



**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR  
ADMISSION TO PHD COURSES ACTIVATED AT THE UNIVERSITY OF MESSINA  
39<sup>TH</sup> CYCLE**

**THE RECTOR**

IN VIEW OF Law of 3<sup>rd</sup> July 1998, No. 210, and in particular Art. 4 in the matter of PhD courses, as amended by Art. 19, paragraph 1, of Law of 30<sup>th</sup> December 2010, No. 240;

IN VIEW OF the Statute of the University, issued with D.R. No. 1244 of 14<sup>th</sup> May 2012 (published on G.U. - General Series No. 116 of 19<sup>th</sup> May 2012) and amended with D.R. No. 3429 of 30<sup>th</sup> December 2014 (published on G.U. - General Series No. 8 of 12<sup>th</sup> January 2015);

IN VIEW OF D.M. No. 226 of 14<sup>th</sup> December 2021 concerning *"Regulation laying down procedures for the accreditation of PhD centers and PhD courses and criteria for the establishment of PhD courses by accredited bodies"*;

IN VIEW OF *the Regulation of the University of Messina concerning PhD courses*, issued with D.R. No. 834 of 25<sup>th</sup> March 2022;

IN VIEW OF D.M. No. 301 of 22<sup>nd</sup> March 2022 with which the *"Guidelines for the accreditation of PhD courses"* were approved (Ministerial Note No. 8424 of 23<sup>rd</sup> March 2022, prot. No. 38641 of 24<sup>th</sup> March 2022) and D.M. No. 289 of 25<sup>th</sup> March 2021, with which the "General guidelines of the programming of the Universities 2021-2023 and indicators for the evaluation of the results" were defined;

IN VIEW OF Ministerial Decree No. 118 of 2<sup>nd</sup> March 2023 which decrees for a. y. 2023/2024 the allocation of resources aimed at financing three-year PhD scholarships for programs dedicated to digital and environmental transitions, PNRR research, Public Administration and cultural heritage under the PNRR, Mission 4, Component 1, Investment 3.4 and Investment 4.1;

IN VIEW OF Ministerial Decree No. 117 of 2<sup>nd</sup> March 2023 which decrees for a. y. 2023/2024 the allocation of resources aimed at co-financing PhD scholarships for dedicated programs with the contribution and the involvement of companies, under the PNRR, Mission 4, Component 2, Investment 3.3;

IN VIEW OF letters of intent and agreements with Universities and public or private research Institutions and Italian and foreign Companies for the activation and/or financing of PhD courses of the 39<sup>th</sup> cycle;

IN VIEW OF the resolutions of the Academic Senate and the Academic Board of 30<sup>th</sup> May 2023, respectively, prot. no. 76167/23 and prot. no. 76163/23 with which, for the 39<sup>th</sup> cycle, once consistency with the objectives of the PNRR was evaluated, the proposals for renewal, new activation, and participation in PhD courses in a partnership or in PhD courses of national interest and the allocation of positions, were approved, as well as, with regard to no. 15 PhD courses based at the University of Messina, the start of the selection procedures, based on qualifications and exams, for admission to the PhD courses of the 39<sup>th</sup> cycle, was established, determining, among others, the amount of the contribution for the participation, that will have to be paid by the candidates and, subject to the compatibility with the deadlines established by Ministerial Decrees No. 117 and 118 for October and December 2023, the start of the PhD Courses on 1<sup>st</sup> November 2023;

IN VIEW OF the research Topics approved by the PhD Academic Boards of PhD Courses recipients of DM No. 117/2023 and DM No. 118/2023 Scholarships, after evaluating consistency with the criteria reported in the aforementioned Decrees;

IN VIEW OF the Student Contribution Regulation issued with D.R. No. 18 of 8<sup>th</sup> January 2019;

IN VIEW OF the resolutions of the Academic Senate and the Academic Board of 27<sup>th</sup> June 2019





IN VIEW OF and of 12<sup>th</sup> November 2019, concerning the "Contribution related to PhD Courses";  
the Ministerial Decree of 28<sup>th</sup> February 2023 concerning the "Definition of the list of particularly poor and developing countries for A.Y. 2023/2024"; (No. 115/2023 – GU General Series - No. 80 of 5<sup>th</sup> April 2023);

GIVEN THAT according to Ministerial Decree No. 226 of 14<sup>th</sup> December 2021, PhD courses can be activated only subject to accreditation granted by the Ministry, based on the approval of ANVUR, and thus PhD courses will be activated under the condition of the accreditation provided for by the Universities and Research Ministry, and for effect, admission to the related Courses and the disbursement of the related scholarships will take place under this condition;

IN VIEW OF Ministerial Decree No. 247 of 23<sup>rd</sup> February 2022 with which, starting from 1<sup>st</sup> July 2022, the annual amount of the scholarship for the attendance of the PhD courses was redetermined in € 16.243,00, gross of social security charges payable by the recipient;

GIVEN  
WITHOUT  
PREJUDICE TO any subsequent amendments and/or additions to this Call that will be advertised on the website of the University of Messina at the following address  
<https://www.unime.it/bandi-e-concorsi>.

## DECREES

### Art. 1 Institution

The 39<sup>th</sup> Cycle of PhD Courses with administrative headquarters at the University of Messina (from now on referred to as the University) is established, and the relative comparative selections for the admission to the A.Y. 2023/2024 PhD Courses, better described in **Attachments No. 1-15** to this decree, are announced.

The following are indicated in the aforementioned **Attachments**, which are an integral part of this Call:

- The title of the PhD Course;
- the web pages where the characteristics of the PhD Course are described;
- the available positions with and without scholarship;
- PhD Scholarships funded according to DM No. 117/2023 and DM No. 118/2023;
- PhD Scholarships under the PNRR and/or financed with other funds or research Projects;
- PhD Scholarships funded with other University resources;
- the positions reserved to employees of affiliated Companies and/or Institutions (Executive PhD)
- the type of qualification required;
- research Topics related to the funded PhD Scholarships and the indications of the period of visiting abroad and/or in Public Administrations/Companies/Research Centers related to the training project;
- scores for the selection and evaluation of candidates;

Positions with scholarships referred to in this Call may be increased and/or financed following further available funds obtained:

- from public or private Institutions, also foreign, through agreements or conventions signed after the issuing of this Call;
- as part of calls funded by National Operational Programmes, Regional Operational Programmes, European Social Fund, or other EU, National and Regional, Programmes and/or International Projects.

Such increases and/or funds will be announced on the University website at the following link <https://www.unime.it/didattica/post-laurea/dottorati-di-ricerca>.

The duration of the PhD courses is three academic years starting from **1<sup>st</sup> November 2023**.

Please note that the PhD positions referred to in D.M. No. 117/2023 and D.M. No. 118/2023, can be activated and launched **only after the finalization of the Agreement with the Companies partners in innovative PhD Courses available to co-fund at 50%, and only after the positive outcome of the eligibility and consistency verification of the research projects carried out by MUR and ANVUR, in relation to the scholarships selected** according to the eligibility requirements identified by the aforementioned Ministerial Decrees.

Any negative outcome of the aforementioned finalization and/or evaluation, which affects the assignment of the aforementioned Scholarships, will be communicated to the candidates by means of the publication on the institutional website. In this case, no claim can be laid by the candidates against the University of Messina. After the positive outcomes of the aforementioned evaluations, the activities of the PhD courses funded according to the aforementioned ministerial decrees, **must be, in any case, started by 30<sup>th</sup> December 2023**.

## Art. 2 Admission requirements

The following people can participate in the selections, without age and citizenship restrictions:

- a) those who, **at the deadline of the Call**, have obtained a specialist degree (D.M. No. 509/1999), or alternatively, a Master's degree diploma (D.M. No. 270/2004), or a degree diploma (old system), or a similar academic qualification, also obtained abroad, and declared equivalent, or recognized as suitable for admission to the PhD Courses, based on the principles sanctioned by international conventions on the subject;
- b) or those who **do not meet the above requirement at the deadline of the Call, provided that** they achieve the qualification required for participation **by 31<sup>st</sup> October, under penalty of forfeiture of admission**, in the event of a successful selection.

**The suitability of the foreign qualification** will be ascertained by the PhD examination Board, for the sole purpose of this selection, in compliance with current legislation, in Italy and in the country where the qualification was issued, and with international treaties or agreements on the subject of recognition of qualifications for the continuation of studies.

**For the reserved positions of Executive PhD**, candidates must certify that they have an employment relationship with the Institution/Company that activated the PhD Course in agreement with the University and that they are committed to highly qualified activities; **the employment relationship must be effective for the entire duration of the course**. Individual agreements between the University and the Institution/Company regulate the relationships, contributions, and commitments of the Parties, the organization of the Course, the specific management of the financial resources and teaching and instrumental resources made available for each Course and are binding on the PhD students.

All candidates **are admitted to the selection subject to verification** of the self-certified declarations according to Presidential Decree No. 445/2000 and subsequent amendments and additions. At any time of the procedure, even after the start of the PhD courses, the University may check the veracity of the statements produced. In the event of false declarations, the University may order, at any time, with the Rector's provision, **the exclusion** of candidates from the selective procedure, or **the forfeiture** of admission to the PhD Courses, without prejudice to the penal responsibilities arising therefrom.

## Art. 3 How to apply

**3.1.** In accordance with current legislation, the University of Messina has set up access to its IT systems through the use of **SPID**, which represents the authentication system that allows citizens to access the online services of public administrations with a single Digital Identity.

The submission of the application to participate in the selection, including the documentation indicated below, takes place electronically through the Esse3 platform <https://unime.esse3.cineca.it> through:

- Login with SPID for adult candidates;
- Login without SPID for minors and foreign citizens.

Submission of application for admission through the online procedure implies acceptance by the candidates of the rules contained in this Call, including **Attachments No. 1-15**, which are an integral part of it, in the current PhD Course Regulation of the University of Messina, in the rules established by the Funder of the Scholarship, as well as in the other legislation in force.

The procedure for participation in the selection will be active **for 30 days** starting from the day following the online publication of the Call in the University Register at the following link <http://www.unime.it/it/ateneo/amministrazione/albo-online>. After this period, the connection will no longer be active, and it will no longer be possible to complete the application form.

Applications received after the indicated deadline, or produced and/or received in a different way, **will be excluded**.

**3.2.** In the application, the candidate **must declare** the possession of the requirements to access the selection referred to in Art. 2, **and attach**, for the sole purpose of the evaluation, the following documentation, **in pdf format, together with** a scanned copy of a valid ID document [with photo]:

1. *curriculum vitae*;
2. self-certification of the qualification, with date and hand signed, **indicating**: a) the Italian University that issued the qualification, b) type of Master's Degree, c) name of Master's Degree, d) date of graduation, e) final vote, f) list of exams taken with relative marks;
3. Master's Degree thesis;
4. publications;
5. professional experiences;
6. other qualifications in possession of the candidate;
7. research Project. With regard to the Scholarships funded according to D.M. 117/2023 and D.M. 118/2023 and to the Scholarships under the PNRR and/or financed with other funds or research Projects the candidate in drawing-up his/her own project, must comply with the research Topics indicated in **Attachments No. 1-15**, as well as the eligibility criteria referred to in Art. 7 of D.M. No. 117/2023 and in Articles 7, 8, 9 and 10 of D.M. No. 118/2023;
8. any request for a videoconference, drawn up according to the form available on Esse3 for candidates who cannot reach the headquarters of Messina to take the oral test, to which the PhD examination Board will reply after evaluating it.

### Instead of document no. 2:

- ❖ candidates, **in possession of foreign qualification(s)**, must attach **the qualification certificate(s) possessed (Master's degrees)** indicating: a) duration of the study Course; b) list of exams taken with relative marks (transcript of records); c) name of the University that issued the qualification; d) date of graduation and the final grade with **an official translation attached in Italian or English language, issued by the University that awarded the degree**.
- ❖ candidates **still not in possession of the access qualification, i.e., undergraduates enrolled in Italian Universities**, must attach: **self-certification**, with date and hand signed, indicating: a) University where they are enrolled; b) type of Master's Degree; c) name of Master's Degree; d) list of exams taken with relative marks;
- ❖ candidates **still not in possession of the access qualification, i.e. undergraduates enrolled in foreign Universities**, must attach: **the certificate of enrollment** in the last year of the study

course, indicating: a) University where they are enrolled; b) type of Master's Degree; c) name of Master's Degree; d) list of exams taken with relative marks, with an official translation attached in Italian or English language, **issued by the University where the candidate is enrolled.**

The candidate **must** also indicate the Course and the Curriculum (where present) for which he/she intends to participate, specifying also the interest in the financed Scholarship/s indicated in the Attachment relating to the chosen PhD Course (Attachments no. 1-15).

Candidates who intend to participate in the selection for more than one PhD Course must submit an online application for each Course complete with the required documentation; however they **will be given an option** to choose only one of them if they are in an eligible position in more than one ranking.

