



Università degli Studi di Messina

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES ACTIVATED AT THE UNIVERSITY OF MESSINA 36TH CYCLE

THE RECTOR

- IN VIEW OF the Law No. 476 of 13th August 1984 "Regulations on scholarships and PhD course in Universities" and subsequent amendments;
- IN VIEW OF the Law No. 168 of 9th May 1989, that established the Ministry of University and Scientific and Technological Research;
- IN VIEW OF the Law No. 241 of 2nd August 1990, containing "Rules on administrative procedure and right of access to administrative documents" and subsequent amendments and additions;
- IN VIEW OF the Law No. 210 of 3rd July 1998, with particular reference to art. 4 and subsequent amendments;
- IN VIEW OF the European Union Regulation No. 679 of 27th April 2016, regarding the protection of personal data (G.D.P.R.);
- IN VIEW OF the Ministerial Decree No. 270 of 22nd October 2004, with particular reference to articles 3 and 6 and subsequent amendments;
- IN VIEW OF the electronic Bulletin No. 14, 23rd-24th January 2008 of the CUN relating to the assignment of master's degrees to the CUN Areas;
- IN VIEW OF the art. 19 paragraph 1 of the Law No. 240 of 30th December 2010, which modified art. 4 of the Law No. 210 of 3rd July 1998, containing rules on the PhD courses;
- IN VIEW OF the articles 7 and 8 of EU Regulation 1304/2013 on promoting equality between men and women, increasing the sustainable participation and progress of women in the employment sector, combating the feminization of poverty;
- IN VIEW OF the University Statute, issued with D.R. No. 1244 of 14th May 2012 (published in the Official Gazette - General Series No. 116 of 19th May 2012) and modified with D.R. No. 3429 of 30th December 2014 (published in the Official Gazette - General Series No.8 of 12th January 2015);
- IN VIEW OF the Ministerial Decree No.45 of 8th February 2013 "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 Regulations of the University of Messina concerning the PhD courses, issued with D.R. No .1015/2016 of 3rd May 2016;
- IN VIEW OF the Student Contribution Regulations issued with D.R. No.18 of 8th January 2019;
- IN VIEW OF the Ministerial Decree No. 40 of 25th January 2018, that ordered the increase of the *gross* annual amount of PhD scholarships;
- IN VIEW OF the "Guidelines for the accreditation of the offices and PhD courses", as per the official Ministerial Note No.3315 of 1st February 2019 and the "Operational indications on the accreditation procedures of the PhD courses A.A. 2020/21 – 36th Cycle ", referred to in the Ministerial Notes No.7757 of 11th March 2020 and No.8034 of 16th March 2020;

IN VIEW OF the Ministerial Decree No.989 of 25thOctober 2019 with which the "General guidelines for the planning of the 2019-2021 Universities and indicators for evaluating the results" were defined, and in particular, Attachment 1 which, for the Objective D - "Internationalization", indicates among the reference Indicators for the evaluation of the results the "Proportion of PhD students who have spent at least 3 months abroad";

IN VIEW OF the resolutions of the Academic Senate of 14th May 2020 and the Board of Directors of 15th May 2020, which approved the 36th Cycle PhD courses, the awarding of the related scholarships, and authorized the stipulated agreements for the activation and/or financing of the courses, as well as the start of the selection procedures for admission to the 36th Cycle PhD courses ";

IN VIEW OF the resolutions of the Academic Senate and the Board of Directors of 27th June 2019, concerning the "Contribution relating to PhD Courses";

IN VIEW OF the opinion of the Evaluation Team expressed in the session of 21st May 2020 prot. No.46470, in order to verify the requirements of the proposed research PhD courses;

IN VIEW OF ANVUR opinions, published on the dottorati.miur.it website, relating to the accreditation and renewals of doctoral courses in the XXXVI cycle "- academic year 2020/2021;

GIVEN THAT in the PhD course in Translational Molecular Medicine and Surgery one more additional position without scholarship was added into the course description in the accreditation renewal process as deliberated by the academic bodies in the sessions of 14thand 15thMay 2020, remaining the A6 sustainability requirement of the Course, as the percentage of positions with scholarship remains above 75% of the available positions;

IN VIEW OF the agreements and the letters of intent with universities and public or private research bodies and Italian foreign companies for the activation and operation of the PhD courses, as specified in the attachments to this decree (attachments 1-14);

IN VIEW OF the Public Announcement published by INPS, addressed to Universities and aimed at the selection of PhD programs, for the academic year 2019-2020, in the field of industry 4.0, sustainable development, welfare and well-being, statistical and actuarial sciences, "For the disbursement of 100 scholarships for PhD courses additional to those financed by the MIUR and reserved for children and orphans enrolled in the Unified Management of credit and social benefits and retired users of the Public Employee Management", and the subsequent Public announcement, published by INPS on 6th December 2019, which regulates the provision of scholarships for the children and orphans of members of the Unified Management of credit and social benefits and retired users of the Public Employee Management, admitted to PhD courses with the attachments;

IN VIEW OF Legislative Decree No. 18 of 17th March 2020, converted into Law No. 27 of 24th April 2020 and the subsequent D.L. No. 34 of 19th May 2020.

