



# UniSR

Università Vita-Salute  
San Raffaele

## **Didactic Regulations**

### **Bachelor's Degree in Biotechnology Research in Medicine**

*Applicable for students who enrol in academic year 2023-2024*

*Issued with Rector's Decree no. 8221 dated 05 June 2023*

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## **Art. 1 – Course Admission**

### **1.1 Knowledge required for admission**

In order to be admitted to the Bachelor's Degree in Biotechnology Research in Medicine, candidates must have a high-school diploma or another qualification obtained abroad recognised in Italy. Candidates who have obtained a score equal to or higher than the threshold established in the call for applications will be admitted to the enrolment phase for the Bachelor's Degree in Biotechnology Research in Medicine. If not all places are covered, the residual places will be made available during the autumn session and once again those candidates who obtain a score equal to or higher than the threshold defined in the call for applications, which is the same as for the previous session, will be admitted to the enrolment phase.

Should further places still be available, a single ranking will be drawn up of all the candidates who, in the two exam sessions, obtained a score below the threshold set; these candidates will be admitted in ranking order and will have to overcome the deficiencies in the individual disciplines of the test during the first year of the course, as indicated by the competent academic bodies.

### **1.2 Admission procedure**

The number of students admitted to the Bachelor's Degree in Biotechnology Research in Medicine is planned on the basis of the availability of dedicated teaching facilities (classrooms, Teaching Laboratory), applying parameters and guidelines drawn up by the University and the Faculty.

Admission to the Bachelor's degree programme is based on the number of places available. A Rector's Decree, issued at least 60 days before the selection test, states and governs:

- the number of places available;
- the admission criteria;
- the procedures for registration;
- the formation of the rankings;
- the enrolment procedures.

### **1.3 Definition of the Additional Learning Requirements (OFA) or three-year Bachelor's degree and single-cycle Master's degree courses**

Additional Learning Requirements (OFA) are selectively determined within the results of the admission tests in the subject areas of biology, chemistry, mathematics, physics, problem-solving, logic and knowledge of the English language. The OFA obligation in each of the above areas is determined by a number of correct answers in the corresponding area equal to less than 50% of the admission test questions.

OFAs will be provided also through on-line remedial courses, which students with educational debts are obliged to pass.

An assessment test is therefore held to establish whether students have passed the OFAs. The deadline for passing OFAs coincides with the deadline for the exams scheduled for the academic year of enrolment.

For candidates without OFAs according to the ranking provided for in the Call for Applications, the Committee reserves the right to offer remedial courses if it finds deficiencies in the individual subjects of the admission test (biology, chemistry, mathematics, physics, problem solving, logic

and knowledge of the English language). The remedial lessons will be taught by lecturers and tutors of the Bachelor's Degree in Biotechnology Research in Medicine, and there will be a final assessment which will take the form of a self-assessment test.

## **Art. 2 – Study Plan**

The teaching activity is structured according to the study plan specified in the attached Description of the training programme.

### **2.1 Individual Study Plans (where applicable)**

These Didactic Regulations of the Bachelor's Degree in Biotechnology Research in Medicine do not provide for the submission of individual Study Plans.

### **2.2 Placements (Curricular Internships)**

Students may apply – starting at the end of the second semester of the first year of the degree course – to undertake a curricular experimental laboratory internship (placement) lasting a minimum of 2 and a maximum of 4 weeks not necessarily associated with the preparation of the final dissertation.

This activity can only be carried out during periods of the year when there are no scheduled teaching activities and is conditional to passing the Safety in the Laboratory course, which qualifies as an elective course (1 ECTS credit) chosen by the student.

Students may directly contact a laboratory supervisor, the year tutor or contact the President of the Course Council in order to ascertain whether there is a laboratory supervisor willing to host and supervise the placement.

The placement provides for active supervision by the laboratory supervisor, who can avail him/herself of another professional figure of his/her choice to act as a tutor.