**3.3** At the end of the procedure, payment of the participation fee of **€ 30.00 (thirty euros)** must be made through the PagoPA® system. The aforementioned payment must be made, **under penalty of exclusion, by the day of expiry of the Call.**

Only for candidates residing abroad, the payment of the contribution can be made by bank transfer on the IBAN account IT 16W 02008 16511 000300029177 BIC SWIFT CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below "<surname and name of the candidate> Contribution for participation in the PhD <title of the PhD course>".

Contribution for participation in the competition is not refundable for any reason. The candidate must carefully preserve the payment receipt and exhibit it in case of request.

Candidates from particularly poor and developing countries, as defined in Ministerial Decree No. 115 of 28<sup>th</sup> February 2023, **are exempt from the payment of the aforementioned contribution.**

For the academic year 2023/2024, the countries listed below are to be understood as particularly poor and developing: *Afghanistan; Angola; Bangladesh; Benin; Bhutan; Burkina Faso; Burundi; Cambodia; Central African Republic; Chad; Comoros; Democratic People's Republic of Korea; Democratic Republic of the Congo; Djibouti; Eritrea; Ethiopia; Gambia; Guinea; Guinea-Bissau; Haiti; Kiribati; Lao People's Democratic Republic; Lesotho; Liberia; Madagascar; Malawi; Mali; Mauritania; Mozambique; Myanmar; Nepal; Niger; Rwanda; São Tomé and Príncipe; Senegal; Sierra Leone; Solomon Islands; Somalia; South Sudan; Sudan; Syrian Arab Republic; Tanzania; Timor-Leste; Togo; Tuvalu; Uganda; Yemen; Zambia.*

**3.4** Candidates with a disability must specify, in the application form, the necessary aid concerning his/her disability and any need for additional time, documented by a suitable certificate issued by the Public Health Authority responsible for the area, pursuant to Law No. 104/92, as amended by Law No. 17/99.

Candidates with a diagnosis of specific learning disorders (SLD) must specify, in the application form, the necessary compensatory tools and any need for additional time, documented by a suitable certification issued no more than three years previously by NHS Structures, or by specialists and structures accredited by the same, pursuant to Law No. 170/2010 and subsequent guidelines (D.M. No. 5669, 12<sup>th</sup> July 2011).

For any information, the candidate may contact the University's "Disability Services/SLD" Operational Unit, located in Via Consolato del Mare, No. 41, Palazzo Mariani, Messina, e-mail: [servizi.dd@unime.it](mailto:servizi.dd@unime.it) tel. 090 676 8986/5066.

## Art. 4 PhD examination Boards

The examination Boards for admission to the PhD courses are appointed by Rector's Decree on the proposal of the PhD Academic Board, in compliance with Art. 14 of the current PhD Course Regulation at the University of Messina.

The aforementioned Decree will be published, after the deadline for the submission of the application form has expired, on the University website at the following link <https://www.unime.it/bandi-e-concorsi> with notification value by the University.

## Art. 5 Examinations

**5.1** Admission to PhD courses is by selection, by qualifications and examinations, according to the modalities and criteria indicated below and in compliance with the **scores indicated in Attachments No. 1-15** of this Call.

The calendar of the tests, with the indication of the way, day, month, and time when they will take place, is indicated in **Attachments No. 1-15** and will be valid to all intents and purposes as the official convocation of the candidates.

The work of the PhD examination Boards may be carried out electronically through the IT platform.

The PhD examination Board first proceeds with the definition of the evaluation sub-criteria, which will be followed in the assignment of the overall score, which will be published on the University website at the following link <https://www.unime.it/bandi-e-concorsi>.

Subsequently, based on the same sub-criteria, the Board evaluates the qualifications presented by the candidates, the outcome of which will be visible to each candidate through restricted access to the Esse3 platform.

### **5.2** Criteria and procedures for the selection and evaluation of the candidates.

#### **A) Qualifications.**

The maximum score attributable to qualifications is indicated in **Attachments No. 1-15**.

The assessable qualifications are:

1. curriculum vitae;
2. university career (exams, graduation grade). In the case of undergraduates, the examination Board will consider exam average;
3. Master's degree thesis;
4. any publications;
5. any professional experiences.
6. other qualifications in possession of the candidate.

Candidates **are not permitted** to attend this evaluation.

#### **B) Project.**

The maximum score attributable to the research project is indicated in **Attachments No. 1-15**.

With regard to the PhD Scholarships funded according to D.M. 117/2023 and D.M. 118/2023 and the Scholarships funded by the PNRR and/or financed with other funds or research Projects, the candidate, in drawing-up his/her own project, must comply with the research Topics indicated in **Attachments No. 1-15**, as well as with the eligibility criteria referred to in Art. 7 of D.M. No. 117/2023 and in Articles 7, 8, 9 and 10 of D.M. No. 118/2023.

#### **C) Oral test**

The maximum score attributable to oral test is indicated in **Attachments No. 1-15**.

The oral test consists of an interview aimed at verifying the preparation, the skills, the aptitude for scientific research and the motivations of the candidates; this interview is aimed at verifying candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and may include the discussion of the proposed research project.

The examination Board will express a judgment of suitability regarding the research projects proposed by all candidates, with regard to the Scholarships referred to in D.M. 117/2023 and D.M. 118/2023 and to the Scholarships under the PNRR and/or financed with other funds or research Projects, verifying whether these projects presented by the candidates take into account what is indicated in **Attachments No. 1-15**, as well as the eligibility criteria established by Art. 7 of D.M. No. 117/2023 and by Articles 7, 8, 9 and 10 of D.M. 118/2023.

During the interview, the knowledge of the language required in **Attachments 1-15** is tested.

**Oral tests are public.**

Oral tests may be carried out, according to the indications included in **Attachments No. 1-15**, also electronically, via the Microsoft Teams (teams.microsoft.com) IT platform. Links to Microsoft Teams rooms for the selections will be published on the University website at the following link

<https://www.unime.it/bandi-e-concorsi>.

The candidate will have to guarantee the use of a webcam to allow his/her identification to the PhD examination Board.

Before the interview begins, **under penalty of exclusion from the competition**, the candidate must identify himself/herself by showing a valid identity document, preferably the same one uploaded on Esse3 at the time of the submission of the admission application.

The candidate who is unavailable or does not appear on the day or time set for the interview **must be considered as having renounced**.

The University declines any responsibility for the eventuality that technical reasons prevent the regular conduct of the interview.

**5.3** The final selection score, expressed in hundredths, is given by the sum of the marks reported in the individual assessments (qualifications, project and oral test).

The outcome of the individual assessments, for each candidate, will be published in the restricted access area of the Esse3 system (<https://unime.esse3.cineca.it>).

At the end of the selection, based on the scores obtained the examination Board draws up a **general merit ranking** with the list of the eligible or non-eligible candidates to the PhD Courses, including the judgment of suitability with regard to the Scholarships referred to in D.M. No. 117/2023 and D.M. No. 118/2023 and to the Scholarships under the PNRR and/or financed with other funds or research Projects.

All the examination Boards must complete the work without delay **by and no later than 27<sup>th</sup> July 2023**.

The general merit ranking is issued with Rector's Decree and is published at the following link <https://www.unime.it/bandi-e-concorsi> with legal notification value for all intents and purposes.

## Art. 6 Admission to PhD courses

Candidates are admitted to PhD courses, according to the ranking order and taking into account the suitability expressed by the PhD examination Board with regard to the Scholarships referred to in D.M. No. 117/2023 and D.M. No. 118/2023 and to the Scholarships under the PNRR and/or financed with other funds or research Projects, up to the number of available positions for the competition.

For the positions with scholarship, with equal merit, the assessment of the most disadvantaged economic situation determined under the current legislation (ISEE ordinario) prevails, and in case of further equality, the youngest candidate prevails, pursuant to the provisions of Art. 20 of the University Regulations.

For the positions without scholarship, with equal merit, preference shall be given to the youngest candidate.

Public employees who are admitted to the PhD Courses may request, for the period of the normal duration of the course, unpaid leave as foreseen by national collective bargaining or, for employees under public law, special leave for study purposes, consistent with the needs of the administration, in accordance with Art. 2 of Law No. 476 of 13<sup>th</sup> August 1984, and subsequent amendments with or without pay and unless espress waiver, only if they are enrolled for the first time in a PhD Course, regardless of the subject area. Candidates who are holders of research grants and winners with scholarship in the merit ranking may: a) keep the research grant and renounce the three-year PhD scholarship; b) renounce the research grant and choose enrollment with scholarship.

**With regard to the PhD Courses funded within the PNRR Calls, please note that all the positions must be covered with scholarship (non-waivable), for the entire three years of the PhD Course, also in order to achieve the PNRR EU targets, which refer to scholarships assigned and funded; with regard to the Scholarships financed with other funds or research Projects, compliance with constraints imposed by the Funder is left unprejudiced.**

## Art. 7 Enrollment Procedures

**7.1** Candidates admitted to the PhD courses based on the final ranking must express their acceptance, **through their registration** to the PhD Course, **within 10 days from the publication** of the evaluation results on the website <https://www.unime.it/bandi-e-concorsi>.

Failure to complete the enrollment will result in the forfeiture of admission to the PhD Course. **No personal communications will be sent to candidates. Candidates admitted to the PhD courses are responsible for checking the dates and enrollment procedures.**

The candidate who participated in more than one selection procedure and ranked successfully in more than one ranking, must exercise **the right of option** for one of the PhD courses **where he/she is admitted, by registration within 10 days from the publication** of the final rankings of all PhD courses where he/she is admitted. Failure to complete the enrollment in the chosen course will result in the **forfeiture of admission** to all PhD courses in which the candidate has been admitted.

Candidates must use the enrollment procedure prepared by the Administration, available on the website <https://unime.esse3.cineca.it/>.

**7.2 Undergraduates**, immediately after the graduation and, however, **within 10 days from 31<sup>st</sup> October 2023**, deadline to obtain the qualification referred to in Art. 2 of this Call, will have to send to the Rector of the University of Messina at the email address [protocollo@unime.it](mailto:protocollo@unime.it), the self-certification concerning the graduation together with a valid ID document (or the certification, in the case of qualification obtained abroad and the official translation in Italian or English issued by the University that awarded the qualification), indicating:

- type of qualification;
- name of the University that issued the qualification;
- date of graduation;
- final vote.

Those who, for any reason, do not communicate the graduation within the established terms **will be excluded** from the PhD Courses.

**Candidates in possession of a foreign academic qualification obtained in non-EU countries** must attach to the application form:

- a) certificate(s) of the qualification(s) possessed (Master's degrees) with a translation attached, in Italian or English language, declared compliant with the text by the competent Italian diplomatic or consular representations abroad;
- b) statement of comparability issued by CIMEA or other ENIC-NARIC centers or dichiarazione di valore in loco (certificate of equivalence of qualification) issued by the competent Italian diplomatic or consular representations abroad, certifying the duration of the study course together with the list of exams taken with the related marks and the academic value of the qualification in the country that issued it.

Candidates in possession of a qualification obtained abroad, who do not produce the required documentation at the time of enrollment, **may be excluded** from the PhD course if they fail to deliver such documentation within **six months** from the beginning of the course and/or following the verification, if the qualification produced does not comply with the requirements of this Call.

Foreign candidates, who need a visa to stay in Italy, must register on the portal <https://www.university.it/>, apply for pre-enrollment in the PhD course and follow the procedure indicated therein to issue the visa. Provisions concerning access of foreign students to PhD Courses a.y. 2023/2024 may be consulted by visiting MUR website (<http://www.studiare-in-italia.it/studentistranieri>) and the University website (<https://international.unime.it/research/phd-programmes>).

Non-EU citizens must also produce a copy of a regular residence permit **within ten days** from the issuing.

**7.3** The insertion of untruthful data in the application form will result in exclusion from the final ranking and the office forfeiture. In this case, the University Administration has the right to recover any benefit



granted. In addition to the prescribed penalties, the mendacious declaration may entail, for the subject involved, actions for compensation of damages by the counterparties concerned.

**Simultaneous enrollment in more than one PhD course is not permitted**, in accordance with Art. 12 of the Phd Regulation. Simultaneous enrollment in other Courses or Schools is permitted, in compliance with what is established by Law No. 33 of 12<sup>th</sup> April 2022 and subsequent implementing decrees to which reference is made.

## Art. 8 Scrolling of ranking and replacement

In the event of forfeiture or waiver, expressed or tacit, by admitted candidates, the final ranking will be scrolled down for positively selected candidates who follow, within three months from the beginning of the Course.

In the event of forfeiture or waiver, expressed or tacit, by candidates beneficiaries of Scholarship referred to in D.M. No. 117/2023 and D.M. No. 118/2023, as well as of Scholarships under the PNRR and/or financed with other funds or research Projects, the scrolling will take place according to the general merit ranking, also taking into account the eligibility expressed by the examination Board with regard to the aforementioned Scholarships, in compliance with the specific timelines and procedures set out in the MUR financing and/or in the provisions concerning the individual financing Projects of this Call and within the limits of the financial cover available.

If additional resources from external financing sources become available, it will be possible to proceed with the assignment of the additional scholarships according to the merit ranking drawn up by the examination Board within two months from the assignment of the additional resource, and in any case in compliance with the rules established by the Funder.

