

Study Manifesto

# MASTER IN COMPUTER SCIENCE

subject to approval of the MIUR referred to DM 1059/2013

2015/2016 academic year

## Course outline

|                            |  |
|----------------------------|--|
| Faculty                    | Computer Science (site Bolzano/Bozen)  |
| Degree class               | LM-18 (Ministerial Decree n. 270/2004)   |
| Length                     | 2 years  |
| Credit points              | 120 (based on the European Credit Transfer System)   |
| Languages used in teaching | English  |
| Admission title            | Three-year undergraduate degree (bachelor) or university diploma of the previous Italian higher education system or any equivalent foreign qualification |
| Language requirements      | Knowledge of English   |
| Study places               | 35 EU + 25 Non EU  |
| Admission procedure        | Previous studies evaluation and motivation letter  |
| Deadline for application   | 1st Session: 30th April 2015<br>2nd Session: 24th July 2015  |
| Deadline for enrolment     | 15th October 2015  |
| Tuition fees               | 1343,50 Euro per year  |
| Begin of language courses  | 14th September 2015  |
| Classes start              | 5th October 2015   |

subject to change

# THE MASTER PROGRAMME

## Master in Computer Science

Master class: LM-18

Our two-year Master's programme produces graduates who have a thorough knowledge of the fundamental fields of computer science, of the structures and the use of computer systems, and of the scientific research methods. Graduates understand and use the tools of discrete and continuous mathematics and of applied mathematics and physics, and have an in-depth knowledge of the foundations, techniques and methods for the design and development of information systems. Students may participate in an European Master's programme to achieve a joint degree with one of our European partner universities.

### Subjects taught

- Curriculum in Data and Knowledge Engineering: Advanced Database Management Technologies, Data and Process Modeling, Data Mining, Information Search and Retrieval, Semantic Technologies, Data and Knowledge Engineering, Theory of Computing.
- Curriculum in Software Engineering and IT Management: IT and Service Management, Requirements and Design of Software Systems, Software Process Management, Software and IT Engineering, Software Reliability and Testing, Systems Engineering.
- Common lectures: Advanced Internet Technologies, Human Machine Interaction, Research Methods, Statistics, Technical and Scientific Communication. Also offered are several optional Courses.

### Career opportunities

Graduates' skills and knowledge enable them to work in areas that require competence in:

- the analysis, formalization and design of software systems for the solution of complex problems in various application areas, such as industry, services, environment, health, heritage and public administration;
- the development and maintenance of high quality information systems and computer networks, also in critical areas;
- research and innovation in industrial, public and academic laboratories.

### Languages used in teaching

The language in all the lectures in the Master in Computer Science is English.

### Fixed intake

The available study places for the academic year 2015/2016 are:

|                         | EU citizens<br>(and citizens given parity of<br>treatment) | non-EU citizens<br>(resident abroad) |
|-------------------------|--|--------------------------------------|
| 1 <sup>st</sup> session | 25   | 25                                   |
| 2 <sup>nd</sup> session | 10   | 0                                    |
| <b>Total</b>            | <b>35</b>  | <b>25</b>                            |

## ADMISSION REQUIREMENTS

You are eligible to enrol for the Master if you possess one of the following qualifications:

- an Italian bachelor degree ("diploma di laurea") in Computer Science (Scienze e tecnologie informatiche, classe L-31), Information Engineering (Ingegneria dell'informazione, classe L-08), Physics (Scienze e tecnologie fisiche, classe L-30) or Mathematics (Scienze matematiche, classe L-36)
- an equivalent Italian degree obtained according to the regulations previously in force
- other degrees in the field of Computer Science awarded in Italy or abroad and recognized as suitable
- other degrees in the field of Physics or Mathematics awarded abroad and recognized as suitable.

If you do not possess the required degree at the moment of application, you can apply if you have earned **at least 130 credit points (ECTS)**.

You must also have adequate knowledge of English and adequate general and specific competence. These requirements must be uploaded in the application portal.

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).

## LANGUAGE REQUIREMENTS FOR ADMISSION

You must have adequate knowledge of **English**: proof of it must be uploaded in the application portal.

