University of Padova

School of Engineering

The educational programs

Teaching excellence since 1876

http://www.ingegneria.unipd.it
ingegneria@unipd.it
Educational offer

- **All branches** of engineering covered
  - Industrial
  - Information
  - Civil & Environmental

- **12 first-cycle** degree programs (Bachelor's degrees or *Laurea*)
  - 3 years

- **18 second-cycle** degree programs (Master's degrees or *Laurea magistrale*)
  - 2 years

- **1 single-cycle degree** program
  - 5 years

- **8 Ph.D. schools** (*Dottorato di ricerca*)
  - 3 years

- **several Lifelong post-graduate learning programs** (after 1st or 2nd cycle degree)
  - typically, 1 year
• **Bachelor’s degree programs**
  1. Aerospace Engineering
  2. Chemical and Materials Engineering
  3. Energy Engineering
  4. Engineering and Management
  5. Mechanical Engineering
  6. Mechanic and Mechatronic Engineering
  7. Biomedical Engineering
  8. Information Engineering
  9. Electronic Engineering
  10. Computer Engineering
  11. Civil Engineering
  12. Environmental and Land Planning Engineering
• Master’s degree programs
  1. Aerospace Engineering
  2. Chemical and Process Engineering
  3. Civil and Industrial Safety Engineering
  4. Electrical Energy Engineering
  5. Energy Engineering
  6. Engineering and Management
  7. Materials Engineering
  8. Mechanical Engineering
  9. Mechatronic Engineering
  10. Product Innovation Engineering
  11. Automation Engineering
  12. Bioengineering
  13. Computer Engineering
  14. Electronic Engineering
  15. Telecommunication Engineering
  16. Civil Engineering
  17. Environmental Engineering
  18. Mathematical Engineering

• Single-cycle degree program
  1. Building Engineering and Architecture

• Total enrollment (Bachelor degrees):
  ~3000 students/year

• Total enrollment (all 5 years):
  ~12000 students (20% of UniPD)
• PhD schools

1. Civil and Environmental Engineering Science
2. Fusion Science and Engineering
3. Industrial Engineering (Chemical, Mechanical, Materials and Biomedical, Thermo-mechanical Energy, Electrical Energy)
4. Information Engineering
5. Management Engineering and Real Estate Economics
6. Mechatronics and Product Innovation Engineering
7. Science and Engineering of Materials and Nanostructures
8. Space Sciences, Technologies and Measurements

Total enrollment: ~310 PhD students
Departments

• **2 Campuses**
  – Padova and Vicenza

• **4 Engineering Departments + 2 basic Sciences Departments**
  – Industrial Engineering (DII)
  – Information Engineering (DEI)
  – Civil, Architectural and Environmental Engineering (ICEA)
  – Engineering and Management (DTG)
  – Mathematics
  – Physics and Astronomy

• The degree programs are managed by the Engineering Departments
Language

• Virtually all course units in the Bachelor degree programs are taught in Italian

• Two Master’s degree programs are taught entirely in English
  – Environmental Engineering
  – Mathematical Engineering

• Several Master’s degree course units are taught in English
  – see http://en.didattica.unipd.it/catalogues/2016/IN
  – currently, ~90 course units, but the number is expect to further increase in the next years
• All degree programs are strongly involved in student international mobility programs
  – virtually all Europe is covered (Erasmus Plus and TIME (Top Industrial Managers for Europe) programs)
    • typically, 6-month stay in the foreign Institution
    • the aim is to take exams or carry out the final thesis in the hosting institution
  – bilateral agreements
    • U.S.A.
    • China (CSC)
    • India
    • Brazil (Science without Borders)
    • …
• Two semesters with lecture and exam sessions. Typically:
  – **First semester**: October 1 – February 28
    • Classes: September 26 – January 15
    • Exams: January 20 – February 28
  – **Second semester**: March 1 – July 31
    • Classes: March 1 – June 15
    • Exams: June 20 – July 31

• One extra exam session
  – August 20 – September 30

• Thesis/final project: close collaboration with research labs and local industries (**internships**) 
  – may start at any time throughout the year