





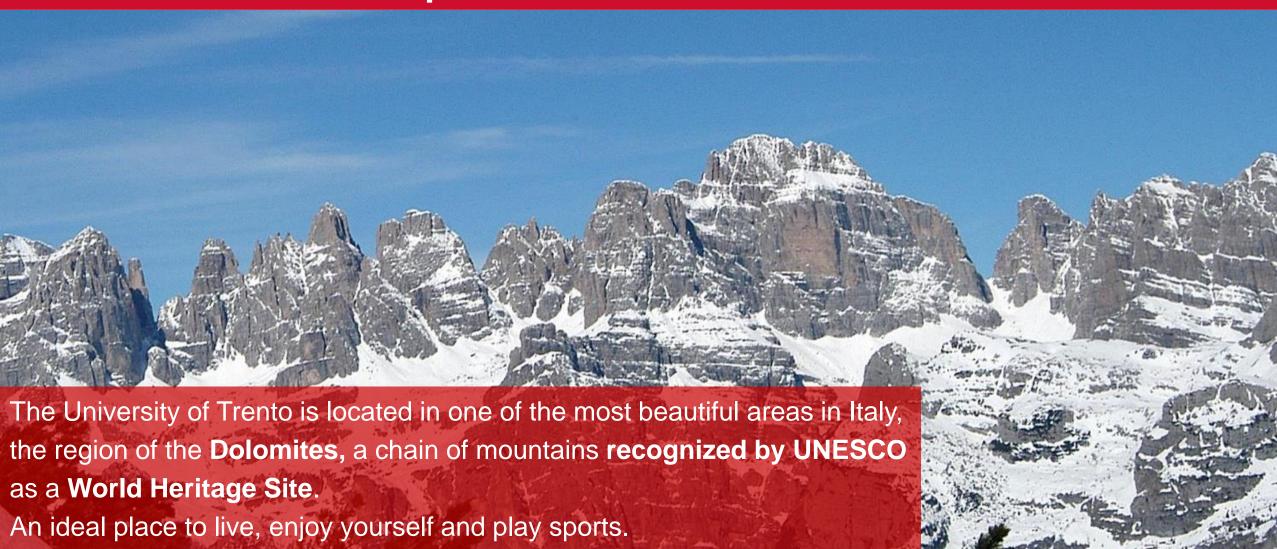
## Where is Trento?

Trento is a small town (120,000 inhabitants), versatile and rich in cultural heritage. It was chosen in 2014 as **one of the 10 «smart cities» of the world.** It is a safe place to live and one of the cities with the **highest quality of life in Italy.** 





## In the heart of the Alps





# The University of Trento: History and Rankings

A young medium sized University constantly working to develop its international dimension. Founded in 1962, in 1982 the University became public, with a statute that guaranteed self-government.

QS World University Rankings 2023: 429

11th among the 42 Italian Universities present in the ranking

THE World University Rankings 2023: 401-500

10th among the 53 Italian universities present in the ranking



- ANVUR 2015-2019\*: 1 st for scientific production (among the medium-sized Italian universities)
- ANVUR 2018: **EVELA** (highest score) for teaching



## People



824

Professors and Researchers

**40** Visiting Professors

800

Administrative Staff

16.500

PhD **800** 

Enrolled students in 2022-2023

Bachelor **8.600**Bachelor+Master **3.300**Master **3.800** 

1.450

International students in 2022-2023

Bachelor 6%
Bachelor+Master 4%
Master 16%
PhD 25%

Data are rounded off



# **University Facilities**





## **Academic Facilities**

#### 11 DEPARTMENTS

- Cellular, Computational and Integrative Biology
- Civil, Environmental and Mechanical Engineering
- Industrial Engineering
- Information Engineering and Computer Science
- Mathematics
- Physics
- Economics and Management
- Humanities
- Law
- Psychology and Cognitive Science
- Sociology and Social Research

#### **4 CENTRES**

- Agriculture Food Environment
- Mind/Brain Sciences
- School of International Studies
- Interdipartmental Center for Medical Sciences



