



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

REGOLAMENTO DIDATTICO DEL CORSO DI LAUREA MAGISTRALE
MASTER DEGREE PROGRAMME TEACHING REGULATIONS

Interclasse – Double class LM-18/LM-32
INGEGNERIA E SCIENZE INFORMATICHE
COMPUTER SCIENCE AND ENGINEERING

Sede di CESENA

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ART. 1 ADMISSION REQUIREMENTS

In order to successfully attend the Master Degree Programme in Computer Science and Engineering, the following knowledge requirements are needed:

- University-level knowledge of mathematics and physics (SSD MAT/01 – MAT/09, FIS/01 – FIS/03),
- University-level knowledge of computer science (SSD INF/01, ING-INF/05),
- English language knowledge, at least B1 level of Common European Framework of Reference for Languages.

Moreover, the following curricular requirements are needed:

-First cycle degree/Bachelor in one of the following fields or another suitable qualification obtained abroad:

ex D.M. 270 (Ministerial Decree no. 270, Italian national law):

L-31: Computer Science technologies

L-8: Computer Engineering

ex D.M. 509/99:

L-26: Computer Science and technologies

L-9: Computer Engineering

Or

-In case of a 4- or 5-year Degree Programme system, first cycle degree/Bachelor in one of the following fields :

Information Technology

Computing

Computer Engineering

Electronic Engineering

Telecommunications Engineering

If the student has not obtained one of the degrees listed above, access to the Master Degree Programme is allowed exclusively to candidates who will demonstrate the required knowledge and skills.

Those requirements will be assessed by an Examination Board through the analysis of the candidate's resume as well as an interview. Criteria and procedures will be published on the University's website after being set by the Degree Programme Board.

In any case, admission to the Programme is in any case conditional not only on the aforementioned requirements, but also on an adequate personal knowledge. Knowledge will be assessed through the analysis of the candidate's resume, that might be followed by an interview. Criteria and procedures will be published on the University's website after being set by the Degree Programme Board.

English language skills and proficiency shall be assessed before admission. Students that are assessed with a level that is lower than B1 might be asked to fill their initial language gap.

Intelligent Embedded Systems Curriculum

The "Intelligent Embedded Systems" curriculum has restricted access. The maximum number of available positions is established by the Department of Computer Science and Engineering on a yearly basis. Information about the selection process, deadlines and the Admission Board will be published in a call for application that will be available on the Degree Programme's website.

The Admission Board will assess the personal knowledge of candidates through the analysis of the documents submitted and, possibly, through an interview.

The candidates will also need to demonstrate an English language proficiency no lower than B2 in the Common European Framework for Languages.

Students holding a valid English language certificate (such as TOEFL, IELTS, Cambridge Esol...) with B2

or higher level will be exempted from the English language assessment.

Students who do not submit any English language certificate, will be assessed on their language knowledge during the above described interview by the Admission Board.

Within the Intelligent Embedded Systems curriculum, the "EIT Digital Master school track" is available. This track has been created by means of an agreement with the EIT Digital Master School.

Students wishing to take part in this specific track must apply directly to the EIT Digital Master School. Instructions are available on the EIT website (<https://masterschool.eitdigital.eu/>) as well as on the Degree Programme website.

Students enrolled in the "Intelligent Embedded Systems" curriculum for the "EIT track" will attend their second year of studies abroad, in one of the partner universities that the EIT Digital Master School would propose.

During the admission procedure, candidate will also have to satisfy the requirements needed by the partner university they will attend during their second year.

ART. 2 MOBILITY RULES BETWEEN DEGREE PROGRAMME CURRICULA

This Master Degree programme includes curricula.

Students can make their choice about their study plan in accordance with the modalities stated in the study plan, within the terms published on the University website.

It will be possible to transfer from the Intelligent Embedded Systems curriculum to the traditional one. Transfer from the traditional curriculum to the Intelligent Embedded Systems one will be allowed only if the admission requirements are satisfied and if vacant positions are still available.

