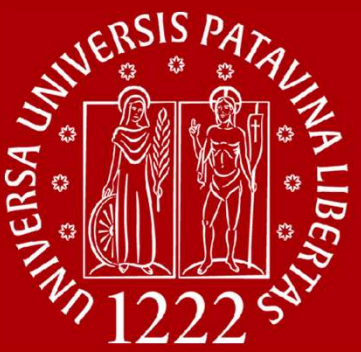


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dei Sistemi Industriali - DTG

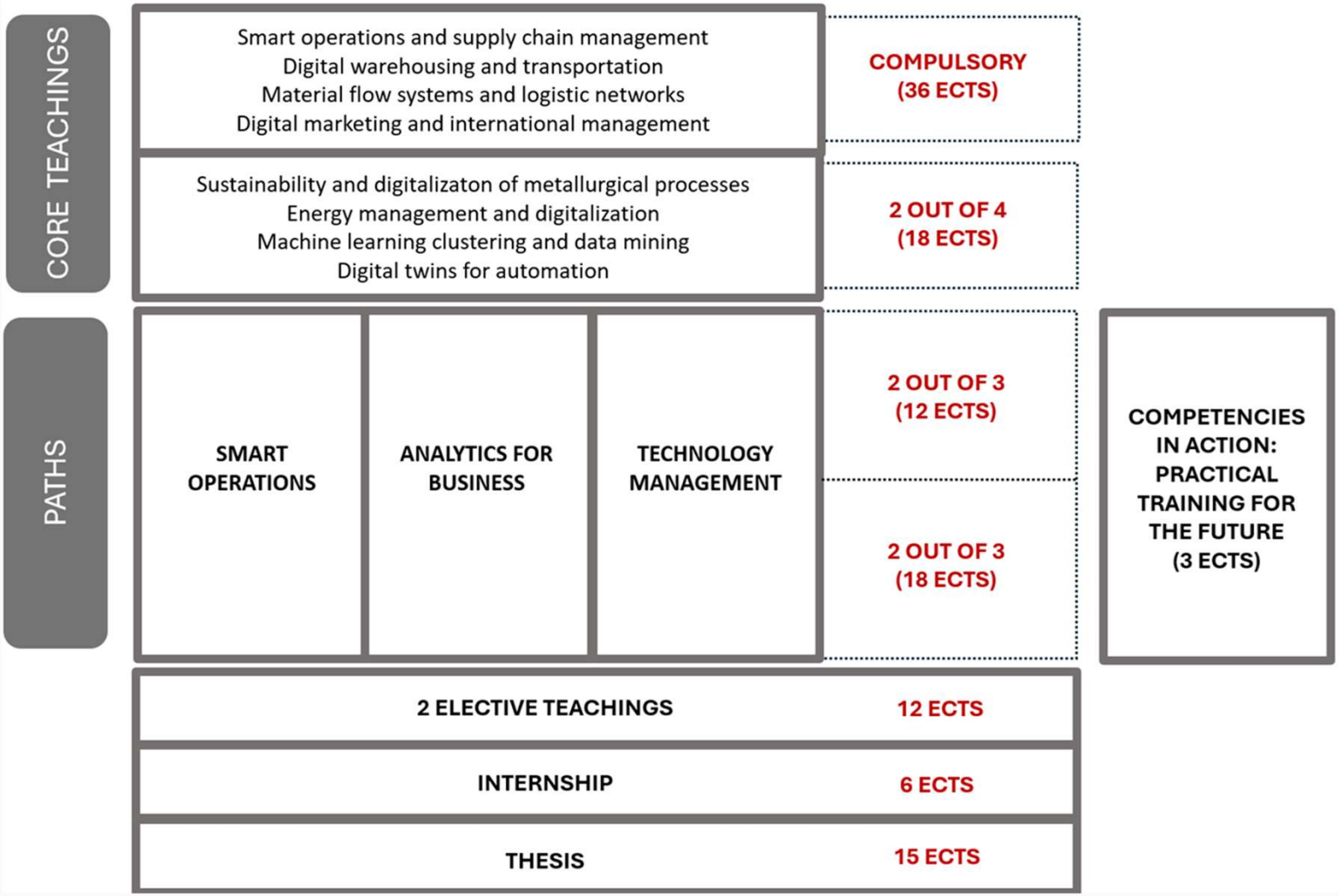


UNIVERSITÀ DI PADOVA
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Welcome Day – A.Y. 2026/27

Master's Degree in Management Engineering

Programme structure: curriculum in English



Programme structure

Smart operations

2 TEACHINGS OUT OF 3 OF 6 ECTS

- New product and project management
- Digital operations
- Service operations management

2 TEACHINGS OUT OF 3 OF 9 ECTS

- Digital customization
- Strategy and digital transformation
- Digital manufacturing