The suitable candidate, who is in an eligible position in the ranking, will be sent the scrolling notification via e-mail.

Within the **peremptory term of five days** from the communication, the candidate must explicitly and unequivocally express his/her will regarding the scrolling of the ranking in his/her favor by a communication to be sent to the University at the e-mail address [protocollo@unime.it](mailto:protocollo@unime.it).

After this period, the candidate will be considered as having renounced.

The candidate who expressed his/her consent to the scrolling of ranking must enroll within the maximum time limit established by the administration in the decree of scrolling.

## Art. 9 Taxes and fees

The contributory requirements for enrollment and registration to PhD Courses were established with the resolutions of the Academic Senate and the Academic Board of 27<sup>th</sup> June 2019 and 12<sup>th</sup> November 2019.

At the time of enrollment, the admitted candidate, Italian and foreign, with and without scholarship, is required to pay through the PagoPA® system the amount of € 156,00 (equal to € 140,00 regional tax and € 16,00 virtual stamp).

Admitted candidates, not beneficiaries of a scholarship, are exempted from paying fees in favor of the University.

Admitted candidates, beneficiaries of a scholarship or other financial support, are required to pay, for each year of the PhD course, an all-inclusive contribution quantified according to the ISEE income classes generally defined for student's contribution.

At the beginning of each year of the PhD Course following the first one, the PhD student admitted to attend the following year must renew the enrollment, using the procedure available at the following link <https://unime.esse3.cineca.it>.

At the time of enrollment/registration, the PhD student beneficiary of a scholarship **must** express his/her consent to the acquisition of "ISEE Dottorato" by the University. Otherwise, he/she will be

placed in the highest income bracket.

The request to issue the "ISEE Dottorato" certificate must be made at the CAF or other appointed subjects, preferably before enrollment/registration.

The amount of the PhD all-inclusive annual contribution is calculated based on the acquisition of "ISEE Dottorato" through the INPS Application Cooperation system and must be paid, as prescribed by the PagoPA® system, respecting the deadlines established by the University.

The penalty fee for late payment of the single deadlines is € 28,00.

Admitted foreign candidates (belonging or not to the European Union), non-residents and not producing income in Italy, are required to pay a PhD single annual all-inclusive contribution equal to € 750,00.

For total and/or partial exemption from the payment of taxes and fees, reference is made to what is expressly stated by the Regulations on student's contributions and, in particular, by Articles 2 and 6 of it and by any other relevant provision.

## Art.10 Scholarships

The PhD scholarship of this Call starts from the date indicated in the Rector's Decree of assignment of the scholarship. The scholarship is annually renewed, following a positive verification by the PhD Academic Board about the completion of the program of the activities planned for the previous year, as foreseen by Art. 20 of the PhD Regulation of the University of Messina.

Starting from 1<sup>st</sup> July 2022, the annual amount of the scholarship for the attendance of the PhD courses is equal to € 16.243,00, gross of social security charges payable by the recipient.

The conduct of research activity abroad, prior authorization of the PhD Academic Board, is regulated by the PhD Regulation of the University of Messina.

**For the PhD positions with a Scholarship, the mandatory period of study abroad is reported in Attachments 1-15 together with the mandatory periods in Companies/Public Administration/Research Centers.**

Provided that for each PhD student the carrying out of research and training activities, consistent with the PhD project, at high qualification Institutions abroad, is ordinarily planned, for the conduct of research activity in Italy and abroad, in addition to the scholarship, a budget, adequate to the type of PhD course and, in any case, not less than 10% of the amount of the scholarship itself, financed with the funds available in the budget of the accredited bodies, is ensured to the PhD student. The increase of 10% should be intended as a total fund, available for PhD students with and without scholarship, and should be assigned according to the mobility needs of each one.

The scholarship **cannot be combined** with any other scholarship, assigned for any purpose, except for those granted by Italian or foreign Institutions useful for integrating the PhD student's training and research activity with stays abroad. The PhD scholarship is subject to the payment of social security contributions INPS "Gestione Separata" in accordance with current legislation, of which two-thirds shall be borne by the administration and one-third by the PhD student with a scholarship.

## Art. 11 Rights and obligations of the PhD Student

PhD students must attend the courses and continuously carry out study and research activities under the approved individual program, as foreseen by Art. 23 of the University Regulation.

For the scholarships financed with resources referred to in D.M. No. 117/2023 and D.M. No. 118/2023 and with specific Projects funded by the PNRR and/or with other funds or research Projects of this Call, the PhD student must comply with all the conditions imposed by the Funder and is committed to providing at any time all the documents considered necessary by the Funder, in relation to the reporting of the specific Project. With regard to these positions with Scholarship, where required by the Funder, PhD students must produce a report indicating the time commitment (divided into months spent at the company or research center or Public Administration, on-site and months spent

abroad, **in the light of the mandatory periods reported in Attachments No. 1-15**) and a summary of the main activities carried out every six months. Verifying and validating what is indicated by the PhD student will be the PhD course Coordinator's responsibility.

Agreement between the winner of the PhD Scholarship of this Call and the University, where required by the Funder, will be regulated by the drawing up of a contract.

## Art. 12

### Attendance, suspension, forfeiture, and waiver

For regulation on attendance, suspension, forfeiture and waiver, reference is made to Art. 24 of the current PhD Regulation of the University of Messina, without prejudice, for the scholarships financed with resources referred to in D.M. No. 117/2023 and D.M. No. 118/2023 and with specific Projects funded with the PNRR and/or with other funds and/or research Projects, to the respect of the constraints imposed by the legislation concerning the financing, having regard to the European obligations and constraints provided therein.

## Art. 13

### Processing of personal data

Pursuant to Art. 13 of European Regulation 2016/679, this University is the owner of the processing of personal data provided by the candidate to this selection and the same processing will be carried out in compliance with the aforementioned European Regulation for the purposes of fulfilling the disclosure requirements referred to in Legislative Decree 33/2013. Data may be used and stored exclusively for the legal obligations related to the activity of this selection. Provision of data is required for these purposes. Data will be processed by this University, as Data Controller, in compliance with the provisions of European Regulation 2016/679 in the manner foreseen by the full set of information published on the University website. In accordance with Art.15 ff. of European Regulation 2016/679, personal data collected by the Data Controller, may be checked and rectified, updated or deleted in any case and at any time, by contacting the Data Processing Officer (reachable at the email address: [rpd@unime.it](mailto:rpd@unime.it)) and in the case of non-compliance with European Regulation 2016/679 a complaint may be addressed to the Personal Data Protection Authority. The notice is available in the privacy section of the University, <https://www.unime.it/privacy-e-cookie-policy>, and is an integral part of this Call. The candidate acknowledges having read the aforementioned notice by signing the application form.

## Art. 14

### Properties of Results and Confidentiality

The intellectual and industrial property rights on the results that may be achieved by the PhD student, including, but not limited to, software, industrial inventions that can be patented or not, know-how, models, data, and data collections, are regulated in accordance with current legislation and the University regulations and possibly, on the basis of what is established in the individual agreements with the Universities, Companies or Organizations involved and in the regulation related to the financing of the assigned Scholarships.

The PhD student who becomes aware that he/she has realised an invention is obliged to immediately communicate it to his/her Supervisor and Co-supervisor and to the PhD Coordinator, and from that moment on, he/she will be required to respect confidentiality obligations.

The PhD student recipient of Scholarships referred to in D.M. No. 117/2023 and D.M. No. 118/2023 and of Scholarships under the resources of the PNRR and/or other funds or research Projects, undertakes to observe what is provided for by the rules concerning the financing.

## Art. 15

## Responsible for the procedure

The person in charge of administrative procedure is Dr. Angelina Venezia, Head of the “PhD Unit” of the Administrative Department “Scientific Research and Internationalization” of this University. For information, interested parties may contact the PhD Unit, telephone numbers: 090 676 8716/8502/8286/8277/8281 e-mail: [dottorati@unime.it](mailto:dottorati@unime.it).

## Art. 16 Final Rules

Although not expressly mentioned in this Call, reference is made to the current legislation on the subject, and in particular to the rules contained in Art. 4 of Law 210/1998, in Art. 19 of Law No. 240/2010, in D.M. No. 226/2021 and in the Regulation of the PhD courses of the University of Messina (D.R. No. 834/2022), in Legislative Decree No. 81/2015 and subsequent amendments and additions, in the Regulation for the discipline of the patent activity of the University of Messina (D.R. No. 2773/2020), including those contained in the Agreements for the establishment of PhD courses in agreement and/or for the financing of scholarships, in the rules concerning the PNRR and/or other funds or research Projects established by the Funder, including the guidelines, as well as in the other current provisions.

Participation in the procedure implies, as previously acquired, consent to the release of the documents presented and of the minutes of the competition, in the case of a request by the other competitors, pursuant to the legislation on access to documents.

The University assumes no responsibility for the dispersion of communications resulting from inaccurate indications of residence and telephone numbers and email by the candidate or failure or late communication of the change of the same, nor for any IT errors not attributable to the fault of the University itself.

This Decree, written both in Italian and in the English language, will be published on the register of the University at the following links <https://archivio.unime.it/it/ateneo/amministrazione/albo-online> and <https://www.unime.it/bandi-e-concorsi>.

The Call will be published also on the EU websites Euraxess and on the website of the Italian Ministry of University and Research.

THE RECTOR  
Professor Salvatore Cuzzocrea

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 1

#### Title of the PhD course

**PhD course in:** ADVANCED CATALYTIC PROCESSES FOR USING RENEWABLE ENERGY SOURCES (ACCESS)

**PhD Coordinator:** Prof. Gabriele Centi  
E-mail: [centi@unime.it](mailto:centi@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://advanced-catalytic-processes.phd.unime.it/it>

#### Affiliated Institutions/Companies

- ENI Spa
- ERIC A.I.S.B.L
- Versalis Spa – Milan
- Waste to Methane Srl
- Techfem Spa
- Casale SA
- ITEA Spa

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. No 117/2023</b></p> <p><i>M4C2 – Inv. 3.3. "Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies"</i></p> <p>CUP J14D23001350009</p>	<p><b>No 5 ENI Spa</b></p>	<p><i>General topic:</i> Integrated direct capture of CO<sub>2</sub> and conversion into efuel through an innovative approach</p> <ol style="list-style-type: none"> <li>1. Innovative electrocatalytic electrodes and devices for the conversion of CO<sub>2</sub> to methane from diluted emissions</li> <li>2. Functionalised nanoporous films for the selective capture and transport of CO<sub>2</sub> (expected activity at UniSA)</li> <li>3. Spectroscopic characterisation and reaction mechanism analysis in electrocatalytic materials and CO<sub>2</sub> adsorbents (expected activity at UniTO)</li> <li>4. Development of MOFs and analogous materials for the selective capture of CO<sub>2</sub> for insertion into functionalised membranes to be coupled to electrocatalytic devices (expected activity at UniMIB)</li> <li>5. Development and molecular engineering of electrocatalysts for the selective conversion of CO<sub>2</sub> to methane (expected activity at UniPD)</li> </ol>	<p>The research program includes a 6 month research period in the company, and a 6 month research period abroad.</p>
	<p><b>No 1 ERIC A.I.S.B.L</b></p>	<p>Decarbonisation of processes through the electrification of catalytic reactors</p>	

	<b>No 1 Versalis Spa</b>	Development of non-thermal plasma technology for the catalytic conversion of CO <sub>2</sub> and CH <sub>4</sub>	
	<b>No 1 W2M Waste to Methane Srl</b>	Reduction of the net production of CO <sub>2</sub> from anaerobic digestion processes for the production of bio-methane through biological and catalytic techniques	
	<b>No 1 Techfem Spa</b>	Development of innovative materials/processes for renewable H <sub>2</sub> , also through the valorisation of carbon dioxide.	
	<b>No 1 Casale SA</b>	Combination of non-thermal plasma and electrocatalysis for the direct production of ammonia from N <sub>2</sub> and water	
<b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1</i> <i>“PNRR Research”</i> CUP J44D23000870002	<b>No 1</b>	Innovative catalytic technologies for the direct use of renewable energy	The research program includes a 6 month research period abroad.
<b>Positions reserved for employees of affiliated companies and/or entities (Executive PHD Course)</b>	<b>No 1 ITEA Spa</b>	Transformation of CO <sub>2</sub> into e-fuels and development of new sustainable industrial processes for the decarbonisation of production processes and enhancement of CO <sub>2</sub>	
<b>PHD Scholarships funded by further University resources</b>	<b>No 2 SCOPE project research grant</b> CUP J44I19000040006	(Development of integrated non-thermal catalysis-plasma devices to convert CH <sub>4</sub> , CO <sub>2</sub> or N <sub>2</sub> )	
<b>Positions without scholarship</b>	<b>No 4</b>		

### Type of qualification required

All the Master's degrees.

Knowledge of catalysis, industrial processes, chemistry and physics of plasma and materials are required, which although not a prerequisite for admission, will be one of the elements of evaluation of the candidates.

### Other requirements for foreign students:

Verification of level B2 equivalent or higher in English at the time of admission to the PhD.

