Politecnico di Torino

ACADEMIC REGULATIONS

Bachelor's degree programme

in

ENGINEERING AND MANAGEMENT

Department of Management and Production Engineering

Collegio di Ingegneria Gestionale e della Produzione

Academic Year **2025/2026**

The English translation of this document is provided as a support to the student community and has no legal effects. The Italian version shall constitute the sole authentic text and will be referred to for any legal matter.

SUMMARY

Art. 1 - Specific learning objectives and career prospects

1.1 Specific Learning Objectives

The interdepartmental Bachelor's degree programme in Management Engineering aims to train a dual-profile engineer, focused both on the technologies for managing and organising complex systems and on the management and operation of production and logistics systems.

1.2 Career prospects

The Bachelor's degree programme aims to train a variety of professional profiles. The career prospects and main functions and competencies associated to each profile are illustrated below.

Professional Profile	Main functions and competencies
Process Analyst	Functions: This professional combines the ability to analyse key organisational processes with the aptitude to identify potential technological improvements (new or optimised IT procedures, introduction of new technologies, etc.) and to evaluate their technical-economic feasibility and organisational impact. In complex and/or medium-to-large organisations, this role supports professionals with greater experience in the position. Competencies: The main competencies associated with this role include the application of: • organisational models and techniques; • decision support models and evaluation and optimisation methods; • production management and control models; • methodologies related to software, computing system architectures, and computer networks; • telecommunication network management methodologies; • techniques for analysing, managing, and maintaining databases. Potential employers: • Manufacturing or service companies • Public and private organisations
System Auditor (or Assistant Auditor)	Functions: This professional operates in a company or public entity to critically evaluate the functionality and cost-effectiveness of information systems, with particular attention to business processes, security issues, performance quality, and compliance with established standards. Their training enables them to analyse, evaluate, and propose IT solutions that ensure a proper balance between expected benefits, costs, and risks. For audits conducted on complex information systems used by medium-to-large organisations, this role assists professionals responsible for the overall audit process. Competencies: The main competencies associated with this role include the application of: • industrial accounting and cost analysis techniques; • business economics techniques; • decision support and multi-criteria evaluation models and methods; • methodologies related to software, computing system architectures, and computer networks; • telecommunication network management methodologies.

	Potential employers: • IT consulting companies • Manufacturing or service companies
Logistics Manager (or Assistant Manager)	Functions: This professional plans, manages, and controls activities related to procurement processes, inventory management, and the distribution of finished products. In addition, they design and evaluate the costs and benefits of innovations in procurement and distribution logistics and warehouse management. They are able to identify information systems and IT technologies to support these activities. Typically, they work alongside professionals with similar specialisation and at least three years of experience in the role. Competencies: The main competencies associated with this role include the application of: • methodologies for managing flows and stock; • business economics techniques; • technological and plant methodologies; • production management and control methodologies; • optimisation models and methods. Potential employers: • Manufacturing, logistics, and service companies • Consulting firms specialising in logistics and organisational management
Process Engineer	Functions: This professional typically works within manufacturing companies (usually medium-to-large) and is responsible for analysing production processes and designing intervention plans aimed at improving production organisation. They optimise factors and processes contributing to production from a "lean production" perspective, introducing production and organisational methodologies to achieve efficiency and productivity improvements. Typically, they work alongside professionals with similar specialisation and greater experience in the role. Competencies: The main competencies associated with this role include the application of: • production management and control methodologies; • production planning and design techniques; • technological and plant methodologies; • industrial accounting and cost analysis techniques; • business economics techniques; • applied statistics methodologies for production process control; • optimisation models and methods. Potential employers: • Manufacturing companies
Preparation for further studies	**Knowledge required for continuing studies**
Master's Degree in Management Engineering	The knowledge acquired by graduates in Management Engineering provides the most suitable prerequisites for admission to and successful completion of the Master's degree in Management Engineering. During the two-year Master's programme, their background in Information Technology and their understanding of production and logistics processes—always integrated with innovation management—will be further enhanced. At the same time, economic, financial, and legal issues relevant to businesses will be examined in greater depth. In particular, the latter will be studied within the broader context of the economic system and imperfect markets.

