

Study Manifesto

# MASTER IN ENERGY ENGINEERING (INTERUNIVERSITY MASTER)

2017/2018 academic year

## Course outline

Faculty	Science and Technology (Bolzano) and Department of Civil, Environmental and Mechanical Engineering (Trento)
Degree class	LM-30 (Ministerial Decree n. 270/2004)
Length	2 years
Credit points	120 (based on the European Credit Transfer System)
Languages used in teaching	English (main language), Italian, German (free choice courses)
Admission title	See "Admission requirements" (page 2)
Language requirements	Level B2 in English, level A1 in a second language used in teaching (German or Italian)
Study places	40 EU + 5 Non EU
Admission procedure	Academic qualification and interview: 1st session: between 2 and 5 May 2017 2nd session: between 25 and 28 July 2017
Deadline for application	1st session: 28 April 2017 2nd session: 20 July 2017
Deadline for enrolment	3 November 2017
Tuition fees	1343,50 Euro per year
Classes start	25 September 2017 (at the University of Trento)

subject to change

# THE MASTER PROGRAMME

The Master in **Energy Engineering (Interuniversity Master, Degree class LM-30)** is offered jointly with the University of Trento, Department of Civil, Environmental and Mechanical Engineering. The programme is geared to preparing a professional figure able to address complex and advanced problems of energy engineering or that require an interdisciplinary approach in the design, implementation, management and upgrading of production systems, transport and efficient use of energy.

## CAREER OPPORTUNITIES

Master graduates in Energy Engineering may find employment in Public Institution as well as private companies, design studios in particular operating on a regional scale, dealing with energy resources, energy planning, design, construction and management of production plant for renewable energy (especially hydroelectric), cogeneration and trigeneration, district heating, and in the heating, ventilating and air conditioning industrial sector.

The professional and managerial roles in the research for manufacturing companies or public and private services, and finally in the public administration.

## LANGUAGES USED IN TEACHING

The official teaching language is English. Free-choice courses will be offered in Italian and German.

## FIXED INTAKE

The available study places for the 2017/2018 academic year are:

	EU citizens (and citizens given parity of treatment)	non-EU citizens (resident abroad)
1 <sup>st</sup> session	20	5
2 <sup>nd</sup> session	20	0
<b>Total</b>	<b>40</b>	<b>5</b>

## ADMISSION REQUIREMENTS

To enter the Master, the academic requisites are:

- a degree title under former DM 270/04 classes in the L-7, and L-9 or university degree in Classes 8 and 10 ex DM 509/99 and a minimum number of credit points (CP) in specific scientific groups of scientific sectors achieved in the previous career as from the following table:

MAT/03 – GEOMETRY MAT/05 – MATHEMATICAL ANALYSIS MAT/07 – MATHEMATICAL PHYSICS MAT/08 – NUMERICAL ANALYSIS MAT/09 – OPERATIONAL RESEARCH SECS-S/02 – STATISTICS FOR EXPERIMENTAL RESEARCH AND TECHNOLOGY	24
CHIM/03 – GENERAL AND INORGANIC CHEMISTRY CHIM/06 – ORGANIC CHEMISTRY CHIM/07 – CHEMICAL FUNDAMENTALS OF TECHNOLOGY FIS/01 – EXPERIMENTAL PHYSICS FIS/03 – PHYSICS OF MATTER ING-IND/22 – MATERIAL SCIENCE AND TECHNOLOGY	16
ING-IND/8 – FLUID MACHINES ING-IND/10 – INDUSTRIAL TECHNICAL PHYSICS ING-IND/11 – ENVIRONMENTAL TECHNICAL PHYSICS ING-IND/12 – MECHANICAL AND THERMAL MEASUREMENT ING-IND/13 – APPLIED MECHANICS ING-IND/15 – TECHNICAL DRAWING AND INDUSTRIAL ENGINEERING METHODS ING-IND/16 – TECHNOLOGIES AND PRODUCTION SYSTEMS ING-IND/17 – INDUSTRIAL MECHANICAL SYSTEMS ING-IND/25 – CHEMICAL PLANTS ING-IND/31 – ELECTROTECHNICS ING-IND/32 – CONVERTERS, ELECTRICAL MACHINES AND DRIVES ING-IND-33 – ELECTRICAL POWER SYSTEMS ICAR/01 – HYDRAULICS ICAR/02 – HYDRAULIC CONSTRUCTIONS AND MARITIME AND HYDROLOGY ICAR/03 – SANITARY AND ENVIRONMENTAL ENGINEERING ICAR/06 – TOPOGRAPHY AND CARTOGRAPHY ICAR/17 – DRAWING	36
ICAR/08 – MECHANICS OF STRUCTURES	9