In case of transferring to the track in cooperation with EIT, EIT Digital Master School approval will be needed.

Transfers between curricula are allowed only within the deadlines published on the University website.

ART. 3 INDIVIDUAL STUDY PLANS

Individual study plans are possible, in accordance with the criteria, the terms and modalities that are published on the University website.

However, individual study plans must comply with rules defined in the Degree Programme regulations, as well as with the guidelines established by the University governing Bodies.

If courses taught in restricted-access Degree Programmes are chosen and included in the study plan, access to these courses must be previously authorised by the Programme Board of those restricted-access Programmes, in compliance with the criteria those Boards established previously.

ART. 4 LEARNING ACTIVITIES MODALITIES AND TYPES OF TEACHING METHODS

The attached course structure diagram includes all the learning activities, their division into hours of classroom. The study plan also specifies types of teaching methods: lectures, practical exercises or internship.

Any further information will be published on the University website on a yearly basis.

ART. 5 ATTENDANCE AND COURSE UNIT PREREQUISITES

Details about the attendance methods (compulsory attendance or free attendance) are included in the attached course structure diagram, together with any needed prerequisites for each teaching unit. The methods for the compulsory attendance and any verification thereof are established on a yearly basis by the Degree programme Board during the submission of the course structure diagram. All these pieces of information are sent to students through publication on the University Webportal before the start of the classes.

ART. 6 FLEXIBLE CURRICULUM (PART-TIME STUDENT STATUS)

The student can opt for the part-time student status, that allows students to complete their studies in a time higher or lower than the normal duration (3 years for the Degrees and 2 years for the Master's Degrees) according to the modalities defined in the University Didactic Regulations.

If learning activities included in the study plan are cancelled, they can be replaced in order to guarantee the quality and sustainability of the Programme Catalogue.

Part-time student status is not possible for students of the Intelligent Embedded Systems curriculum directly managed by EIT Digital (EIT Digital Master School track).

ART. 7 ASSESSMENT OF LEARNING ACTIVITIES

The attached study plan indicates all cases in which the learning activities end with an exam. Exams can be marked with a score out of 30 or with simple “pass”/ ID (Italian acronym for “idoneo”: eligible). The assessment methods (oral, written or practical exam or any combination thereof; individual or group exams) are laid down annually by the Degree Programme Board during the presentation of the teaching planning phase. Students will be notified of these methods through the University Webportal before the beginning of the classes.

ART. 8 ELECTIVE LEARNING ACTIVITIES

The Degree Programme Board agrees to accept any course unit available in the University Programme Catalogue to be included in the students’ study plan as an elective course.

However, if students intend to include an undergraduate course unit (first cycle course unit), they will have to ask the Degree Programme Board for an authorisation through a motivation letter. Authorization must be sent within the terms established on a yearly basis and that are published on the University website.

The Degree Programme Board will evaluate coherence between the student’s request and his/her study plan.

If courses taught in restricted-access Degree Programmes are chosen and included in the study plan, access to these courses must be previously authorised by the Programme Board of those restricted-access Programmes, in compliance with the criteria those Boards established previously.

ART. 9 CRITERIA FOR THE RECOGNITION OF CREDITS ACQUIRED IN DEGREE PROGRAMMES BELONGING TO THE SAME CLASS (CLASSE DI LAUREA)

Credits acquired in a previous university career and more specifically in a programme belonging to the same “classe di laurea” (Degree programme categories that are valid for the Italian University/Higher education system) will be recognised by applying the following criteria: not less than half of the total amount of credits and up to the same amount of the credits belonging to the same SSD (Settore scientifico disciplinare, “subject group”). Recognition will be managed according to the programme system, complying with the “ambito scientifico disciplinare” (general topic of each course unit) and the course unit type – TAF “Tipologia delle attività formative”.

If some credits were left at the end of the recognition procedure, the Degree Programme Board could decide to recognise them by analysing the relevance of that credits to the teaching and cultural aspects of the degree programme.