## 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. Prospective students excluded in the first session can apply again in the second.

| Deadlines               | Begin         | End (term of exclusion)     |
|-------------------------|---------------|-----------------------------|
| 1 <sup>st</sup> Session | 10 March 2015 | 30 April 2015, 12:00 midday |
| 2 <sup>nd</sup> Session | 4 May 2015    | 24 July 2015, 12:00 midday  |

### ATTACHMENTS

You should upload the required attachments 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 presented 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);
- 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 gained in Austria or Germany);
- the declaration of equivalent value of the applicants qualification: those not yet in possession of the declaration can upload it upon enrolment at the very latest;  
EU citizens and citizens given parity of treatment can, as an alternative, upload 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 (f.e. declaration of equivalent value)

- the valid permit to stay for Italy (only for non EU-citizens legally resident in Italy) – see below.

### The declaration of equivalent value

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 decree no. 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/studenti stranieri/>) 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 must go through a selection procedure in order to access the course.

The criteria for the evaluation are:

- max 10 points can be attributed to the study curriculum evaluation, considering the mark average gained by the applicant upon application
- the English knowledge certification does not add further points, but is required for the student's admission
- the personal statement does not add further points, but is relevant in case of ex-aequo.

In the application portal, you shall upload:

### 1. *Study Curriculum*

The following data must be included, subject to the exclusion from the admission ranking list:

- Name of the completed bachelor degree programme;
- University awarding the qualification;
- Enrolment date;
- Legal duration of the degree programme;
- Indication of the grade scale or scales (maximum, minimum, minimum pass grade);
- Average grade obtained;
- Indication of the value of one credit point in hours, or its equivalence to ECTS credit points;
- Details of the degree programme, with an indication of:
  - name of each course in the original language and English translation;
  - credit points of each course;
  - grade obtained at the exam.

**NB:** The lack of adequate information on the amount of credit points of a course will result in the Selection Committee not considering in any way the course in the evaluation of the applicant and in the computation of the points assigned to the applicant.

If the study curriculum refers to a title gained in a country other than Italy, it has to be certified by an academic transcript of exams from the University awarding the qualification. Applicants with titles gained in Italy must on the contrary self-declare the exams passed.

**NB: The data must be entered in the excel sheet "Study Curriculum table" (downloadable from [www.unibz.it/en/inf/progs/mcs/admission/Pre\\_Enrolement\\_Master.html](http://www.unibz.it/en/inf/progs/mcs/admission/Pre_Enrolement_Master.html)) and the file has to be uploaded through the application portal.**

### 2. *Evidence of knowledge of English*

If you attended a university degree programme in English, you do not have to submit additional documentation. Conversely, you must enclose one of the following documents:

- an international language certificate that appears on the list of the Language Centre of the Free University of Bozen - Bolzano (the validity of the certificate is assessed by the Language Centre);
- proof of attendance of a university degree programme with at least 30% of lectures held in English;
- proof of attendance of a high school in English, or of a high school having English amongst its subjects;
- any other documentation certifying the applicant's language knowledge. Validity will be assessed case by case by the Selection Committee.

It is under your responsibility to provide appropriate certification for the knowledge of English. The commission reserves the right to verify your knowledge of English by a language test before the publication of the admission ranking list.

### 3. *Personal statement letter*

A letter of no more than 3000 characters with spaces, written in English, in which you explain why you would like to enrol on this degree programme

#### **ADMISSION RANKING LISTS**

The Selection Committee will only evaluate the documentation presented 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 [www.unibz.it](http://www.unibz.it) and are only valid for the academic year for which they have been drawn up. Publication:

For the first application session, likely by 20 May 2015.

For the second application session, likely by 13 August 2015.

If you are high up enough on the ranking list to be admitted for one degree course 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 ([student.secretariat@unibz.it](mailto:student.secretariat@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: <http://www.unibz.it/en/prospective/apply/default.html>

## **CONFIRMATION OF STUDY PLACE AND ENROLMENT**

If you are high up enough on the ranking lists to be admitted for more than one degree course, you can only enrol for one of those courses. Once you have enrolled for this course, you lose the right to enrol for another course or to move up in the ranking lists of other courses.