- An average grade higher or equal to **22/30**, weighted on credits (excluding the final exam). The grade "30 cum laude" is computed as 31/30 in the calculation of the average.
- All other cases (degree title under former DM 270/04 in classes other than L-7 and L-9, or degree title under DM 509/99 in classes other than No. 8 and No. 10, or other equivalent degree belonging to the former regulation or other degree title obtained abroad and recognized as equivalent) will be evaluated by the Interuniversity Course Council considering appropriate equivalence between the content and the courses attended in previous careers and those corresponding to the subject areas listed in the above table.

Concurrent enrolment at several universities or in several courses at the same university is not allowed. Concurrent enrolment at universities and at higher education institutions for music and dance (e.g., music academy) is on the contrary allowed under specific conditions (Ministerial Decree 28.09.2011; further information is available from the Student secretariat).

The required degree title must be obtained by the enrolment deadline, for the current academic year. Until then, candidates will be given a conditional offer of a place.

## LANGUAGE REQUIREMENTS FOR ADMISSION

In order to be admitted to the programme, you must possess proven language skills at the B2 level (Common European Framework of Reference) of the English language and A1 (Common European Framework of Reference) in at least one of the two other teaching languages (German, Italian).

If you are not able to certify the above indicated entry level, you cannot be admitted.

The six levels of the Common European Framework of Reference are:

- A1-A2: Basic Users
- B1-B2: Independent Users
- C1-C2: Proficient Users.

## HOW TO DEMONSTRATE LANGUAGE PROFICIENCY

You must first log in to the portal available at <https://aws.unibz.it/exup/en>

Once registered, you can:

- upload your language certificates
- enrol to do the language assessment tests offered by the Language Centre
- fill in the application form
- update your personal data.

## PROFICIENCY REQUIRED FOR ADMISSION (FIRST AND SECOND LANGUAGE)

You can demonstrate language proficiency in the following ways:

- a) you declare, in the Application Portal, that Italian, German or English was the main teaching language in your final highschool year (corresponds to level C1). If your highschool was one of the trilingual secondary schools in the Ladin valleys of South Tyrol, this will be accepted as demonstrating proficiency in both German and Italian (corresponds to level B2 for both languages);
- b) you declare, in the Application Portal, to be awarded an undergraduate or postgraduate degree in Italian, German or English. Graduates of unibz, enrolled before 2011, who have not certified their language proficiency in the three languages, must sit a mandatory language placement test;
- c) you upload, in the Application Portal, a recognised certificate (see <https://www.unibz.it/en/services/language-centre/study-in-three-languages/>). You might send your certificates also to the Language Centre - via email in pdf format – or hand them in person. The language certificates can be handed in during the following periods:
  - o **13 March - 28 April 2017**, 12.00 midday (for applicants of the 1<sup>st</sup> and 2<sup>nd</sup> session)
  - o **18 May - 20 July 2017**, 12.00 midday (for applicants of the 2<sup>nd</sup> session)
- d) you pass a language test organised by the Language Centre of unibz. Enrolment for these tests is done online through the application form:
  - o **16-17 March 2017** (enrolment from 22.02. to 10.03.2017) (valid for the 1<sup>st</sup> and 2<sup>nd</sup> session)
  - o **20 April 2017** (enrolment from 20.03. to 14.04.2017) (valid for the 1<sup>st</sup> and 2<sup>nd</sup> session)
  - o **6 June 2017** (enrolment from 4.05. to 25.05.2017) (valid for the 2<sup>nd</sup> session only)
  - o **10 July 2017** (enrolment from 8.06. to 4.07.2017) (valid for the 2<sup>nd</sup> session only)