### Procedures and criteria for the selection and evaluation of candidates

#### 1. Titles

The maximum score attributable to the qualifications will be **30/100** points.

#### 2. Project

The maximum score attributable to the project will be **20/100** points.

It is pointed out that the PHD Scholarships funded *ex* D.M. 117/2023 and D.M. n. 118/2023, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree N° 117/2023 and by the art. 8 of Ministerial Decree N° 118/2023.

### 3. Examination: oral test

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
July 21 <sup>st</sup> , 2023 - 14:30	Telematic mode

The maximum score attributable to oral test will be 50/100 points, with a minimum score to be exceeded by 20/100 points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 2

#### Title of the PhD course

**PhD course in:** **BIOINGEGNERIA APPLICATA ALLE SCIENZE MEDICHE (Bioengineering Applied to Medical Sciences)**

**PhD Coordinator:** **Professor Michele Gaeta**  
E-mail: [michele.gaeta@unime.it](mailto:michele.gaeta@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://bioingegneria-applicata-scienze-mediche.phd.unime.it/it>

#### Affiliated Institutions/Companies

- Dental Hi Tech Srl
- Mega Gen Italia Srl
- Micerium Spa

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 117/2023</b> <i>M4C2 – Inv. 3.3. "Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies"</i> CUP J34D23000900009	<b>No 1 Dental Hi Tech Srl</b>	The research topic is the redesign and updating of the dental unit, after adequate experimentation, to fully exploit the possibilities of digitization in this field. The candidate must have a dental degree.	The research program includes a 12 -month research period in the company, and a 6 -month research period abroad.
	<b>No 1 MegaGen Italia Srl</b>	The research topic is the evaluation of the different characteristics of the surfaces of implant abutments, their treatment methods and surface interactions. The candidate must have a dental degree.	
	<b>No 1 Micerium Spa</b>	The research topic is the analysis of the biomechanical systems of different types of orthodontic brackets and arches. The candidate must have a dental degree.	
<b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1 "PNRR Research"</i> CUP J44D23000880002	<b>No 4</b>	The research topics, starting from technological and biomedical knowledge, must be inherent to interdisciplinary and innovative research activities for an improvement of productivity and competitiveness in the private and corporate sector, in companies and industries of design, production and marketing of the biomedical sector: development of materials, devices, processing algorithms, designed and developed in synergy between researchers in the various areas and which together form the development chain from basic concepts to creation of new solutions and/or methodologies. Furthermore, technology transfer is well regarded, strongly believing that the industrial research of new PhD	The research program includes a 6-month research period abroad.



		students can fall within and broaden the objectives of the PNRR.	
<b>PHD Scholarships funded by further University resources</b>	<b>N° 1 SAMOTHRACE</b>  CUP - J43C22000310006	In the context of the development of wearable sensory systems for real-time monitoring of vital parameters (e.g. blood oxygenation, blood pressure, PPG, heart rate, neuromuscular functions) and of chronic diseases with a dismetabolic imprint (e.g. diabetes), the PhD student will participate in the analysis of the data received and the evaluation of their statistical and clinical significance, collaborating in the validation of the same by verifying consistency with the anamnestic and objective information already in possession. He will also collaborate on the activities of task 3.5 related to the development of the platform dedicated to the integration of data from the various sensor devices, as well as data storage and their remote management. The candidate will have informatics, medical or biomedical skills and a degree in disciplines of the CUN AREAS: 02, 06.	
<b>Positions without scholarship</b>	<b>N° 2</b>		

Type of qualification required:

LM-09 Biotecnologie mediche, veterinarie e farmaceutiche (Medical, veterinary and pharmaceutical Biotechnologies)  
 LM-17 Fisica (Physics)  
 LM-18 Informatica (Computer Science)  
 LM-21 Ingegneria biomedica (Biomedical Engineering)  
 LM-25 Ingegneria dell'automazione (Automation Engineering)  
 LM-29 Ingegneria elettronica (Electronic Engineering)  
 LM-32 Ingegneria informatica (Computer Engineering)  
 LM-33 Ingegneria meccanica (Mechanical Engineering)  
 LM-40 Matematica (Mathematics)  
 LM-41 Medicina e chirurgia (Medicine and Surgery)  
 LM-44 Modellistica matematico-fisica per l'ingegneria (Mathematical-physical modelling for engineering)  
 LM-46 Odontoiatria e protesi dentaria (Dentistry and dental prosthesis)  
 LM-53 Scienza e ingegneria dei materiali (Science and Material Engineering)  
 LM-54 Scienze chimiche (Chemical Sciences)

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications will be **15/100** points.

**2. Project**

The maximum score attributable to the project will be **20/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. 117/2023* and *D.M. n. 118/2023* and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree N° 117/2023 and by the art. 8 of Ministerial Decree N° 118/2023.

### 3. Examination: oral test

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
10:00 of 18 July 2023	Online

The maximum score attributable to oral test will be **65/100** points, with a minimum score to be exceeded by **42/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 3

#### Title of the PhD course

**PhD course in:** **BIOLOGIA APPLICATA E MEDICINA SPERIMENTALE (Applied Biology and Experimental Medicine)**

**Curricula:** In the application form the candidate will have to specify the curriculum of the PhD course for which he/she intends to participate:

1. Medicina Sperimentale (Experimental Medicine);
2. Scienze Biologiche ed Ambientali (Biologic and Environmental Sciences);
3. Scienze del Farmaco (Pharmacological Sciences).

**PhD Coordinator:** **Professor Nunziacarla Spanò**  
E-mail: [nunziacarla.spano@unime.it](mailto:nunziacarla.spano@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://biologia-applicata-e-medicina-sperimentale.phd.unime.it/it>

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 117/2023</b> <i>M4C2 – Inv. 3.3. “Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies”</i> CUP J44D23001120009	<b>No 2 SEA in HEALTH and LIFE S.r.l.</b>	Exploring Mediterranean soft bottom benthic biodiversity, from transitional environments to the deep sea.  Reconstructing habitat use and population structure of Mediterranean teleosts through diet composition and otolith analysis.	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1 “PNRR Research”</i> CUP J44D23000890002	<b>No 5</b>	Climate changes. Emerging environmental and food contaminants. Bioactive molecules from marine organisms.	The research program includes a 6 month research period abroad.
<b>PHD Scholarships funded by further</b>	<b>No 1 SAMOTHRACE</b> CUP - J43C22000310006	Use of smart chemical sensors for the monitoring of environmental contaminants.	

<b>University resources</b>	<b>N<sub>o</sub> 2 ANTHEM</b>	Genetical insights in neurodegenerative diseases. Drug delivery for Glioblastoma treatment.	
<b>PHD Scholarships funded by public institutions</b>	<b>N<sub>o</sub> 1 INAIL</b>	Development and application of innovative analytical methods for the identification of pathogenic fungal agents and mycotoxins in the zootechnical field	
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 4</b>		

Type of qualification required:

LM-6 Biologia (Master's degree in Biology)

LM-9 Biotecnologie mediche, veterinarie e farmaceutiche (Master's degree in Medical, veterinary and pharmaceutical Biotechnologies)

LM-13 Farmacia e farmacia industriale (Master's degree in Pharmacy and industrial Pharmacy)

LM-41 Medicina e chirurgia (Medicine and surgery)

LM-60 Scienze della natura (Master's degree in Natural Sciences)

6/S (specialistiche in biologia) (Master's degrees in Biology)

9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche) (Master's degrees in medical, veterinary and pharmaceutical biotechnologies)

14/S (specialistiche in farmacia e farmacia industriale) (Master's degrees in pharmacy and industrial pharmacy)

68/S (specialistiche in scienze della natura) (Master's degrees in natural sciences)

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

**2. Project**

The maximum score attributable to the project will be **20/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. n. 117/2023* and *D.M. n. 118/2023* and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by art. 8 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

<b>Exam date</b>	<b>Procedures</b>
<b>24/07/2023 - 9:00</b> <b>Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche e Ambientali</b>	<b>Oral Test in person or remotely</b>

The maximum score attributable to oral test will be **60/100** points, with a minimum score to be exceeded by **42/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 4

#### Title of the PhD course

**PhD course:** ECONOMICS, MANAGEMENT AND STATISTICS

**Curricula:** In the application form the candidate will have to specify the *curriculum* of the PhD course for which he/she intends to participate:

1. Economics;
2. Management;
3. Statistics.

**PhD Coordinator:** Prof. Fabrizio Cesaroni  
E-mail: [fabrizio.cesaroni@unime.it](mailto:fabrizio.cesaroni@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://economics-management-statistics.phd.unime.it/it>

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1 “Public Administration”</i></p> <p>CUP J44D23000980002</p>	<p><b>No 4</b></p>	<ul style="list-style-type: none"> <li>• Vulnerability and social inclusion of women, immigrants and the elderly</li> <li>• Corporate Reporting and Climate Change: New challenges for shared-value creation</li> <li>• Accounting and Accountability for natural hazards</li> <li>• Policies on public spending and procurement during the pandemic and post-pandemic period: impact on corruption and efficiency in public administration.</li> <li>• Discrimination in public administration: a field experiment on promotion procedures, career advancement, and benefit allocation</li> </ul>	<p>The research program includes a 6-month research period in the company, and a 6-month research period abroad.</p>
<p><b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1 “PNRR Research”</i></p> <p>CUP J44D23000900002</p>	<p><b>No 1</b></p>	<ul style="list-style-type: none"> <li>• Digital Technologies, Innovation, and Ethics: A Multi-faceted Investigation into the Intersection between Technology and Ethics</li> <li>• Exploring the Implications of Generative Artificial Intelligence (Gen-AI): an Investigation on Creativity and Innovation Management</li> </ul>	<p>The research program includes a 6-month research period abroad.</p>
<p><b>Positions without scholarship</b></p>	<p><b>No 1</b></p>		

Type of qualification required:

**All the Master's degrees.**

The Academic Board may request to PhD students who achieved a degree in areas with limited economic, managerial and/or statistical courses to integrate their curriculum with specific courses.

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

**2. Project**

The maximum score attributable to the project will be **30/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. n. 118/2023*, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by the art. 8 and 9 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

<b>Exam date</b>	<b>Procedures</b>
<b>July 21, 2023 – 9:00 am</b>	<b>Online</b>

The maximum score attributable to oral test will be **50/100** points, with a minimum score to be exceeded by **30/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 5

#### Title of the PhD course

**PhD course in:** **FISICA (Physics)**

**PhD Coordinator:** **Professor Vincenza Crupi**  
E-mail: [vincenza.crupi@unime.it](mailto:vincenza.crupi@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://fisica.phd.unime.it/it>

#### Affiliated Institutions/Companies

- ST Microelectronics S.r.l. – Italia
- INGV

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 117/2023</b> <i>M4C2 – Inv. 3.3.</i> <i>“Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies”</i> CUP J14D23001360009	<b>N<sub>o</sub> 2 ST Microelectronics Srl</b>	<b>SCHOLARSHIP 1:</b> Methodological characterization through experimental analysis and relative physical modeling of power electronic devices with a view to optimizing reliability.  <b>SCHOLARSHIP 2:</b> Characterization & Modeling: Design Technology Co-Optimization.	The research program includes a 6 months research period in the company, and a 6 months research period abroad.
<b>PHD Scholarships funded ex D.M. No 118/2023</b>			
<i>M4C1 – Inv. 3.4</i> <i>“Environmental and Digital Transition”</i> CUP J44D23001080002	<b>N<sub>o</sub> 1</b>	In the field of physical sciences, studies on sustainable energy sources for environmental protection also through digital solutions and development of technologies and innovative materials.	The research program includes a 6 months research period in the company, and a 6 months research period abroad.
<i>M4C1 – Inv. 4.1</i> <i>“Cultural heritage”</i> CUP J44D23001060002	<b>N<sub>o</sub> 1</b>	In the field of physical sciences, diagnostics, conservation, monitoring, maintenance and fruition of cultural heritage through interventions based on environmental sustainability.	The research program includes a 6 months research period in the company, and a 6 months research period abroad.



<i>M4C1 – Inv. 4.1 “PNRR Research”</i>  CUP J44D23000910002	<b>No 1</b>	In the field of physical sciences studies aimed at the development of technological and/or material solutions to strengthen innovation, sustainability, competitiveness and/or protection of the territory.	The research program includes a 6 months research period abroad.
<b>Scholarships funded by affiliated institutions</b>	<b>No 1 INGV</b>	Studies in the field of Terrestrial Physics and the Environment with regard to physics applied to the study of natural fluids from submarine hydrothermal systems	
<b>PHD Scholarships funded by further University resources</b>	<b>No 1 SAMOTHRACE</b> CUP - J43C22000310006	New digital systems for materials and devices for energy conversion and storage	
<b>Positions without scholarship</b>	<b>No 3</b>		

Type of qualification required

**Scholarships funded D.M. No. 117/2023:**

- **Scholarship n. 1:** Master's degree preferably in Physics or in Engineering.
- **Scholarship n. 2:** Master's degree preferably in Physics, Electronic Engineering, Mathematics.

**Scholarships funded D.M. No. 118/2023:**

- All master's degree.