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 I Session  | <b>28 May 2015</b>    |
| Deadline for applicants of the II Session | <b>28 August 2015</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 2nd 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 but you do not enrol, there will be no refund of the university fees unless you do not pass your university final exam or, 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.**

| <b>Deadlines</b>                              | <b>Begin</b> | <b>End</b>                           |
|---|--------------|--------------------------------------|
| for applicants of the 1 <sup>st</sup> session | 20 July      | <b>15 October 2015, 12:00 midday</b> |
| for applicants of the 2 <sup>nd</sup> session | 13 August    | <b>15 October 2015, 12:00 midday</b> |

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

If you don't respect the deadline for enrolment, you will lose your study place, which will be offered to the subsequent 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 the German-speaking area)</li> </ul>   |
| <ul style="list-style-type: none"> <li>• declaration of equivalent value of the applicants qualification;<br/>EU citizens and citizens given parity of treatment can, as an alternative, upload 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> <p>In case of doubt, unibz reserves the right to request further documents.</p> |

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

|   |
|---|
| <b>If you are a non-EU citizen resident abroad:</b>   |
| <p>If you are able to be admitted to the admission procedure of the course you applied for (check the admission ranklists), the Italian Authorities in your own country will issue you with the entry visa for studies/university: this will allow you to arrive in Italy to sit the Italian-language test (for undergraduate degrees), 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> |

**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 2015/2016 academic year amount to **1.343,50 €** and are to be paid by bank transfer.

| <b>Deadlines for payment</b>                  | <b>1<sup>st</sup> instalment (743,50€)*</b> | <b>2<sup>nd</sup> instalment (600 €)</b> |
|---|---|--|
| for applicants of the 1 <sup>st</sup> session | by 28 May 2015                              | by 31 March 2016                         |
| for applicants of the 2 <sup>nd</sup> session | by 28 August 2015                           | by 31 March 2016                         |

\* 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.

Entitled to receive a refund of the tuition fees are those students who benefit from a scholarship granted by the Autonomous Province of Bozen - Bolzano (see below).

## RECOGNITION OF CREDIT POINTS

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

You can submit the application to the Faculty, together with all required documents, within the deadline established by the Faculty itself. No applications will be accepted after the deadline. The application is available at the link <http://www.unibz.it/en/students/studycareer/examrec/default.html>

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

## 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 Bolzano and 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

If you have a disability or a learning disorder, the Advisory Service will provide support throughout your time with us at the University.

If you need advice or information about access to and movement around the premises, or about the benefits and opportunities available to students with disabilities, please contact the Advisory Service before you submit your application and in any case at least one month before any admission exams that you have to do. Only in this way can we guarantee any necessary assistance so that you can sit the admission exams without difficulty.

If you wish for allowances to be made in the admission procedure, please get in touch with the Advisory Service in a timely manner and no later than the application deadline. You need to submit a certificate of disability or 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](tel:+390471012109)). Students with learning disabilities are entitled to receive 30% extra time for written entrance examinations in accordance with Italian law no. 170/2010.

The certification provided must have been issued by an institution recognized by your national health service and the diagnosis submitted cannot be accepted if it is more than 3 years old.

Information concerning exemptions from paying university fees can be found in the paragraph entitled "Tuition Fees".

Other forms of support are offered by the School and University Welfare Office of the Autonomous Province of South Tyrol (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 South Tyrol (Amt für Hochschulförderung - Ufficio per il Diritto allo Studio universitario) must be contacted for:

- **Accommodation:** you can apply from Tuesday, **14 April 2015**. 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.

## CURRICULA

Students specialise by choosing one curriculum within one month after the enrolment. After that date, changes of curriculum can be made with the approval of the Degree Programme Committee.

Each student may submit a well-motivated individual study plan; students participating in programmes involving multiple universities (such as the European Master programmes) must always submit an individual study plan. Individual study plans are subject to the scrutiny and approval of the Degree Programme Committee.

