



Fakultät für Ingenieurwesen
Facoltà di Ingegneria
Faculty of Engineering

Master in Energy Engineering

2026/27



At a glance

Degree class: LM-30
ECTS credits: 120 ECTS
Duration of the course: 2 years
Courses will be taught in English
(Optional courses could be offered also
in Italian and German)
Places available: 40 EU + 10 Non-EU
Campus: NOI Techpark Bozen-Bolzano
and Trento

Course Description

In this study programme you will learn how to design and develop effective, innovative and sustainable technological solutions to challenges linked to the depletion of fossil fuels and the environmental impact of energy use. You will study energy efficiency in buildings and industry, the production of renewable energy through small to medium-scale systems, and the broader environmental consequences of technological innovation and energy-market dynamics.

By gaining advanced expertise in the design and management of energy systems, resource use, energy planning and distribution - supported by modern modelling techniques - you will be equipped to address complex, interdisciplinary problems in the energy sector, contribute to the development of smarter and more sustainable infrastructures and policies, and play a leading role in driving technological innovation and research.

In collaboration with the University of Trento.

Online Info Sessions

We offer online information sessions in the coming months during which the master programme will be presented and where interested students can address their questions to professors and students. The Info Sessions take place on the following days:

- Wednesday, 11 March 2026, 17:00 (CET): [register here](#)
- Wednesday, 15 April 2026, 17:00 (CEST): [register here](#)

Structure of the course

The first year offers a core set of fundamental courses designed to build a solid foundation in energy engineering. Key topics include an overview of conventional and renewable energy resources, the principles and technologies behind the management and operation of energy conversion plants, and the analysis of energy use across major application sectors, such as residential and commercial buildings. These courses equip students with the essential knowledge and tools to understand, evaluate, and optimise energy systems in diverse real-world contexts.

At the second year, you can choose between two curricula, each tailored to a distinct area of energy engineering:

- **Technologies for Energy Efficiency**
This curriculum equips students with the skills to analyse, design, and optimise energy consumption in end-use applications, such as buildings, industrial processes, and distribution networks.
- **Renewable and Innovative Technologies for Energy Supply**
This curriculum focuses on the study and application of advanced technologies for producing and managing energy from renewable sources, like water, wind, and biomass.

Both curricula prepare students to address current and future challenges in sustainable

energy systems.

Exchange programmes and internships

Currently we offer exchange programmes with partner universities all over the world. This study programme gives you the opportunity to undertake an internship with one of the many public or private energy companies in our region or abroad.

You can also take part in the **double degree programme** with the Universitat Politècnica de Catalunya, Barcelona (Spain) and IMT Atlantique, Nantes (France).

Employment prospects

There is currently a strong demand for energy engineers, and you will be able to pursue management and research positions in manufacturing or service companies, design offices and public administrations dealing with **Energy Resources, Energy Planning, Design, Construction and Operation of Renewable Energy Plants (particularly hydroelectric and cogeneration plants), Cogeneration and Trigeneration, Heating and District Heating, Thermotechnical Industry.**

On completion of your degree, you will be in a position to be considered for entry into a PhD programme.

Well prepared and ready for the job market. On the website of AlmaLaurea you can check statistical data about graduates' satisfaction and their employability.



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Application and Admission

You can find all you need to know in order to apply and gain admission to this study programme by browsing through the information below.

Deadlines and important dates

Early Bird Application

Application: 02/03 - 28/04/2026 (by noon local time)

Language exams (online): 16/03/2026 (registration: 02 - 09/03/2026) and 16 - 17 and 20 - 21/04/2026 (registration: 24/03 - 08/04/2026)

Publication of ranking lists: by 27/05/2026

Payment of the 1st instalment of the tuition fees: by 05/06/2026 (by noon local time)

Enrolment: from 10/07 - 13/10/2026 (by noon local time)

Late Application (only for EU citizens)

Application: 28/05 - 20/08/2026 (by noon local time)

Language exams (online): 22 - 26/06/2026 (registration: 28/05 - 15/06/2026) and 27/07 (registration: 10 - 19/07/2026)

Publication of ranking lists: by 03/09/2026

Payment of the 1st instalment of the tuition fees: by 11/09/2026 (by noon local time)

Enrolment: from publication of the ranking list until 13/10/2026 (by noon local time)

Additional Application Session (only for EU citizens)

The Faculty can open additional application sessions for single study programmes in August and in September if there are available places. More information on additional sessions will be published in due course.

