ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

TEACHING REGULATIONS OF THE MASTER DEGREE

LM-54 [PHOTOCHEMISTRY AND MOLECULAR MATERIALS]

Bologna Campus

INDEX

In the event that, solely for the sake of brevity, the masculine form is used in this regulation, it is to be understood as inclusive and referring to all individuals operating within the community

ART. 1 ADMISSION REQUIREMENTS

- **Entry requirements**

To be admitted to the Master's Degree program in *Photochemistry and Molecular Materials*, candidates must hold a bachelor's degree, a three-year university diploma, or another qualification obtained abroad, recognized as equivalent.

Additionally, the following curricular requirements must be met.

Candidates must have obtained a degree in one of the following categories:

- **Under D.M. 270:**
  L-27 Chemical Sciences and Technologies
  LM-13 Pharmacy and Industrial Pharmacy
- **Under D.M. 509/99:**
  L-21 Chemical Sciences and Technologies
  14/S Pharmacy and Industrial Pharmacy
- **Previous system (before D.M. 509/99):**
  Degree in Chemistry and Industrial Chemistry
- **Other qualifications obtained abroad**, recognized as equivalent by the Master's Degree Programme Board.

Alternatively, candidates with a degree in a different category must have acquired at least 60 university credits in basic scientific disciplines, with at least 30 credits in the following scientific-disciplinary sectors:

- from CHIM/01 to CHIM/12;

Admission to the Master's Degree program is also subject to passing an assessment of the adequacy of the candidate's personal knowledge, which will be carried out according to the procedures outlined in the "Admission Procedures" section.

In addition, a B2 level knowledge of English, according to the Common European Framework of Reference for Languages (CEFR), is required. The verification will be conducted as specified in the "Admission Procedures" section.

- **Admission procedures**

The assessment of the adequacy of personal preparation in university-level knowledge of mathematics, physics, and chemistry, carried out by a Commission, will be conducted through an analysis of the curriculum, which may be followed by an interview in English. The methods, criteria, and procedures for this assessment will be determined by the Degree Programme Board and made available through publication on the University portal. Verification of English language proficiency is considered fulfilled for students who hold an appropriate certification. Candidates who are native English speakers are exempt from presenting a certification of English language proficiency.

ART. 2 MOBILITY AMONG THE COURSE PATHS

The master's degree programme in Photochemistry and Molecular materials is divided into course paths.

Students may 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.
Mobility among the course paths is allowed, following the deadlines published on the University website.

ART.3 INDIVIDUAL STUDY PLANS

Students will be allowed to present individual study plans according to the methods, deadlines and criteria published on Unibo web site. The individual study plans, approved by the Degree Programme Board, must be compliant with the teaching regulations.
If students choose teaching activities that are activated in degree programmes with restricted access, the choice must also be authorized by the concerned Degree programme boards, based on criteria previously defined.

ART. 4 IMPLEMENTATION OF LEARNING ACTIVITIES AND TYPES OF TEACHING ACTIVITIES

The enclosed 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. 5 ATTENDANCE AND PREPARATORY ACTIVITIES

Compulsory attendance of 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 in the study program during the presentation of the teaching plan and are notified to the students prior to the start of the program on the University website.

ART. 6 FLEXIBLE STUDY PLAN

Students can opt for flexible study plans, which allows to complete the 2nd cycle degree course in a longer or lesser time with respect to the normal number of years, according to the rules defined within the Students' Regulation.

The teaching activities of the study program can be replaced, in case of forced deactivation, by other activities, in order to guarantee quality and sustainability of the educational courses on offer.

ART. 7 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 a simple “pass” when the necessary competencies have been acquired. The assessment methods are laid down annually by the Degree Program during the presentation of the teaching plan and notified to the students prior to start of the program on the University website.

ART. 8 ELECTIVE LEARNING ACTIVITIES

The Degree Programme Board considers all the learning activities defined by the Degree Programme Board and listed in the annexed Teaching Plan consistent with the teaching project.
If a student intends to attend one learning activity that is not included in the previewed list, she/he must submit a request to the Degree Programme Board within the deadlines and conditions published on UniBo web portal.