The placement application, together with the Preliminary Risk Analysis Form, must be handed in to the Training and Internship Service, which will submit it to the President of the Course Council for approval.

At the end of placements, students and Laboratory Supervisors must complete and sign a questionnaire and submit it to the Training and Internship Service, which will officially notify the Academic Secretariat of the end of the placement.

The recognition of the placement in the student's curriculum and the award of ECTS credits (2 to 4, depending on the duration of the internship) are decided and approved by the Course Council.

### **2.3 International mobility and recognition of periods of study and learning spent abroad**

The nature of this Bachelor's degree provides for an intensive programme consisting of 5 Teaching and Research Laboratory courses every semester (see the study plan). This teaching approach is unlikely to be compatible with the possibility of spending a significant period of time at another university site. Placements (curricular internships) in universities or other national and international research facilities are, however, encouraged during periods when there is no teaching activity scheduled for the degree course. These activities, duly documented, may be recognised as Elective Activities of the study plan and taken into account in the degree examination.

### **Art. 3 – Restrictions**

In compliance with the provisions of Articles 14 and 15 of the University Didactic Regulations, General Section, the Course Council does not identify mandatory exams required on an annual basis, or courses for which an annual certificate of attendance is necessary, or a minimum number of ECTS credits that students must acquire, as a requirement for passing to the next year of the course.

“Repeating student” status is given to students who, at the end of the third year of the course, have not passed all the examinations specified in the study plan by the dates set out in the academic year calendar for Graduation Sessions.

Pursuant to article 14 of the University Didactic Regulations, students with inactive, repeating student or course suspension status for more than four academic years forfeit their student status. Forfeiture does not apply to those who have passed all assessment exams and only have an educational debt relating to the final exam.

### **Art. 4 – Assessment**

The types of exams and other forms of assessment are specified in the annex to these Regulations and are defined in compliance with article 23 of the current version of the University Didactic Regulations and didactic system.

The assessment of the individual activities carried out by students may be evaluative, and therefore expressed as a numerical mark, or certifying, with the simple acknowledgement of the corresponding ECTS credits (pass), as certified by the Course Supervisor by means of an oral or written test. The assessment of the students' progress is expressed as a mark out of 30, with honours where applicable. The pass mark for the exam is 18/30. The Examination Committee may unanimously assign candidates the maximum score (30/30) with honours, where applicable.

All written, paper or computer-based examination documentation is filed by the Academic Secretariat of the degree course.

The profit assessment of individual activities must be aimed at verifying knowledge and any application skills relevant to the course provided and is carried out individually at the scheduled exam dates.

The course supervisor must provide students with detailed information on the assessment processes at the start of the lessons; the assessment process may not be changed during the course.

In accordance with the University regulations on the formation of Examination Committees, they are appointed by the Course Council at the same time as the appointment of the Course Supervisor; in the case of courses comprising several modules, the Examination Committee is chaired by the Lecturer in charge.

For all other aspects relating to the formation of the Exam Committees, refer to the provisions of Article 24 of the University Didactic Regulations, general section.

The six yearly examination calls provided for by the University Didactic Regulations, general section article 21(10), are divided into winter, summer and autumn exam dates, as well as an optional resit session in the spring. The Degree Course President, by annual resolution, schedules

the dates of the above-mentioned exam dates at suitable intervals. Only students who have acquired the required attendance, as specified below, are eligible for admission to examinations and any other forms of assessment.

### **Core courses**

The achievement of the educational objectives can be verified also by means of evaluation tests during the course itself; any fails in such tests does not preclude admission to the final exam, as they are merely intended for rating students' knowledge and skills regarding a part of the course as a whole without awarding a mark to be taken into consideration in the final calculation. Exams must be formally certified by an Exam Committee presided over by the Course Supervisor. If it is based on an oral examination, this may be preceded by a written test with a result that is conditional to eligibility for the oral test.

### **Elective courses**

The exam typically consists in a certifying assessment of learning (Pass).