If necessary, the exam sessions in April, June and July will be extended by one day and then possibly take place on 21 April, 7 June and 11 July 2017.

Results will be available immediately after the tests.

e) you pass a language test organised by the Language Centre of the University of Trento. To enrol for the test please fill in the online application form at: <https://webapps.unitn.it/PrenotazioniEventi/it/Web/DatiDicam/169>

For information regarding procedures and deadlines refer to:

<http://international.unitn.it/masterenergy/how-to-prove-language-proficiency>

Please note: in case your final title has been awarded by an Italian public establishment, certificates and diplomas must be substituted by self-declarations.

**NOTE: In case not already certified, the required A1 level in the second language (German or Italian) is verified by the Selection Commission during the interview.**

## ONLINE APPLICATION

Your application is submitted online through the application portal available at

<https://aws.unibz.it/exup/en>

You need to create an account, fill in the form online and upload the documents required as an electronic file. Through the application portal you can also upload your language certificates or register for the language exams.

Application for several courses is allowed. Applicants excluded in the first session can apply again in the second.

Deadlines	Begin	End (term of exclusion)
1 <sup>st</sup> session	13 March 2017	28 April 2017, 12:00 midday
2 <sup>nd</sup> session	18 May 2017	20 July 2017, 12:00 midday

### ATTACHMENTS

Please upload the required attachments for every selected degree course in the portal. In the portal, you can visualize the status of your application and your attachments with the help of colours (e.g. missing documents will be highlighted in red).

Evaluation can then only take place on the basis of the documentation you have uploaded in the portal by the deadline. If your application is incomplete, you will be excluded from the admission procedure.

You have to upload:

- a passport-size colour photo;
- a photocopy of a valid identity card or passport (front/back); Attention: if your document is invalid, incomplete or unreadable, you will be excluded from the admission procedure.
- the attachments listed in the section entitled "Selection procedure".

Applicants with a qualification gained abroad must also upload:

- the diploma of their qualification: those not yet in possession of the diploma can upload it upon enrolment at the very latest;
- an official translation of the qualification into Italian (not necessary for qualifications in German or English);
- the Diploma supplement, in the case they have achieved their university title in a Member State of the European Union (or in Switzerland, Liechtenstein, Norway or Iceland). In the Diploma supplement it must be indicated:
  - that the student has achieved at least 180 credit points (ECTS) and
  - that the study title gives access to a Master course.

In case of doubt, unibz reserves the right to request further documents (e.g. declaration of equivalent value);

- the declaration of equivalent value of the applicants qualification, in the case they have achieved their university title in a State who is not part of the European Union, or when the Diploma supplement is missing. Those not yet in possession of the declaration can upload it upon enrolment at the very latest;
- the valid permit to stay for Italy (only for non EU-citizens legally resident in Italy) – see below.

### **The declaration of equivalent value (or diploma supplement for titles achieved in the EU or in the European Economic Area)**

If you have a qualification from abroad you must certify that your qualification would grant you entry to a similar university course in the country where you achieved this qualification.

For that reason you must:

- apply for the "dichiarazione di valore" (declaration of equivalent value) at the Italian consulate or embassy abroad (the declaration must be applied for as soon as possible since it can often require long processing times);
- upload the declaration upon enrolment at the very latest, together with the other relevant documents.