Analytics for business

2 TEACHINGS OUT OF 3 OF 6 ECTS

- Business analytics for decision making
- Digital operations
- Data driven quality management

2 TEACHINGS OUT OF 3 OF 9 ECTS

- Organizational change and performance measurement
- Strategy and digital transformation
- Digital manufacturing

Technology management

2 TEACHINGS OUT OF 3 OF 6 ECTS

- Technology and innovation management
- Maintenance management
- Quality and metrology in manufacturing

2 TEACHINGS OUT OF 3 OF 9 ECTS

- Digital customization
- Organizational change and performance measurement
- Digital manufacturing

Programme structure

ELECTIVE COURSES - 6 CFU

2 elective courses among:

- Circular economy
- Urban mining and circular economy
- Game Theory
- Industrial and collaborative robotics
- Innovation in metallurgical production
- Additive manufacturing
- Ottimizzazione della fabbricazione manifatturiera (IT)

Students can also choose any other teaching of 6 ECTS belonging to any specialized path (of both curricula) as a free choice course.
Information on the **credits** of the single courses as well as their ***syllabi*** are available at:
https://unipd.coursecatalogue.cineca.it/corsi/2026/12381.

Competences in action: practical training for the future (3 ECTS)

Training based on real-world experience, through which you will learn to deal with some of the problems you are likely to encounter in the workplace.



Sostenibilità in azione: innovazione e modelli per un business responsabile (IT), 1st semester



Laboratorio di comunicazione e soft skills (IT), 1st semester

REQUEST APPROVED **ERP and digital transformation** (EN), 2nd semester

REQUEST APPROVED **Scenari internazionali: rischi finanziari ed effetti sull'impresa** (IT), 2nd semester

Competences in action (3 ECTS)

COMPETENCES IN ACTION (3 ECTS)

2 ELECTIVE COURSES (6 ECTS) AMONG:

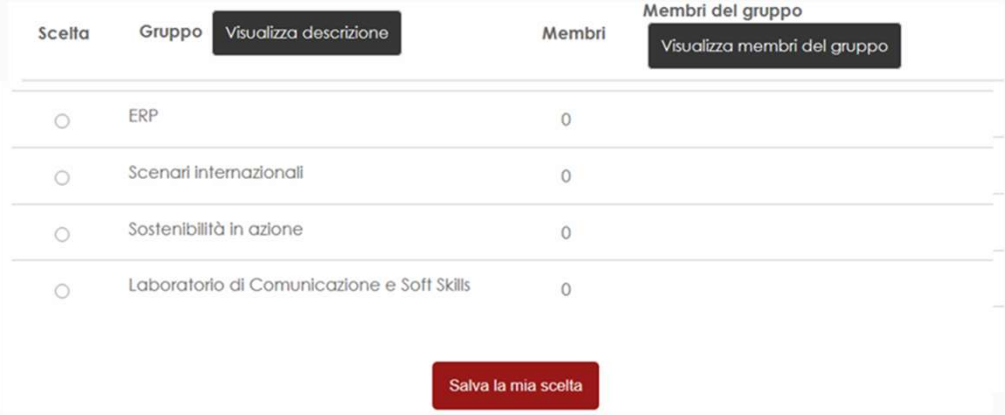
- **Digital operations**
- **Maintenance management**
- **New product and project management OR Technology and innovation management**
- **Service operations management**
- **Quality and metrology in manufacturing**
- **Business analytics for decision making**

➢ Each of these 3 ECTS courses + one free choice course (6 ECTS) can be included in the study plan **only as a replacement for a 9 ECTS course of each path** (e.g., Sostenibilità in azione + Quality and metrology in manufacturing can be included instead of Digital Customization in the Smart operations path, but not instead of Energy Management and Digitalization)

➢ You can enrol in **only one** of these activities

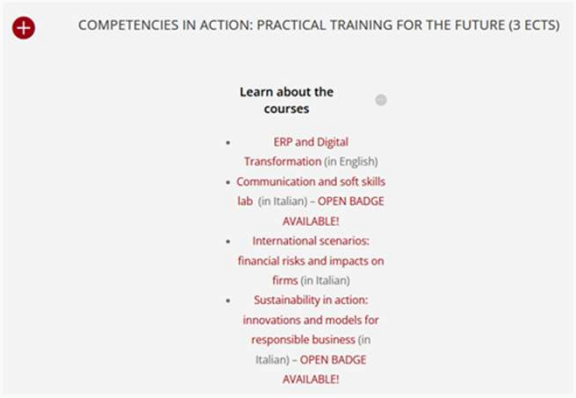
Competences in action (3 ECTS)

- To attend the selected 3 ECTS course **you must enrol**
- On the website of the MSc Programme (https://stem.elearning.unipd.it/course/section.php?id=110121),
- select the folder “Competence in action”, then choose **only one option**