IN VIEW OF the Circular Rep. No. 19/2020 of 5thMay 2020, concerning the "*Directions in order to containment measures and emergency epidemiological management Covid-19, referred to D.P.C.M. 26thApril2020* ";

IN VIEW OF the Ministerial Decree No. 62 of 6thMay 2020, (published in the Official General Series No. 141 of 4th June 2020) concerning the "Definition of the list of particularly poor countries for the 2020/2021 academic year";

GIVEN THAT the positions and scholarships may be increased should further funding become available from other entities, including foreign ones, without prejudice to the deadlines for submitting the application for admission;

WITH RESERVE regarding any subsequent modifications and/or additions to the announcement that will be publicized on the website of the University of Messina at <https://www.unime.it/it/ricerca/dottorati-ricerca/bandi-dottorati-di-ricerca>;

D E C R E E S

Art. 1 Institution

The 36th Cycle of PhD Courses with administrative headquarters at the University of Messina (hereinafter referred to as the University) is established, and the relative comparative selections are announced for the admission to the A.A. 2020/2021 better described in the Attachment to this decree (attachments 1-14).

In the aforementioned Attachment, which form an integral part of the announcement, are indicated:

- the title of the PhD Course;
- the characteristics of the PhD program and employment opportunities;
- the positions offered for competition with and without scholarship;
- the positions of Industrial PhD with obliged Theme/Project;
- the positions reserved for employees of affiliated companies (Industrial/Executive PhD);
- any positions reserved for specific categories;
- forms of financial support, from research funds or other University resources, including research grants;
- the possibility for candidates to choose whether to take the exams in Italian or in another language;
- the type of qualification required;
- the methods and criteria for the selection and evaluation of candidates;
- any other documents requested and/or different procedures, pursuant to art. 10 of the PhD Regulations at the University of Messina, hereinafter referred as Regulations.

The duration of the PhD Courses is three academic years and the beginning of the Courses is scheduled for 1stOctober 2020.

Art. 2 PhD courses in agreement

PhD courses are activated at the University of Messina in agreement with universities and/or public and private research bodies, as well as with institutions and companies (Industrial PhD), including foreign ones, better described in attachments. 1-14.

In the aforementioned attachments are indicate any reserved positions with obliged Theme/Projectand/or positions of Industrial/Executive PhD, the latter reserved for employees of companies affiliated with the University and engaged in high-level qualified activities.

The positions with scholarships funded by INPS, reserved for children and orphans of members of the Unified Management of Credit and Social Benefits and retired users of the Public Employee Management are also indicated.

The positions linked to single Themes/Projects, as well as those of Industrial/Executive PhD will be assigned in accordance with the criteria established in attachments 1-14 and in the modalities described in the following art. 7.

In particular, without prejudice to the access requirements pursuant to the following art. 3

- ✓ for the reserved positions with scholarship financed by INPS, candidates must be in possession of the additional requirements required by the public announcement of the Institute, which can be consulted at <https://www.inps.it/NuovoportaleINPS/default.aspx?itemdir=53249&lang=IT>, and specifically will have to self-certify the status of child or orphan of employee or pensioner

registered in the Unified Management of credit and social benefits or the retired user of the Public Employee Management.

- ✓ for the reserved positions of Industrial/Executive PhD, candidates must certify that they have an employment relationship with the Body/Company that activated the PhD Course in agreement with the University of Messina and that they are committed in highly qualified activities.

The individual agreements regulate the relations, contributions and commitments of the Parties, the organization of the Course, the specific management of financial resources and the teaching and instrumental resources made available for each Course.

Art. 3

Admission requirements

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

a) those who, **at the deadline of the announcement**, have obtained the specialist degree (D.M. No. 509/1999), or alternatively, the Master's degree diploma (D.M. 270/2004), or the degree diploma (old system), or a similar academic qualification, also obtained abroad, and declared equivalent, or recognized as suitable for admission to 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 announcement**, **provided that** they achieve the qualification required for participation by 31stOctober 2020, under penalty of forfeiture of admission, in the event of a successful selection.

In the latter hypothesis, candidates who pass the selection tests and enroll in a PhD course, after obtaining the title, and in any case **no later than 31stOctober 2020**, must send to the Rector of the University of Messina (by PEC at the protocol.pec@unime.it, or by hand delivery at the University's registry office or by registered letter with return receipt sent to the address: Piazza Pugliatti, 1 - 98122 Messina), the self-certification relating to the achievement of the qualification together with a valid identification card (or certification, in case of academic qualification obtained in countries not belonging to the European Union), indicating:

- ✓ type of title;
- ✓ name of the University that issued the title;
- ✓ date of graduation;
- ✓ final mark.

Those who, for whatever reason, do not communicate the achievement of the qualification within the deadlines **will be excluded** from the courses.

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

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

Simultaneous enrollment in more than one PhD course is not allowed. Candidates can apply for admission to multiple PhD courses, provided that they must exercise **an option** for only one of them, if they are in a useful position in more than one ranking.

Art. 4 Application for participation in the selection

The application for participation in the selection, including the documentation indicated in the attachments nn. 1-14, must be completed electronically, using only the procedure available on ESSE3 platform (<https://unime.esse3.cineca.it>) and following the instructions contained therein.