### Application by non-EU citizens

**If you have a valid permit to stay in Italy** (see article 39, paragraph 5 of the Legislative Decree N. 286 of 25.07.1998: "**permesso di soggiorno**" for work, family reasons, political or humanitarian asylum, religious reasons), you apply directly to the University, as described above and must submit a copy of your valid permit to stay. A permit of stay for study reasons, or a visa for tourism, is not sufficient. If the permit deadline has expired, a renewal request must also be attached. **NB:** if you do not provide the permit for one reason or another, you will be automatically considered a non-EU citizen living abroad and therefore subject to the admission procedure through the Italian authorities acting in your country of origin.

**If you are resident abroad**, you must carry out the **enrolment procedures both through the Italian authorities** (consulate or embassy) in your country **and directly with the University**. The deadlines imposed by the Italian Ministry of Education, Universities and Research (<http://www.studiare-in-italia.it/studentistranieri/>) must be respected. Should you not follow this procedure with your local Italian consulate, the application that you delivered direct to the University will be declared null and void. Please note that non EU-citizens resident abroad can apply for one course only!

## SELECTION PROCEDURE

You shall be assessed for admission based on academic qualifications and a possible interview intended to determine the adequacy of personal preparation of the student in relation to the academic objectives of the Master of Science.

In the application portal, you shall upload:

### **If you already obtained the required degree, you must upload in the application portal:**

- *the previous degree:*
  - if graduated in Italy: diploma supplement or substitute-declaration (following the Italian D.P.R. nr. 445/2000) of the degree awarded, final mark, list of passed exams as well as the marks, the date in which the exams were passed and the credit points as well as the subject areas and the hours of teaching;
  - if graduated abroad: diploma supplement or final degree certificate issued by the foreign university (to be translated into English if it is written in a language which is not Italian, German or English) detailing the final mark, list of passed exams as well as the marks, the date in which the exams were passed and the credit points as well as the hours of teaching. A description of the contents of the single courses must also be attached; it is advisable to attach the declaration of value or a document written by the university itself with the indication of the lowest mark needed in order to achieve the degree as well as the highest mark obtainable;

### **If you have not yet obtained the required degree, you must upload in the application portal:**

- for Italian universities: substitute-declaration (following the Italian D.P.R. nr. 445/2000) of the exams passed as well as the marks, the date in which the exams were passed and the credit points as well as the subject areas and the hours of teaching; a substitute-declaration (following the Italian D.P.R. nr. 445/2000) indicating the degree exam date and the missing exams (in case there are still exams to do)
- for foreign universities: a certificate (to be translated into English if it is written in a language which is not Italian, German or English) issued by the foreign university containing the list of exams sat as well as the marks, the date in which the exams were passed and the credit points as well as the hours of teaching. A document issued by the university containing the date of the final exam and the missing exams (in case there are still exams to do). A document issued by the university containing the scale of the marks used as well as the contents of the single courses has to be presented as well.

The ranking lists are created following the criteria as below:

- max 70 points the grade average, weighted on credits, in the exams for obtaining the degree title (excluding the final exam). The grade "30 cum laude" is computed as 31/30 in the calculation of the average (see page 3).
- max 30 points for the interview.

## ADMISSION RANKING LISTS

The Selection Committee will only evaluate the documentation uploaded in the portal by the application deadline and will draw up two admission ranking lists: one for EU citizens (and citizens of other countries who enjoy parity of treatment) and one for non-EU citizens resident abroad.

The ranking lists will be published on the website <https://www.unibz.it/en/applicants/ranking-lists/> and are only valid for the academic year for which they have been drawn up. Publication:  
For the first application session, likely by 16 May 2017.  
For the second application session, likely by 4 August 2017.

