

# Advanced Bio-materials Summer School

## 2025/26 Manifesto

*Designations referring to people, given only in the masculine form, refer indiscriminately to people of the masculine and feminine gender*

### Art. 1 – Activation and purpose

#### 1 Activation

The Advanced Bio-materials Summer School is activated for the academic year 2025/2026 at the University of Udine.

#### 2 Objectives

The summer school aims to develop and enhance competencies in the field of biomaterials and surface functionalization, with the objective of improving the interaction between biological tissues and materials, while at the same time reducing issues related to the foreign body response, often associated with the introduction of biomaterials.

In addition to scientific and technological aspects, the program will also address production-related topics, through contributions from representatives of leading local companies, as well as medical and application-related aspects, offering a comprehensive and interdisciplinary perspective on the sector.

The summer school is addressed to PhD candidates and students from various engineering and medical degree programs who demonstrate a strong interest in the topics covered. Furthermore, it aims to provide training opportunities for personnel working in biomedical companies, fostering dialogue between academia and industry.

#### 3 Student Office

The Student Administration Office is located at the Area Servizi per la Didattica, Ufficio Programmazione Didattica (Master's Office), Palazzo Florio, Via Palladio 8 – 33100 Udine.

The Academic and Executive Office is located at the DPIA – Department of Polytechnic Engineering and Architecture (Via delle Scienze 206 – 33100 Udine).

### Art. 2 - Teaching period, methods and program

#### 1 Teaching period, location and methods

The course, which will take place approximately from August 31, 2026 to September 4, 2026, will have a total duration of 30 hours.

Classes will be held in person over the course of one week, from Monday to Friday morning, with 6 hours of teaching per day. On Friday afternoon, 3 hours of laboratory activities will be held in the research laboratories of the teaching staff.

## 2 Teaching program

The teaching program covers the following topics:

| Educational Activities  | Type of activity     | SSD        | HOURS     |
|---|----------------------|------------|-----------|
| 1. Biomaterials and Biocompatibility                                      | Lectures             | ING-IND/22 | 3         |
| 2. Metallurgy of Materials for Biomedical Applications                    | Lectures             | ING-IND/21 | 3         |
| 3. Corrosion and Degradation in Biological Environments                   | Lectures             | ING-IND/22 | 3         |
| 4. Bioinert Ceramics and Wear in Biomedical Applications                  | Lectures             | ING-IND/22 | 3         |
| 5. Hydrogels and Scaffolds for Bone Regeneration                          | Lectures             | ING-IND/22 | 3         |
| 6. Biofabrication   | Lectures             | ING-IND/22 | 3         |
| 7. Maxillofacial Surgery and Personalized Implantology                    | Lectures             | MED/29     | 3         |
| 8. Biomaterials in Orthopedics: From the Operating Room to the Laboratory | Lectures             | MEDS-19/A  | 3         |
| 9. Industrial Contributions and Technological Innovation                  | Lectures             | ING-IND/22 | 3         |
| 10. Biomaterials Laboratory   | Practical Activities | ING-IND/22 | 3         |
|   | <b>TOTAL</b>         |            | <b>30</b> |

## 3 Program

The provisional schedule will be communicated at the beginning of the Course and will be published on the Course webpage.

## 4 Attendance Requirements

Attendance is mandatory and a prerequisite for obtaining the final attendance certificate (70% of teaching activities).

## Art. 3 - Course Admission Requirements and Selection

### 1 Admission Requirements

To enroll in the Advanced Bio-materials Summer School, it is necessary to possess one of the following qualifications:

#### Bachelor's Degrees

- L-2 Biotechnology
- L-7 Civil and Environmental Engineering
- L-8 Information Engineering
- L-9 Industrial Engineering
- L-13 Biological Sciences
- L-22 Physical Activity and Sports Sciences
- L-29 Pharmaceutical Sciences and Technologies
- L/SNT1 Nursing and Midwifery
- L/SNT2 Health Professions for Rehabilitation
- L/SNT3 Technical Health Professions
- L/SNT4 Health Professions for Prevention

or one of the degrees from previous systems that are equivalent to them, or another equivalent qualification obtained abroad.

#### Master's Degrees

- LM-8 Industrial Biotechnology
- LM-9 Medical, Veterinary and Pharmaceutical Biotechnology
- LM-13 Pharmacy and Industrial Pharmacy
- LM-21 Biomedical Engineering

- LM-22 Chemical Engineering
- LM-23 Civil Engineering
- LM-25 Automation Engineering
- LM-29 Electronic Engineering
- LM-31 Management Engineering
- LM-32 Computer Engineering
- LM-33 Mechanical Engineering
- LM-41 Medicine and Surgery
- LM-46 Dentistry and Dental Prosthetics
- LM-53 Materials Science and Engineering
- LM-67 Preventive and Adapted Physical Activity Sciences and Techniques
- LM-68 Sports Sciences and Techniques
- LM/SNT1 Nursing and Midwifery Sciences
- LM/SNT2 Rehabilitation Sciences for Health Professions
- LM/SNT3 Technical Health Professions Sciences
- LM/SNT4 Prevention Sciences for Health Professions

or one of the degrees from previous systems that are equivalent to them, or another equivalent qualification obtained abroad.

