



Fakultät für Ingenieurwesen  
Facoltà di Ingegneria  
Faculty of Engineering

# Master in Software Engineering

2026/27



## At a glance

Master class: LM-18  
ECTS credits: 120  
Duration of the course: 2 years  
Courses will be taught in English  
Places available: 30 EU + 30 non-EU  
Campus: NOI Techpark Bozen-Bolzano  
Tuition fees: ca. € 1200 per year



## Course description

The software engineering landscape is evolving rapidly, with **AI-based tools** such as ChatGPT and Copilot transforming the way we develop software and automate business processes. Modern organisations require **advanced IT solutions** that necessitate a profound grasp of operational environments and business contexts, rendering software development a discipline that demands proficiency in **contextual analysis, AI integration, and customisation**. There is an increasing need for a new generation of software technologies to ensure robust, safe, secure and real-time operations, particularly in AI-driven environments where software reliability and sustainability are critical concerns. The programme also covers the responsible development of software.

Our programme features a study plan that tackles the AI revolution head-on. Rather than treating AI as an add-on, we have integrated it into multiple courses to demonstrate how this technology is transforming every aspect of software engineering, just as it is doing in the real world.

On this programme, you will learn to conceive, design, implement, customise and maintain modern software systems by applying advanced software engineering principles enhanced with AI capabilities. The curriculum provides **advanced, contemporary software engineering knowledge** and **software development practice**. You will develop and test prototypes that reflect today's AI-driven reality, preparing you to address the challenges that new technological advances present to software engineering.

We will provide you with the **knowledge** and **skills** necessary for a successful career as a software engineer in an **AI-empowered world**.

## Online Info Session

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:

- Tuesday, 3 March 2026, 14:00 (CET): [register here](#)
- Tuesday, 7 April 2026, 14:00 (CEST): [register here](#)

## Structure of the course

The study plan is structured to offer both a solid foundation and flexible opportunities for specialisation. It consists of three main components that combine theoretical knowledge, practical skills, and research experience.

- **Mandatory courses (60 ECTS credits):** These courses cover topics providing both foundational and advanced knowledge of software engineering. They aim to standardise the knowledge of students from different educational backgrounds and further develop their professional competencies as software engineers.
- **Optional and free-choice courses (24 ECTS credits):** These courses cover various topics related to software engineering that students can choose from to extend their knowledge. Examples include algorithms for parallel computing, responsible software engineering and entrepreneurial software engineering. These courses cover topics that reflect current

trends in software engineering, extending students' knowledge horizontally. They cover a broader range than classical software engineering programmes, providing students with contemporary, interdisciplinary knowledge.

- **Internship and Thesis (36 ECTS credits):** These two elements are open to all students, who can use them to gain professional experience in a business area of their choice and to explore a specific area of software engineering through conducting empirical research.

# Study Plan

## 1st Year - 1st Semester

- 12 CP Software Design and Implementation
  - 6 CP M1: Requirements Engineering for Dependable Systems
  - 6 CP M2: Software Architecture
- 12 CP Agile Software Development
  - 6 CP M1: Agile Processes and Practices
  - 6 CP M2: Continuous Integration and Delivery
- 6 CP Human Computer Interaction

## 1st Year - 2nd Semester

- 6 CP Verification and Reliability
- 6 CP Advances in SE and Communication
- 6 CP Cloud Computing and Distributed Systems
- 6 CP Intelligent Tools for Software Evolution
- 6 CP Free Choice\*

## 2nd Year - 3rd Semester

- 6 CP Research Methods
- 6 CP Software and Systems Security
- 6 CP Internship
- 12 CP Alternatives from Catalogue (up to two of the following)\*\*:
  - 6 CP Software Quality and Metrics
  - 6 CP Entrepreneurial Software Engineering
  - 6 CP Innovative Solutions for Computing Education
  - 6 CP Responsible Software Engineering
  - 6 CP Prototyping Interactive Application
  - 6 CP Algorithms for Parallel Computing

## 2nd Year - 4th Semester

- 6 CP Free Choice\*
- 24 CP Thesis\*\*\*

\* Students can freely advance or postpone the Free Choice credit points. They can be either lectures or Internships. You Tutor will guide you through the decision that better fits to your Study Plan.

\*\* Students can choose courses that foresee both exams with grades and pass/fail tests.

\*\*\* Starting from the second year the student can start with the Thesis Work.

## Study Plan - enrolled form 2024

### 1st Year - 1st Semester

- 12 CP Software Design and Implementation
  - 6 CP Requirements Engineering
  - 6 CP Advanced Software Design Techniques
- 6 CP Contemporary Software Development
- 6 CP Agile Software Development
- 6 CP Alternatives from Catalogue

### Catalogue for the 1st Semester

- 6 CP Software Maintenance and Evolution
- 6 CP Software Quality and Metrics
- 6 CP Parallel Computing

### 1st Year - 2nd Semester

- 6 CP Human Computer Interaction
- 12 CP Verification and Reliability
- 6 CP Software and Systems Security
- 6 CP Seminar in Software Engineering Advances
- 6 CP Cloud Computing and Distributed Systems

### 2nd Year - 3rd Semester

- 6 CP Research Methods and Technology Transfer
- 12 CP Free Choice Courses
- 6 CP Internship

### Catalogue for the 3rd Semester

- 6 CP Large Language Models and Information Retrieval
- 6 CP Programming for Data Science
- 6 CP Data Visualization and Exploration
- 6 CP Entrepreneurial Software Engineering

### 2nd Year - 4th Semester

- 30 CP Thesis

## Exchange programmes and internships

Currently we offer exchange programmes with partner universities all over the world and we are part of a large network of collaboration with employers in Italy and abroad where you can undertake an **optional internship** with a maximum of 300 hours.