### Curriculum “Data and Knowledge Engineering”

This curriculum prepares researchers, developers and new entrepreneurs who will be able to use computers for developing new and effective solutions to a range of computation problems. Students will learn to understand, design and develop web-based, mobile, distributed and cooperative information systems leveraging large data and knowledge repositories.

| 1st year                                   |           |               |
|--|-----------|---------------|
| Courses                                    | Exam      | Credit Points |
| <b>1st Semester</b>                        |           |               |
| Advanced Database Management Technologies  | yes       | 8             |
| Data Mining                                | yes       | 8             |
| Theory of Computing                        | yes       | 8             |
| Statistical Methods                        | pass/fail | 4             |
| Seminars in Human Machine Interaction      | pass/fail | 4             |
| <b>2nd Semester</b>                        |           |               |
| Advanced Internet Technologies             | yes       | 8             |
| Data and Process Modeling                  | yes       | 8             |
| Information Search and Retrieval           | yes       | 8             |
| Technical and Scientific Communication     | pass/fail | 4             |
| 2nd year                                   |           |               |
| Courses                                    | Exam      | Credit Points |
| <b>3rd Semester</b>                        |           |               |
| Semantic Technologies                      | yes       | 8             |
| Seminars in Data and Knowledge Engineering | yes       | 4             |
| Research Methods                           | pass/fail | 2             |
| Compulsory Optional Course                 | yes       | 8             |
| Free Choice*                               | **        | 8             |
| <b>4th Semester</b>                        |           |               |
| Thesis                                     | Degree    | 30            |

\* students can advance or postpone Free Choice credit points freely

\*\* students can choose courses with a final exam or courses with a pass/fail test

### Curriculum “Software Engineering and IT Management”

This curriculum prepares professionals and researchers who will be able to develop, plan and manage complex and distributed software systems, services, and technological infrastructures of various complexity, quality and cost in real application contexts.

| 1st year                                    |           |               |
|---|-----------|---------------|
| Courses                                     | Exam      | Credit Points |
| <b>1st Semester</b>                         |           |               |
| IT and Service Management                   | yes       | 8             |
| Requirements and Design of Software Systems | yes       | 8             |
| Software Process Management                 | yes       | 8             |
| Seminars in Human Machine Interaction       | pass/fail | 4             |
| Statistical Methods                         | pass/fail | 4             |
| <b>2nd Semester</b>                         |           |               |
| Advanced Internet Technologies              | yes       | 8             |
| Software Reliability and Testing            | yes       | 8             |



|   |             |                      |
|---|-------------|----------------------|
| System Security                         | yes         | 8                    |
| Technical and Scientific Communication  | pass/fail   | 4                    |
| <b>2nd year</b>                         |             |                      |
| <b>Courses</b>                          | <b>Exam</b> | <b>Credit Points</b> |
| <b>3rd Semester</b>                     |             |                      |
| Mobile Systems Engineering              | yes         | 8                    |
| Seminars in Software and IT Engineering | yes         | 4                    |
| Research Methods                        | pass/fail   | 2                    |
| Compulsory Optional Course              | yes         | 8                    |
| Free Choice*                            | **          | 8                    |
| <b>4th Semester</b>                     |             |                      |
| Thesis                                  | Degree      | 30                   |

\* students can advance or postpone Free Choice credit points freely

\*\* students can choose both courses with a final exam or courses with a pass/fail test

### Compulsory Optional Courses

Compulsory optional courses offer students the opportunity to further develop their knowledge in a specific area. They must be chosen from the catalogue decided yearly by the Faculty.

The compulsory optional courses for the academic year 2015/2016 are:

|   |             |                      |
|---|-------------|----------------------|
| <b>2nd year</b>                             |             |                      |
| <b>Courses</b>                              | <b>Exam</b> | <b>Credit Points</b> |
| <b>1st Semester</b>                         |             |                      |
| Advanced Database Management Technologies   | yes         | 8                    |
| Data Mining                                 | yes         | 8                    |
| Empirical Software Measurements             | yes         | 8                    |
| IT and Service Management                   | yes         | 8                    |
| Lean Start Up                               | yes         | 8                    |
| Requirements and Design of Software Systems | yes         | 8                    |
| Semantic Technologies                       | yes         | 8                    |
| Software Factory                            | yes         | 8                    |
| Software Process Management                 | yes         | 8                    |
| Temporal and Spatial Databases              | yes         | 8                    |