#### Research





# **Education a.y. 2024/25**

27

Bachelor's Courses

(3 years: 180 credits ECTS)

(5/6 years: 300 credits ECTS)

4

Bachelor's Courses in English

43

Master's Courses

(2 years: 120 credits ECTS)

27

Master's Courses in English

19

PhD Programmes

(3 years +)

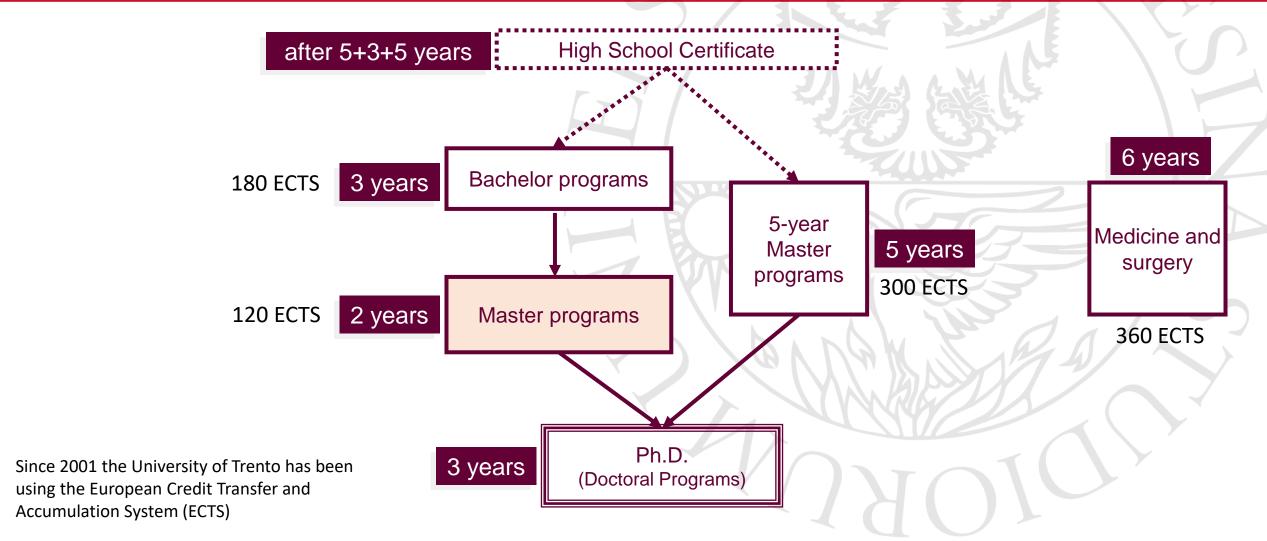
**16** 

PhD Programmes in English





# The structure of higher education in Italy





### The double degree with the Groupe des Ecoles Centrale

Year		GEC		UniTrento			
1	Class prep.	S1	S2	L	S1	S2	
2		<b>S</b> 3	<b>S</b> 4		S3	S4	
3	Ecole	<b>S</b> 5	<b>S</b> 6		S5	S6	
4		<b>S</b> 7	\$8				
5		S9	S10	LM	<b>S</b> 1	S2	
6					<b>S</b> 3	S4*	

#### Legend:

L = Laurea (Bachelor), LM = Laurea Magistrale (Master)

Highlighted cells indicate the mobility track; semesters in bold are mandatory; semesters in italic are replaced by the mobility at the Host Institution.

<sup>\*</sup> Some of the courses attended at GEC can be recognized by UniTrento reducing the number of ECTS.



#### The Departments involved in the agreements with EC



Civil, Environmental and Mechanical Engineering (DICAM)



Information Engineering and Computer Science (DISI)

**Industrial Engineering (DII)** 



## DICAM (Civil, Environmental and Mechanical Engineering) – 2 MSc degrees

### **Environmental Engineering**

#### Specialisations:

- Water Resources and Land Protection (with a few courses in Italian)
- 2. Environmental Quality and Remediation Technologies
- 3. Environmental Sustainability and International Cooperation
- 4. Modelling and Simulation of Environmental Systems