## **Art. 5 – Final exam**

The Final Exam consists in the presentation of the student's dissertation, in order to confirm that the student has acquired the basic preparation and the professional skills required.

### **5.1 Definition of the Roles associated with the Final Exam**

The supervisor is chosen by the student from amongst the permanent professors and researchers, including those on a fixed-term contract, of Vita-Salute San Raffaele University (UniSR) Faculty of Medicine and Surgery and is responsible for monitoring the development of the Student's Final Dissertation. Supervisors are the guarantors of the appropriateness of the topic chosen for the Final Dissertation, of the scientific competence of the assistant supervisor, whom he/she appoints, and of the smooth running of the preparation for the Final Dissertation.

The Lecturer identified as the Student's candidate Supervisor may or may not accept this role and may also act as assistant supervisor; the reasons for any refusal must be clearly explained to the Student.

The Supervisor will be part of the Committee of the Final Graduation Exam for which the student will be registered during the preparation of the final dissertation.

The Assistant Supervisor is proposed by the Supervisor to the President of the Course Council on the basis of his/her expertise and reputation in his/her scientific discipline, which must be closely related to the topic of the student's final dissertation. The Assistant Supervisor may be a UniSR lecturer or a researcher from another institution. The Assistant Supervisor supervises the student while he/she gathers the information and data required for the preparation of the final dissertation. If the Assistant Supervisor observes problems in the planned development of the preparation of the final dissertation leading to significant delays in relation to the planned schedule, he/she must inform the Supervisor without delay. The Assistant Supervisor must be available to meet the Supervisor periodically and participate in the Committee of the final examination for which the student is enrolled during the preparation of the final dissertation.

The Supervisor checks with the student and the assistant supervisor regarding progress in the collection of information and the preparation of the final dissertation, supervises any corrections and is the guarantor of the planned schedule. If he/she encounters any delays or problems in the

preparation of the Final Dissertation that might jeopardise its timely submission, he/she must promptly inform the Third Year Tutor and, for information purposes, the President of the Course Council in order to take any corrective and/or supportive action.

## **5.2 Preparation of the Final dissertation/Thesis**

The degree examination consists of the defence and subsequent discussion of a Final Dissertation prepared in the form of a written paper in Italian or English (with no preference or bonus for the choice of language). This dissertation is not only an administrative document required to obtain the degree, but must have a scientific purpose that can be judged with regard to both its content and formal aspects.

Students are responsible, once they have identified a scientific topic of interest, for contacting a Lecturer from the Faculty of Medicine of this University in order to obtain qualified feedback on the scientific soundness of the topic proposed for the Final Dissertation and to ascertain the lecturer's willingness to act as Supervisor. In the case of difficulties identifying their Supervisor, Students may ask the third-year tutor and/or the President of the Course Council for assistance.

In order to guarantee the preparation of the Final Dissertation the greatest didactic importance, students will be assisted by the above-mentioned roles, who are responsible for guiding and assessing the research activity carried out.

Instructions regarding the contents of the Final Dissertation are provided below.

- **Introduction:** The introduction should summarise previous general background knowledge related to the subject of the final dissertation.
- **Body of the final dissertation:** this is the core part of the dissertation and should typically be a summary of the most recent literature on the subject considered, on the basis of one or more starting hypotheses regarding the subject matter. It typically includes graphs, images, tables and/or diagrams either taken from the cited scientific work (in which case the source must be explicitly indicated in the legend) or created by the candidate. This section of the dissertation should be broken down into sections, chapters, and paragraphs, so as to facilitate comprehension and the possibility of discussing individual aspects of the dissertation. It must also contain key bibliographical references, generally recent, relating to the individual aspects covered.
- **Final Discussion and Conclusion:** the Discussion should provide a critical summary of the body of the final dissertation and provide the candidate's own interpretation of the results in the light of the recent specific literature. In the Conclusions, which may be dealt with separately from the Discussion, the candidate is invited to formulate his/her own hypothesis for the development, theoretical or applicative, of the topic of the final dissertation and its implications.
- **References:** this section must list each of the scientific publications cited in the final dissertation, and may include congress presentations that are not yet the subject of formal scientific publication. Each bibliographic citation must be readily available in public databases such as PubMed (<https://www.ncbi.nlm.nih.gov/pubmed/>) or the like. Possible exceptions (conference abstracts, journals not listed in PubMed, monographs and textbook chapters) may be included to supplement the main references section, but only to a minor extent and not as a substitute for it.