The submission of the application for admission through the online procedure implies the acceptance by the candidates of the rules contained in this announcement including the Attachments nn. 1-14, and in the current PhD course Regulations at the University of Messina.

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

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

In the application form, the candidate must indicate the PhD course and the Curriculum (if present), for which he/she intends to participate, also specifying the interest and/or the possession of the requirements for the positions with obliged Themes/Projects and/or for the positions reserved for particular categories.

Candidates interested in reserved positions financed by the Italian Social Security Service (INPS), in possession of the specific requisites indicated in art.2, must also submit a specific application to INPS in the modalities indicated in the INPS competition announcement which can be consulted on the Institution's website <https://www.inps.it/NuovoportaleINPS/default.aspx?itemdir=53249&lang=IT>.

Candidates who intend to participate in the selection for multiple PhD courses must submit an online application for each Course, attaching to each, the documentation required in the attachments nn. 1-14.

Candidates must attach the documents listed in the Attachments nn. 1 - 14 **in pdf format**.

Candidates, European and NON-European citizens, in possession of a foreign qualification/s obtained in NON-European Countries, must attach the certificate of the qualification/s held (Bachelor's and Master's degrees), which indicates:

- the duration of the degree course;
- the list of exams taken with the relevant marks;
- the name of the University that issued the title;
- the date of achievement and the final grade;

with attached a translation in Italian or English, declared compliant with the text by the competent diplomatic or consular representatives abroad.

Use of self-certifications, according to what is expressly foreseen in the articles 46 and 47 of Presidential Decree No. 445/2000 and subsequent amendments and integrations:

- Italian and EU citizens;
- citizens of countries outside the European Union, legally residing in Italy, **limited** to status, personal qualities and facts certifiable or attested by Italian public bodies (in particular: degree obtained at an Italian university).

In the case of admission to the PhD course, the candidate must produce and/or integrate at the time of enrollment, the documentation relating to status, qualities and/or facts previously self-certified, pursuant to art. 8 of this announcement.

The candidate with disability must specify, in the application form, the necessary aid in relation to 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.

The candidate 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 by no more than three years 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, July 12th2011.

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: udisabili@unime.it tel. 090 676 8986/5066.

The inclusion of untruthful data in the application form may result the exclusion from the final ranking list and the **office forfeiture** from the eventual registration, subject to the penalties provided for in the penal code and the special laws on the matter.

At the end of the procedure, payment of the participation fee of € 50.00 (fifty euros) must be made through the PagoPA® system. The aforementioned payment must be made **within the day of expiry of the announcement.**

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 CODE BIC SWIFT 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 PhD participation in the <denomination of PhD course>".

The obligatory contribution to the competition is not refundable for any reason. The payment receipt must be carefully preserved by the candidate and exhibited in case of request.

Candidates from particularly poor and developing countries defined in the Ministerial Decree No. 62 of 6th May 2020 (published in the Official General Series No. 141 of 4th June 2020) **are exempt from paying the aforementioned contribution.**

For the academic year 2020/2021, the countries listed in the following list are to be understood as particularly poor and developing according to the aforementioned Ministerial Decree:

Afghanistan - Angola - Bangladesh - Benin - Bhutan - Burkina Faso - Burundi - Cambodia - Central African Republic - Chad - Comoros - Congo Democratic Republic - Djibouti - Eritrea - Ethiopia - Ethiopia - Gambia - Guinea - Guinea Bissau - Haiti - Kiribati - Korea Dem. Rep. - 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 - Tanzania - Timor -Leste - Togo - Tuvalu - Uganda - Vanuatu - Yemen - Zambia - Zimbabwe.

Art. 5

PhD examination Committees

The examination Committees for admission to the PhD courses are appointed by Decree of the Rector on the proposal of the Academic Board, in compliance with the article No. 11 of the current PhD Course Regulations at the University of Messina.

In the case of PhD Courses activated in agreement with external Bodies/Companies, Italian and foreign, the Committee may be supplemented by the addition of no more than two experts representing these Bodies.

The aforementioned decree will be published, after the expiry of the notice, on the University website at the address <http://www.unime.it/it/ricerca/dottorati-ricerca> with notification value by the University.

Art. 6

Examinations

Admission to the PhD courses is by selection, by qualifications and exams, according to the methods and in compliance with the criteria indicated in the attachments nn. 1-14 of this announcement.

The diary of the tests, with the indication of the day, month and time when they will take place, will be published - after the expiry of the announcement - on the website of the University of Messina,

at <http://www.unime.it/it/ricerca/dottorati-ricerca> and will be valid to all intents and purposes as the official convocation of the candidates.

The work of the Committees can be carried out electronically, via the computer platform accessible by accessing the teams.microsoft.com website, virtual classroom “ESAME DI AMMISSIONE AL DOTTORATO IN <denominazione dottorato> XXXVI CICLO” (“ADMISSION TO THE PhD EXAMINATION IN <denomination of PhD course> XXXVI CYCLE”).

The PhD examination Committee firstly proceeds with the definition of the sub-evaluation criteria which will be followed in the assignment of the overall score which will be published on the University website at <http://www.unime.it/it/ricerca/dottorati-ricerca>.

Subsequently, the Committee evaluates the qualifications presented by the participants. The presence of candidates during this assessment is not allowed.