Applicants holding another foreign qualification may also be admitted, provided that it is recognized as suitable by the competent body for the sole purpose of enrollment in the course.

The Course Council reserves the right to admit candidates holding a Bachelor's or Master's degree different from those listed above, provided it has a scientific profile, subject to evaluation of the application and submitted CV. In such cases, before completing the admission procedure on the "Esse3" platform, candidates must contact the Master's Office by email at [master@uniud.it](mailto:master@uniud.it).

Such applications will be considered only if the maximum number of available places has not been reached.

## **2 Selection**

There is a maximum of 35 participants. If the number of applications exceeds the number of available places, a selection based on qualifications will be carried out by a dedicated Committee composed of members of the Master's Council. The following merit criteria will be taken into account:

- a) Final degree grade (up to a maximum of 10 points);
- b) Academic curriculum, to which a score from 0 to 10 will be assigned and added to the degree grade;
- c) Additional academic and scientific qualifications, to which a score from 0 to 10 will be assigned and added to the degree grade.

In the event of a tie in the ranking list, preference will be given to the younger candidate.

If the final number of enrolled participants is fewer than 15, the University of Udine reserves the right not to activate the course.

## **Art. 4 – Foreign Degrees**

For the admission of international students and students holding a foreign qualification, it is necessary to follow the procedure for academic recognition of the university degree as described on the University of Udine webpage:

<https://www.uniud.it/it/international-area/studenti-internazionali/iscrizioni-con-titolo-distudio-estero>

Interested students are invited to consult this page.

Candidates who do not possess the required documentation within the enrollment deadlines will be admitted conditionally. In the event of failure to submit the necessary documentation or a negative outcome of the qualification comparability assessment, the University may at any time cancel the academic record and all related acts for administrative irregularities and refund the university enrollment fee paid.

## **Art. 5 – Students residing abroad**

Students residing abroad (non-EU countries) must also complete the online PRE-ENROLLMENT procedure through the UNIVERSITALY portal (<https://www.universitaly.it/first-steps>) in order to obtain a study visa.

More information is available on the [non-EU students' procedure web page](#).

## Art. 6 – Admission Procedure and Deadlines

### 1 Admission Procedure

To apply for the selection, applicants must EXCLUSIVELY use the ONLINE procedure by accessing the website <https://uniud.esse3.cineca.it/Home.do> by 12:00 PM on April 30, 2026, following the provided [INSTRUCTIONS](#).

A PDF version of the curriculum vitae, including academic and professional qualifications, must be attached to the online application.

Entering the data related to the obtained degree into the online procedure serves as a self-certification pursuant to the T.U. on administrative documentation no. 445 of 28.12.2000 regarding the possession of the aforementioned degree.

Applications submitted by means other than the online procedure will not be accepted.

### 2 Ranking List

Admission to the Summer School will be formalized through a notice published **by May 14, 2026** on the Course website.

Publication online constitutes official notification to applicants; no individual communications will be sent to their home addresses.

If, at the end of the enrollment period, there are still available places, the enrollment procedure may be reopened by decision of the Course Director, and a new deadline will be set with a specific notice published on the University website on the course page. In this case as well, the application must be submitted EXCLUSIVELY through the ONLINE procedure, following the instructions that will be published on the Course webpage.

## Art. 7 – Enrollment fee

### 1 Total cost

The Course requires an enrollment fee of **€ 516.00** (including €16.00 stamp duty paid virtually for the enrollment application), to be paid at the time of enrollment.

### 2 Payment Methods

Payments must be made through the "segreteria" section and then "pagamenti" in the online "Esse3" service, using only the "PagoPA" service. The University is not responsible for issues arising from the use of different, incorrect, or unauthorized payment procedures. Payment transactions are subject to fees determined by the payment service providers and not by the University. The user must verify the type of service and the correctness of the payment transaction with the chosen PSP (payment service provider). Payments made by third parties (public bodies, foundations, companies, etc.) on behalf of the participant must comply with Article 8.

### 3 Carta Docente

The "Carta Docente" can be used to pay the enrollment fee. More information is available at <https://www.uniud.it/uniud/it/didattica/formazione-post-laurea/formazione-abilitazione-insegnanti/cartadoc>.

## Art. 8 – Payment by third parties

1 The student's enrollment fee may be paid by third parties (Public Bodies, Foundations, Companies, etc.) or self-employed professionals on behalf of the participant. In this case, it is necessary to promptly contact the Master's Office **before** making any payment by sending an email to [master@uniud.it](mailto:master@uniud.it) to receive instructions on the procedure to follow.

2 Payment by public administrations must be formalized (letter of commitment or official determination) no later than the enrollment deadline. In any case, in order to finalize the student's enrollment, the payment of the enrollment fee must be completed.