1.3 Professional profiles (ISTAT codes)

With reference to the list of professional profiles classified by ISTAT (Italian National Institute of Statistics, https://www.istat.it/en/), a graduate from this Bachelor's degree programme can work as:

ISTAT code	Description
3.1.5.3.0	Tecnici della produzione manifatturiera
3.3.1.5.0	Tecnici dell'organizzazione e della gestione dei fattori produttivi
3.3.2.1.0	Tecnici della gestione finanziaria
3.3.3.1.0	Approvvigionatori e responsabili acquisti
3.3.3.2.0	Responsabili di magazzino e della distribuzione interna
3.3.3.4.0	Tecnici della vendita e della distribuzione
3.3.3.5.0	Tecnici del marketing

Art. 2 - Admission requirements

To be admitted to this Bachelor's degree programme, applicants must hold a high school diploma (as required by current regulations) or an equivalent qualification obtained abroad, recognized as valid. Additionally, they must have or attain an appropriate level of initial background knowledge.

The number of admissible students is determined annually by the Governing Bodies of Politecnico based on locally programmed admissions, considering the available facilities and the student-to-faculty ratio.

The number of available places and admission procedures are specified in the official Call for applications for admissions published at https://www.polito.it/en/education/applying-studying-graduating/admissions-and-enrolment/bachelor-s-degree-programmes/calls-for-application-regulations-and-ranking-lists .

In particular, for enrolment in this Bachelor's degree programme, applicants must take an admission test (TIL-I), administered in different sessions according to a specific calendar published on the recruitment web pages.

The test is conducted using the technical equipment available in the computer laboratories of the University.

The minimum score required to be included in the ranking list is set at 30% of the total score. Applicants may take the TIL-I test up to a maximum of three times. In the event of multiple attempts, the highest score obtained by the applicant will be considered valid. The test consists of answering 42 questions in 1 hour and 30 minutes. These questions are divided into four sections covering four different subject areas: Mathematics, Reading Comprehension and Logical Reasoning, Physics, and Basic Technical Knowledge.

Applicants who score below 30% in the Mathematics section will have to fulfil some supplementary academic obligations (in Italian, Obblighi Formativi Aggiuntivi - OFA).

They will be invited to attend tutoring math classes during Year 1 and they must attend a supplementary course. This course, called C.I.A.O. - Corso Interattivo di Accompagnamento Online (Interactive Online Support Course), is normally offered in the week before the beginning of classes. It seeks to help applicants fill in the gaps in their Math knowledge through specific online tutoring sessions.

The OFA requirements will be considered fulfilled if, by the end of Year 1, at least one of the following conditions is met:

- students pass one of the two Mathematics exams of Year 1 (Mathematical Analysis I or Linear Algebra and Geometry);
- students pass the final test of the CIAO course by correctly answering at least 10 out of 15 questions. This test will be offered three times during the academic year.

Any exemptions from taking the admission test are specified in the Call for applications for admissions to the Bachelor's degree programmes of Politecnico di Torino.

Students with a non-Italian educational qualification who intend to enrol in the programme, which is delivered entirely in Italian, must hold, at the time of enrolment, a certificate of Italian language proficiency at level B2, as defined by the Common European Framework of Reference for Languages (CEFR).

For more information regarding the Call for applications, the number of admissions, the admission test registration and enrolment procedures, please visit https://www.polito.it/en/education/applying-studying-graduating/admissions-and-enrolment/bachelor-s-degree-programmes/calls-for-application-regulations-and-ranking-lists .

Art. 3 - Programme curriculum

3.1 Programme overview

The study programme is based on core engineering courses complemented by specific courses in the two specialised areas.

As a result, in addition to the fundamental subjects common to all engineering degrees, during the Bachelor's programme future Management Engineers develop multidisciplinary skills to address the main issues in planning and controlling the production of goods and services, as well as the related organisational implications. In addition, when defining their study plan, Management Engineering students can choose to combine their training with preparation in one of the following two domains:

- the management of ICT (Information and Communication Technology), and information systems in particular, to support key business activities (administration and accounting, sales, production planning and control, and logistics flow management);
- the management of logistics flows, the design of industrial plants, and the main production technologies.

The Bachelor's programme also prepares students for the Master's degree in Management Engineering, which has in recent years been the main pathway for first-level Management Engineers who have chosen to complete their university studies.