Preparatory courses and Freshers Days

Freshers Days: 28 - 29/09/2026

1st semester

Classes: 28/09 - 23/12/2026

Exams (extraordinary session): 10 - 23/12/2026

Holidays: 24/12/2026 - 06/01/2027

Classes: 07 - 23/01/2027

Exams: 25/01 - 20/02/2027

2nd semester

Classes: 01/03 - 25/03/2027

Holidays: 26 - 29/03/2027

Classes: 30/03 - 12/06/2027

Exams (extraordinary session): 12 - 22/05/2027

Exams: 14/06 - 10/07/2027

Autumn session

Exams: 23/08 - 25/09/2027

Available places

EU citizens and citizens given parity of treatment

Early Bird Application: 20

Late Application: 20

Non-EU citizens (living abroad)

Early Bird Application: 10

Entry requirements

In order to gain admission to this programme you need one of the following qualifications:

1. a bachelor degree in the Italian degree classes L-7 (Civil and Environmental Engineering), L-8 (Information Technology Engineering) or L-9 (Industrial Engineering) M.D. 1648/2023 (and ex M.D. 270/04)
2. a bachelor degree in the Italian degree classes 8, 9 and 10 ex M.D 509/99
3. a bachelor degree in a class other than the above, university diploma or other qualification awarded abroad and recognised as suitable
4. degree in a different category from those mentioned above, provided that a certain number of credits (ECTS) are earned in the following subject areas, at least equal to:

Minimum 24 ECTS credit points in the following areas:

- MATH-02/B (ex MAT/03) Geometry
- MATH-03/A (ex MAT/05) Mathematical analysis
- MATH-03/B (ex MAT/06) Probability and mathematical statistics
- MATH-04/A (ex MAT/07) Mathematical physics
- MATH-05/A (ex MAT/08) Numerical analysis
- MATH-06/A (ex MAT/09) Operational research
- STAT-01/B (ex SECS-S/02) Statistics for experimental and technological research

Minimum 16 ECTS credit points in the following areas:

- CHEM-03/A (ex CHIM/03) General and inorganic chemistry

- CHEM-05/A (ex CHIM/06) Organic chemistry
- CHEM-06/A (ex CHIM/07) Chemical foundations of technologies
- PHYS-01/A (ex FIS/01) Experimental physics of fundamental interactions and applications
- PHYS-03/A (ex FIS/01 and FIS/03) Experimental physics of matter and applications
- PHYS-04/A (ex FIS/03) Theoretical physics of matter, models, mathematical methods and application
- IMAT-01/A (ex ING-IND/22) Materials science and technology

Minimum 45 ECTS credit points in the following areas:

- IIND-06/A (ex ING-IND/08) Fluid machinery
- IIND-06/B (ex ING-IND/09) Energy systems and power generation
- IIND-07/A (ex ING-IND/10) Thermal engineering and industrial energy systems
- IIND-07/B (ex ING-IND/11) Building physics and building energy systems
- IMIS-01/A (ex ING-IND/12) Mechanical and thermal measurements
- IIND-02/A (ex ING-IND/13) Applied mechanics
- IIND-03/B (ex ING-IND/15) Design methods for industrial engineering
- IIND-04/A (ex ING-IND/16) Manufacturing technologies and systems
- IIND-05/A (ex ING-IND/17) Industrial mechanical plants
- ICHI-01/B (ex ING-IND/24) Fundamentals of chemical engineering
- ICHI-02/A (ex ING-IND/25) Chemical plants
- IIET-01/A (ex ING-IND/31) Electrical engineering
- IIND-08/A (ex ING-IND/32) Power electronic converters, electrical machines and drives
- IIND-08/B (ex ING-IND/33) Electrical power systems
- CEAR-01/A (ex ICAR/01) Hydraulics
- CEAR-01/B (ex ICAR/02) Hydrology and hydraulic and maritime structures
- CEAR-02/A (ex ICAR/03) Sanitary and environmental engineering
- CEAR-04/A (ex ICAR/06) Geomatics
- CEAR-06/A (ex ICAR/08) Mechanics of solids and structures
- CEAR-10/A (ex ICAR/17) Drawing
- IIND-03/A (ex ING-IND/14) Mechanical design and machine construction

If you do not meet the requirements in point 4, the Admissions Committee may also consider credits from other subject areas if they are similar in content.

The minimum average grade required in the bachelor's degree (excluding the final exam) is 22/30 (according to the Italian grading system).