The Final Dissertation must be written by the candidate under the guidance of the Assistant Supervisor and the Supervisor with whom he/she previously defined the research topic. The Dissertation must include a statement of the terms of the problem addressed, describe the state of knowledge in the field of interest and formulate specific working hypotheses. The subject-matter of the Dissertation must be explicitly related to a topic covered in the Core Courses of the study plan.

### **5.3 The Degree Examination**

The Final Dissertation is presented and discussed before the Committee meeting in a public Degree Examination. After the oral presentation by the candidate, the members of the Committee may ask questions regarding the dissertation, the hypothesis(s) underlying it and the candidate's interpretation of the results discussed in the dissertation.

The use of multimedia material is reserved for the discussion of the final dissertation.

### **5.4 Calculation of Degree marks/GPA**

At the end of the discussion, in a session restricted to its members, the Committee establishes the mark on the basis of the candidate's academic curriculum and the assessment of the final examination. The examination will be passed if an overall mark of 66/110 or higher is awarded.

The degree mark, expressed out of 110, is the result of the sum of two separate scores. The first is the average of the marks obtained in the individual assessment exams included in the study plan using the formula: weighted mean  $\times 110/30$ . Provision is made for honours in assessment exams by awarding an additional third of a point (30 with honours = 30.33).

The second score is the mark obtained in the degree examination, which is the average of the marks awarded by the individual Committee members, on a scale of 0 to 8. It takes overall account of the quality of the dissertation, the candidate's own contribution to its preparation, based on what was stated by the Supervisor and Assistant Supervisor during the restricted session, and the scientific quality of the discussion.

Honours may be awarded to candidates who, on the basis of the above criteria, achieve a theoretical mark at least three points higher than 110. Honours may only be awarded with the unanimous agreement of the Committee.

An Honourable Mention may be awarded to candidates who have an average mark of 109 or higher, at least 3 honours marks and full marks for the presentation.

Honourable mentions may only be awarded with the unanimous agreement of the Committee.

### **5.5 Degree examination sessions calendar/ Time limits and obligations for candidates**

At least three months before the first day of the round, students must notify the Academic Secretariat of the subject of the Final Dissertation using the "Final Dissertation Title Proposal" form, signed by the Supervisor and Assistant Supervisor. The Academic Secretariat sends the completed forms to the President of the Course Council for approval.

Students may promptly submit any variations that arise during the preparation of the Final Dissertation to the Supervisor, who will promptly inform the Tutor of the year and, for information purposes, the President of the Course Council.

For formal aspects, please refer to the guidance provided by the Student Center.



## **Submission of the Final Dissertation Application**

Students must, within the prescribed time limits and in the prescribed manner, hand in the documents required by law and the regulations to the Student Center. It is the student's responsibility to check with the Student Center for the most up-to-date rules on the submission of the final dissertation application and any specific requirements of the degree course.

## **Degree examination sessions calendar**

In each academic year there are three degree examination sessions, according to a calendar defined at the beginning of the academic year and posted on the Student Intranet and Student Noticeboards.

## **Time limits and obligations for candidates**

Candidates are under obligation to check and comply with deadlines and the administrative obligations imposed. Information on these aspects is available from the Student Center and the intranet site.

More specifically, candidates must prepare 3 printed copies of their final dissertation, one for the Student Center, one for the Supervisor and one for the Assistant Supervisor. All copies must be signed at the end of the references section.

Two copies of the abstract in Italian and English, in addition to those bound into the final dissertation, must be submitted to Academic Secretariat in accordance with the procedures specified.