3.2 Organization of educational activities

The list of courses (compulsory and optional), curricula, possible organization of courses into modules, any pre-requisites and exclusions and the list of the faculty members responsible for the courses are available at:

- https://didattica.polito.it/pls/portal30/sviluppo.offerta_formativa_2019.vis?p_coorte=2026&p_sdu=38&p_cds=556 (Class L-8 R)
- https://didattica.polito.it/pls/portal30/sviluppo.offerta_formativa_2019.vis?p_coorte=2026&p_sdu=38&p_cds=557&p_ori=17266 (Class L-9 R)

The list of the Scientific Disciplinary Fields (Settori Scientifico Disciplinari) for each activity (specific subjects and complementary subjects) is available at: https://didattica.polito.it/pls/portal30/sviluppo.vis_aiq_2023.visualizza?sducds=38557&tab=0&p_a_acc=2026

Art. 4 - Student career

The Student Guide is published on the Teaching Portal every year before the beginning of the academic year. There is a specific Student Guide for each Bachelor's degree programme. The Student Guide is available on the web site of the degree programme.

It contains information and deadlines on:

- academic calendar;
- supplementary academic obligations (Obblighi Formativi Aggiuntivi - OFA);
- Personal Study Plan and Annual Personal Study Plan;
- free choice credits;
- internships;
- tuition fees;
- dual career;
- classes and exams;
- class delivery;
- foreign language learning;
- studying abroad/mobility programmes;
- exam rules;
- transfers in/out and internal transfers;
- interruption, suspension, withdrawal, forfeiture;
- credit transfer.

Art. 5 – Final Examination

The final examination is an individual educational experience that completes the programme and does not require particular originality. It involves carrying out an independent individual project consisting of a written report (Final Project) in which the student demonstrates the analysis of a specific problem addressed during the internship or related to the courses attended, as well as the study of the available documentation and the performance of simple evaluations.

The Final Project may be written in English. The workload for preparing the Final Project is approximately 75 hours, corresponding to 3 ECTS credits.

The Final Project is prepared under the supervision of a university instructor and is submitted and approved through online procedures.

Students must submit their request online through the dedicated procedure available in their personal page on the Teaching Portal, in the section "Degree and Final Examination", complying with the deadlines for the relevant session published in the Student Guide – Thematic Calendar section.

The final grade is determined by the Graduation Examining Committee, which evaluates the overall average grade of the exams on a scale of 110 after having subtracted the 16 worst credits. This number is proportionally reduced if some of the exams have been validated without a grade (pass-or-fail exams) or in the event of credit transfer, since only the exams taken at Politecnico are taken into consideration for this calculation. To this average, the committee may normally add up to 5 additional points, based on:

- the evaluation of the Final Project;
- the number of years it took the student to complete his/her studies;
- the evaluation of the educational path partially or totally in English;
- other information about the student's course of study (for instance, the number of exams passed with honours, experience abroad, extracurricular activities etc.).

Students enrolled at Politecnico for the first time starting from a.y. 2022/2023 (and following aa.yy.) who pass their first-year courses and the core courses offered in Year 2 (Mathematical Analysis 2 and Physics 2) by the end of the examination session which immediately follows the semester of first course attendance will get a bonus (0.5 points for each exam) that will be added to the final grade, up to a maximum of 4 points.

Honours (cum laude) may be awarded upon achieving a score of 110, at the discretion of the committee and with a qualified majority, i.e., at least 2/3 of the committee members.

More Information and Deadlines:

- Student Regulations
- Student Guide

Diploma Supplement:
In compliance with article 11, paragraph 8, of Ministerial Decrees No. 509/1999 and 270/2004. Politecnico di Torino issues the Diploma Supplement, a document that can be attached to a higher education qualification. It is designed to improve the transparency of international qualifications, as it provides the description of the curriculum successfully completed by the student. This certificate follows the European model developed by the European Commission, the Council of Europe and UNESCO – CEPES: it is issued in two languages (Italian-English) and it is composed of approximately 10 pages.

More information at: https://www.polito.it/en/education/applying-studying-graduating/academic-experience/certificates-and-other-documents

Art. 6 - References

6.1 Student Regulations

The Student Regulations define the rights and responsibilities of students and set out the administrative and disciplinary rules that all students enrolled in a degree programme or in a single learning activity at Politecnico must abide by.

6.2 Other Regulations

Particular aspects of students' academic progress are governed by specific Regulations or Calls for Applications published on its website.
In particular:

- The Tuition Fee Regulations specify the annual tuition fees that students must pay. The procedure for requesting a tuition fee reduction is explained in a dedicated guide.
- The University Regulations on Funds for Student Mobility Abroad outline the principles and rules for awarding and disbursing mobility grants. Standard procedures apply to all types of mobility programmes with unified Calls for Applications published twice a year at https://www.polito.it/en/education/applying-studying-graduating/studying-abroad
- The Code of Ethical Conduct also applies to students.