In case of foreign qualifications, the evaluation of the curricular requirements is made by the Admissions Committee that will assess the equivalence between the contents of the courses attended in previous careers and the subject areas of the programme.

Adequacy of personal preparation: to be admitted to the master programme, you must show adequate preparation. This will be checked based on previous academic results and an interview, following the rules set out in the programme's study regulation.

If you have not yet graduated at the time of application:

Until your graduation, you will be admitted conditionally. You must complete your degree by the enrolment deadline. Otherwise, you will be excluded.

To be admitted, you must fulfil the language requirements indicated in the 'Language requirements' section.

According to national regulations, simultaneous enrolment in a maximum of two programmes is allowed. However, the two programmes must not belong to the same class, e.g., LM-30/LM-30.

Language requirements

The official teaching language is English. Therefore, the following language requirements apply, otherwise you will be excluded from the admission procedure:

Entry level (to gain admission)

English: B2

The levels of the Common European Framework of Reference apply.

You can demonstrate your language proficiency in the application portal (in the section "upload language certificates" and/or "enrol for language exams") after you have created an application in the section "create/manage applications".

- In case your final certificate has been awarded by an **Italian** public institution, you need to submit a self-declaration.
- In case your final certificate has been awarded by a **foreign** public institution, you need to upload diploma scanned copy of the original.

You can demonstrate language proficiency through:

1. **the main teaching language in your final high school year**, if English (recognised as C1). **Foreign qualifications:** If the main teaching language is not clearly stated on your high school diploma, please also upload a letter/document issued by your high school stating the medium of instruction.
2. **a bachelor or master degree** in English (recognised as C1). unibz graduates must upload the language certificates obtained and/or declare that they have passed language exams at the unibz Language Centre (B2, B2+ or C1). **Foreign qualifications:** If the teaching language is not clearly stated on your University degree, please also upload a letter/document issued by your University stating the medium of instruction during your studies.
3. **a recognised language certificate** (see the list of recognised certificates) If you cannot upload the certificates, you can send them by e-mail as PDF files or deliver them in person to the Language Centre by the application deadline (see "Deadlines" section).
4. **language exams organised by the unibz Language Centre.** You can register for these exams online through the application portal (in the section "enrol for language exams") after you have filled out your application in the section "create/manage applications". The registration periods are indicated in the "Deadlines" section. If you start your application outside a language exams registration period, you must return to the portal during one of the periods indicated above in order to register for an exam. Information regarding the structure of the language proficiency exams, their duration, their administration, and typical processing time for the publication of the results can be found on the following webpage.

For information on studying in three languages also visit the following page.

Online application

Your application must be submitted online through the Application Portal. The deadlines are indicated in the “Deadlines” section.

- You need to create an account and upload a valid ID card or passport (front/back). Please note: if your document is invalid, incomplete or unreadable, you will be excluded from the admission procedure;
- Fill in the online form and upload the attachments listed under “Admission procedure”;
- If you gained your qualification abroad, you must also upload the diploma of your qualification: if you are not yet in possession of the diploma, you’ll need to upload it upon enrolment;
- Complete and submit the online application by the deadline. Once the application has been sent, it cannot be modified. Filled-in forms which have not been sent correctly will not be taken into consideration.

Please note: Mendacious declarations will be criminally prosecuted and will result in the automatic exclusion from the ranking list.

EU-Citizens and equivalent

You might apply for more than one study programme. If you are excluded in the first session, you might apply again in the second one.

Considered as equivalent are:

1. Citizens from Norway, Iceland, Liechtenstein, Switzerland, San Marino and the Vatican City State;
2. Non-EU citizens with a valid permit to stay in Italy (see article 39, paragraph 5 of decree no. 286 of 25.07.1998: “**permesso di soggiorno**” (residence permit) for work, family reasons, political or humanitarian asylum, religious reasons). In this case, you apply directly to the University as described above and must submit a copy of your valid permit to stay. A permit to stay for study reasons or a visa for tourism is **not valid**. If the permit has expired, you must attach a renewal request. **Please note** that if you do not upload the permit in the application portal, you will be automatically considered a non-EU citizen living abroad and therefore subject to the admission procedure through the Italian authorities in your country of origin.

Non-EU-Citizens (living outside of Italy)

Only one application period is offered. After the deadline it is not possible to apply anymore. Application fee: € 50.

Once the ranking list has been published, if you have gained admission, secure it by paying the first instalment and then start your visa application on the University portal. The application on University is mandatory, otherwise you will not be allowed to enrol. On University you can apply for one study programme only.

