



DIPARTIMENTO DI INFORMATICA – SCIENZA E INGEGNERIA

DEGREE PROGRAMME TEACHING REGULATIONS
Second cycle degree/two year master in
COMPUTER SCIENCE AND ENGINEERING
(interclasse LM-I8/LM-32)
ACADEMIC YEAR 2023/24

Cesena Campus

ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

DIREZIONE E AMMINISTRAZIONE: MURA ANTEO ZAMBONI, 7- 40126 BOLOGNA - ITALIA - FAX: +39 051 20 94510
UOS DI CESENA: VIA DELL'UNIVERSITA' 50 – 47522 CESENA - FC



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Art.1 Admission Requirements

In order to successfully attend the Master's Degree in Computer Science and Engineering, the following knowledge and competences are required:

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

Admission to the program is subject to the possession of the following requirements:

- Having obtained a University degree in one of the following fields or another suitable qualification obtained abroad: ex D.M. 270:

L-31: Computer Science L-

8: Computer Engineering

ex. D.M. 509/99: L-26:

Computer Science

L-9: Computer Engineering

In case of old 4 or 5-year degree program:

Information Technology Degree

Computer Science Degree

Computer Engineering Degree

Electronic Engineering Degree

Telecommunications Engineering Degree

In case the student has not obtained one of the degrees listed above, access to the Master's Degree is allowed exclusively to those who will demonstrate the required knowledge and competences.

These will be assessed by a commission through the analysis of the candidate's resume and an interview whose criteria and modes will be published on the University's website after they are set by the Degree Programme Board.

Admission to the Programme is in any case conditional not only on the aforementioned requirements, but also on an adequate personal preparation that will be assessed through the analysis of the candidate's resume that might be followed by an interview whose criteria and modes will be published on the University's website after they are set by the Degree Programme Board.

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



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The Programme can plan an admission session specific for international students with a commission nominated to assess their personal preparation, subject to compatibility with the dates specified in the scholarships' call for applications (expected deadline around May).

International students who have successfully passed the assessment above, will be exempted from the subsequent assessment of personal preparation planned for all students.

Intelligent Embedded Systems Curriculum

The "Intelligent Embedded Systems" curriculum has restricted access and the maximum number of available positions is decided by the Department on a yearly basis. Selection process, deadlines and the admission committee will be specified in a call for applications that will be published in the degree programme's website. The Admission Committee will assess the personal preparation of candidates based on the documents submitted and, possibly, an interview.

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

The language requirement will be satisfied for students holding a valid English language certificate (such as TOEFL, IELTS, Cambridge Esol...) corresponding to a B2 or higher level.

If students do not submit an English language certification, the Admission Committee will assess the language requirement through the interview.

Within the Intelligent Embedded Systems curriculum there is a track in cooperation with the EIT Digital Master School.

Students wishing to take part in this specific track must apply directly to EIT Digital Master School, following the instruction available on the website (<https://masterschool.eitdigital.eu/>) and the degree programme website.

Students enrolled in the "Intelligent Embedded Systems" curriculum will attend their second year of studies abroad, in one of the partner universities offered by the EIT Digital Master School.

During the admission procedure, candidates have to satisfy also the requirements of the partner university where they will spend the second year.

Art.2 Individual Study Plans and mobility rules between curricula

Students have to choose from the courses available in the course structure diagram, following the methods indicated in the structure itself and in the terms published on the University website annually.

It is possible to transfer from the Intelligent Embedded Systems curriculum to the traditional one.

The transfer from the traditional curriculum to the Intelligent Embedded System one can only be allowed if the admission requirements are satisfied and there will be vacant positions.

In case of transferring to the track in cooperation with EIT, the transfer is subject to approval by EIT Digital Master School.

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

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Unless otherwise motivated by exceptional circumstances, individual study plans may not be presented. The motivated requests, presented within the deadlines determined annually by the School and published on the University website, shall be submitted individually to the Degree Programme Board, which shall assess the motivations and their admissibility.

If accepted, the Board will decide on the proposed individual study plan according to the following criteria:

- coherence with the learning outcomes of the study programme;
- the number of exams, course units and relative credits should not be lower than the corresponding number laid down in the official Course Structure Diagram.

Art. 3 Implementation of learning activities and types of teaching activities

The attached teaching plan indicates all the learning activities and their division into hours of classroom teaching, practical exercises or internship, as well as the type of teaching methods. Any further information will be published annually on the University website.

Art. 4 Attendance and preparatory activities

Compulsory attendance to the teaching activities is indicated in the attached teaching plan, together with any preparatory activities involved in the individual learning activities.

The methods of compulsory attendance and any verification thereof are laid down annually by the degree programme during the presentation of the teaching plan and are notified to the students via the University website prior to the start of the programme.

Art. 5 Flexible track

Students may choose the flexible track which allows to complete the degree in a longer or shorter period than the normal one (3 years for Bachelor's Degree and 2 years for a Master's Degree) with the methods defined in University regulations.

Teaching activities included in the programme that have to be discontinued or terminated, can be substituted in order to guarantee the quality and sustainability of the educational offer.

The flexible track option is not available for students enrolled in the Intelligent Embedded Systems curriculum – EIT track.

Art. 6 Assessment of learning activities

The attached teaching plan indicates all cases in which the learning activities end with an exam, marked with a score out of 30 or by simple "pass" in the case of having acquired the relative competencies.