**Scholarship funded by Public Institution (INGV):**

- Master's degree in physics or in Geophysical Sciences for Seismic Risk.

**Scholarships funded with other University resources (SAMOTHRACE):**

- All master's degree.

**Positions without scholarship:**

- All master's degree.

Knowledge in the various experimental/applicative, theoretical/simulation fields of the physics of matter and nuclear and subnuclear physics is required.

Other requirements for foreign students:

Knowledge of written and spoken English.

Procedures and criteria for the selection and evaluation of candidates

**1. Qualifications**

The maximum score attributable to the qualifications will be **15/100** points.

**2. Project**

The maximum score attributable to the project will be **15/100** points.

The project must be 3 pages long at most including any bibliography and must contain a brief presentation of the scientific problem, a description of the methodology to be applied and a summary of the possible expected results.

It is pointed out that, in relation to the scholarships financed by D.M. 117/2023 and 118/2023 and PHD Scholarships referred to the PNRR, the research project must be developed by the candidate taking into consideration the above-mentioned topics related to the funded scholarship and the

eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the artt. 7, 8 and 10 of Ministerial Decree No 118/2023.

### 3. Examination: oral test (interview)

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
July 24 <sup>th</sup> , 2023 at 09:30 am	Blended mode (in presence/on remote) B Building 1 <sup>st</sup> floor Room B1-2 Papardo Science Hub

**On remote mode is exclusively addressed to foreign candidates and to those who are unable to participate in person for justified reasons.**

The maximum score attributable to oral test will be **70/100** points, with a minimum score to be exceeded by **42/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 6

#### Title of the PhD course

**PhD course in:** INGEGNERIA (Engineering)

**Curricula:** In the application form the candidate will have to specify the *curriculum* of the PhD course for which he/she intends to participate:

1. Ingegneria Industriale (Industrial Engineering);
2. Ingegneria dell'Informazione (Information Engineering);
3. Ingegneria Civile e Architettura (Civil Engineering and Architecture).

**PhD Coordinator:** Professor Proverbio Edoardo  
E-mail: [edoardo.proverbio@unime.it](mailto:edoardo.proverbio@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://ingegneria-industriale-informazione.phd.unime.it/it>

#### Affiliated Institutions/Companies

- ANAS Spa
- ASP Messina
- CNR-ITAE
- Fire Spa
- SACERTIS Ingegneria S.r.l.
- Sonatrach S.r.l.
- IOT SQUADRA PB Scarl

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF POSITIONS/ PHD SCHOLARSHIP	RESEARCH TOPICS RELATED TO FUNDED SCHOLARSHIPS	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 117/2023</b>  <i>M4C2 – Inv. 3.3. “Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of</i>	<b>N<sub>o</sub> 1 ANAS Spa</b>	<i>Corrosion estimation and damage forecasting models of post-tensioned tendons for risk assessment of prestressed concrete structures.</i>	The research program includes a 9 month research period in the company, and a 9 month research period abroad.
	<b>N<sub>o</sub> 1 ASP Messina</b>	<i>Monitoring and development of thermo-energetic management models of healthcare structures obtained also through the adoption of enabling technologies.</i>	
	<b>N<sub>o</sub> 1 CNR ITAE</b>	<i>Thermal energy storage systems and technologies based on thermochemical adsorption processes.</i>	
	<b>N<sub>o</sub> 1 Fire Spa</b>	<i>Artificial Intelligence techniques for the decision support in credit management.</i>	

<i>researchers in companies"</i>  CUP J84D23001060009	<b>N<sub>o</sub> 1 SACERTIS Ingegneria S.r.l.</b>	<i>Safety evaluation of road infrastructures through unconventional dynamic monitoring techniques and approaches with OMA methodologies.</i>	The research program includes a 9 month research period in the company, and a 9 month research period abroad
	<b>N<sub>o</sub> 1 Sonatrach S.r.l.</b>	<i>Technical-economic studies for production processes of green hydrogen, biofuels and synthetic fuels (e-fuels) on an industrial scale.</i>	
	<b>N<sub>o</sub> 1 IOT SQUADRA PB Scarl</b>	<i>Trusted Cyber Physical Systems for applications in industrial environments</i>	
<b>PHD Scholarships funded ex D.M. No 118/2023</b>			
<i>M4C1 – Inv. 4.1 "Public Administration"</i> CUP J44D23000990002	<b>N<sub>o</sub> 1</b>	<i>Innovative organizational models in the public control system for conducting Seveso inspections in plants at major accident risk in the context of the digital and energy transition.</i>	The research program includes a 9 month research period in the company, and a 9 month research period abroad
<i>M4C1 – Inv. 4.1 "Cultural heritage"</i>  CUP J44D23001100002	<b>N<sub>o</sub> 1</b>	<i>The protection, conservation and enhancement of the historical significance of the building fabric in the historic centers of mountain municipalities through action protocols and architectural monitoring.</i>	
<b>PHD Scholarships funded by further University resources</b>	<b>N. 1-A SAMOTHRACE</b> CUP - J43C22000310006	<i>Technologies and on-board monitoring systems for green boats in a context of sustainable and safe mobility, to support the digitization of maritime transport.</i>	
	<b>N. 1 - B SAMOTHRACE</b> CUP - J43C22000310006	<i>Deep learning algorithms for the recognition and classification of anomalies on data from sensors with particular focus on the detection of plant diseases.</i>	
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 3</b>	-	

Type of qualification required

- LM-4 Architettura e ingegneria edile-architettura (Architecture and building engineering-architecture)
- LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale) (Architecture and building engineering-architecture (five-year))
- LM-13. Farmacia e farmacia industriale (Pharmacy and industrial pharmacy)
- LM-17 Fisica (Master's degree in Physics)
- LM-18 Informatica (Master's degree in Computer Science)
- LM-20 Ingegneria aerospaziale e astronautica (Master's degree in Aerospace and astronautics engineering)
- LM-21 Ingegneria biomedica (Master's degree in Biomedical Engineering)
- LM-22 Ingegneria chimica (Chemical Engineering)
- LM-23 Ingegneria civile (Civil Engineering)
- LM-24 Ingegneria dei sistemi edilizi (Building systems engineering)
- LM-25 Ingegneria dell'automazione (Master's degree in Automation Engineering)
- LM-26 Ingegneria della sicurezza (Master's degree in Safety Engineering)

LM-27 Ingegneria delle telecomunicazioni (Master's degree in Telecommunications Engineering)  
LM-28 Ingegneria elettrica (Master's degree in Electrical Engineering)  
LM-29 Ingegneria elettronica (Master's degree in Electronic Engineering)  
LM-30 Ingegneria energetica e nucleare (Master's degree in Energy and nuclear engineering)  
LM-31 Ingegneria gestionale (Master's degree in Management Engineering)  
LM-32 Ingegneria informatica (Master's degree in Computer Engineering)  
LM-33 Ingegneria meccanica (Master's degree in Mechanical Engineering)  
LM-34 Ingegneria navale (Master's degree in Naval Engineering)  
LM-35 Ingegneria per l'ambiente e il territorio (Engineering for the environment and the territory)  
LM-40 Matematica (Master's degree in Mathematics)  
LM-44 Modellistica matematico-fisica per l'ingegneria (Master's degree in Mathematical Physical Modelling for Engineering)  
LM-53 Scienza e ingegneria dei materiali (Master's degree in Materials science and Engineering)  
LM-54 Scienze chimiche (Master's degree in Chemical Sciences)  
LM-71 Scienze e tecnologie della chimica industriale (Master's degree in Sciences and technologies of industrial chemistry)  
LM-72 Scienze e tecnologie della navigazione (Master's degree in Sciences and technologies of navigation)  
LM Sc. Mat. Scienze dei materiali (Master's degree in Materials Science)  
LM-53. Ingegneria dei materiali (Master's degree in Material Engineering)  
4/S (specialistiche in architettura e ingegneria edile) (Master's Degree in Architecture and Building Engineering)  
20/S (specialistiche in fisica) (Master's degrees in physics)  
23/S (specialistiche in informatica) (Master's degree in computer science)  
25/S (specialistiche in ingegneria aerospaziale e astronautica) (Master's degree in Aerospace and astronautics engineering)  
26/S (specialistiche in ingegneria biomedica) (master's degrees in biomedical engineering)  
27/S (specialistiche in ingegneria chimica) (master's degrees in chemical engineering)  
28/S (specialistiche in ingegneria civile) (Master's degree in civil engineering)  
29/S (specialistiche in ingegneria dell'automazione) (master's degrees in automation engineering)  
30/S (specialistiche in ingegneria delle telecomunicazioni) (master's degrees in telecommunications engineering)  
31/S (specialistiche in ingegneria elettrica) (master's degrees in electrical engineering)  
32/S (specialistiche in ingegneria elettronica) (master's degrees in electronic engineering)  
33/S (specialistiche in ingegneria energetica e nucleare) (master's degrees in energy and nuclear engineering)  
34/S (specialistiche in ingegneria gestionale) (master's degrees in management engineering)  
35/S (specialistiche in ingegneria informatica) (master's degrees in computer engineering)  
36/S (specialistiche in ingegneria meccanica) (master's degrees in mechanical engineering)  
37/S (specialistiche in ingegneria navale) (master's degrees in naval engineering)  
38/S (specialistiche in ingegneria per l'ambiente e il territorio) (Master's Degree in Environmental and Territorial Engineering)  
45/S (specialistiche in matematica)  
61/S (specialistiche in scienza e ingegneria dei materiali) (master's degrees in materials science and engineering)  
62/S (specialistiche in scienze chimiche) (master's degrees in chemical sciences)  
81/S (specialistiche in scienze e tecnologie della chimica industriale) (Master's degree in Sciences and technologies of industrial chemistry)

[Other requirements for foreign students:](#)

Knowledge of Italian or English language

## Procedures and criteria for the selection and evaluation of candidates

### 1. Titles

The maximum score attributable to the qualifications will be **20/100** points.

### 2. Project

The maximum score attributable to the project will be **30/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. 117/2023* and *D.M. n. 118/2023* and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the art. 9 and 10 of Ministerial Decree No 118/2023.

### 3. Examination: oral test

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
<b>09:00 am CEST on July 21<sup>st</sup>, 2023</b>	<b>online</b>

The maximum score attributable to oral test will be **50/100** points, with a minimum score to be exceeded by **30/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 7

#### Title of the PhD course

**PhD course in:** **MATEMATICA E SCIENZE COMPUTAZIONALI (Mathematics and Computational Sciences)**

**Curricula:** The candidates must indicate on the application the curriculum of the course he intends to participate:

1. Pure Mathematics
2. Applied Mathematics
3. Computational Sciences

**PhD Coordinator:** **Professor Oliveri Francesco**  
E-mail: [francesco.oliveri@unime.it](mailto:francesco.oliveri@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:

<https://matematica-e-scienze-computazionali.phd.unime.it/it>

#### Affiliated Institutions/Companies

- INGV
- CNR - IBF Istituto di Biofisica

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 118/2023</b> <i>M4C1 – Inv. 4.1</i> <i>“Public Administration”</i>  CUP J44D23001000002	<b>No 1</b>	Innovative Workflows Orchestrated Through Computing Continuum Architectures. Machine Learning algorithms for Big Data. AI algorithms for decision-making processes of public administrations. Analysis of network security (financial transactions). Creation and analysis of knowledge networks for investigating social phenomena.	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<b>PHD Scholarships funded by affiliated Public Institution</b>	<b>No 1 INGV</b>	Data Science and AI applications to volcanic processes	
<b>PHD Scholarships funded by PNRR research project funds</b>	<b>No 1 CNR - IBF Istituto di Biofisica</b> Funded by "IR00011 - EBRAINS-Italy - M4C2" Project funds	Computational neuroscience (modelling, data analysis, high performance computing). Mathematical models of neurons and neuronal networks. Computational approaches for neuronal networks and comparison with experimental data.	

<b>Positions funded by other Universities</b>	<p><b>N<sub>o</sub> 3 University of Palermo D.M. n. 118/2023</b> <i>M4C1 – Inv. 4.1 “PNRR Research”</i></p> <p>CUP J24D23000690002</p>	<p>Models and mathematical methods for image reconstruction. Mathematical theory of optimal transport and applications. Computer vision in agri-food. Computational models in artificial vision. Encryption applied to security. PDE and variational methods in river flood modeling. Mathematical models for optimizing the energy efficiency of power electronic converters (variational methods, direct methods or topological methods). Mathematical models for graded nanomaterials and thermoelectric efficiency. PDE mathematical models for neurodegenerative diseases. Mathematical models in epidemiology. Computational models, algorithms and data structures for the management, analysis, and indexing of big data.</p>	<p>The research program includes a 6 month research period abroad.</p>
	<p><b>N<sub>o</sub> 1 Università di Palermo</b></p>		
	<p><b>N<sub>o</sub> 1 University of Catania D.M. n. 118/2023</b> <i>M4C1 – Inv. 3.4 “Environmental and Digital Transition”</i></p> <p>CUP J14D23001370002</p>	<p>Mathematical models of ecological systems. Mathematical models for desertification. Mathematical models for environmental pollution.</p>	<p>The research program includes a 6 month research period in the company, and a 6 month research period abroad.</p>
	<p><b>N<sub>o</sub> 1 University of Catania RESTART - PNRR project</b></p>	<p>Deterministic and stochastic optimization in networks and dynamical systems.</p>	
	<p><b>N. 1 University of Catania NQSTI – PNRR project</b></p>	<p>Quantum effects and charge transport in new technologies and new materials. Thermal transport and energy dissipation in low dimensional structures.</p>	
<b>PHD Scholarships funded by University/MUR</b>	<b>N<sub>o</sub> 2</b>		
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 4</b>		

Type of qualification required

All Master’s degrees.