Once the evaluation of qualifications is completed, the Committee proceeds to the examination tests according to the methods and in compliance with the criteria indicated for each PhD course in the Attachments nn. 1-14 of this announcement.

The oral test consists of an interview aimed at verifying the knowledge of the candidates on topics that concern the educational and methodological guidelines of the PhD and includes the formal presentation of the proposed research project (where required).

For candidates who have expressed specific interest in a Theme/Project obliged when applying, the Committee will also express an opinion of suitability with respect to the specific Theme/Project obliged indicated.

During the interview, the knowledge of the language(s) required in the attachments nn. 1-14 to this announcement is verified.

The oral tests can be carried out electronically, via the Microsoft Teams (teams.microsoft.com) computer platform, virtual classroom ESAME DI AMMISSIONE AL DOTTORATO IN <denominazione dottorato> XXXVI CICLO” (“ADMISSION TO THE PhD EXAMINATION IN <denomination of PhD course > XXXVI CYCLE”) and by connecting to the addresses indicated in the diary of the tests.

Oral tests are public.

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

Before the interview starts, **under penalty of exclusion from the competition**, the candidate must identify himself/herself, showing a valid identity document, preferably the same that was uploaded to Esse3 during the submission of the 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.

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

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, on the basis of the scores obtained in the evaluation of the qualifications and in the exam tests, the Committee compiles the **general merit ranking** with the list of eligible and ineligible candidates for the PhD Course, including the assessment of suitability for the candidates who in the application have expressed interest in a specific obliged Theme/Project.

All the Commissions must complete the works no later than September 15th2020.

The general merit ranking is issued with Decree of the Rector, and is published on the University website with legal notification value to all intents and purposes.

Art. 7

Admission to the PhD courses

Candidates are admitted to PhD courses, in compliance with the provisions of articles 9 and 13 of the University Regulations, according to the ranking order and taking into account the suitability expressed by the Committee for the individual obliged Theme/Project, up to the number of available positions for the competition.

The scholarships funded by the Italian Social Security Service (INPS) are assigned by the Institution, based on the criteria set out in the relevant competition notice, through a special ranking that will be published on the Institution's website only after the University has communicated the list of those admitted to the PhD Courses.

For the positions with scholarship, in case of equal merit, the assessment of the most difficult economic situation determined pursuant to current legislation prevails, and in the event of further equality, the youngest candidate prevails, pursuant to the provisions of art. 17 of the University Regulation

For positions without scholarship, in case of equal merit, preference is given to the youngest candidate.

Candidates who hold research grants may be admitted, subject to passing the selection tests, and without prejudice to the provisions of art. 20, point 10 of the University Regulations.

Public employees may be admitted, upon passing the selection tests, in accordance with the provisions of art. 20, point 13 of the aforementioned Regulations.

Art. 8

Enrollment Procedures

Candidates admitted to the PhD courses, with or without scholarship, must enroll within the **peremptory deadline of 10 days** from publication of D. R. (Decree of Rector) of the final ranking list on the website <http://www.unime.it/it/ricerca/dottorati-ricerca>. **No personal communications will be sent to candidates. Candidates admitted to the PhD courses are responsible for checking the dates and enrollment procedures.**

Candidate who participated and ranked successfully in more than one selection procedure must enroll in the PhD course, for which he/she has opted, **within 10 days** from the publication of the final ranking lists of all the PhD courses to which he/she has been admitted. Failure to complete the enrollment in the chosen course by the deadline, will result in the **forfeiture** of admission to all PhD courses in which the candidate has been selected.

Candidates must use the enrollment procedure arranged by the Administration, available on the website <https://unime.esse3.cineca.it>, including the self-declarations, the documents required by the Public announcement and its attachment and by the University Regulations. The enrollment procedure must be completed within the prescribed deadline, **under penalty of exclusion**.

Candidates in possession of a foreign academic qualification obtained in a European Union countries must attach to the application form:

- certificate(s) of the qualification(s) in possession with in attachment a translation, in Italian or English, declared compliant with the text by the competent diplomatic or consular representations abroad;

Candidates in possession of a foreign academic qualification obtained in NON-European countries must attach to the application form:

- certificate(s) of the qualification(s) in possession with in attachment a translation, in Italian or English, declared compliant with the text by the competent diplomatic or consular representations abroad;
- “*Dichiarazione di valore in loco*” issued by the competent diplomatic or consular authorities abroad, certifying the duration of the degree course together with the list of exams taken, related marks and the academic level of the degree in the Country that issued it.

Candidates in possession of a foreign qualification, who do not produce the requested documents at the time of enrollment, will be enrolled conditionally and **will be excluded** from the PhD course if they do not submit the required documents within six months from the beginning of the PhD course and/or if, after controls, the qualifications do not comply with the requirements of this announcement.

NON EU citizens must submit a copy of a valid residence permit **within 10 days** from its issue.

The insertion of untruthful data in the application form will result in exclusion from the final ranking list and the office forfeiture. In this case, the University Administration has the right to recover any benefit granted. The mendacious declaration, in addition to the prescribed penalties, may entail, for the subject involved, actions for compensation of damages by the counter-parties concerned.

Art. 9

Scrolling of ranking and taking over

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

In the event of forfeiture or waiver (expressed or tacit) by admitted candidate for a position linked to obliged Theme/Project, the scrolling down will take into account the general ranking list and the assessment of the Committee on the eligibility of the candidate for the obliged Theme/Project.