- mandatory 54 ECTS
  - Numerical methods for the environment
  - Geotechnical and structural design
  - Ecological planning
  - Hydrodynamics
  - Hydrological modelling
  - Urban infrastructures
- specialisations 36 ECTS
- elective 12 ECTS
- other activities 3 ECTS
- thesis 15 ECTS

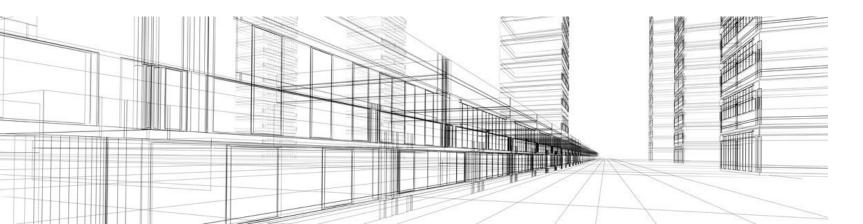


## DICAM (Civil, Environmental and Mechanical Engineering) – 2 MSc degrees

### **Civil Engineering**

#### Specialisations:

- 1. Structures
- 2. Rehabilitation
- 3. Integrated digital design
- 4. Digital infrastructures
- 5. Large infrastructures



- mandatory 30 ECTS
  - Dynamics and plasticity of structures
  - Geotechnics and foundations
  - Reinforced concrete and prestressed structures
- courses with projects and laboratories 30 ECTS
- specialisations 30 ECTS
- elective 12 ECTS
- other activities 3 ECTS
- thesis 15 ECTS

<sup>\*</sup> almost all courses in Italian

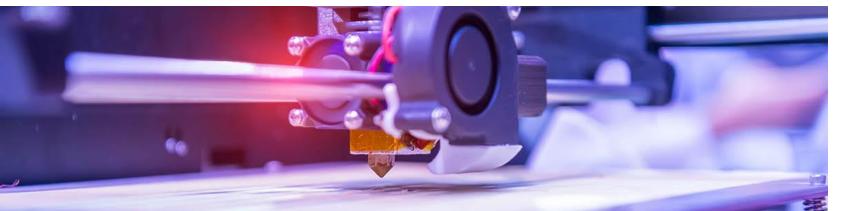


### DII (Industrial Engineering) – 3 MSc degrees

### **Materials Engineering**

#### Specialisations:

- 1. Manufacturing and Product Development
- 2. Energy, Environment and Sustainable Development
- 3. Engineered Materials and Biomedical Applications



- mandatory 60 ECTS
  - Ceramic materials engineering
  - Corrosion and degradation control of materials
  - Engineering properties of materials
  - Metallic materials engineering
  - Physics and thermodynamics of materials
  - Polymeric and composite materials engineering
- specialisations 33 ECTS
- elective 6 ECTS
- other activities 3 ECTS
- thesis 18 ECTS



### DII (Industrial Engineering) – 3 MSc degrees

### **Mechatronics Engineering**

#### Specialisations:

- 1. Mechanics
- 2. Electronics and Robotics
- 3. Intelligent Vehicles



- mandatory 57 ECTS
  - Automatic control
  - Digital signal processing for mechatronics
  - Mechanical design for mechatronics
  - Mechanical vibrations
  - Mechatronic systems simulation
  - Precision engineering
- specialisations 33 ECTS
- elective 12 ECTS
- other activities 3 ECTS
- thesis 15 ECTS



### DII (Industrial Engineering) – 3 MSc degrees

## Management and Industrial Systems Engineering

#### Specialisations:

- 1. Design and sustainability
- 2. Management and digitalization



- mandatory 60 ECTS
  - Digital production and logistics systems
  - Organizations, human resources and innovation
  - Advanced manufacturing and sustainable products
  - Dynamics in systems and networks
  - Decision and risk analysis
  - Project management
- specialisations 30 ECTS
- elective 12 ECTS
- other activities 3 ECTS
- thesis 15 ECTS