During the admission tests, the candidate, in addition to illustrating in detail to the Commission the articulation of the research project, the state of the art and the methods he intends to use, will have



to demonstrate his basic preparation in the mathematical and computational disciplines and his critical capacity, with particular reference to the project issues.

[Procedures and criteria for the selection and evaluation of candidates](#)

**1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

**2. Project**

The maximum score attributable to the project will be **30/100** points.

It is pointed out that the PHD Scholarships funded *ex* D.M. n. 118/2023 and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the art. 7, 8 and 9 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
24/07/2023, 10:00 a.m.	ONLINE

The maximum score attributable to oral test will be **50/100** points, with a minimum score to be exceeded by **26/100** points.

During the interview, the knowledge of the **English** language is verified.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PhD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 8

#### Title of the PhD course

**PhD course in:** SCIENZE CHIMICHE (Chemical Sciences)

#### Curricula:

In the application form the candidate will have to specify the curriculum of the PhD course for which he/she intends to participate:

1. Progettazione, Sintesi, Analisi e Proprietà di Sistemi Molecolari Funzionali (Design, synthesis, analysis and properties of functional molecular systems)
2. Chimica e Tecnologie Farmaceutiche e Nutraceutico-Alimentari (Pharmaceutical, nutraceutical and food chemistry and chemical technologies)

**PhD Coordinator:** Professor De Stefano Concetta  
E-mail: [concetta.destefano@unime.it](mailto:concetta.destefano@unime.it)

Information on the characteristics of the PhD Course can be found on the website:  
<https://scienze-chimiche.phd.unime.it/it>

#### Affiliated Institutions/Companies

- Agrumaria Reggina S.r.l
- MEDIVIS S.r.l.

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF PhD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PhD Scholarships funded ex D.M. No 117/2023</b> <i>M4C2 – Inv. 3.3.                      “Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies”</i>  CUP J44D23001130009	<b>No 1 Agrumaria Reggina S.r.l</b>	The research topic related to the scholarship will concern: Development, for the enhancement of the company's sustainability, of new methods for the recovery and concentration of flavours from the citrus juice process waters to improve their olfactory and gustatory aspects according to their possible reuse within the company or introduce new products into the market.	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
	<b>No 1 MEDIVIS S.r.l.</b>	The research topic related to the scholarship will concern: Development of biomaterials based on supramolecular and/or covalent hydrogels capable of carrying molecules of natural origin and activating/releasing them <i>on demand</i> for targeted antimicrobial therapy	

PhD Scholarships funded ex D.M. No 118/2023			
<i>M4C1 – Inv. 3.4 “Environmental and Digital Transition”</i>  CUP J44D23001090002	<b>N<sub>o</sub> 1</b>	The research topics related to the scholarship will concern: advanced chemical methodologies for the synthesis and characterization of new sustainable materials for energy conversion, signal transduction and sensing, prevention of environmental damage.	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<i>M4C1 – Inv. 4.1 “Cultural heritage”</i>  CUP J44D23001070002	<b>N<sub>o</sub> 1</b>	The research topics related to the scholarship will concern: chemistry and technology for the characterisation, conservation, restoration and monitoring of Cultural Heritage.	
<i>M4C1 – Inv. 4.1 “PNRR Research”</i>  CUP J44D23000920002	<b>N<sub>o</sub> 4</b>	The research topics related to the funded scholarships will concern: Chemical processes and innovative materials, advanced chemical methodologies, the preparation of products of pharmaceutical and nutraceutical-food interest, nanotechnologies, energy conversion and information processing, isolation and structural characterization of active ingredients, drug delivery, analytical and toxicological control of synthetic and natural products, Structural Chemistry, solution equilibria thermodynamics, and control and prevention of environmental damage	The research program includes a 6 month research period abroad.
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 3</b>		

Type of qualification required

All the Master’s degrees.

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications will be **30/100** points.

**2. Project**

The maximum score attributable to the project will be **10/100** points.

It is pointed out that the PhD Scholarships funded ex D.M. 117/2023 and D.M. n. 118/2023, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the art. 7, 8 and 10 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
<b>July 24th 2023 9:00 a.m. CET</b>	The exams will take place in mixed mode: <ul style="list-style-type: none"><li>• in presence <b>Room A 1-2 of Department of Chemical, Biological, Pharmaceutical and Environmental Sciences</b> on Polo Papardo</li><li>• "remotely" on Microsoft TEAMS platform. The remote mode can be used by students who find themselves in one of the conditions summarized below:<ul style="list-style-type: none"><li>- candidates who are personally beneficiaries of the benefits pursuant to law no. 104/1992 art. 3;</li><li>- foreign or Italian candidates residing abroad who are not on the national territory.</li></ul></li></ul>

The maximum score attributable to oral test will be **60/100** points, with a minimum score to be exceeded by **36/100** points.

The oral exam consists of an interview aimed at verifying the knowledge, the ability, the aptitude for scientific research and the motivations of the candidates; this interview is aimed at verifying the knowledge of the candidates on topics concerning the educational and methodological guidelines of the PhD course and may include, where applicable, the discussion of the proposed research project

During the interview, the knowledge of the **required language is verified.**

**For foreign candidates, the oral exam can be held in English.**

**Minimum overall assessment to be considered eligible: 60/100 points**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 9

#### Title of the PhD course

**PhD course in:** SCIENZE COGNITIVE (Cognitive Sciences)

**Curricula:** In the application form the candidate will have to specify the curriculum of the PhD course for which he/she intends to participate:

1. Filosofie del linguaggio e della mente, psicologia e scienze dell'evoluzione (Language and mind philosophies, psychology and evolutionary sciences)
2. Teorie e tecnologie sociali, territoriali, dei media e delle arti performative (Social, territorial, media and performing arts theories and technologies)

**PhD Coordinator:** Professor Alessandra Maria Falzone

E-mail: [alessandra.falzone@unime.it](mailto:alessandra.falzone@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:

<https://scienze-cognitive.phd.unime.it/it>

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 118/2023</b>			
<i>M4C1 – Inv. 4.1 “Public Administration” CUP J44D23001010002</i>	<b>N<sub>o</sub> 3</b>	Artificial intelligence and performative processes in information technologies, communication, social technologies and media	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<i>M4C1 – Inv. 4.1 “PNRR Research” CUP J44D23000930002</i>	<b>N<sub>o</sub> 3</b>	Philosophies of cognition and innovation in psychology and cognitive neuroscience.	The research program includes a 6 month research period abroad.
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 2</b>		

#### Type of qualification required

**All Master's degrees.**

#### Procedures and criteria for the selection and evaluation of candidates

##### **1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

## 2. Project

The maximum score attributable to the project will be **10/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. n. 118/2023*, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by the art. 8 and 9 of Ministerial Decree N° 118/2023.

## 3. Examination: oral test

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
25/07/2023, 9:30 am	<b>The oral examination will take place in-person in Messina, at COSPECS Department. Candidates can ask to be remotely examined (by video conference)</b>

The maximum score attributable to oral test will be **70/100** points, with a minimum score to be exceeded by **35/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 10

#### Title of the PhD course

**PhD course in:** SCIENZE DELLE PUBBLICHE AMMINISTRAZIONI (Public Administrations Sciences)

**PhD Coordinator:** Professor Daniela Novarese  
E-mail: [daniela.novarese@unime.it](mailto:daniela.novarese@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://scienze-delle-pubbliche-amministrazioni.phd.unime.it/it>

#### Positions and scholarships available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. n. 118/2023</b> <i>M4C1 – Inv. 4.1 “Public Administration”</i></p> <p>CUP J44D23001020002</p>	N <sub>o</sub> 6	<p>Research topic regard the following research areas:</p> <ul style="list-style-type: none"> <li>• Democratic participation, administrative transparency and privacy protection in digitalized public administration;</li> <li>• National and EU public security: cybersecurity in the Next generation EU and PNRR;</li> <li>• Public administration through algorithms and artificial intelligence systems;</li> <li>• The new principles and methods of awarding public contracts according to Legislative Decree 36/2023 in the perspective of implementation of the PNRR and ecological transition objectives;</li> <li>• Loyal collaboration and tools of connection between State, Regions and Local Authorities regarding the implementation of art. 116 co. 3 of the Constitution;</li> <li>• The impact of Constitutional Law 1/2022: environmental law, intergenerational responsibility and animal protection.</li> </ul>	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<b>Positions without scholarship</b>	N <sub>o</sub> 2		

#### Type of qualification required

- LMG/01 Classe delle lauree magistrali in giurisprudenza (Class of Master's degrees in Law)
- LM-52 Relazioni internazionali (Master's degree in International Relations)
- LM-56 Scienze dell'economia (Master's degree in Economics)
- LM-63 Scienze delle pubbliche amministrazioni (Master's degree in Public Administration Sciences)
- LM-76 Scienze economiche per l'ambiente e la cultura (Master's degree in Environmental and Cultural Economics)

LM-77 Scienze economico-aziendali (Master's degree in Economic-Business Sciences)  
LM/SC-GIUR Scienze Giuridiche (Master's degree in Legal Sciences)  
22/S (specialistiche in giurisprudenza) (Master's degrees in Law)  
60/S (specialistiche in relazioni internazionali) (Master's degrees in International Relations)  
64/S (specialistiche in scienze dell'economia) (Master's degrees in Economics)  
71/S (specialistiche in scienze delle pubbliche amministrazioni) (Master's degrees in Public Administration Sciences)  
83/S (specialistiche in scienze economiche per l'ambiente e la cultura) (Master's degree in Environmental and Cultural Economics)  
84/S (specialistiche in scienze economico-aziendali) (Master's degree in Economic-Business Sciences)  
LMG/01 (GIURISPRUDENZA) (Master's degree in Law)

[Procedures and criteria for the selection and evaluation of candidates](#)

**1. Titles**

The maximum score attributable to the qualifications will be **30/100** points.

**2. Project**

The maximum score attributable to the project will be **30/100** points.

It is pointed out that the PHD Scholarships funded *ex* D.M. n. 118/2023, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 9 of Ministerial Decree N° 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
July 20, 2023 9:00 a.m.	<b>Mixed mode (in presence Department of Political and Juridical Sciences, Piazza XX Settembre 1-4, Messina and online)</b>

The maximum score attributable to oral test will be **40/100** points, with a minimum score to be exceeded by **25/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.



## **PUBLIC COMPETITION, BASED ON QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE**

### **ATTACHMENT No. 11**

Title of the PhD course

**PhD course in:** **SCIENZE GIURIDICHE (Legal Sciences)**

**Curricula:**

In the application, the candidates must indicate the curriculum of the course for which they aim to participate:

1. Organization of power and protection of fundamental rights from a constitutional and historical-theoretical perspective
2. Civil law. Person and market in national, comparative, and European law
3. Criminal law protection and personal guarantees in national, comparative, and European law: substantial and processual profiles
4. Business, transport, and public administration 4.0
5. Legal goods and social inequalities

**PhD Coordinator:** **Professor Concetta Parrinello**  
E-mail: [concetta.parrinello@unime.it](mailto:concetta.parrinello@unime.it)

Information on the characteristics of the PhD Course are available on the website:

<https://scienze-giuridiche.phd.unime.it/it>

Positions available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. n. 118/2023</b> M4C1 – Inv. 4.1 “Public Administration” CUP J44D23001030002</p>	<p><b>No 4</b></p>	<p><b>Curriculum 1)</b> Organization of power and protection of fundamental rights from a constitutional and historical-theoretical perspective. <b>Themes/content:</b> Organization of public administrations before the challenges posed by innovation and protection of fundamental rights within a constitutional, theoretical, historical and ecclesiastical perspective (disciplines involved: IUS/08, IUS/11, IUS/18, IUS/19, IUS/20).</p> <p><b>Curriculum 2)</b> Civil law. Person and market in national, comparative, and European law. <b>Themes/content:</b> Digital and ecological transition: profiles in private law, labour law and agrarian law (disciplines involved: IUS/01, IUS/02, IUS/03, IUS/07).</p> <p><b>Curriculum 3)</b> Criminal law protection and personal guarantees in national, comparative, and European law: substantial and processual profiles. <b>Themes/content:</b> Criminal law protection of collective goods and issues related to fundamental rights in the era or the digital and ecological transition. (disciplines involved: IUS/14, IUS/16, IUS/17).</p> <p><b>Curriculum 4)</b> Business, transport, and public administration 4.0. <b>Themes/content:</b> Processes of eco-digital transition of public administrations and services: profiles in administrative law, transport law, company law and tax law (disciplines involved: IUS/04, IUS/05, IUS/06, IUS/10, IUS/12).</p>	<p>The research program includes a 6-month research period in a company, public administration or research centre and a 6-month research period abroad</p>

<p><b>PHD Scholarships funded by further University resources Departments of Excellence</b></p>	<p>No 2</p>	<p><b>Curriculum 5)</b> Legal goods and social inequalities <b>Themes/content:</b> An international and interdisciplinary research in legal frameworks and the accessibility of environmental, cultural, digital and bio-economic goods (disciplines involved: IUS/01, IUS/02, IUS/04, IUS/06, IUS/08, IUS/10, IUS/11, IUS/12, IUS/16, IUS/17, IUS/18, IUS/20).</p>	
<p><b>Positions without Scholarship</b></p>	<p>No 2</p>		

Type of qualification required:

LMG/01 Classe delle lauree magistrali in giurisprudenza (Master's degree classes in Law)  
22/S (specialistiche in giurisprudenza) (Master's degree classes in Law)  
LMG/01 GIURISPRUDENZA  
Laurea in giurisprudenza (V.O.) (Master's degree classes in Law)

Other requirements for foreign students:

basic knowledge of Italian language.