Admission procedure

Admission is based on academic qualifications **and an interview** to determine the adequacy of your personal preparation in relation to the master programme's learning objectives.

In the application portal, you must upload:

1. Qualification:

- **if graduated in Italy:** diploma supplement or self-declaration (following the Italian D.P.R. no. 445/2000) of the degree awarded with the final grade and passed exams (if graduated) or, if not graduated yet, a certificate listing the exams passed;
- **if graduated abroad:** diploma supplement or final degree certificate with the passed exams (if graduated) or transcript of records (if not graduated yet) in Italian, German or English.

The above must contain the following information: final grade, exams passed with grade and date of passing, credit points, scientific fields (the latter only for Italian titles).

For qualifications obtained abroad, also: scale of grades awarded by the university of provenance (with a minimum final grade to obtain the qualification and a maximum final grade achievable).

The Faculty reserves the right to request a description of the contents of the courses and/or teaching hours where necessary.

2. Excel file: Please use the file available in the application portal. Applications without a completed excel file will not be considered.

3. Curriculum vitae (in English)

To strengthen your application, you can upload:

4. URL (optional): about a video presentation which does not have to last more than 3 minutes. In the video you have to introduce yourself, explaining your experiences, the topic of your final thesis work and your interest in the field of Energy Engineering. View Instructions

5. any other certificate of post-graduate Diploma (Master's degree) already awarded when submitting the application and including final grade, credits and marks achieved in each subject and GPA (an official translation of the transcript of records is required when the original document is not produced in English or Italian).

The ranking lists are created based on the following criteria:

1. The Committee verifies regularly submitted applications and, for eligible candidates only, proceeds to assess the fulfilment of curricular requirements and the adequacy of the candidates' personal preparation. The adequacy of personal preparation is considered fulfilled if at least one of the following criteria is met:
 - a) Achievement of a Bachelor's degree grade equal to or greater than 100/110 (or an equivalent score for foreign qualifications) according to the information uploaded in the Excel file.
 - b) Completion of at least 80% of the ECTS credits of the first-level degree programme with a weighted average grade equal to or greater than 26/30 (or an equivalent score for foreign qualifications).

- c) Successful performance in an oral interview aimed at verifying basic knowledge in applied thermodynamics, heat transfer, electrical engineering, and fluid machinery.
2. The evaluation is carried out by allocating points (max. 100) in accordance with the following criteria:
- a) Curriculum vitae (evaluation of the previous first-level university career, including educational and academic activities, as well as professional experiences) and consistency between the obtained qualification and the objectives of the Master's degree program in Energy Engineering (max. 50 points);
 - b) Evaluation of personal preparation (final degree grade, GPA, and, if applicable, an interview) (max. 30 points)
 - c) Further language competences in English if the level is higher than B2 (max. 10 points).
 - d) video presentation (optional) (max. 3 minutes) (max. 10 points)

The presentation video will only be evaluated if a minimum overall score between points a. and b. established by the commission is achieved. This is because candidates who do not obtain a minimum overall score in the first two points will not be able to mathematically achieve the 50/100 eligibility threshold, even if they obtain the maximum score in the video evaluation.

In case the documents included in the online application do not allow the Admission Committee to adequately evaluate the application, the candidate might be asked to send further documentation (e.g. programmes of the courses taken) and/or to participate in an interview (in person or via videoconference).

Please note: mendacious declarations will be sanctioned by criminal law and will result in your automatic exclusion.

Candidates awarded a score of **50/100 or more** will be declared eligible for the programme and ranked accordingly.

In case of candidates having the same score, priority will be given to the youngest applicant.

Ranking lists

The Admission Committee will only evaluate the documents uploaded in the portal by the application deadline. The ranking list with the admitted students will be published here: and are only valid for the respective academic year.

Secure your admission and enrolment

If you have been admitted to more than one study programme, you can secure your admission for a maximum of 2 programmes by paying the designated rate twice. By confirming your place, you renounce admission to the other programmes.

1. Choose the study programme and pay the fees (to secure your admission) in the application portal.

The deadlines are indicated in the "Deadlines" section.

If you do not meet this deadline, you will automatically be excluded and the next applicant in the ranking list will be admitted.

For EU citizens and citizens given parity of treatment only: any remaining places of the early bird application, will be offered in the late application.

Please note: Paying university fees does not confer student status, which is only obtained by enrolling. If you pay but do not enrol, you are not entitled to a refund, except for non-EU applicants living abroad who do not obtain the necessary documents for enrolment from the Italian authorities in their country.

