course**

The 1st level Specializing Master "INTERNATIONAL MASTER IN BUSINESS ANALYTICS AND BIG DATA" has been established and activated at the Department of Management, Economics and Industrial Engineering.

The course is delivered by the POLIMI Graduate School of Management (MIP Politecnico di Milano Graduate School of Business) Società Consortile per Azioni. The School of reference is the School of Industrial and Information Engineering.

The Master Director is Professor Carlo Vercellis. The Deputy Director is Carlotta Orsenigo.

The Master Commission is made up of professors of the Politecnico di Milano:

- Prof. CARLO VERCELLIS - POLITECNICO DI MILANO
- Prof.ssa CARLOTTA ORSENIGO - POLITECNICO DI MILANO
- Prof.ssa LETIZIA TANCA - POLITECNICO DI MILANO
- Prof.ssa RAFFAELLA CAGLIANO - POLITECNICO DI MILANO
- Prof. PIERCESARE SECCHI - POLITECNICO DI MILANO
- Dott. FILIPPO PASSERINI - CONSULENTE ESTERNO
- Prof. MARCO BRAMBILLA - POLITECNICO DI MILANO
- Prof. DANILO ARDAGNA - POLITECNICO DI MILANO
- Prof.ssa CINZIA CAPIELLO - POLITECNICO DI MILANO

ARTICLE 2 **Training objective and employment opportunities**

This master provides the students with the ability to combine sophisticated analytical tools with business processes to improve decision making and exploit new opportunities, with the methodological and technical background required to select, apply or even design effective predictive methods for the business domain, with the ability to gain valuable insights from big data extraction, processing and interpretation, and with Interdisciplinary skills that enhance the communication and integration with different stakeholders within the organization.

The master is aimed at preparing professionals who will be able to work as Data Users (managers in the end user corporate community able to exploit insights from data to make better decisions), Data Producers (data analysts able to use the appropriate tools to convert analytical problems into analytical solutions) or Data Interpreters (professionals and business consultants able to understand both users and producers establishing a successful communication among them).

The Master will be delivered in English.

ARTICLE 3 Teaching content and organization

The Specializing Master will begin in **October 2023** and will end in **November 2024**.

The International Master in Business Analytics and Big Data, in collaboration with the Department of Mathematics and the Department of Design, is aimed at training data-savvy professionals able to manage complex business analytics problems across a variety of different industries and environments, using appropriate techniques and tools.

The teaching units are structured as follows:

SSD	teaching	Total hours of activity	ECTS
ING-IND/35	General Management (Digital transformation, Marketing & Omnichannel, Project Management, Innovation Strategy, Business Statistics)	250	10
ING-IND/35	Leadership and Managerial Skills	100	4
ING-IND/35	Creating a better future for all	25	1
ING-INF/05	Relational Databases	75	3
ING-INF/05	Data Warehousing	50	2
ING-INF/05	Cloud Technologies and Big Data Frameworks	100	4
ING-INF/05	Non Relational Databases	50	2
ING-INF/05, INF/01	Security	50	2
ING-INF/05, INF/01	Mobile Technologies	25	1
INF/01	Big Data and Business Analytics	25	1
SECS-S/01	Fundamentals of Statistics	75	3
ICAR/13	Data Visualization	50	2
INF/01	Machine Learning and Business Applications	200	8
ING-IND/35-17	Analytics for Finance	50	2
ING-INF/05	Image Analysis with Deep Learning	50	2
ING-INF/05	Web and Social Media Analytics	50	2
ING-IND/35-17 - ING-INF/03-07	IoT and Big Data	50	2
ING-INF/05	Smart Data and Smart Machine for the Web	50	2
ING-INF/05	Cloud and Cognitive Services	50	2
	<i>Professional Experience</i>	75	3
	PROJECT WORK	125	5
	Total	1.575	63

ARTICLE 4 Admission requirements

The Master is open to candidates who have a Bachelor or a Master of Science, and work experience less than 3 years. This Master program is designed for graduated candidates, with an excellent knowledge of the English language (TOEFL, TOEIC, IELTS or equivalent for non-native speakers).

For the candidates who have graduated abroad, equivalent study titles in the respective educational institutions will be considered.

The selection will be made by the Commission.

ARTICLE 5 Prerequisites

The **admission application** must be presented in one day from the day after the date of this Decree and **within:**

- **May 31, 2023** - for candidates with non-EU citizenship
- **June 30, 2023** - for candidates with EU citizenship

* **Italian/foreign citizens with educational qualifications obtained in Italy**

- Self-certification concerning personal identity (surname and name, date and place of birth, nationality and residence)
- copy of the identity document
- copy of the Diploma Supplement or photocopy of the laurea qualification and certificate with the list of exams taken for graduate students of the Old Educational System

* **Italian/U.E. citizens with a qualification obtained abroad**

- Self-certification concerning personal identity (surname and name, date and place of birth, nationality and residence)
- copy of the identity document
- Photocopy of the academic qualification obtained, with a certificate showing the scores obtained in each exam or Diploma Supplement (**upon enrolment**, the on-site Value Declaration issued by the Italian Representation abroad competent for the territory or certification issued by the Enic/Naric Centres)

The admission application must show the declaration. "I authorize this University, pursuant to EU Regulation n. 2016/679 regarding the protection of personal data, the personal data processing for the sole purposes related to the admission, enrolment and management of the master, and in any case, I allow to disclose personal information to third parties and in particular:

- to public and private Bodies for possible recruitments;
- to training programme providers; to the Bank Treasurer of Politecnico for services connected to taxes;
- to bodies managing honor loans, accommodation, flexible employment contracts, cultural, recreational and/or sport activities.
- It also authorizes the use of data for statistical purposes in compliance with the procedures and authorizations required by the aforementioned legislation.