Requirements for students that intend to participate in the selection for scholarships funded by extra University resources (Dept. of Excellence)

For candidates who are non-native speakers in English, it is mandatory to have a linguistic certification of their knowledge of English of level B (minimum).

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications (degrees, other titles, etc.) will be **30/100** points.

**2. Project**

The maximum score attributable to the project will be **35/100** points.

It must be underlined that, for the PHD Scholarships funded ex D.M. n. 118/2023, the research project must be elaborated according to the themes and contents abovementioned for each curriculum as they relate to the scholarship funded and to the criteria for admission as per art. 9, D.M. n. 118/2023.

The research project must consist of overall max 35000 characters (including spaces) and must contain also an appropriate bibliography about one of the themes contained in the text of the public competition and must relate to at least one of the disciplines indicated for the curriculum chosen, all in pdf and signed.

Moreover, **it must be noted that - as far as the scholarships funded with other University resources (Dept. of Excellence) are concerned - the research project must be written in English** and must consist of overall max 35000 characters (including spaces) and must contain also an appropriate bibliography about one of the themes contained in the text of the public competition and must relate to at least one of the disciplines indicated for the curriculum chosen, all in pdf and signed.

**Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
July 21, 2023, h. 9.00 Faculty of Law, Piazza Pugliatti, 1	In presence for candidates resident in Italy and online for candidates resident in other countries

The maximum score attributable to oral test will be **35/100** points, with a minimum score to be exceeded by **21/100** points.

During the interview, the knowledge of the English language is verified.

**The oral exam relative to the scholarships funded with other University resources (Dept. of Excellence) will be in English.**

Minimum overall assessment to be considered eligible: **60/100** points.

Full details of the participation procedure can be found in the PhD Call.

## **PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE**

### **ATTACHMENT No. 12**

[Title of the PhD course](#)

**PhD course in:**        **SCIENZE POLITICHE (Political Sciences)**

**PhD Coordinator:**    **Professor Giuseppe Bottaro**  
E-mail: [giuseppe.bottaro@unime.it](mailto:giuseppe.bottaro@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://scienze-politiche.phd.unime.it/it>

[Positions available for competition](#)

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. No 118/2023</b></p>			
<p><i>M4C1 – Inv. 4.1 “Public Administration” CUP J44D23001040002</i></p>	<p><b>N<sub>o</sub> 7</b></p>	<p>The research topics of the PhD in Political Science are:            1) the study of contemporary history and political, economic and social processes, with particular reference to the Italian context, the European Union and the American continent;            2) the in-depth analysis of the construction of the modern state regarding historical, theoretical, institutional, political and sociological profiles;            3) the analysis of the principles of participation, sharing, solidarity and trust, as values that favor the social and territorial integration of the most disadvantaged groups in urban and rural contexts, promoting communitarianism and forms of active democracy;            4) the analysis of the new strategies and languages of political communication;            5) the historical, political, legal and sociological study of international relations and cooperation relationships, with particular reference to European integration and the challenges posed by globalization;            6) the analysis of migratory processes, the consequent decline of mono-culturalism and the related juridical and political confrontation between collective and individual rights (especially women's rights) and the new dimensions of citizenship.            The lines of research active in the Doctorate in Political Sciences are based on Area 11 – “Historical, Philosophical, Pedagogical and Psychological Sciences”, Area 12 – “Legal Sciences” and Area 14 – “Political and Social Sciences” and are organic to the objectives set for the PNRR research doctorates (DM 118/2023, art. 8), and for research related to doctorates in Public Administration (DM 118/2023, art. 9).</p>	<p>The research program includes a 6month research period in the company, and a 6 month research period abroad.</p>
<p><i>M4C1 – Inv. 4.1 “PNRR Research” CUP J44D23000940002</i></p>	<p><b>N<sub>o</sub> 2</b></p>	<p>The research topics of the PhD in Political Science are:            1) the investigation of the dynamics of environmental, digital, cultural and institutional change and transition in the context of globalization;            2) the analysis of the major issues of constitutionalism, democracy and governance processes, in a historical, juridical and comparative perspective, with</p>	<p>The research program includes a 6 month research period abroad.</p>

		particular regard to the most recent developments in the European and international context.	
<b>Positions without scholarship</b>	<b>N<sub>o</sub> 3</b>		

### Type of qualification required

LMG/01 Classe delle lauree magistrali in giurisprudenza (Class of Master's degrees in Law)  
 LM-19 Informazione e sistemi editoriali (Master's degree in Information and Editorial Systems)  
 LM-52 Relazioni internazionali (Master's degree in International Relations)  
 LM-62 Scienze della politica (Master's degree in Political Sciences)  
 LM-63 Scienze delle pubbliche amministrazioni (Master's degree in Public Administration Sciences)  
 LM-78 Scienze filosofiche (Master's degree in Philosophical Sciences)  
 LM-84 Scienze storiche (Master's degree in Historical Sciences)  
 LM-87 Servizio sociale e politiche sociali (Master's degree in Social Service and Social Policies)  
 LM-88 Sociologia e ricerca sociale (Master's degree in Sociology and Social Research)  
 LM-90 Studi europei (Master's degree in European Studies)  
 LM-92 Teorie della comunicazione (Master's degree in Theories of Communication)  
 18/S (specialistiche in filosofia teoretica, morale, politica ed estetica)(Master's degrees in Theoretical, moral, political and aesthetic philosophy)  
 22/S (specialistiche in giurisprudenza) (Master's degrees in Law)  
 60/S (specialistiche in relazioni internazionali) (Master's degrees in International relations)  
 67/S (specialistiche in scienze della comunicazione sociale e istituzionale)(Master's degrees in Social and institutional communication sciences)  
 70/S (specialistiche in scienze della politica) (Master's degrees in Political Sciences)  
 71/S (specialistiche in scienze delle pubbliche amministrazioni) (Master's degrees in Public administration sciences)  
 88/S (specialistiche in scienze per la cooperazione allo sviluppo) (Master's degree in Sciences for cooperation in development)  
 89/S (specialistiche in sociologia) (Master's degrees in Sociology)  
 94/S (specialistiche in storia contemporanea) (Master's degrees in contemporary history)  
 96/S (specialistiche in storia della filosofia) (Master's degrees in the History of philosophy)  
 99/S (specialistiche in studi europei) (Master's degrees in European studies)  
 101/S (specialistiche in teoria della comunicazione) (Master's degrees in Communication theory)

### Procedures and criteria for the selection and evaluation of candidates

#### **1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

#### **2. Project**

The maximum score attributable to the project will be **20/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. n. 118/2023*, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by the art. 8 and 9 of Ministerial Decree N<sub>o</sub> 118/2023.

#### **3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
<b>July 20, 2023, 9.00 a.m.</b> <b>Department of Political and Juridical Sciences</b> <b>Piazza XX Settembre, 1-4 - Messina</b>	<b>Mixed mode (in presence and online)</b>

The maximum score attributable to oral test will be **60/100** points, with a minimum score to be exceeded by **42/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

**Full details of the participation procedure can be found in the PhD Call.**



## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 13

Title of the PhD course

**PhD course in:** **SCIENZE UMANISTICHE (Humanistic Sciences)**

**Curricula:**

In the application form the candidate will have to specify the curriculum of the PhD course for which he/she intends to participate:

1. Filologia Antica e Moderna (Ancient and Modern Philology)
2. Antropologia e Storia dal Medioevo all'età contemporanea (Anthropology and History from the Middle Ages to the Contemporary Age)
3. Archeologia e Storia Antica (Archaeology and Ancient History)
4. Filosofia (Philosophy)

**PhD Coordinator:** **Professor Caterina Malta**

E-mail: [caterina.malta@unime.it](mailto:caterina.malta@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:

<https://scienze-umanistiche.phd.unime.it/it>

Positions available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<b>PHD Scholarships funded ex D.M. No 118/2023</b>			
<i>M4C1 – Inv. 4.1 "Cultural heritage" CUP J44D23001110002</i>	<b>N<sub>o</sub> 4</b>	Archaeology. History of cultural heritage, in line with the research areas of the doctoral program: historical, anthropological, philosophical, philological-literary. Palaeography. Aesthetics.	The research program includes a 6 month research period in the company, and a 6 month research period abroad.
<i>M4C1 – Inv. 4.1 "Public Administration" CUP J44D23001050002</i>	<b>N<sub>o</sub> 1</b>	Archives and assets of public administration: the contribution of historical and anthropological methodology. Archives and assets of public administration: the contribution of philology. Archives and assets of public administration: the contribution of archaeological studies. Professional ethics and philosophical-legal foundations of public administration. Communicative strategies of public administration.	
<i>M4C1 – Inv. 4.1 "PNRR Research" CUP</i>	<b>N<sub>o</sub> 4</b>	Italian literature; Italian philology; Medieval and Humanistic philology and literature (Greek, Latin, vernacular texts);	The research program includes a 6 month research period abroad.

J44D23000950002		<p>Author archives; History of the Italian language and linguistics; Classical philology; Greek literature; Latin literature.</p> <p>Anthropology; Medieval history; Modern history; Contemporary history; History of religions; History of Christianity and of Churches.</p> <p>Ancient history; Ancient and medieval numismatics; Archaeology.</p> <p>Theoretical philosophy; Moral philosophy; History of philosophy; Philosophy of science; Aesthetics.</p>	
<b>Positions without scholarship</b>	<b>N° 3</b>		

Type of qualification required

- LM-1 Antropologia culturale ed etnologia (Master's degree in Cultural Anthropology and Ethnology)
- LM-2 Archeologia (Master's in Archaeology)
- LM-5 Archivistica e biblioteconomia (Master's degree in Archival Science and librarianship)
- LM-11 Scienze per la conservazione dei beni culturali (Master's degree in Science for the conservation of cultural heritage)
- LM-14 Filologia moderna (Master's degree in Modern Philology)
- LM-15 Filologia, letterature e storia dell'antichità (Master's degree in Philology, literature and history of antiquity)
- LM-19 Informazione e sistemi editoriali (Master's degree in Information and publishing systems)
- LM-39 Linguistica (Master's degree in Linguistics)
- LM-52 Relazioni internazionali (Master's degree in International Relations)
- LM-62 Scienze della politica (Master's degree in Political Sciences)
- LM-63 Scienze delle pubbliche amministrazioni (Master's degree in public administration sciences)
- LM-64 Scienze delle religioni (Master's degree in Religious Sciences)
- LM-78 Scienze filosofiche (Master's degree in Philosophical Sciences)
- LM-80 Scienze geografiche (Master's degree in Geographical Sciences)
- LM-84 Scienze storiche (Master's degree in Historical Sciences)
- LM-14 Filologia moderna (abilitazione A043) Master's degree in Modern Philology (qualification A043)
- 1/S (specialistiche in antropologia culturale ed etnologia) (master's degrees in cultural anthropology and ethnology)
- 2/S (specialistiche in archeologia) (master's degrees in archeology)
- 5/S (specialistiche in archivistica e biblioteconomia) (master's degrees in archival science and librarianship)
- 13/S (specialistiche in editoria, comunicazione multimediale e giornalismo) (master's degrees in publishing, multimedia communication and journalism)
- 15/S (specialistiche in filologia e letterature dell'antichità) (master's degrees in philology and literature of antiquity)
- 16/S (specialistiche in filologia moderna) (master's degrees in modern philology)
- 17/S (specialistiche in filosofia e storia della scienza) (master's degrees in philosophy and history of science)
- 18/S (specialistiche in filosofia teoretica, morale, politica ed estetica) (master's degrees in theoretical, moral, political and aesthetic philosophy)
- 24/S (specialistiche in informatica per le discipline umanistiche) (master's degrees in computer science for the humanities)
- 40/S (specialistiche in lingua e cultura italiana) (master's degrees in Italian language and culture)

- 44/S (specialistiche in linguistica) (master's degrees in linguistics)
- 70/S (specialistiche in scienze della politica) (master's degrees in political sciences)
- 72/S (specialistiche in scienze delle religioni) (master's degrees in religious sciences)
- 93/S (specialistiche in storia antica) (master's degrees in ancient history)
- 94/S (specialistiche in storia contemporanea) (master's degrees in contemporary history)
- 96/S (specialistiche in storia della filosofia) (master's degrees in history of philosophy)
- 97/S (specialistiche in storia medievale) (master's degrees in medieval history)
- 98/S (specialistiche in storia moderna) (master's degrees in modern history)
- 99/S (specialistiche in studi europei) (master's degrees in European studies)

### Procedures and criteria for the selection and evaluation of candidates

#### **1. Titles**

The maximum score attributable to the qualifications will be **15/100** points.