Candidates must take a printed copy of the final dissertation with them on the day of the final exam for consultation by the members of the Examination Committee. This copy will be returned to the student at the end of the degree examination.

## **5.6 Degree Exam Committee**

The Degree Examination Committees and their respective chairpersons will be appointed by the President of the Course Council once candidates have handed in the required number of copies of the Final Dissertation to the Student Center.

The Committee for each individual assessment session must be composed of at least 5 (five) members, of whom three (3) are permanent lecturers, including researchers on fixed-term contracts. Both the Supervisor and Assistant Supervisor of each student enrolled in the specific degree examination session will be part of the Committee.

## **Art. 6 – University and course transfers**

Requests for transfer to the Bachelor's Degree in Biotechnology Research in Medicine may only be submitted for years subsequent to the first by students coming from other Italian and foreign universities, military academies or other military higher education institutions.

The availability of transfer places for a given academic year will be pre-determined by the President of the Course Council taking into account the theoretical availability of free places and the reception capacity of the teaching and experimental laboratory courses.

Such applications will be subject to approval by the Course council having consulted the Transfer Committee, which:

- a) assesses the possibility of full or partial recognition of the academic career followed up to that point, with validation of part or all of the examinations taken;
- b) recognises the ECTS credits acquired up to the same number of credits of the same scientific disciplinary sector (or group of the same) provided for by the didactic regulations of the course. In all cases of student transfers between Bachelor's Degree Courses belonging to the same class, the number of ECTS credits for the same scientific disciplinary sector directly awarded to the student may not be below the limit provided for by applicable legislation;
- c) identifies the course year in which the student may be enrolled;
- d) establishes in a structured manner any educational debt to be made up.

Depending on the number of ECTS credits recognised, the Course Council may shorten the duration of the course.

### **Art. 7 – Admission to individual courses**

1) Students in possession of a five-year high-school diploma/secondary leaving certificate or other qualification issued abroad and considered acceptable, a university diploma, a bachelor's or master's degree, as well as holders of academic qualifications issued abroad, can may ask to enrol on individual courses, take the corresponding exams and receive the certification including indication of the credits, according to the methods defined by the Faculty within the criteria established by the Academic Senate.

2) Any enrolment in individual Courses must be approved by the Course Council.

Applications must be submitted according to the conditions and deadlines published on an annual basis by the Student Center on the University website.

For all other aspects not covered herein, refer to the provisions of Article 32 of the University Didactic Regulations, general section.

### **Art. 8 – Recognition of degrees awarded by foreign universities**

Within the scope of its tasks, the Bachelor's Degree in Biotechnology Research in Medicine Course Council may deliberate on the equivalence of academic qualifications achieved abroad on the basis of cultural agreements and recognition of academic qualifications achieved abroad, as well as recognition of studies carried out abroad; this task may be exercised in compliance with the legislation in force, without prejudice to the powers and any authorisations of Authorities foreseen by the regulations in force.

### **Art. 9 – Committees established within the Course Council**

The President may suggest to the Course Council the establishment of advisory committees. The type, composition and appointment and operative procedures of such committees shall be proposed by the Course Council and approved by the Faculty Council.

#### Teaching Committee

The Teaching Committee is an advisory body to the President of the Course Council that cooperates in the coordination and harmonisation of teaching activities. The President appoints

between 3 and 5 Teaching Committee members from among the lecturers of the Course Council, including contract lecturers. Representatives of the students of the 3 years of the degree course also form part of the Teaching Committee; however, it is within the President's authority to restrict the composition of the Teaching Committee to lecturers for the discussion of specific topics. The Teaching Committee is convened by the President normally one week before the Course Council to prepare the topics to be discussed at the Course Council. In addition, the Teaching Committee may be convened by the President to address specific problems relating to the progress of the Course. Teaching Committee meetings are minuted for internal use.