3 The course is part of the University's institutional activities, and enrollment fees are not subject to invoicing. The payment receipt can be downloaded from the "PagoPA" portal and serves as proof of payment for tax purposes.

Upon request by interested parties, the University may issue, if necessary and after verifying the payment has been received, an accounting note "outside the scope of VAT pursuant to art. 1 and 4 of D.P.R. 633/72 and subsequent amendments".

## Art. 9 - Enrollment Procedure and Deadlines

1. Once admission has been granted, admitted candidates must complete enrollment EXCLUSIVELY through the ONLINE procedure by accessing:

<https://uniud.esse3.cineca.it/Home.do> by 12:00 PM on May 28, 2026, following the provided **INSTRUCTIONS**.

During the online enrollment procedure, students must indicate the IBAN code of a bank account in their name.

At the end of the online data entry process, it is necessary to print the enrollment application and upload it, duly completed and signed, to the "Esse3" enrollment system together with:

- A clear front-and-back photocopy of a valid identity document;
- A photocopy of the tax code (mandatory also for foreign citizens, both EU and non-EU);
- Non-EU citizens legally residing in Italy must also attach a photocopy of their residence permit.

Entering the data related to the obtained degree into the online procedure serves as a self-certification pursuant to the T.U. on administrative documentation no. 445 of 28.12.2000 regarding the possession of the aforementioned degree

2. Candidates who have not completed their enrollment within the above-mentioned deadlines (by completing the online enrollment application and paying the enrollment fee) will be considered to have withdrawn, and their enrollment will be canceled.
3. Those who have obtained enrollment in the Course are not entitled to a refund of the fee (except in the case of non-activation of the course by the University and excluding the stamp duty).
4. The completion of the enrollment will be carried out by Postgraduate Education Office (Master's Office). Each student will receive confirmation of enrollment via email.
5. If, at the end of the enrollment period, there are still available places, the enrollment procedure may be reopened by decision of the Course Director, and a new deadline will be set with a specific notice published on the University website on the course page.

#### **Art. 10 - Candidates with Disabilities (DIS) or Specific Learning Disorders (SLD)**

Candidates with SLD and disabilities must upload the necessary documents in PDF format to the "Esse3" system to verify their condition (valid disability or SLD certificates issued in accordance with current legislation). These candidates may report their needs, in terms of necessary aids, by sending an email to [includi@uniud.it](mailto:includi@uniud.it) at least 10 days in advance.

Support can be provided subject to available resources.

#### **Art. 11 – Qualification awarded**

- 1 At the end of the Course, all participants who have fulfilled the required attendance obligations will receive the final certificate of the "Advanced Bio-materials Summer School".
- 2 During the course of the educational activities, enrolled students may request enrollment certificates. Certificates will only be issued to those who are up to date with the payment of the enrollment fee.

#### **Art. 12 - Responsible for the procedure**

Pursuant to Law No. 241 of August 7, 1990, and subsequent amendments, the person responsible for the access procedure referred to in this Study Manifesto is the Head of Teaching Services Area.

#### **Art. 13 – Personal data processing**

- 1 Pursuant to Regulation (EU) 2016/679 (known as "GDPR") and Legislative Decree 196/03, personal data provided for the purpose of enrolling in the Course are collected at the offices of the University of Udine – Teaching Services Area.
- 2 The processing of these data will be carried out for purposes related to the management of services provided to students.
- 3 Personal data provided by candidates may be communicated by the University to the Ministry of University and Research for its institutional purposes.
- 4 Candidates are granted the rights referred to in Regulation (UE) 2016/679 (know as "GDPR") and Legislative Decree 196/03, in particular the right to access data concerning them and the right to obtain their update or deletion if erroneous, incomplete, or collected in non-compliance with the law, as well as the right, for legitimate reasons, to object to their processing. These rights can be exercised against the University of Udine located at Via Palladio, n. 8 - 33100 Udine, the data controller.

#### **Art. 14 – Final provisions**

- 1** The University of Udine reserves the right to carry out legal checks on the declarations made and, if these are found to be untrue, to proceed to send the documentation to the competent judicial authority.
- 2** For anything not expressly provided for in this Study Manifesto, reference is made to the Regulations for the establishment and functioning of university master's degrees and specialization courses of the University of Udine.

#### **The Course Director**

Prof. Alex Lanzutti

#### **Student Office**

Teaching Services Area – Postgraduate Education Office (Master's Office) via Palladio, n. 8 – 33100 Udine.  
The Postgraduate Education Office (Master Office) is open by appointment only.  
Appointments can be scheduled by calling +39 0432 556704 from Monday to Thursday, 9:30-11:30, or by sending an email to [master@uniud.it](mailto:master@uniud.it).

#### **Toll-Free Number 800 241433 - 0432 556680**

The service (via operator) provides general information about enrollment procedures. The service is not active on Saturdays, Sundays, on midweek holidays, and during university office closure periods.