#### **2. Project**

The maximum score attributable to the project will be **15/100** points.

It is pointed out that the PHD Scholarships funded *ex D.M. n. 118/2023*, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by the art. 8, 9 and 10 of Ministerial Decree No 118/2023.

#### **3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

<b>Exam date</b>	<b>Procedures</b>
<b>July 19, 2023</b>	At 8.30, in rooms D and E of the former Pharmacy Department complex - Viale Annunziata

The interview will also include:

- a) Presentation and discussion of the research project;
- b) Verification of the candidate's language proficiency as indicated in the application (choice among English, French, German, or Spanish).

The maximum score attributable to oral test will be **70/100** points, with a minimum score to be exceeded by **50/100** points.

**Minimum overall assessment to be considered eligible: 60/100 points.**

**Full details of the participation procedure can be found in the PhD Call.**

## **PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE**

### **ATTACHMENT No. 14**

#### Title of the PhD course

**PhD course in:** **SCIENZE VETERINARIE, BIOTECNOLOGICHE E AGRARIE (VETERINARY BIOTECHNOLOGICAL AND AGRICULTURAL SCIENCES)**

#### **Curricula:**

In the application form the candidate will have to specify the curriculum of the PhD course for which he/she is enrolling for participate:

1. Morfo-fisiologia e Biotecnologie applicate Morfofisiologia e Biotecnologie applicate (Morpho-Physiology and Applied Biotechnologies)
2. Sanità Pubblica veterinaria e Sicurezza Alimentare (Public Veterinary Health and Food)
3. Scienze cliniche veterinarie (Clinical Veterinary Sciences)
4. Tecniche e tecnologie agrarie, agroalimentari e zootecniche sostenibili (Sustainable agricultural, agri-food and zootechnical techniques and technologies)

**PhD Coordinator:** **Professor Francesco Fazio**  
E-mail: [francesco.fazio@unime.it](mailto:francesco.fazio@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://scienze-veterinarie.phd.unime.it/it>

#### Affiliated Institutions/Companies

1. Azienda agricola Calderone Antonino
2. Clinica Veterinaria Camagna S.r.l.
3. N. 1 Flortecnica S.r.l.
4. Primer S.r.l.
5. Rabat Pharmacy Group
6. Mangimi Di Pasquale S.r.l.
7. Ospedale Veterinario SAN FRANCESCO di Treviso Vet srl
8. Riconnexia S.r.l.s
9. Leocata Mangimi SPA
10. Azienda Agricola San Gregorio

#### Positions available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. No 117/2023</b> M4C2 – Inv. 3.3. “Introduction to innovative PhDs responding to the innovation needs of companies and promoting the recruitment of researchers within companies” CUP J24D23000700009</p>	<p><b>N. 1 Azienda agricola Calderone Antonino</b></p>	<p>Grassing in the vineyard</p>	<p>The research program includes a 18 month research period in the company, and a 6 month research period abroad.</p>
	<p><b>N. 1 Clinica Veterinaria Camagna S.r.l.</b></p>	<p>Pre-operative investigation and monitoring in dogs undergoing emergency surgery</p>	
	<p><b>N. 1 Florteca S.r.l.</b></p>	<p>Sustainable cultivation techniques in ornamental and medicinal plants</p>	
	<p><b>N. 1 Primer S.r.l.</b></p>	<p>Resilience of limited native dog breeds</p>	
	<p><b>N. 2 Rabat Pharmacy Group</b></p>	<p>Endangered animal biodiversity</p>	
	<p><b>N. 1 Leocata Mangimi SPA</b></p>	<p>Diseases affecting broiler performance and welfare</p>	
	<p><b>N. 1 Azienda Agricola San Gregorio</b></p>	<p>Bone disease in beef cattle: clinical and post-sectioning aspects</p>	
<p><b>PHD Scholarships funded ex D.M. No 118/2023</b> M4C1 – Inv. 4.1 “PNRR Research” CUP J44D23000960002</p>	<p><b>N. 5</b></p>	<p>Subjects relating to projects in the fields of medical, pharmaceutical, surgical, obstetrical and reproductive methodologies and the related national and EU legislative aspects applicable in the veterinary field; moreover, subjects relating to research in the field of veterinary public health, food inspection and food safety; basic veterinary sciences, animal welfare protection and biotechnologies applied to experimentation on in vivo and in vitro models and, finally, subjects relating to research in the field of veterinary public health, animal welfare and biotechnologies applied to experimentation on in vivo and in vitro models. A. and food safety; of basic veterinary sciences, animal welfare and biotechnologies applied to experimentation on in vivo and in vitro models and, finally, research topics in the field of animals, food, agricultural and plant production for the management of eco-sustainable agri-food systems.</p>	<p>The research program includes a 6 month research period abroad.</p>
<p><b>Positions reserved for employees of affiliated companies and/or entities (Executive PHD Course)</b></p>	<p><b>N. 1 Mangimi Di Pasquale s.r.l.</b></p>	<p>Feeding Technologies for Livestock</p>	
	<p><b>N. 1 Ospedale Veterinario SAN FRANCESCO di Treviso Vet srl</b></p>	<p>Evaluation and sensitivity of serum Creatine Kinase (CK) enzyme in the detection of acute thoracolumbar spinal neurological disorders in dogs.</p>	
	<p><b>N. 1 Riconnexia S.r.l.s</b></p>	<p>Study of innovative methods for the determination of shelf life in perishable foods of animal origin.</p>	

<b>PHD Scholarships funded by further University resources</b>	<b>No 1 SAMOTHRACE CUP</b> J43C22000310006	Identification of the main contaminants in agriculture; development of micro-sensors for monitoring pollutants in agricultural water.	
<b>Positions without scholarship</b>	<b>No 5</b>		

Type of qualification required:

For the Azienda agricola Calderone Antonino e Flor TECNICA S.r.l. scholarships a degree in Agricultural Sciences and Technologies (LM69) is required.

For the Clinica Veterinaria Camagna S.r.l. scholarship a degree in Veterinary Medicine is required.

For all other posts/bursuaries, the following are accepted  
All Master's degrees.

Other requirements for foreign students:

Knowledge of the English language.

Procedures and criteria for the selection and evaluation of candidates

**1. Titles**

The maximum score attributable to the qualifications will be **20/100** points.

**2. Project**

The maximum score attributable to the project will be **10/100** points.

It is pointed out that the PHD Scholarships funded ex D.M. 117/2023 and D.M. n. 118/2023 and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the art. 8 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

<b>Exam date</b>	<b>Procedures</b>
<b>July 24 July 2023</b> <b>10 a.m.</b>	The conduct of the admission tests will be carried out in telematic mode, through computer platforms, which can be reached by accessing teams.microsoft.com, virtual classroom "TELEMATIC MODE ADMISSION EXAMINATION - XXXIX CYCLE DOCTORATE."

The address of the above virtual Teams Classroom (teams.microsoft.com) is as follows:

[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_ZmYxOTgwMGUtODBkNi00OTRkLWFhNGEtZGI3OGNIMTRmZjMy%40thread\\_v2/0?context=%7b%22tid%22%3a%2284679d45-8346-4e23-8c84-a7304edba77f%22%2c%22oid%22%3a%22f939bc3e-c03c-4cd6-8013-a7dcf5b0b372%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZmYxOTgwMGUtODBkNi00OTRkLWFhNGEtZGI3OGNIMTRmZjMy%40thread_v2/0?context=%7b%22tid%22%3a%2284679d45-8346-4e23-8c84-a7304edba77f%22%2c%22oid%22%3a%22f939bc3e-c03c-4cd6-8013-a7dcf5b0b372%22%7d)

The maximum score attributable to oral test will be 70/100 points, with a minimum score to be exceeded by 42/100 points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE ADMISSION TO PHD COURSES - 39<sup>TH</sup> CYCLE

### ATTACHMENT No. 15

#### Title of the PhD course

**PhD course in:** TRANSLATIONAL MOLECULAR MEDICINE AND SURGERY

**PhD Coordinator:** Professor Gaetano Caramori  
E-mail: [gaetano.caramori@unime.it](mailto:gaetano.caramori@unime.it)

Information on the characteristics of the PhD Course can be consulted on the website:  
<https://scienze-veterinarie.phd.unime.it/it>

#### Affiliated Institutions/Companies

- UCB Pharma S.p.a
- COT S.p.a.

#### Positions available for competition

AVAILABLE POSITIONS	TYPE OF PHD SCHOLARSHIP	SCHOLARSHIP JOINED RESEARCH TOPIC	PROCEDURE FOR CARRYING OUT THE TRAINING PROJECT
<p><b>PHD Scholarships funded ex D.M. No 117/2023</b> M4C2 – Inv. 3.3. "Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies" CUP J84D23001070009</p>	<p><b>N° 1 UCB Pharma S.p.a</b></p>	<p>Research proposal regarding the discovery of new molecular markers of neuromuscular disorders, using biomolecular techniques. The ideal candidate should hold a degree in LM6 or LM9</p>	<p>The research program includes a mandatory 6 months research period in the company, and a 6 months research period abroad.</p>
<p><b>PHD Scholarships funded ex D.M. No 117/2023</b> M4C2 – Inv. 3.3. "Introduction to innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers in companies" CUP J84D23001070009</p>	<p><b>N° 1 COT S.p.a</b></p>	<p>Research proposal regarding the research of biomarkers in bone specimens that could predict the clinical outcome of bone surgery and in particular of osteo-integration following robotic or traditional procedures - the ideal candidate should hold a degree in LM6 or LM9.</p>	<p>The research program includes a mandatory 6 months research period in the company, and a 6 months research period abroad.</p>



<p><b>PHD Scholarships funded ex D.M. No 118/2023</b>  <i>M4C1 – Inv. 4.1 “PNRR Research”</i>                  CUP                  J44D23000970002</p>	<p><b>N° 6</b></p>	<p>Research proposal on the topics of the translational research in medical and bio-molecular sciences, focusing on aspects related to the wellbeing of the general population in accordance with the principles of the PNRR- the ideal candidate should hold a degree in LM6 or LM9 or LM13 or LM41 or LM67</p>	<p>The research program includes a mandatory 6 months research period abroad.</p>
<p><b>PHD Scholarships funded by further University resources</b></p>	<p><b>N° 1 SAMOTHRACE</b>                  CUP -                  J43C22000310006</p>	<p>Research proposal focus on devices useful for the monitoring of vital parameters (e.g. blood oxygenation, blood pressure, PPG, heart rate, neuromuscular functions) and of chronic diseases with a dismetabolic imprint (e.g. diabetes). The ideal candidate should hold a degree in LM41, LM6 or LM9 and perform research activities within the framework of the Samothrace research group</p>	
<p><b>Positions without scholarship</b></p>	<p><b>N° 3</b></p>		

[Type of qualification required](#)

LM-6 Biologia (Master’s degree in Biology)

LM-9 Biotecnologie mediche, veterinarie e farmaceutiche (Master’s degree in Medical, veterinary and pharmaceutical Biotechnologies)

LM-13 Farmacia e Farmacia Industriale (Master’s degree in Pharmacy and Industrial Pharmacy)

LM-41 Medicina e Chirurgia (Master’s degree in Medicine and Surgery)

LM-67 Scienze e tecniche delle attività motorie preventive e adattate (Master’s degree in Sciences and techniques of preventive and adapted motor activities)

[Procedures and criteria for the selection and evaluation of candidates](#)

**1. Titles**

The maximum score attributable to the qualifications will be **10/100** points.

**2. Project**

The maximum score attributable to the project will be **40/100** points.

It is pointed out that the PHD Scholarships funded ex D.M. 117/2023 and D.M. n. 118/2023 and the PHD Scholarships referred to the PNRR, the research project on specific topics of the Doctorate must be elaborated by the candidate taking into consideration for the places in the restricted Project concerning the disciplinary areas and the topics referred to, as well as in the eligibility criteria established by art. 7 of Ministerial Decree No 117/2023 and by the art. 8 of Ministerial Decree No 118/2023.

**3. Examination: oral test**

The exam will take place on the date and according to the procedures hereafter referred.

Exam date	Procedures
17/7/2023 3:00 pm	Microsoft Teams

The maximum score attributable to oral test will be **50/100** points, with a minimum score to be exceeded by **20/100** points.

During the interview, the knowledge of the **English language is verified**.

**Minimum overall assessment to be considered eligible: 60/100 points.**

Full details of the participation procedure can be found in the PhD Call.