If you are high up enough on the ranking list to be admitted for one degree course, but you are not any more interested in, you are required to compile the form for the renunciation and to submit it by e-mail to the Student Secretariat ([studsec@unibz.it](mailto:studsec@unibz.it)). This declaration of renunciation cannot be recalled and enables the Student Secretariat to contact the applicants who are next in the ranking list.  
The link to the renunciation form is available here: <https://www.unibz.it/assets/Documents/Applicants/unibz-renunciation-of-study-place-en.pdf>

## CONFIRMATION OF STUDY PLACE AND ENROLMENT

If you have been admitted to more than one degree courses, you can only confirm a study place in one of them. With this confirmation you refrain from the admission to the other degree courses and lose the right to move up in the other ranking lists.

For enrolment you need to:

1. **pay the first instalment of university fees** (743,50 €)
2. **in the application portal**, choose the course and upload **the payment receipt** (to confirm your study place). Please note that payment will only be accepted once the receipt has been uploaded in the portal - it is not enough just to make the payment, otherwise you will lose your study place!

Deadline for applicants of the 1 <sup>st</sup> session	<b>25 May 2017</b>
Deadline for applicants of the 2 <sup>nd</sup> session	<b>24 August 2017, 12:00 midday</b>

If you do not respect this deadline, you will automatically lose your place which will be offered to the subsequent applicant in the ranking list.  
If not all study places of the first session are occupied, any free places will be assigned in the 2<sup>nd</sup> session.

Please note that payment does not allow you to receive student status, which will be acquired upon enrolment. If you have a confirmed study place, there will be no refund of the university fees unless, in the event of non-EU applicants resident abroad, you do not receive the necessary documents from the Italian authorities in your country.

3. **in the application portal, enrol online.**

Deadlines	Begin	End
for applicants of the 1 <sup>st</sup> session	24 July	<b>3 November 2017, 12:00 midday</b>
for applicants of the 2 <sup>nd</sup> session	4 August	<b>3 November 2017, 12:00 midday</b>

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

If you don't respect the deadline for enrolment, you will lose your study place, which will be offered to the following applicant in the ranking list.

<b>If you have gained your qualification abroad you must upload (if not uploaded upon application):</b>
<ul style="list-style-type: none"><li>• diploma of your qualification</li></ul>
<ul style="list-style-type: none"><li>• official translation of your diploma into Italian (translation is not necessary if the certificates have been issued in German or English)</li></ul>
<ul style="list-style-type: none"><li>• the Diploma supplement, in the case they have achieved their university title in a Member State of the European Union (or in Switzerland, Liechtenstein, Norway or Iceland). In the Diploma supplement it must be indicated:<ul style="list-style-type: none"><li>• that the student has achieved at least 180 credit points (ECTS) and</li><li>• that the study title gives access to a Master course.</li></ul></li></ul>

In case of doubt, unibz reserves the right to request further documents (e.g. declaration of equivalent value).
<ul style="list-style-type: none"> <li>the declaration of equivalent value of the applicants qualification, in the case they have achieved their university title in a State who is not part of the European Union, or when the Diploma supplement is missing. Those not yet in possession of the declaration can upload it upon enrolment at the very latest</li> </ul>

At the beginning of the academic year you have to submit the originals of the above mentioned documents to the Student Secretariat.

<p><b>If you are a non-EU citizen resident abroad:</b></p> <p>If you are admitted to the course you applied for (check the admission ranklists), the Italian Authorities in your country will issue you with the entry visa for studies/university: this will allow you to arrive in Italy to sit any entrance tests you have to take, and to enrol for the course that you have pre-enrolled for, after passing the selection procedure.</p> <p>According to Italian law, within 8 working days of your arrival in Italy, you must have applied for the permit to stay: as soon as you arrive you should go to the Advisory Service and you will be given all the information so that you can start this procedure.</p> <p>Once you will obtain your permit of stay for Italy (permesso di soggiorno), you have to deliver it to the Student Secretariat personally or via e-mail.</p>
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**Students intending to transfer from another Italian University to unibz** have to submit to the Student Secretariat - at the beginning of the academic year - a copy of the transfer application presented at your university of origin.

## TUITION FEES

Enrolment taxes and fees for the 2017/2018 academic year amount to **1.343,50 €**.