Suitable candidate, usefully ranked in the list after the scroll down, will receive a communication by e-mail.

Within the **peremptory term of three days** from the communication, candidate must send an e-mail to the University expressing, explicitly and indisputably, his/her consent to the scrolling down of the ranking list in his/her favor.

After this period, the candidate will be considered tacitly waiver.

Candidate who expressed his/her consent to take over the ranking list, must enroll within maximum **10 days** from the publication of the decree of scrolling.

Art. 10

Taxes and fees

The contributory requirements for enrollment and registration to PhD Courses are established with resolutions of the Academic Senate and of the Board of Directors of 27th June 2019.

At the time of enrollment, admitted candidates, Italian and foreign, both with scholarship and without scholarship, are 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 scholarship, are exempted from paying taxes and fees in favor of the University.

Admitted candidates, beneficiaries of scholarship or of other financial support, are equivalent to University students for the purpose of payment of the all-inclusive annual contribution, as established by the article 6 of the "Regulations on student contribution" of this University. Therefore, they 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 PhD course year following the first, the PhD student admitted to attend the following year must renew the enrollment within 30th November, using the procedure available at this link <https://unime.esse3.cineca.it>. After this deadline, the PhD student can enroll, from the 1st to the 31st December, paying a penalty tax of € 50,00 for late payment.

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 and, in any case, no later than the 31st December. In the case of applications for the issue of the “ISEE Dottorato” certificate after that date, the PhD student will be required to pay a revision tax of € 100,00.

The amount of the 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 following deadlines (according to the choice made by the PhD student during the enrollment/registration):

- n. 1 single installment: by 31st March;
- n. 3 installments: by 31st January, 31st March and 31st May.

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

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

Total or partial exemption from the payment of taxes and fees is established by the “Regulations on student’s contributions” and in particular by articles 2 and 6 and by each and every other relevant normative provision.

Art. 11 Incompatibility

The candidates admitted to the PhD courses who are already enrolled in other courses, incompatible according to the article 19 of the University Regulations, must require to temporarily suspend their career at the time of enrollment in the PhD course.

PhD Students enrolled in Specialization Schools are also required to temporarily suspend their career, except in the cases referred to in the before mentioned University Regulations.

Art. 12 Scholarships

The PhD scholarships last for one year and are renewed following a specific verification by the Academic PhD Board about the completion of the program of the activities planned for the previous year, as well as the evaluation of the research activity carried out, subject to the obligation to provide the scholarship after passing the verification.

The principles set out in this article do not apply to those beneficiaries from foreign countries or beneficiaries of financial support in the context of specific mobility programs, in relation to the provisions of the specific regulation.

The annual amount of the scholarship, paid in monthly deferred installments, is equal to € 15.343,28, *gross* of social security contributions paid by the PhD student.

If the PhD student is authorized by the Academic PhD Board to carry out research activities abroad, for a period of not less than 15 days, the amount of the scholarship is increased by 50%, for a period not exceeding 18 months.

The application forms for study abroad, duly authorized by the Academic PhD Board, indicating the location, period and motivation, must be sent by the PhD Coordinator to the competent Office at least **30 days before** the beginning of the stay abroad, in order to prepare the relative Rector’s Decree.

Starting from the second year, it is provided a fund for research activities in Italy and abroad according to the provisions of the article 17 of the Regulations.

In case of renunciation or exclusion from the PhD course of a PhD student with a scholarship, he/she will forfeit the right to use the scholarship for the part not earned.

The PhD student who intends to renounce the scholarship at the time of admission to the course must give formal notice to the Rector.

In this case, the PhD student, while maintaining his/her status, loses all right to use the scholarship and the entire scholarship or the unearned quota can be attributed, in the same terms and with the same methods, to the first of PhD students without scholarship, starting from the subsequent assignment.

The scholarship **cannot be combined** with any other scholarship, except for those granted by Italian or foreign institutions useful for integrating the PhD student's research activity with stays abroad, with the exclusion of the advanced training activities provided by the Law 398/1989.

The PhD scholarship is subject to the payment of social security contributions INPS "Gestione Separata" in accordance with current legislation, to the extent of two thirds to be borne by the administration and one third by the scholarship beneficiary.

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

- from external public or private Bodies, through agreements or conventions stipulated after the issuing of this announcement;
- as part of research projects funded by National Operational Programs, Regional Operational Programs, European Social Fund, or other Community, National and Regional Programs and/or International Projects.

Such increases and/or financing will be announced on the University website at link <http://www.unime.it/it/ricerca/dottorati-ricerca>.

Art. 13

Attendance, suspension, forfeiture and renunciation

The attendance of PhD students is compulsory and involves an exclusive and full-time commitment. The suspension, the forfeiture and the renunciation of continuing the PhD course are governed by the article 18 of the current Regulations concerning the PhD courses at the University of Messina

In particular, the **suspension** of the PhD course is envisaged upon communication to the PhD Coordinator and the competent offices, in the following cases:

- a) maternity or paternity;
- b) civil service;
- c) serious and documented health reasons;
- d) any other cases provided by law

The frequency of the PhD course **can be suspended** upon the request of the PhD student and upon express authorization of the PhD Academic Board in the event of:

- a) attendance at TFA and PAS courses;
- b) frequency of training internships;
- c) serious and documented personal and family reasons.