The assessment methods (oral, written or practical exam or any combination thereof; individual or group exams) are laid down annually by the Degree Programme during the presentation of the teaching plan and notified to the students via the University website prior to start of the lectures.

Art. 7 Elective learning activities

Students may select one or more learning activities autonomously from among those identified by the Degree Programme Board and listed in the attached Course Structure Diagram.

Such learning activities are deemed to be coherent with the learning outcomes.

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In case a student wants to take an exam for a teaching activity not included among those identified by the Degree Programme Board, they may do so without obtaining the Board consent, only if the chosen activities are part of the study plan of another 2nd Cycle / Master's Degree of the University.

In case the student wants to take an exam for a teaching activity of a 1st Cycle / Bachelor's Degree, they shall request the authorization to the Degree Programme Board, attaching a letter with the motivations, within the deadlines set annually and notified via the University website.

The Board will assess the coherence of those teaching activities with the learning outcomes.

Art. 8 Criteria for the recognition of credits acquired in degree programmes in the same class

The acquired university credits are recognised up to the number of credits indicated for the same subject area laid down in the degree programme teaching regulations, in compliance with the relative subject area and the type of learning activities.

If, having recognised the credits according to the provisions of this regulation, there are unused residual credits, the Degree Programme Board may recognise them by assessing the specific case in coherence with the teaching and cultural affinities.

In addition, if there is a lack of credits in a specific subject area, the Degree Programme Board can organize one or more learning activities, identified by subject area or groups of similar areas, that the student shall attend in order to fulfil the lack of credits. The attendance methods for each activity will be decided by the Board.

As for degree programmes delivered in a language other than Italian, recognition refers to course units delivered or learning activities undertaken in that language.

Art. 9 Criteria for the recognition of credits acquired within degree programmes in different classes, from telematic universities or international degree programmes

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

- analysis of the course contents
- assessment of the coherence of the scientific-disciplinary fields and the contents of the learning activities in which the student has acquired the credits with the specific learning outcomes of the study programme and the individual learning activities to be recognised, in any case pursuing the aim of promoting student mobility.

The credits are recognised up to the maximum number of university credits provided for in the degree programme teaching regulations, considering the subject areas and the types of learning activities.

If, having recognised the credits according to the provisions of this regulation, there are unused residual credits, the Degree Programme Board may recognise them by assessing the specific case in coherence with the teaching and cultural affinities.

In addition, if there is a lack of credits in a specific subject area, the Degree Programme Board can organize one or more learning activities, identified by subject area or groups of similar areas, that the student shall attend in order to fulfil the lack of credits. The attendance methods for each activity will be decided by the Board.



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As for degree programmes delivered in a language other than Italian, recognition refers to course units delivered or learning activities undertaken in that language.

Art. 10 Criteria for the recognition of extra-university competencies and skills

Competencies acquired outside of the university may be recognised in the following cases:

- ✦ professional knowledge and skills certified under the terms of the applicable laws;
- ✦ competences and skills acquired in post-graduate learning activities run or planned by the University.

The request for recognition shall be assessed by the Degree Programme Board considering the indications of the academic bodies and the maximum number of recognisable credits laid down in the Degree Programme Teaching Regulations.

This recognition is subject to the activities being coherent with the specific learning outcomes of the degree programme and the learning activities to be recognised, also in consideration of the contents and duration in hours of the implemented activity.

Art. 11 Internships for the preparation of the final examination or linked to a project aiming to develop learning and academic skills

At the request of the student, the Degree Programme may, following the procedures laid down in the University Regulations concerning internships and international mobility programmes, and in compliance with EU laws, authorise an internship for the purposes of the final examination or preparing the dissertation or in any case linked to a project aiming to develop learning and academic skills.

These learning experiences shall not exceed 12 months, and shall be completed by the date of graduation; learning credits may be awarded:

- within the quota for the final examination;
- for the internship activities laid down in the course structure diagram;
- for elective activities which can take the form of an internship;
- for additional activities, the credits for which exceed the number required for graduation.

Art. 12 Final examination

The final examination can be attended by students that have attained all the necessary university credits but the ones related to the final examination.

The final examination consists in the presentation and discussion of a Master's Degree thesis that has to represent a significant design activity or experimental/theoretical research.

The thesis discussion consists in the presentation of an original dissertation originally produced by the student, under the guidance of a supervising professor.

The dissertation must demonstrate the students' ability to work autonomously, command of the IT instruments and strong communication skills.

The student, as a general rule, chooses the topic for the thesis among the sectors (SSD) laid down in the Degree Programme Teaching Regulations and agrees its development with a supervising professor, who generally is a professor of the programme.



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Additional details regarding the choice of the thesis' topic, the related activities and the choice of the supervisor professor might be specified by the Degree Programme Board.

The dissertation shall be based on a topic that is consistent with the programme objectives.

The thesis discussion is public and will be held in front of the Thesis Commission, nominated by the Degree Program Board or its representative, with the methods and composition laid down in the University Regulations.

Students enrolled in the Intelligent Embedded Systems curriculum – EIT track will prepare their thesis entirely in the partner university where they will attend the second year.

Art. 13 Correspondence between the credits assigned to each learning activity and the planned learning outcomes

On 02/20/2012, 01/15/2014, 12/03/2015, 11/26/2020, 11/29/2021 and 02/12/2022, the Joint Teacher-Student Committee expressed its favourable opinion under the terms of article 12 para. 3 of Ministerial Decree no. 270/04.