2. Enrol online in the application portal.

The deadlines are indicated in the “Deadlines” section.

Enrolment is recommended as early as possible, so you have the possibility to upload incomplete documents before the deadline.

If you do not meet the enrolment deadline, you will be excluded and the next applicant in the ranking list will be admitted.

Admission with reservation:

If you do not have the required academic qualification, you will be given a conditional offer for a study place and you must submit your qualification upon enrolment. If you achieve your qualification after the enrolment deadline, you cannot enrol, and you will lose your place which will be offered to the subsequent applicant in the ranking list. **Advice:** If you achieve your qualification after the enrolment deadline, you should not pay the tuition fees to confirm the study place. You will be able to submit a late enrolment request and, only if there are study places still available, you can enrol by 11 December 2026.

Students intending to transfer from another Italian University to unibz must submit to the Student Office - at the beginning of the academic year - a copy of the transfer application presented at the university of provenance.

3. If you have a foreign university degree, during enrolment you must upload:

- degree diploma of your Bachelor
- official translation of your degree into Italian (not necessary if the documents have been issued in German or English)
- Diploma supplement, where it must be indicated: that you have achieved at least 180 credit points (ECTS) and that the qualification gives access to a master programme

Depending on the foreign education system your degree belongs to, you must also upload:

a) EU countries, Switzerland, Norway, Iceland, Liechtenstein:

- Statement of **Correspondence** of your Bachelor degree, to be downloaded from the ARDI - Automatic Recognition Database – Italy

b) Non-EU countries that are signatories to the Lisbon Convention:

- Statement of **Correspondence** of your Bachelor degree, to be downloaded from the ARDI - Automatic Recognition Database – Italy **and**
- Statement of **Verification** of your Bachelor degree, issued by the Italian Information Centre on Academic Mobility and Equivalence (CIMEA)

c) Non-EU countries that are not signatories of the Lisbon Convention:

- Statement of **Comparability** of your Bachelor degree, issued by the Italian Information Centre on Academic Mobility and Equivalence (CIMEA) **and**
- Statement of **Verification** of your Bachelor degree, issued by the Italian Information Centre on Academic Mobility and Equivalence (CIMEA)

unibz performs the necessary checks on your foreign qualification and in case of doubt reserves the right to request additional documents.

Please note that if you do not possess a valid admission qualification, you can be excluded with Rector's decree even after enrolment.

If you are a non-EU citizen living abroad:

If you are eligible for admission (check the ranking lists) and have also applied on University, the Italian Authorities in your own country will issue you the entry visa for studies/university.

This will allow you to arrive in Italy to enrol for the study programme that you have applied for, after passing the admission procedure.

According to Italian law, within 8 working days of your arrival in Italy, you must have applied for the residence permit: as soon as you arrive, get in touch with the Advisory Service and you will be given the necessary information for starting the procedure.

Once you will obtain your residence permit (permesso di soggiorno), you have to hand it in at the Student Office personally or via e-mail.

Tuition fees

Fees amount to **€ 1200**

- **1st instalment (€ 600):** includes the revenue stamp of € 16.
- **2nd instalment (€ 600):** must be paid by March of the following year

Delayed payment of the second instalment will result in a fine being levied. If you have not paid the tuition fees, you will be unable to take exams and will not be able to transfer to other universities or other study programmes.

If you drop out of a programme, interrupt your studies or are excluded from studies, you are not entitled to reimbursement of the fees.

Exemption from the tuition fees is granted to:

- Students with a disability recognized under article 3, paragraph 1, of Law No 104/1992, or with a disability up to or exceeding 66%: the disability certificate, issued by the health authorities, must be handed in at the beginning of the academic year.
- Foreign students who have been granted a scholarship from the Italian government.

Students who benefit from a scholarship granted by the Autonomous Province of Bozen-Bolzano are entitled to receive a refund of the tuition fees.

Recognition of credit points from previous studies

Credit points from previous university studies can only be recognised **after enrolment** if the exams taken at the university of provenance are equivalent in content to those offered at unibz.

The Advisory Service provides support regarding your choice of study. In many cases a simple call or a short request is enough to get the relevant information (Tel. +39 0471 012100).

Advisory Service

Universitätsplatz 1 - piazza
Università, 1
Italy - 39100, Bozen-Bolzano
Tel +39 0471 012100
apply@unibz.it

Opening Hours

Tuesdays: 14:00-16:00
Thursdays: 10:00-12:00

Alternatively, you may call us
throughout the week or book an
online appointment