You can enrol for the A.Y. 26/27 **only** in this **two periods**:

- **21/09-16/10** (“Laboratorio di comunicazione e soft skills” starts on October 5th, 2026)
- **08/02-05/03**



Here you can find the details about the 3 ECTS courses objectives, content and requirements: https://orientamentodtg.gest.unipd.it/en/master-degree-management-engineering/

Active and participatory learning

Beyond the traditional "lecture-based" classroom teaching:

- The use of active and innovative teaching methodologies to foster students' "construction of knowledge", through *hands-on activities, experience, observation and simulation, classroom discussion and debate, as well as group work*:

  - Use of "e-learning" technologies (instant quizzes, shared whiteboards, audio and video presentations, artificial intelligence, etc.)
  - Seminar activities and classroom exercises
  - Physical and virtual laboratories
  - Company visits
  - Discussions and presentations of case studies, project work, and simulations

- Faculty are continuously updated through specific UNIPD courses on innovative teaching methodologies and technologies, aligned with international best practices (Digital Learning and TeachingForLearning projects)

Filling in the study plan

To get the degree (and take exams), students must fill in the study plan:

- **Compulsory courses** are selected automatically
- All the other courses must be selected according to the **previously illustrated paths**
- Study plan can be compiled via Uniweb from around **November to the end of September**

SEE ANNEX 3
https://unipd.coursecatalogue.cineca.it/corsi-code/2026/IN3084?annoOrdinamento=2026&sede=2&linguaCC=it

Two different types of study plans:

- **ME (path) AUT**
- **ME (path) AUT2 (if you select 3 ECTS Competence in action)**

Study plan proposal (PRO) has to be chosen **only** if you select Elective Courses not offered by Management Engineering Master's Programme.

VERY IMPORTANT:
"ME AUT – AUTOMATIC PLAN"
IS RECOMMENDED!

Study plan Curriculum EN

CURRICULUM EN

ME SO-AUT: Path «SMART OPERATIONS" AUT. Automatic plan

ME SO-AUT2: Path «SMART OPERATIONS" AUT2. Automatic plan to be chosen if you select «Competence in action".

ME AB-AUT: Path «ANALYTICS FOR BUSINESS" AUT. Automatic plan

ME AB-AUT2: Path «ANALYTICS FOR BUSINESS" AUT2. Automatic plan to be chosen if you select «Competence in action".

ME TM-AUT: Path «TECHNOLOGY MANAGEMENT'" AUT. Automatic plan.

ME TM-AUT2: Path «TECHNOLOGY MANAGEMENT'" AUT2. Automatic plan to be chosen if you select «Competence in action".

RECOMENDED!!!

Study plan proposal (PRO) has to be chosen **only** if you select Elective Courses not offered by Management Engineering Master's Programme

Erasmus and other opportunities abroad

- You can spend a period studying abroad
- On the website of the Master's Programme (Enrolled Students Section) you can find all information. Here are the different options:

Erasmus+ Studio
Erasmus+ per tirocinio
Programme Ulisse
Programme T.I.M.E.
Swiss European Mobility Program
Coimbra Group - Student Exchange Network (IT)

The International Desk will organize a **dedicated meeting in November**.

Internship

WHERE TO CARRY OUT THE INTERNSHIP?

The internship is **compulsory** and it can be carried out in:

- ❑ Companies (in Italy and abroad)
- ❑ Research laboratories (in Italy and abroad)

HOW TO FIND AN INTERNSHIP?

- ❑ The **Career Service** (https://www.unipd.it/en/job-placement) can help you in finding a company where to carry out the internship (both in Italy and abroad)

- ❑ Our MSc Programme **website** also shows available thesis opportunities in the dedicated section (Section Final Exam): https://stem.elearning.unipd.it/course/section.php?id=110122

- ❑ **Career days** are also organized

You need to find a Professor available to be your **Academic tutor for the internship**.