It is the President's responsibility to assign operational functions to the Teaching Committee or its members (e.g. course quality assurance management, transfer assessment, etc.).

#### Transfer Committee

The Transfer Committee is responsible for examining applications from students from other Italian or foreign universities to transfer to the years following the first year, on the basis of available places and the assessment of their previous careers.

The composition of the Committee is decided annually by the Course Council.

#### Additional Committees

The Lecturer-Student Joint Committee and the Review Group set up within the degree course are governed by the Quality Assurance Regulations issued by Rector's Decree and available on the University's public website.

### **Art. 10 – Protection of health and safety**

When carrying out internship or practical activities, with regard to health and safety regulations, students are considered equivalent to workers. Consequently, they are subject to the same protective measures and responsibilities and are therefore required to comply with the relevant legal requirements, with the restrictions and prohibitions enforced by occupational health and safety, radioprotection and accident prevention laws, and with any other regulations enforced by the Host Organisation with the same purposes.

The University has formalised and centralised a series of activities strictly related to the risk exposure profile of the individual study programme, with a view to implementing the applicable legal provisions.

In short, depending on the specific indications for each Course of study, students are under obligation to:

- participate in the initial information and educational initiatives and those included in the teaching activities calendar organised to ensure compliance with the provisions set forth in articles 36 and 37 of Legislative Decree 81/08 "Information and training of workers and their representatives" and in Legislative Decree no. 101/2020 on radioprotection;
- take part in the initial and periodic health monitoring activities for issuance of the compliance certification required before starting practical activities involving exposure to risks;
- use the collective and individual protective equipment provided in compliance with the instructions and training imparted;

- comply with the general safety measures and the safety specifications drawn up and made available from time to time.

Curricular and extracurricular activities involving exposure to a specific risk may therefore not be authorised to commence until the preliminary activities required to safeguard the health and safety of each student have been implemented.

Repeated failure to comply with the above obligations shall result in the suspension of the activities involving exposure to a specific risk until such time as the legal obligations have been fulfilled.

#### **Art. 11 – Modifications**

Modifications to these Didactic Regulations are decided on by the Faculty Council, subject to a proposal from the Course Council and an opinion issued by the Lecturer-Student Joint Committee for those aspects for which it is responsible.

#### **Annexes**

Description of the training programme and learning methods

## **Annex**

### ***Description of the training programme and learning methods***

Courses are either core or elective; both types are learning activities to be recorded in the teaching register.

#### **Core courses**

Typically based on lectures, with the exception of Teaching and Experimental Laboratory Courses, and may combine contributions from different Scientific Disciplinary Sectors in order to achieve a common educational objective.

#### **Elective courses**

These courses fall within the scope of the learning activities chosen by the student and can be carried out by means of lectures, seminars, interactive courses in small groups, placement/traineeship activities, in respect of which students choose their own personal option, until the total number of ECTS credits envisaged by the study plan is achieved.

Students may choose elective courses from other degree courses of the University, subject to a justified request and approval by the relevant Course Councils, in line with attendance obligations.

If multiple lecturers are involved in the teaching activities of a Course, the Faculty Council, by proposal of the Course Council, appoints a Supervisor responsible for ensuring the proper conduct of all the teaching activities required to achieve the objectives set for the Course. The Supervisor is responsible for:

- acting as the Course contact person for students;
- advising the Council for the Bachelor's Degree in Biotechnology Research in Medicine on how teaching duties may be assigned to lecturers and assistants on the basis of their stated availability, in line with the specific educational objectives of the course;
- advising the Council for the Bachelor's Degree in Biotechnology Research in Medicine on how to distribute teaching times as agreed by the lecturers of the course;
- coordinating examination sessions;
- usually presiding over the Exam Committee of the Course and suggesting its composition in compliance with the University Didactic Regulations.

Each ECTS credit corresponds to 25 hours of student work.

At the start of the academic year, the Degree Course Council will establish the minimum threshold of registered students required to activate elective courses.

In the event of special organisational requirements, the Supervisors of elective courses may define the maximum number of students who can register.