## EUROPEAN MASTER PROGRAMMES

With the European Master programmes the European Union has taken on the challenges created by globalization, encouraging the creation and promotion of European integrated study programmes whose aims are to:

- promote quality in the higher education sector in Europe increasing its appeal within and beyond the EU borders;
- encourage outstanding graduates and scholars from all over the world to acquire qualifications and experience in the EU;
- develop a structured co-operation network between the EU and third-country institutions, increasing mobility from the EU to other countries;
- improve accessibility to and provide greater visibility for Europe's higher-education institutions.

The European Masters Programmes are different to normal Master courses in three ways:

- they are offered by European universities internationally recognized as state-of-the-art research centres in the sector of the Master's specialization;
- students enrol, study and graduate in at least two European universities;
- students receive either a double or joint degree from two or more European universities.

The Faculty of Computer Science is amongst the research centres recognized by the European Union as a leader in these programmes from its start. Our programmes have been granted by the European Commission with the Erasmus Mundus Brand Name (EMBN), attesting their level of excellence in Europe.

These programmes offer scholarships for European and third-country students.

### **European Master in Computational Logic**

This is an independent international Master's Degree.

The Partner Universities awarding a joint degree together with unibz within this programme are:

- Technische Universität Wien, Austria
- Technische Universität Dresden, Germany
- Universidade Nova de Lisboa, Portugal

The Consortium manages the selection and admission procedures jointly, and awards a joint degree at the completion of studies.

For further information on admission and study plan see <http://www.unibz.it/en/inf/progs/emcl.html> or contact the Administration of the Faculty of Computer Science.

## **TEACHING AND LEARNING ACTIVITIES**

Various kinds of teaching and learning activities will, in different ways, confer practical and theoretical knowledge:

- **Lecture:** regular meeting with the students where the lecturer explains the theoretical part of the course syllabus.
- **Exercise:** regular meeting with the students that complements the lecture; during exercises the course syllabus is reworked and/or the student independently applies the theoretical knowledge under the supervision of the lecturer.
- **Lab:** regular meeting with the students that complements the lecture; during labs the student independently develops a software product by immediately applying the theoretical knowledge under the supervision of the lecturer.
- **Seminar:** presentation in the form of a seminar where advanced topics are discussed and comprehension, communication and team work skills are developed; the presentation is given by the lecturer, or experts of the area or by the participating students, who deepen a specific topic proposed by the lecturer.
- **Projects:** activity where the students independently develop a scientific research and development activity under supervision of a lecturer and within the research activities carried out in the Faculty; the focus is set in particular on planning, communication and teamwork skills.

### **Dissertation and graduation examination**

The graduation examination for attaining the Master in Computer Science consists in the public discussion of an original dissertation (= thesis) written by the student under the guidance of a supervisor. This dissertation is either produced at the conclusion of a period of research or regards the planning of a project or a case analysis, and must show original thinking, mastery of the subjects under discussion, the capacity for independent work, and good communicative skills.

For further information, please refer to the Study Regulations of the Faculty of Computer Science.

# 2015/16 ACADEMIC CALENDAR

## 1st session

|  |                     |
|--|---------------------|
| Application  | 10.03. - 30.04.2015 |
| Selection procedure and publication of ranking lists | by 20.05.2015       |
| Payment of the 1st instalment of the fees            | by 28.05.2015       |
| Enrolment  | 20.07. - 15.10.2015 |

## 2nd session

|  |                     |
|--|---------------------|
| Application  | 04.05. - 24.07.2015 |
| Selection procedure and publication of ranking lists | by 13.08.2015       |
| Payment of the 1st instalment of the fees            | by 28.08.2015       |
| Enrolment  | 13.08. - 15.10.2015 |

## 1st semester

|                    |                     |
|--------------------|---------------------|
| Classes            | 05.10. - 23.12.15   |
| Christmas holidays | 24.12.15 - 06.01.16 |
| Classes            | 07.01. - 23.01.16   |
| Exams              | 25.01. - 20.02.16   |