Deadlines for payment	1 <sup>st</sup> instalment <b>(743,50€)*</b>	2 <sup>nd</sup> instalment (600 €)
for applicants of the 1 <sup>st</sup> session	by 25 May 2017	by 31 March 2018
for applicants of the 2 <sup>nd</sup> session	by 24 August 2018	by 31 March 2018

\* The first instalment includes the provincial tax for the right to study of 143,50 € and a revenue stamp of 16 €.

The first instalment must be paid in order to enrol.

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

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

Exemption from the University fees (and the provincial tax) is granted to:

- Disabled students with a disability up to or exceeding 66%: the disability certificate, issued by the health authorities, must be presented 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 (see below) are entitled to receive a refund of the tuition fees

## RECOGNITION OF CREDIT POINTS

After enrolment, you can apply for recognition of the credit points gained at the end of your previous university studies, if they are compatible with the subjects offered.

You can fill out the online application using Cockpit (Intranet for students, access will be possible only after enrolment).

The Degree Council will evaluate the application and the credit points - if recognised - will be inserted in your student's career.

Further information are available in the Faculty Secretariat.

## ADVISORY SERVICE

The Advisory Service informs you about the faculties and the degree courses on offer and provides support regarding your choice of study.

At the InfoPoints in Bozen-Bolzano and Brixen-Bressanone you can view information material and receive information about the courses. There is also an individual consultation service available.

Addresses and telephone numbers can be found on the last page of this Manifesto.

## STUDENTS WITH DISABILITIES OR LEARNING DISORDERS

Students with disabilities:

- Support during the admission procedure: you need to contact the Advisory Service to submit evidence of your disability at least one month before any admission exams. The Advisory Service will arrange the support according to your needs so that you can sit the admission exams without difficulty. You must therefore submit a certificate of disability to the Advisory Service, Piazza Università 1 – Bozen-Bolzano, either in person by appointment, or via fax (+39 0471 012109), by the application deadline.
- Support while you study: please contact the Advisory Service to discuss any further support you may need throughout your time at the University.
- Exemption from tuition fees: please read the paragraph entitled "Tuition Fees".

Students with learning disabilities (law n.170/2010):

- Support during the admission procedure: you are entitled to receive 30% extra time for written entrance examinations. You need to submit an evaluation that documents your learning disorder (diagnosis) to the Advisory Service, Piazza Università 1 – Bozen-Bolzano, either in person by appointment, or via fax (+39 0471 012109), by the application deadline.  
The certification provided must have been issued by an institution recognised by your national health service and the diagnosis submitted cannot be accepted if it is more than 3 years old.
- Support while you study: please contact the Advisory Service to discuss any further support you may need throughout your time at the University.

Other forms of support are offered by the School and University Welfare Office of the Autonomous Province of Bozen-Bolzano (address and other details can be found on the last page).

## STUDY GRANTS AND STUDENT ACCOMMODATION

The School and University Welfare Office of the Autonomous Province of Bozen-Bolzano (Amt für Hochschulförderung - Ufficio per il Diritto allo Studio universitario) must be contacted for:

- **Accommodation:** you can apply from Tuesday, **11 April 2017**. We advise you to complete the application for accommodation as soon as possible, already upon application at the University or before knowing the admission procedure results: the assignment of accommodation in student hostels follows a first-come, first-served policy. You can find further information regarding registration procedure on the services portal of the Autonomous Province of Bozen-Bolzano from mid-March: [www.provincia.bz.it/diritto-allo-studio](http://www.provincia.bz.it/diritto-allo-studio) > Assistenza universitaria > Alloggi in Alto Adige;
- **Study grants:** For information, you can contact the above-mentioned office or the "Südtiroler HochschülerInnenschaft" (sh.asus), which can give information and help with online applications. Students from non-EU countries will be eligible for these study grants only after one year of regular residence in South Tyrol;
- **Refund of the provincial tax.**

Addresses and telephone contacts are indicated on the last page of this Manifesto.