The Board shall verify the coherence of the request with the student’s own study plan.

ART. 9 CRITERIA FOR THE RECOGNITION OF CREDITS ACQUIRED IN DEGREE PROGRAMS IN THE SAME CLASS

The recognition of credits earned in previous university studies is determined, upon the student's request, by the Degree Programme Board.
The acquired university credits are recognized from a half up to the number of credits indicated for the same subject group laid down in the degree program teaching regulations, in compliance with the relative subject area and the type of learning activities.

If, after having evaluated and accepted the credits according to the provisions of this regulation, there remain unused residual credits, the Degree Programme Board may also accept their validity, after assessing each specific case on the basis of teaching and cultural affinities.

ART. 10 CRITERIA FOR THE RECOGNITION OF CREDITS ACQUIRED WITHIN DEGREE PROGRAMS IN DIFFERENT CLASSES, FROM TELEMATIC UNIVERSITIES OR INTERNATIONAL DEGREE PROGRAMS

The recognition of credits earned in previous university studies is determined, upon the student's request, by the Degree Programme Board.

The acquired credits are recognized 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 program and the individual learning activities to be recognized, in any case pursuing the aim of promoting student mobility.

The credits are recognized up to the maximum number of university credits provided for the program, as laid down in the degree program teaching regulations.

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

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

Skills acquired outside the university may be recognized in the cases provided for by current regulations.
The recognition request will be evaluated by the Degree Programme Board, taking into account the guidelines provided by the Academic Bodies and the maximum number of credits allowable under the program's teaching regulations.
Recognition may be granted if the activity is consistent with the specific educational objectives of the study program and the recognized learning activities, considering both the content and the duration in hours of the activity undertaken.

ART.12 INTERNSHIP

The master's degree programme includes a compulsory internship for the purposes of preparing the dissertation or in any case linked to a project aiming to develop learning and academic skills.

The internship must be carried out in compliance with Unibo Training Regulations or International Mobility Programmes for Traineeships rules.
These learning experiences shall not exceed 12 months and shall be completed by the date of graduation; learning credits may be awarded for these activities:

- included in the quota for the final examination;

- for the internship activities laid down in the course structure diagram;

- for elective activities counting towards the internship;

- for additional activities if the number of credits exceeds the one required for graduation.

ART. 13 FINAL EXAMINATION

- **Final examination characteristics**

The final examination of the Master's degree consists of the preparation and public defense of a dissertation written in English. The thesis must be an original work developed by the student on a topic aligned with the objectives of the program, under the guidance of a supervisor who is typically a faculty member of the university.
The Master's thesis in *Photochemistry and Molecular Materials* must be original and experimental, and it should be linked to a project or an internship.
The dissertation should demonstrate mastery of the subject matter, critical thinking skills, the ability to work independently, and a high level of communication proficiency.

- **Final examination criteria**

The final examination is public and consists in the presentation, in front of a Final Examination Board, of a thesis written in English and in the discussion of the related experimental work.

The Board must ascertain the student ability to work independently, to describe and discuss clearly and autonomously the results obtained in the research project. The Board expresses its final assessment with a grade out of one hundred and ten, and comprises a general evaluation of the student's curriculum.

The Board expresses its final assessment with a grade out of one hundred and ten, as a result of the following features:

- Weighted average (of the marks obtained) converted to a scale with grades up to 110
- **Max 7 points**, made up of:
    - Supervisor's mark: **up to 4 points;**
    - Examination board's mark: **up to 3 points**
- 'Cum laude' honours: 0.05 multiplied by ECTS credits of each exam passed with honours
- 'Cum laude' honours final exam mark is awarded to students who have reached **at least 113/110**; the honours are proposed by the Supervisor and they are awarded by unanimous decision of the Examination Board.

The exam is deemed to be passed with a minimum grade of **66/110**.

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The Faculty- Student Joint Committee gave a favorable opinion on the consistency of the credits assigned to each teaching activity and its learning outcomes pursuant to Art. 12, par. 3, of Ministerial Decree 270/04.