

Course structure

120 ECTS 2 years

Mandatory teachings are offered in the fields of Operations and Supply Chain, Marketing, Logistics, Industrial plants/Digital warehousing.

The course includes two curricula, one in Italian and one in English, each one addressing different themes.

CURRICULUM IN ITALIAN

Operational excellence: providing knowledge related to operations optimization and operative efficiency to increase competitiveness.

Strategy and control: providing knowledge related to business strategy definition and performance control to support decisions.

Innovation and sustainability: providing knowledge related to the management of innovation processes and responsible practices for a sustainable future.

CURRICULUM IN ENGLISH

Smart operations: providing knowledge related to the design and management of intelligent systems in an increasingly digitalized world.

Analytics for business: providing knowledge related to advanced analytical techniques to transform data into competitive advantage.

Technology management: providing knowledge related to the management of disruptive innovations in rapidly evolving markets.



UNIVERSITY OF PADUA

The University of Padua, founded in 1222, is one of Europe's oldest and most prestigious seats of learning; it is a multidisciplinary university that aims to provide its students with both professional training and a solid cultural background.



About DTG

The Department of Management and Engineering was established in 1998. Its activities cover engineering, technological, and economic competencies required for the development of new products, materials, and production processes, with a focus on technical management and economic profitability. The Department actively participates in the teaching programs of the School of Engineering, including the master's degree programs in management engineering, mechanical innovation for product engineering, mechatronics, and food industry engineering.



Department of Management and Engineering
Vicenza (Italy)

Master's Degree in MANAGEMENT ENGINEERING Second Cycle Degree



COURSE DESCRIPTION

The Master's Degree in Management Engineering of the University of Padua aims to train highly qualified professionals specialized in the design, management, and innovation of highly complex production and service systems. The skills acquired, which are of technical/engineering, organizational, managerial, economic, and analytical nature, enable the Management Engineer to understand the various components of advanced and interrelated systems. They also enable the Management Engineer to effectively govern the analysis, design, implementation, and management of innovative solutions. Examples include feasibility studies for the introduction of new processes, products, or services; identification of opportunities for business performance improvement; application of lean management techniques; definition of business plans and strategic make-or-buy decisions; supply and capacity management decisions; logistics set-ups; design of waste reduction and energy management initiatives/systems; design and management of digital transformation processes.

COMPETENCIES

The Master's Degree graduate is characterized by the ability to adopt a multidisciplinary approach, as a result of comprehensive cross-disciplinary training in the areas of engineering, economy and management, quantitative methodologies and analytics, and sustainability.

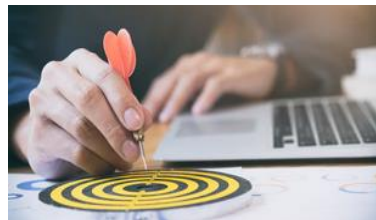
At the same time, the offering of exams covering a variety of themes that can be deepened based on the students' preferences allows them to develop distinctive competencies that respond to the increasingly demanding and sophisticated requirements of the job market.

These competencies will be matured through not only traditional classroom lectures, but also other training activities as multiple seminar activities, tutorials and laboratory exercises, company visits, discussions and case study presentations, project work, and business games and simulations, thus developing both hard and soft skills.

PROFESSIONAL OPPORTUNITIES

The Management Engineer is highly sought after by companies because of her/his ability to adapt to a wide variety of environments, both in industrial and service sectors, as well as in large and small-sized enterprises. The Management Engineer can be employed in:

- Manufacturing companies,
- Consulting firms,
- Public administration and services (engineering, banking, insurance, energy, transportation, facilities, etc.).



Management Engineers can work in all major business functions: General Management, Production Planning and Control, Sales and Marketing, Research & Development, Engineering and Quality, Purchasing/Procurement, Management Control and Financial Analysis, Information Technology and Systems, Logistics, Human Resources.

ACCESS REQUIREMENTS

- A minimum three-year undergraduate degree (or equivalent) in Management Engineering, Industrial Engineering, or related subjects with proven skills in Engineering.
- Country-based specific entry title and GPA are required.
- English: B2 Level (CEFR) or equivalent certificate.

PLACES AVAILABLE

There is no numerical limit for both EU citizens and non-EU citizens.

APPLICATION

For Italian Qualification:

<https://www.unipd.it/corsi/iscriviti>

For Foreign Qualification:

<https://www.unipd.it/en/how-apply>

MANAGEMENT ENGINEERING
Bridge Management
and Engineering for
a Smarter Future!