## STUDY PLAN

You must obtain in total 120 credit points. For both curricula, the exam listed in the study plan offer 93 credit points.

In addition to the mandatory subject, a range of optional courses will be offered.

Further 27 credit points are divided as follows:

- 15 credit points for the Master degree thesis,
- 12 credit points for optional courses

Subjects		CP	
<b>1st year 1st semester</b> (at the University of Trento)			
Electrical Systems Engineering		6	
Fluid Machines Engineering		9	
Engineering Thermodynamics, Heat and Mass Transfer		6	
Environmental Fluid Mechanics/ Hydropower Plants	Environmental Fluid Mechanics	4	9
	Hydropower Plants	5	
<b>1st year 2nd semester</b> (at the Free University of Bozen - Bolzano )			
Building HVAC Systems		9	
Advanced Applications of Building Physics		9	
Electric Power Conversion Equipment		6	
<b>One exam from the following two subjects:</b>			
Italiano Tecnico / Technisches Italienisch		3	
Tedesco Tecnico / Technisches Deutsch		3	
<b>2nd year 1st semester</b> (at the Free University of Bozen - Bolzano)			
Power Production, CHP and District Heating Systems	Thermal Engines	6	12
	Thermal power production and distribution	6	
Curriculum <b>TECHNOLOGIES FOR ENERGY EFFICIENCY</b>			
Special Issues of Building Physics		6	
Applied Mechanics and Technologies for Energy Efficiency	Technologies and Production Processes for Energy Engineering	6	12
	Functional Mechanical Design for Energy Efficiency	6	
Curriculum <b>RENEWABLE AND INNOVATIVE TECHNOLOGIES FOR ENERGY SUPPLY</b>			
Hydropower and Wind power system	Wind powers systems	6	12
	Hydropower systems	6	
<b>One exam from the following two subjects:</b>			
Mechanics and Structural Design for Energy Engineering	Fundamentals of Structural Mechanics	3	6
	Fundamentals of Structural Design	3	
Advanced materials for Energy Engineering		6	
<b>2nd year 2nd semester</b> (at the University of Trento)			
Curriculum <b>Technologies for energy efficiency</b>			
District heating system design		6	
Curriculum <b>Renewable and innovative technologies for energy supply</b>			
<b>One exam from the following two subjects:</b>			
Electrochemical energy storage and conversion		6	
Bioenergy		6	
<b>2nd year 2nd semester</b> (at the Free University of Bozen-Bolzano/at the University of Trento)			
Optional Subjects		12	
Master degree thesis		15	

There is no compulsory attendance, but attendance of lessons, exercise classes and lab work is strongly recommended. The course concludes with the writing and discussion of a thesis. The Faculty will provide a separate set of regulations for this.

All lectures and seminars will take place in the main premises of unibz, at the Faculty of Science and Technology in Bozen - Bolzano and at the University of Trento, Faculty of Engineering. The calendar detailing lecture halls and lecture times can be found on the Faculty's website.

## 2017/18 ACADEMIC CALENDAR\*

### 1st session

Application	13.03. - 28.04.2017
Language tests	16. - 17.03.2017 (enrolment by: 10.03.2017) 20.04.2017 (enrolment by: 14.04.2017)
Selection procedure	Interviews from 02.05.2017 until 05.05.2017
Rank lists published	by 16.05.2017
Payment of the 1st instalment of the fees	by 25.05.2017
Enrolment	24.07. - 03.11.2017

### 2nd session

Application	18.05. - 20.07.2017
Language tests	06.06.2017 (enrolment by: 25.05.2017) 10.07.2017 (enrolment by: 04.07.2017)
Selection procedure	Interviews from 25.07.2017 until 28.07.2017
Publication of ranking lists	by 04.08.2017
Payment of the 1st instalment of the fees	by 24.08.2017
Enrolment	04.08. - 03.11.2017
Infodays for Freshers	02.10. - 03.10.2017