The whole information on data processing and rights of the interested party is available on the web site www.polimi.it/privacy

The documentation is available electronically at: <https://www.applyformasters.net/>

The documents must be sent to:

POLIMI Graduate School of Management

Via Lambruschini, 4C - Building 26/A

20156 MILANO (MI)

Phone: +39 0223992820

Fax: +39 0223992844

email: infomasters@gsom.polimi.it

Pursuant to Article 75 of Presidential Decree 445/2000, if the Administration finds, on the basis of appropriate checks, an untruthful content on declarations provided by the candidate, the declarant does not have the benefits eventually obtained by the provision issued on the basis of the untruthful declaration.

*** Non-U.E. citizens with a qualification obtained abroad**

Non-EU foreign citizens must submit to the Institution:

- **copy of qualification** in original language and the related translation into Italian/English/French or Spanish
- **copy of transcripts** with the list of exams in original language and the related translation into Italian/English/French or Spanish or **Diploma Supplement**
- **copy of valid passport**

At least 30 days before the closing date for registration, as indicated in this article.

The Institution sends all the documents listed above for the evaluation of the qualifications, for the purposes of participation in the Specializing Master, to Politecnico di Milano, **Corporate & Continuing Education Unit, within the deadline of this call**, according to the provisions of the MIUR/MAE note "Procedures for access, stay and registration of visa applicant students for higher education programmes in Italy for the academic year 2021/22".

The Corporate & Continuing Education Unit communicates the acceptance of the student and the outcome of the access tests, where required, to the competent Representations, for completion of the documentation related to the qualification, required for the issue of the Entry Visa.

After confirmation of acceptance by the University, the candidates submit their qualification to the Diplomatic Representation, for the required consular acts.

ENROLMENT METHOD:

Students admitted to the Master's programme must create access credentials to Politecnico di Milano's online services using the following website www.polimi.it They must then enter their data and create a person code, attaching a valid identity document (passport for non-EU citizens), and communicate their person code to the Master's programme Manager. Registered students will have to update their personal data, if it is obsolete.

Keep portal access credentials for later access to Politecnico di Milano services. Lost access credentials can be autonomously restored or with ticket OTRS.

Politecnico creates a temporary student identification number to allow the student to pay the enrolment stamp online.

An Italian degree is 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 Representations 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.**

ARTICLE 6

Certifications and awards

CERTIFICATION ISSUED

After completing the course and on passing the final exam, the 1st level Specializing Master diploma in “International Master in Business Analytics and Big Data” will be issued, in English.

Students admitted to the final exam of the Master will pay the stamp through the online services of Politecnico di Milano, in order to take the exam.

OBLIGATIONS OF STUDENTS

Attendance to the activities of the Master is compulsory for at least 75% of the programme activities.

The renunciation to study must be submitted in writing. The training period cannot be suspended for any reason. It is not possible to enrol, at the same time, in a Specializing Master and in another study programme activated by an Italian University.

ASSESSMENT PROCEDURE

The final exam will consist in submitting and defending a report prepared during the Master course.

ARTICLE 7

Tuition fees and contributions

The total cost of the course is equal to € **18,500.00**. The cost is split into:

- Contribution for enrolment in the Politecnico di Milano - € **500.00** for student
- Master tuition fees - € **18,000.00** for student

Share reduced to € **9,500.00** (including € 500.00 of registration fee to Politecnico di Milano) for **Master’s graduates of POLITECNICO DI MILANO** who achieved the degree not before 3 years from the time of registration to the Master’s.

The contribution for enrolment in the Politecnico di Milano will not be returned under any circumstances.

Scholarships are available to partially cover the participation fee, as well as subsidized interest rate loans and loans of honor offered by affiliated credit institutions.

Payments may be made by bank transfer to BANCA POPOLARE DI SONDRIO - AGENZIA N.21 - VIA E. BONARDI N. 4 c/o POLITECNICO DI MILANO - CIN L - ABI 05696 - CAB 01620 - C/C 000010025X55 - account (C/C) made out to MIP Politecnico di Milano - Graduate School of Business- International bank codes: IBAN IT02 L056 9601 6200 0001 0025 X55

Specify: **ID 2425 MUI Analytics and Big Data** as the reason for the bank transfer.

ARTICLE 8

Data Treatment

The University, pursuant to EU Regulation n. 2016/679 regarding the protection of personal data, uses the personal data processing for the sole purposes related to the admission, enrolment and management of the master, and in any case, I allow to disclose personal information to third parties and in particular:

- to public and private Bodies for possible recruitments;
- to training programme providers; to the Bank Treasurer of Politecnico for services connected to taxes;
- to bodies managing honor loans, accommodation, flexible employment contracts, cultural, recreational and/or sport activities.
- It also authorizes the use of data for statistical purposes in compliance with the procedures and authorizations required by the aforementioned legislation.

The whole information on data processing and rights of the interested party is available on the web site www.polimi.it/privacy

ARTICLE 9
Advertisement

This Decree is published on the Politecnico di Milano website at the page <https://www.polimi.it/corsi/master-universitari-e-corsi-post-laurea/>

FOR CLARIFICATIONS AND FURTHER INFORMATION, PLEASE CONTACT:

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20156 Milano (MI)

Phone: +39 02 23992820

Fax: +39 02 23992844

infomasters@gsom.polimi.it

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

The Rector
(Prof. Ferruccio Resta)
Signed Ferruccio Resta