#### **Classroom teaching**

Classroom teaching consists in a focus on a specific topic related to the Course in which they are delivered.

It is delivered by a Lecturer, according to a predefined timetable, and provided to Students enrolled in a given course year, who may also be split into small groups.

Classroom teaching may also take the form of “Seminars”, teaching activities held by one or more speakers invited by the Course Supervisor on the basis of their specific expertise. Seminars have the same characteristics as lectures and are therefore recorded in the lesson register. Seminar activities may also be inter-university and provided in the form of video conferences.

### **Experimental Laboratory Teaching Activities**

These take place in the University's Teaching Laboratory and are aimed at fully integrating theoretical teaching with experimental application. The activities are designed to give the individual student the opportunity to learn independently, under the guidance of Lecturers and Assistants. The activities carried out have the specific aim of leading the student to acquire skills and competence in the main experimental technologies that represent the milestones of a predefined logical pathway, including basic knowledge relating to safety and the organisation of experimental work (see: Teaching Laboratory User Manual).

The activities are carried out individually or in small groups. In the former case, their purpose is to put students in a position in which they are able to adopt a research protocol and analyse the results obtained. In the latter case, the aim will be to enhance exchange with other students engaged in the same activity. Supervisors avail themselves of Assistants (see: Tutoring Activities) in order to coordinate the scheduled activities.

### **Interactive teaching**

The activities in this form of teaching contribute to the achievement of the educational objectives and are typically interactive or integrative; these teaching activities are generally led by an Assistant, whose task is to facilitate the acquisition of skills and abilities. Student learning is acquired by means of practical and/or laboratory exercises to supplement the concepts and notions learned in the relevant Core Courses.

Each academic year, the Faculty Council appoints the Assistants who will be involved in the tutoring activities, upon the proposal of the Course Council for the Bachelor's Degree in Biotechnology Research in Medicine. These roles may be recruited from amongst the Lecturers, as well as from university and non-university researchers, by means of annual contracts.

### **Individual study activities**

These are achieved thanks to the time devoted to personal study or other individual learning activities, including tutoring activities, carried out by the student.

The time reserved for this type of learning must be devoted to:

- personal study, for the assimilation of concepts and notions and for preparation for exams.
- independent or tutor-led use of the teaching aids made available by the Degree Course for self-learning and self-assessment;
- voluntary work in affiliated national research facilities.

The portion of the total hourly commitment reserved for personal study or other individual learning activities must be at least 50% of the total hourly commitment.

The ECTS credits corresponding to each course are awarded to students when they pass the corresponding exam or, where provided for, by assessment certification (Pass) by the lecturer.

The Joint Teaching Committee certifies the consistency between the ECTS credits assigned to the learning activities and the specific educational objectives.

### **Preparatory courses**

When specific preparatory courses are required for each teaching activity, they are indicated in the list of teaching activities appended to these Regulations.

The preparatory nature of the individual fundamental courses makes it impossible for students to register for the assessment exams of subsequent integrated courses if they have not passed the exam of the previous course; it does not, therefore, refer to the possibility of attending the lessons of the subsequent course.

### **Attendance**

Students are required to attend all the teaching activities envisaged by the Bachelor's Degree in Biotechnology Research in Medicine study plan; attendance is recorded automatically by means of a personal badge and/or personal page on the student's intranet. Attendance data are made available to both Course Supervisors and Students through the dedicated Intranet site.

Students who have attended at least 75% of the hours required for each core or elective course (80% in the case of Experimental Laboratory teaching) automatically acquire the attendance certification required to take the examination.

### **Study Plan**

During the annual teaching planning phase, a different fraction of the total commitment may be assigned to individual study, which shall not, in any case, be less than 50% of the total hourly commitment. An exception is made for cases in which the educational activities have a high experimental or practical content.

*The Italian version of this Regulations is the only legal means of communication of the relative contents and in case of dispute, the Italian version shall prevail.*