The **forfeiture** from the PhD course is foreseen, ordered by the Academic Board with motivated resolution, in the event of:

- a) negative opinion on the scientific activity carried out during the academic year;
- b) prolonged and unjustified absence from the PhD courses;
- c) serious non-compliance with the regulations governing the PhD courses;
- d) violation of the rules on incompatibility.

In case of **renunciation** of continuing the PhD course, the interested party is required to **promptly** notify to the PhD Coordinator and the Rector. The provision of any scholarship is maintained until the date of renunciation.

Art. 14

Processing of personal data

The processing of personal data related to this procedure is carried out by the University in accordance with the European General Regulation No. 679/2016 for the protection of personal data

and of the Code regarding the protection of personal data, Legislative Decree No. 196/2003 and subsequent integrations and amendments.

The notice is available in the privacy section of the University, <http://www.unime.it/privacy> and is an integral part of this announcement. By signing the application form, the candidate acknowledges having read the aforementioned notice and consents to the processing of personal data, according to the methods indicated therein.

Art. 15 **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.

The PhD student who realizes that he has achieved an invention is obliged to immediately communicate it to his tutor and the coordinator and from that moment on, he will be required to respect confidentiality obligations.

The PhD student enrolled in courses activated in agreement with Bodies/Companies undertakes to accept the provisions relating to intellectual property agreed in the Agreement between the University and the affiliated body.

Art. 16 **Responsible of the procedure**

The person in charge of administrative procedure is Dr. Angelina Venezia, Administrative Coordinator PhD Unit of the Administrative Department "Research and internationalization" of this University. For information, interested parties may contact the PhD of the Administrative Department "Research and internationalization" of this University (telephone numbers: 0906768716/8505/8502; e-mail: dottorati@unime.it).

Art. 17 **Final rules**

For anything not explicitly mentioned in this Public announcement, reference is made to the rules contained in the article 4 of the Law No. 210/1998, in the article 19 of the Law n. 240/2010, in the Ministerial Decree No. 45/2013, in the University of Messina's Regulation concerning PhD courses (D.R. No. 1015/2016), in the Legislative Decree No. 81/2015 and subsequent integrations and amendments, and other provisions in force, including those listed in the agreements for the establishment of PhD courses in convention and/or for the funding of scholarships.

The presentation of the application form through the online procedure, as stated in the article 4, implies the acceptance by the candidate of all the regulations in this Public announcement and in the aforementioned Regulations.

The University assumes no responsibility for the dispersion of communications dependent on incorrect indications of residence and delivery by the candidate or failure or late communication of the change of the same, nor for any postal or telematic errors not attributable to the fault of the University.

This Decree, written both in Italian and in English, will be published on the on-line notice board of the University at <http://www.unime.it/it/ateneo/amministrazione/albo-online>.

The Announcement will be also published on the EU websites of Euraxess, on the website of the Italian Ministry of Education, University and Research (MIUR) and on the website of University of Messina.

THE RECTOR
Professor Salvatore Cuzzocrea



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No 1.

PhD course in: **Advanced Catalytic Processes for Using Renewable Energy Sources**
<https://www.unime.it/it/dottorato/advanced-catalytic-processes-using-renewable-energy-sources>

Coordinator: **Professor Gabriele Centi**
e-mail: centi@unime.it

International PhD course in collaboration with foreign universities in convention/affiliated

<i>UNIVERSITY OF ANTWERP</i>	<i>Belgium</i>	<i>Department of Chemistry</i>
<i>EINDHOVEN UNIVERSITY OF TECHNOLOGY</i>	<i>Netherlands</i>	<i>Chemical Engineering and Chemistry</i>

This PhD course is in cooperation with the above mentioned foreign universities, participating in the project ERC Synergy SCOPE (Surface-Confined fast-modulated Plasma for process and Energy intensification in small molecules conversion; project No. 810182 funded by EU-H2020) which is coordinated by the University of Messina. Other foreign and Italian universities also participate in the Academic Board, in particular other foreign universities partners of the project SCOPE (UNIVERSITY OF ADELAIDE, Australia; UNIVERSITY OF WARWICK, United Kingdom) and the University of Calabria (Cosenza). The EUROPEAN RESEARCH INSTITUTE OF CATALYSIS (AISBL-ERIC) based in Brussels (Belgium) also participates (in addition to the industrial collaboration mentioned below).

Industrial PhD in collaboration with affiliated Bodies/Companies:

<i>NEXTCHEM</i>	<i>Company carrying out research and development activities</i>	<i>PRIVATE</i>
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The NEXTCHEM industry participates in the PhD partnership, whose mission is the research and development of new solutions for the circular economy and the energy transition. NEXTCHEM (Company recently established by the Maire/Tecnimont group, a multinational company among the main ones in the sector, based in Italy) has a consolidated research activity with UNIME and the other universities in partnership, through various common EU projects. The added value for the PhD course is the expected mobility of students at periods with them, in particular on the techno-economic and engineering evaluation of the new processes, as well as participation in the various educational activities.