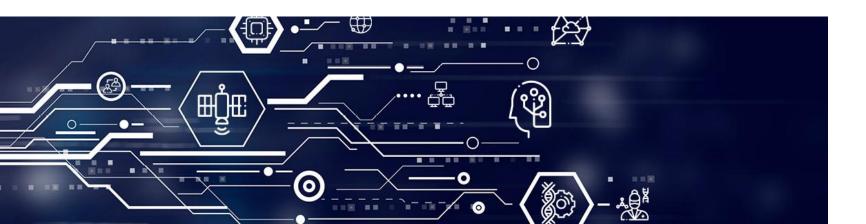


## DISI (Information Engineering and Computer Science) – 1 MSc degree

#### **Information Engineering**

#### Specialisations:

- 1. Communications Engineering
- 2. Computer Engineering
- 3. Electronics Engineering
- 4. Biomedical Engineering



- mandatory 42 ECTS
  - Digital Signal Processing
  - Networking
  - Recognition Systems
  - Innovation and Business in ICT
  - Industry Challenges
- specialisations 30 ECTS
- elective 18 ECTS
- internship + thesis 30 ECTS



# **Double Degrees between EC and UniTrento**

A **joint study programme** between two universities that allows students to obtain **two diplomas** that are recognized in the respective countries. Periods of study at Home and Host university are mutually recognized.

#### **Admission requirements for Ecole Centrale students**

- Having completed 4 years of study before arrival
   (2 years Classes préparatoires + 2 years Tronc commun)
   A Bachelor's degree (180 ECTS) is needed for the enrolment in the Master's degree in Italy → Based on the previous career, the requirements for the award of a BSc by UniTrento will be checked and, if satisfied, credits are transferred at the start of the mobility
- English knowledge at least level B2 according to the CEFR (4 linguistic abilities: reading – listening – writing – speaking)
- Having passed a selection at the Home institution

Duration of mobility: 4 semesters (with possible recognition of credits for already done exams)

Master's **thesis**: an original piece of work, co-supervised (EC+UniTrento), only single defense with members of both institutions, if possible – must follow study course regulations and procedures of both universities



## **Incoming exchange students (Erasmus+)**

Erasmus+ agreements (student mobility to UniTrento)

Partner University			Field of studies		Level	Nr places		Hosting Department at UniTrento
F	GIF-YVE03	CentraleSupelec	0732	Building and civil engineering	1 <sup>st</sup> , 2 <sup>nd</sup>	2	6	DICAM
F	GIF-YVE03	CentraleSupelec	0714	Electronics and automation	2 <sup>nd</sup> , 3 <sup>rd</sup>	1	12	DISI
F	LILLE14	Centrale Lille	0710	Engineering and engineering trades, not further defined	1 <sup>st</sup> , 2 <sup>nd</sup>	2	6	DII
F	NANTES07	Ecole Centrale Nantes	0732	Building and civil engineering	2 <sup>nd</sup>	3	6	DICAM
F	NANTES07	Ecole Centrale Nantes	0710, 0714, 0715, 0722	NA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 <sup>nd</sup>	3	6	DII

Students can choose courses from the Department involved in the specific agreement (DICAM, DII, DISI) + some courses from the other departments of UniTrento (27 MSc programmes in English)





# Master's Programmes in English

- European and International Studies
- International Security Studies
- Security, Intelligence and Strategic Studies
- Innovation Management
- International Management
- Behavioural and Applied Economics
- European Master in Business Studies
- Sociology and Social Research
- Global Law Making
- Cognitive Science
- Cellular and Molecular Biotechnology
- Agrifood Innovation Management
- Mathematics
- Physics

- Quantitative and Computational Biology (DISI)
- Human-Computer Interaction (DISI)
- Computer Science (DISI)
- Information Engineering (DISI)
- Artificial Intelligence Systems (DISI)
- Data Science (DII, DISI)
- Materials Engineering (DII)
- Mechatronics Engineering (DII)
- Management and Industrial Systems Engineering (DII)
- Bioengineering for Personalized Medicine (DII)
- Environmental Engineering (DICAM)
- Energy Engineering (DICAM + Univ. Bolzano, Italy)
- Environmental Meteorology (DICAM + Univ. Innsbruck, Austria)



#### **International**

The University of Trento has signed **600** agreements with universities from all over the world to grant students the possibility to further enrich their academic career by spending a study period abroad.