## Career Opportunities

Typical job profiles are **Software Engineer**: Analysis, design, implementation, customisation, overhaul, and maintenance of intelligent solutions with high reliability and performance , by fully exploiting inventions and software technologies for pragmatic application and rapid commercialisation, in real time and on a large scale. Such software systems include: ICT, business, industrial automotive, automation and control, scientific and data processing, the management of complex infrastructures, cyber-physical systems;

On the website of **AlmaLaurea** you can check our outstanding statistical **data about the satisfaction of our graduates**, and their employability.



## Master in Software Engineering

2026/27

### 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.

Subject to accreditation of the Ministry.

### 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 - 08/07/2026 (by noon local time)

Language exams (online): 22 - 26/06/2026 (registration: 28/05 - 15/06/2026)

Publication of ranking lists: by 30/07/2026

Payment of the 1st instalment of the tuition fees: by 06/08/2026 (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

Intensive language courses: 01 - 18/09/2026 (Monday to Friday, 6 h/day)

Mathematics pre-course: 21/09 - 09/10/2026

Freshers Days: 28 - 29/09/2026

#### 1st semester

Classes: 28/09 - 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: 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: 10

Non-EU citizens (living abroad)  
Early Bird Application: 30

## Entry requirements

In order to gain admission, you need one of the following admission titles:

- a bachelor degree in Computer Science (class L-31) or Information Engineering (class L-08) or an equivalent qualification according to the previous regulations obtained in Italy, or an equivalent qualification obtained abroad (for example: Computer Science, Software Engineering, Business Informatics, Information Engineering);

Or alternatively

- a bachelor's degree in any discipline, together with following curricular requirements obtained through bachelor's degrees, master's degrees, or single subject courses:
  - at least 12 ECTS in
    - INFO-01/A (ex INF/01) - Computer Science
    - IINF-05/A (ex ING-INF/05) - Information Engineering
  - at least 6 ECTS in
    - MATH-01/A (ex MAT/01) - Mathematical logic
    - MATH-03/A (ex MAT/05) - Mathematical Analysis
    - MATH-05/A (ex MAT/08) - Numerical Analysis
- at least another 12 ECTS in the sectors above.

For candidates with a qualification obtained abroad the verification of the curricular requirements is based on the specific contents of the educational activities.

Candidates must have an average mark of at least **24/30**.

Candidates below this average mark must pass an evaluation of their curriculum vitae regarding their work experience in Software Engineering, Computer Engineering and Applied Computer Science.

Candidates who do not achieve a satisfactory result in the curriculum vitae evaluation process are required to undertake an online interview in English. During this interview, applicants will be expected to demonstrate their knowledge of topics such as programming concepts and software engineering.

- **Interviews for the Early Bird Application:** to be defined
- **Interviews for the Late Application:** to be defined

If this is your case, **you will receive an email inviting you to an online interview.** Please keep an eye on your email after the application deadline.

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

You can apply if you have acquired at least 120 credit points (ECTS). In this case you will be admitted conditionally. You will have to submit your diploma by the enrolment deadline.

**If you graduate 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. In this case you should not pay the tuition fees to secure your admission. You will be able to submit a late enrolment request and, only if there still are available places, you can enrol by 12 December 2025.

To be admitted you must fulfil the language requirements indicated in the section “Language requirements”.

According to national regulations, simultaneous enrolment in a maximum of 2 programmes is possible (however, the two programmes must not belong to the same class, e.g., LM-18/LM-18 and must differ for at least 2/3 of the course contents).

## 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

The admission procedure is based on the evaluation of your study career

### Information on your study career:

- Please download the excel file and the PDF with the example of a filled in file from the application portal. Fill in both the worksheets in the excel file (tab "Admission title" and tab "Other university courses") and upload it in the portal as an excel file.
- If you graduated in Italy, you must self-declare the exams passed, otherwise you will be excluded.  
If you graduated abroad, you must upload your academic transcript, otherwise you will be excluded.
- If you want to strengthen your application through a Curriculum Vitae, upload it as a PDF in the portal under "Curriculum vitae"
- To be admitted you must also certify adequate language skills in English (see section "Language requirements").

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

### The evaluation criteria are:

- the admission title is scored up to 10 points based on the grade average obtained at the time of application;
- the score awarded for the study curriculum is weighed on the basis of the "Webometrics Ranking of World Universities", proceeding as follows: 3 points for universities in position

from 1 to 1000 in the ranking; 2 points for universities in position from 1001 to 2000; 1 point for universities in position from 2001 to 3000 in the ranking; 0 points for universities in position from 3001 onwards;

- Curricular requirements contribute to the formation the score in the following way:  
ECTS in computer science = scientific-disciplinary sectors INF/01, INGINF/05 and/or mathematics = scientific-disciplinary sectors MAT/01, MAT/05 or MAT/08:
  - 3 points for more than 120 ECTS
  - 2 points for 81-120 ECTS
  - 1 point for 41-80 ECTS
  - 0 points for less than 40 ECTS
- the Curriculum Vitae is scored up to 4 points based on the relevance of the listed experiences.
- the certificate of English language proficiency (B2) does not give a score but is an admission prerequisite.

The maximum score achievable is 20 points. Candidates are admitted to the programme if they exceed the minimum threshold of 8 points.

### Ranking lists

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

## Secure your study place 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