Lessons begin	25 September 2017 (at the University of Trento)
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*\* The academic calendar follows the requirements of each partner University*

## FOR FURTHER INFORMATION:

WHO?	WHAT?	WHERE?	WHEN?
<b>Advisory Service</b> Tel. +39 0471 012 100 <a href="mailto:study@unibz.it">study@unibz.it</a>	General information and course guidance, foreign students and students with disability or learning difficulties, accommodation	<b>At Bozen/Bolzano:</b> Universitätsplatz/Piazza Università 1 Building A – 1 <sup>st</sup> floor Office A1.01 Infopoint	Tue + Thu 14:00 - 16:00  Wed + Fri 10:00 - 12:30
		<b>At Brixen/Bressanone:</b> Regensburger Allee/Viale Ratisbona, 16 2 <sup>nd</sup> floor Office 2.12	by appointment
<b>Student Secretariat</b> Tel. +39 0471 012 200 <a href="mailto:studsec@unibz.it">studsec@unibz.it</a>	Online application, enrolment, tuition fees	Bozen/Bolzano Universitätsplatz/Piazza Università 5 Building B – 1 <sup>st</sup> floor Office B1.10	Mon + Wed + Fri 10:00 - 12:00  Tue + Thu 14:00 - 16:00
<b>Faculty of Science &amp; Technology</b> Tel. +39 0471 017 000 <a href="mailto:science.technology@unibz.it">science.technology@unibz.it</a>	Admission procedure, ranking lists, didactics	Bozen/Bolzano Universitätsplatz/Piazza Università 5 Building K – 3 <sup>rd</sup> floor	Mon + Tue 10:00 - 12:00  Thu + Fri 14:30 - 16:30
<b>Language Centre</b> Tel. +39 0471 012 400 <a href="mailto:language.centre@unibz.it">language.centre@unibz.it</a>	Online upload of language certificates, enrolment to language assessment tests, language courses	<b>At Bozen/Bolzano:</b> Universitätsplatz/Piazza Università 1 Building E – 1 <sup>st</sup> floor Office E1.23 Infopoint	Tue + Thu 14:00 - 16:00  Wed + Fri 10:00 - 12:30
		<b>At Brixen/Bressanone:</b> Regensburger Allee/ Viale Ratisbona, 16 2 <sup>nd</sup> floor Office 2.12	by appointment
<b>Amt für Hochschulförderung / Ufficio per il Diritto allo Studio universitario</b> Office for School and University Assistance Tel. +39 0471 412 941/ 412 927 <a href="mailto:hochschulfoerderung@provinz.bz.it">hochschulfoerderung@provinz.bz.it</a>	Grants, accommodation in student halls	Bozen/Bolzano Andreas-Hofer-Straße/Via Andreas Hofer, 18 2 <sup>nd</sup> floor Office 213, 216 (Grants) Office 214 (Student halls)	Mon + Tue + Wed + Fri 09:00 - 12:00  Thu 08:30 - 13:00 / 14:00 - 17:30
<b>South Tyrolean student association (sh.asus)</b> Tel. +39 0471 974 614 <a href="mailto:bz@asus.sh">bz@asus.sh</a>	General information, support in filling out the application forms for grants	Bozen/Bolzano Kapuzinergasse/Via dei Cappuccini 2 Ground floor	Mon - Thu 09:00 - 12:30 / 14:00 - 17:00  Fri 09:00 - 12:30
<b>Università degli Studi di Trento</b> Ufficio Offerta Formativa e Gestione Studenti Ingegneria Civile, Ambientale, Meccanica – Ingegneria Industriale Tel: +39 0461 281971-1970 e-mail: <a href="mailto:SupportoStudentiMesiano@unitn.it">SupportoStudentiMesiano@unitn.it</a>	Didactic support	Trento Via Mesiano, 77	Mon + Fri 10:00 - 12:00  Wed 14:30-16:00