Positions with scholarship: **No. 1 UNIME not obliged, but on a topic consistent with the PhD course**
No. 2 funded by research grants on the Scope Project (each research grant of € 24,000 per year to be considered gross of the costs borne by the University).

Required Master's degree All Master's degrees

Please note: Knowledge of catalysis, industrial processes, chemistry and physics of plasma and materials is required, which although it is not an indispensable requirement for admission, will be one of the evaluation elements of the candidates.

It is required that all foreigner and non-foreigner students have a B2 level certified or higher in English at the time of admission to the PhD course.

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Description and objectives of PhD course

<https://www.unime.it/it/dottorato/advanced-catalytic-processes-using-renewable-energy-sources>

The proposed PhD course will address issues that are at the center of the European Green Deal plan that wants to mobilize over a trillion Euros in the next decade, with a strong impact on the demand for researchers and managers in the research and development sector, but also the creation of many new possibilities for start-ups.

This area is considered among those with the greatest job opportunities for young PhD students, especially if trained in the context of research projects of excellence (ERC Synergy SCOPE) and joint training activities between research centers of excellence (in Europe, Australia and Great Britain) participating in the PhD and in the industry at the forefront of the sector, which is part of the partnership and directly participates in training activities.

The current prospects for the employment situation of PhD students in this sector are therefore very positive, both for the topic and for the international characteristics (with various members of the consortium of European universities and among the most qualified in the sector) and industrial participation with a high character of collaborative research and development.

The theme of PhD course in Advanced Catalytic Processes for Using Renewable Energy Sources is at the heart of the large European initiative SUNERGY, of which the PhD Coordinator is one of the members of the Directorate, which wants to create a flagship-type action in Europe, involving major European industries and research centers. This SUNERGY initiative, to which the PhD course will be closely linked, offers further employment opportunities and further training (post-doc) to PhD students.

In addition, direct participation in the PhD of a company such as Nextchem, which is actively involved internationally in the development of innovative processes for circular economy, green

chemistry and energy transition/chemistry, gives added value to the PhD course, both in education and direct prospects of PhD student employment in the various companies of the Maire/Tecnimont group (which has over 6500 employees and is active in over 30 countries).

The International PhD course in Advanced Catalytic Processes for Using Renewable Energy Sources aims to develop a new scientific profile for PhD students to meet the social and industrial needs of using renewable energy sources for chemical energy storage, the missing element in the current energy scenario to increase the share of renewable energy allowing their annual storage and especially transport from remote areas - two crucial elements for a sustainable energy future on a global scale and for developing chemical processes driven by renewable energy, rather than heat (derived from fossil fuels) as at present.

Developing technologies for these goals will therefore be an enabling factor for low carbon energy and chemical production, but requires educating young researchers on a range of new aspects that are poorly addressed in current curricula and training/research approaches:

- *Fundamental aspects*: in the photographic and electro-guided approaches to use renewable energy for the accumulation of chemical energy and chemical processes, there are a series of fundamental scientific questions: i) how to use fairly reactive species (such as photons, electrons) characterized by rapid transformation processes, in chemical transformation with reaction rates of two or three orders of magnitude lower; ii) how to control selectivity in these processes, when multiple reactions to similar values of energy potential can occur for their transformation; iii) how to increase the productivity of the electrodes (to reach values relevant for industrial exploitation), while maintaining a high efficiency and selectivity of the electrodes. The answer is to combine catalysis with plasma, photo or electron-based processes, but, for example, there is still a fairly limited understanding of the key question of the difference between electrochemistry and electrocatalysis and therefore how to design advanced electrodes based on this understanding.
- *Technological aspects*: there are also a series of equally relevant questions to be addressed from the technological point of view: i) how to operate effectively and stable in the presence of typical contaminants present in the industrial flows to be treated, ii) how to avoid the need to concentrate power (CO₂, for example), with related costs. One possible solution is to design a new type of electrodes, which integrate a membrane (which has the function of selective concentration on the catalyst surface) with the electro / photo catalyst. This is a new area for the design of advanced composite electrodes, but which requires developing new knowledge for its implementation. Achieving greater electrode productivity also requires the design of new 3D type electrodes, including new production methods (such as 3D printing). In addition, new device engineering is needed to implement these processes at an exploitable level.
- *Expand the scope*: extending the fields of application is another critical problem to pass from the laboratory to a wider use. Currently, most research focuses on water splitting, with a growing interest in photo / electro CO₂ conversion, but often limited to fairly simple (2e) conversions such as CO or formic acid formation. The challenge is to move to more complex transformations, involving multielectronic transformation and possibly the formation of C-C bonds, in order to create a truly new value chain based on CO₂. The reuse of CO₂ in the context of the closure of production cycles (for the circular economy) is another new field limited only to that. The direct synthesis of NH₃ (or even urea) from N₂ and H₂O (and CO₂, for urea) is another emerging area, with a great potential impact (reduction of up to 90% of the carbon footprint). The application of photo / electro processes to biomass valorization is just starting to be explored. There are many possibilities, including, for example, the realization of the oxidation / reduction process in tandem to develop new chemical processes (for example the production of adipic acid directly from glucose in an electrocatalytic reactor in tandem) with a great impact and reductions in costs and footprint.