If the Degree programme is not an Italian-taught one, recognition of credits will be possible only if the previous credits were obtained through course units that were taught in the same language the programme is taught.

ART. 10 CRITERIA FOR THE RECOGNITION OF CREDITS ACQUIRED WITHIN DEGREE PROGRAMMES IN DIFFERENT CLASSES, FROM ONLINE UNIVERSITIES OR FOREIGN UNIVERSITIES

The acquired credits are recognised by the Degree Programme Board according to the following criteria:

- analysis of the course unit contents
- assessment of the coherence between the subject group the course unit belongs to and the contents of the learning activities being part of the student’s previous career. During this assessment, the learning outcomes of the current study programme and the outcomes of the previous activities to be recognised are evaluated, too. Student mobility from one programme to another one is pursued as a goal in any case.

The credits are recognised up to the maximum number of university credits shown in the attached course structure diagram, complying with the subject groups and the type of each course unit.

If some credits were left at the end of the recognition procedure, the Degree Programme Board could

decide to recognise them by analysing the relevance of that credits to the teaching and cultural aspects of the degree programme.

If the Degree programme is not an Italian-taught one, recognition of credits will be possible only if the previous credits were obtained through course units that were taught in the same language the programme is taught.

ART. 11 CRITERIA FOR THE RECOGNITION OF EXTRA-UNIVERSITY EXPERIENCES AND SKILLS

Experiences not acquired during university career may be recognised in the following cases:

- professional knowledge and skills certified under the terms of the applicable current laws;
- experience and skills acquired in learning activities run or planned by the University, after high-school diploma.

The Degree programme Board will be in charge for this recognition. Recognition will be managed according to the information given by the University governing Bodies and the maximum limit of recognisable credits established in the programme system of the Degree Programme.

Credits of extra-university experiences and skills will be recognised if they are consistent with the specific learning outcomes of the Master Degree Programme and the learning outcomes of the course unit that would be chosen for the recognition (course unit must be included in the Course structure diagram of the Master Degree Programme). Content and time duration (hour-measure unit) will also be taken into account.

ART. 12 INTERNSHIPS

According to the Degree Programme structure, students will be able to do internships for the preparation of the final examination. Internships must comply with the “Regolamento generale Tirocini di Ateneo” (University general rules for internships) as well as the procedures linked to the Mobility international programmes.

ART. 13 FINAL EXAM METHODS

The final examination can be attended by the students who obtain all the necessary university credits except for the ones related to the final examination.

The final examination consists in presenting and defending a Master Programme Degree dissertation, that can be a project activity, an experimental research or a theoretical research.

In order to defend their dissertation, students will have to write a paper in an essay form. Contents must be authentic. Students will be supervised by a professor. Through this work, students must prove that they can work autonomously, that they can fully master the topics related to the information technology as well as their communication skills.

According to a general rule, the student would choose the topic for his/her dissertation among the subject groups (SSD) shown in the Degree Programme Teaching Regulations. The student will be supervised by a Professor being part of the teaching staff of the Master Degree Programme.

Any further details about the decision of the dissertation topic, the activities the student would do in order to carry out its dissertation work, as well as about the supervisor choice can be defined by the Degree Programme Board.

The dissertation shall be based on a topic that is consistent with the Programme learning outcomes. Students will defend their dissertation publicly, in front of the Dissertation Board, which will be appointed by the Degree Programme Board or a representative for the Board. The Dissertation Board will be appointed in compliance with the methods and the criteria included in the University Teaching Regulations.

Students enrolled in the Intelligent Embedded Systems curriculum – EIT track will have to manage their dissertation as well as its defence in the foreign partner university they would choose for their second year.

In accordance with the Italian Law “Decreto Ministeriale - DM 270/04”, article 12, paragraph no.3,

the Faculty-student joint Committee expressed its favourable opinion on the coherence between the credits established for each learning activity and its planned learning outcomes.