Mobility: over 1.200 outgoing students and almost 650 incoming students every year.





## **Welcome Services for International Students**





**Advantages for Double Degree / Erasmus Students** 

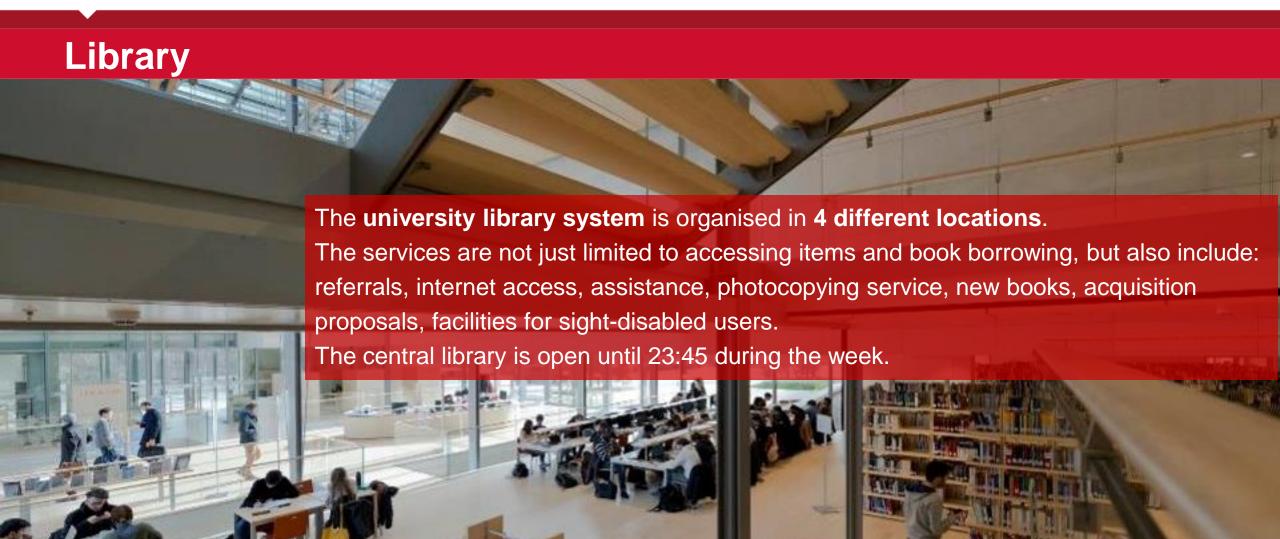




## **Services for students**









# Language Centre



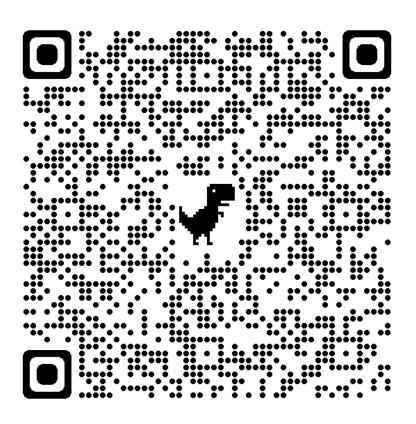


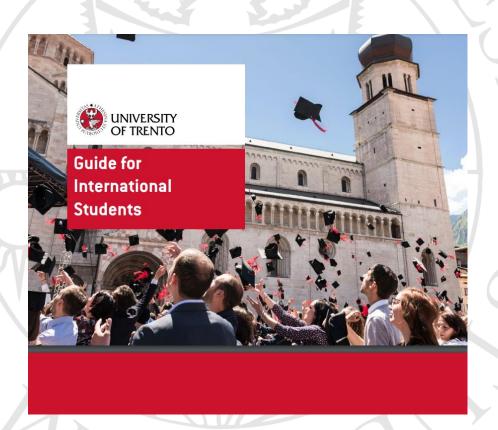
# **UniTrento Sport**





## **Guide for International Students (QR CODE)**





https://www.unitn.it/en
https://international.unitn.it