## 2nd semester

|                 |                   |
|-----------------|-------------------|
| Classes         | 29.02. - 24.03.16 |
| Easter holidays | 25.03. - 28.03.16 |
| Classes         | 29.03. - 18.06.16 |
| Exams           | 20.06. - 16.07.16 |

## Autumn Session

|       |                   |
|-------|-------------------|
| Exams | 29.08. - 30.09.16 |
|-------|-------------------|

## FOR FURTHER INFORMATION:

| WHO?   | WHAT?  | WHERE?  | WHEN?  |
|--|--|---|--|
| Advisory Service<br>Tel. +39 0471 012 100<br><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><br>Universitätsplatz/Piazza Università 1<br>Building A – 1 <sup>st</sup> floor<br>Office A1.01 Infopoint                   | Tue + Thu<br>14:00 - 16:00<br><br>Wed + Fri<br>10:00 - 12:30                       |
|  |  | <b>At Brixen/Bressanone:</b><br>Regensburger Allee/Viale Ratisbona, 16<br>2 <sup>nd</sup> floor<br>Office 2.12                                      | Thu<br>14:00 - 16:00 and by appointment  |
| Student Secretariat<br>Tel. +39 0471 012 200<br><a href="mailto:student.secretariat@unibz.it">student.secretariat@unibz.it</a>   | Online application, enrolment, tuition fees  | Bozen/Bolzano<br>Universitätsplatz/Piazza Università 1<br>Building B – 1 <sup>st</sup> floor<br>Office B1.10  | Mon + Wed + Fri<br>09:00 - 12:00<br><br>Tue + Thu<br>14:00 - 16:00                 |
| Faculty of Computer Science<br>Tel. +39 0471 016 004<br>/016 005 / 016 010<br><a href="mailto:cs-teaching-organisation@unibz.it">cs-teaching-organisation@unibz.it</a>   | Admission procedure, ranking lists, didactics  | Bozen/Bolzano<br>Dominikanerplatz/Piazza Domenicani 3<br>1 <sup>st</sup> floor<br>Office 1.03<br>Left wing  | Mon + Wed<br>10:00 - 12:00<br><br>Tue + Thu<br>14:00 - 16:00                       |
| Language Centre<br>Tel. +39 0471 012 400<br><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><br>Universitätsplatz/Piazza Università 1<br>Building A – 1 <sup>st</sup> floor<br>Office A1.01 Infopoint                   | Tue + Thu<br>14:00 - 16:00<br><br>Wed + Fri<br>10:00 - 12:30                       |
|  |  | <b>At Brixen/Bressanone:</b><br>Regensburger Allee/ Viale Ratisbona, 16<br>2 <sup>nd</sup> floor<br>Office 2.12                                     | Thu<br>10:00 - 12:00<br>(from October to April)                                    |
| Amt für Hochschulförderung / Ufficio per il Diritto allo Studio universitario<br>Office for School and University Assistance<br>Tel. +39 0471 412 941/ 412 927<br><a href="mailto:hochschulfoerderung@provinz.bz.it">hochschulfoerderung@provinz.bz.it</a> | Grants, accommodation in student halls   | Bozen/Bolzano<br>Andreas-Hofer-Straße/Via Andreas Hofer, 18<br>2 <sup>nd</sup> floor<br>Office 209, 213, 216 (Grants)<br>Office 214 (Student halls) | Mon + Tue + Wed + Fri<br>09:00 - 12:00<br><br>Thu<br>08:30 - 13:00 / 14:00 - 17:30 |
| <b>South Tyrolean student association (sh.asus)</b><br>Tel. +39 0471 974 614<br><a href="mailto:bz@asus.sh">bz@asus.sh</a>   | General information, support in filling out the application forms for grants   | Bozen/Bolzano<br>Kapuzinergasse/Via dei Cappuccini 2<br>Ground floor  | Mon - Thu<br>09:00 - 12:30 / 14:00 - 17:00<br><br>Fri<br>09:00 - 12:30             |