Internship and thesis

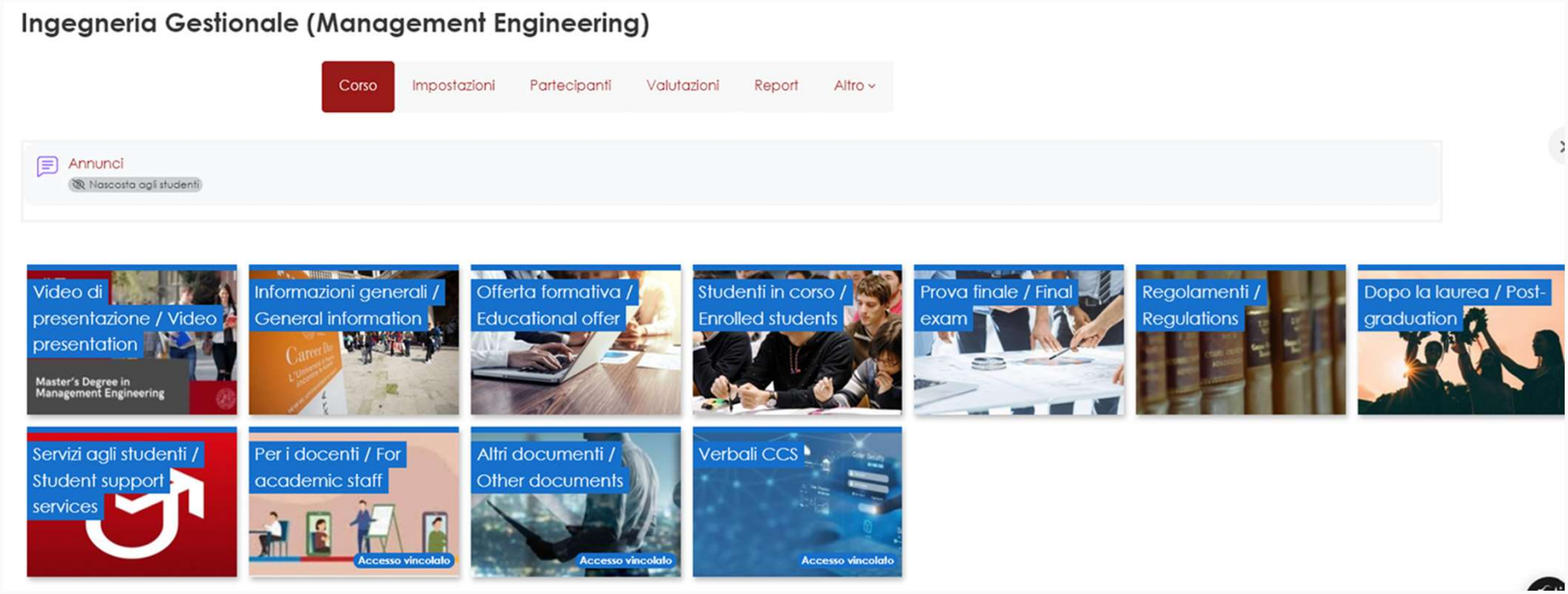
The internship could be connected to the thesis (usually)



- ❏ The activities carried out during the internship should provide **sufficient (and appropriate) material** for writing the thesis
- ❏ Internships that involve general activities do NOT normally offer the possibility of writing a thesis. To write a thesis based on the internship, it is necessary to develop an **original project within the company/research laboratory** in one of the disciplines of the master's degree program
- ❏ It is advisable to draft **a thesis project** as soon as the internship begins, to be **shared with the company tutor and the academic tutor**
- ❏ Formally, the curricular internship requires 150 hours of attendance at the company, but it usually **lasts longer**, especially if connected with the thesis (3-6 months)

Tools and support

MSc Programme website (!!!!VERY IMPORTANT!!!):
https://stem.elearning.unipd.it/course/view.php?id=10952



Tools and support



Studenti in corso / Enrolled students

Presentazione Welcome day (IT)

Nascosta agli studenti

Organi, commissioni e referenti / Academic bodies, committees, and representatives

Segreteria Studenti / Student Office

Orari delle lezioni / Class schedule

Competenze in azione (3 CFU) / Competences in action (3 ECTS)

Calendario esami / Exam calendar

Piani di Studio / Study plans

Studiare all'estero / Studying abroad

Scopri sotto le diverse opportunità di studio all'estero! / Take a look at the variety of possibilities to study abroad!

- Erasmus+ Studio / Erasmus+ for Studies
- Erasmus+ per tirocinio / Erasmus+ for traineeship mobility
- Programma Ulisse / Ulisse program
- Programma T.I.M.E. / T.I.M.E. program
- Swiss European Mobility Program (IT) / Swiss European Mobility Program (EN)
- Coimbra Group - Student Exchange Network (IT) / Coimbra Group - Student Exchange Network (EN)

Corsi di lingua inglese / English language courses

Tirocinio formativo e prova finale: linee guida / Internship and final exam: guidelines

Corsi singoli

Tools and support

In addition, useful information and support will be provided by the International Desk in the following meetings on:

- ✓ Study plan – how to fill it in
- ✓ Internship opportunities
- ✓ Studying abroad opportunities
- ✓ How to graduate

- **Access to courses, resources and exams**

  https://stem.elearning.unipd.it/ (SSO login) → Courses
  https://uniweb.unipd.it/ (SSO login) → Exams

- **Contacts**

  International Desk DTG – internationalstudents.dtg@unipd.it

UNIVERSITÀ DI PADOVA · 1222

Thank you



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