PhD students will thus be trained to face the challenges of the ongoing transformation in the production of energy and chemistry in an integrated / multidisciplinary way. Only in part and not according to the holistic global approach outlined above, these topics are addressed in current doctoral courses and also at the research level, but most of the aspects outlined above are often not addressed consistently. New types of catalytic materials are also needed, as well as a new design for electrodes and cells.

Expected employment and professional opportunities

The PhD theme, the development of catalytic processes for energy (chemical energy storage) and chemical production (use of renewable energy in chemical processes to replace the use of fossil fuels) through the conversion of molecules such as N₂ and CO₂ is one of the aspects at the center of the energy transition and in the chemical sector and of large initiatives such as the European Green Deal.

To face this central challenge to social, economic and industrial development in Europe, a new generation of research doctors is needed, able to face research and development in an interdisciplinary way, combining together aspects that make up those fundamental for the application, engineering and industrial ones.

This transition also creates new opportunities for young people to create new businesses and start-ups.

The employment and professional opportunities provided are both in the industrial and public / private sector, where qualified researchers are required, with interdisciplinary training and skills, but capable of going beyond specialist skills and having a longer-term vision of the problems, necessary in these transition phases. In addition to this interdisciplinary approach, the PhD course will provide additional communication skills, intellectual property and planning through the periods of mobility, at industries and universities, as well as through the schools/additional educational activities envisaged.

Description of training activities

Linguistics	<i>PhD students are required to have certified knowledge of English at B2 level under the Common European Framework of Reference for Languages (CEFR), which must be possessed at the time of enrollment. Additional courses are provided at the language centers of the Univ. which acts as home (University Language Center at UNIME) both to improve knowledge of English and possibly of the local language.</i>
Information Technology	<i>Specific training is provided in universities where students will work to acquire IT skills related to specific research activities (research and management of scientific literature, management and use also in the instrumentation network, data processing and presentation, modeling and simulation) and common activities for all students in the context of the planned educational and training activities (summer schools, specific training).</i>
Research management, knowledge of research systems and financing system	<i>In addition to the scientific-methodological training activities on issues related to specific research topics, there will be specific short courses, including telematics courses, or during the planned summer schools in which all PhD students will participate, on the following activities, through collaboration with ERIC aisbl (project partners):</i>

	<i>research management and design, research systems and funding sources, project writing.</i>
Exploitation of research results and intellectual property	<i>Through both collaboration with AISBL ERIC (project partners) and NEXTCHEM, partner of the partnership, there shall be specific IT activities or during the planned summer schools, dedicated to the following aspects: intellectual property (identification and management), patents (writing and valorization), confidentiality and research management in the industrial field.</i>

Positions with obliged theme/project:

The general theme of the PhD is the development of catalytic processes based on the use of renewable energy, for the development of i) new catalytic processes with low impact on greenhouse gas emissions and for a circular economy, ii) new technologies, materials and devices, for the production of solar fuels (and chemicals), and iii) new clean energy carriers and for the chemical storage of energy. Some of the Doctorates will be part of the ERC Synergy SCOPE project, whose goal is the development of new materials and technologies for new processes of conversion of simple molecules (N₂, CO₂, CH₄) through the combination of non-thermal plasma and catalysis.

Documents to attach

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of PhD thesis).

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, degree mark);
- any publications;
- any professional experience and other qualifications held by the candidate;
- curriculum vitae

2. Research Project

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

The research project must briefly describe the following aspects in a maximum of two pages: i) in the context of the PhD theme (and of the ERC SCOPE project) identify which aspects are considered to be a priority from a scientific and technological point of view; develop during the PhD, ii) which elements of the proposal represent a potential turning point with respect to the state of the art, iii) what are the previous competences on the part of the candidate that allow to face the presented proposal.

The research project on specific topics of the doctorate must be elaborated by the candidate and not assigned to the subsequent assignment of the PhD thesis.

3. Examination: oral test

The maximum score attributable to the project will be **50/100 points**, with a minimum score to be exceeded by **35/100 points**.

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test the knowledge of the English language will be verified.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “ADVANCED CATALYTIC PROCESSES FOR USING RENEWABLE ENERGY SOURCES”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 2

PhD course in: **Bioingegneria Applicata alle Scienze Mediche (*Bioengineering Applied to Medical Sciences*)**
<https://www.unime.it/it/dottorato/bioingegneria-applicata-alle-scienze-mediche>

Coordinator: **Professor Michele Gaeta**
e-mail: mgaeta@unime.it

Industrial PhD in collaboration with affiliated Bodies/Companies:

SIFI SpA	Company carrying out research and development activities	PRIVATE
Medacta	Company carrying out research and development activities	PRIVATE

As part of the PhD in Bioengineering Applied to Medical Sciences, the topics of the program are addressed with reference to their application to health processes and respect for sustainability in production processes. The skills related to information technologies, robotics, sensors and materials will contribute to the development of PhD programmes focused on the design and testing of solutions that, starting from the possibility of having in real time a large amount of information from heterogeneous and distributed sources, have characteristics of dynamism, adaptability and self-organization that exceed the state of the art.

Positions with scholarship: **No. 3 UNIME**
No. 1 AOU

Positions without scholarship: **No. 1**

Required Master's degree LM-9 Biotecnologie mediche, veterinarie e farmaceutiche (*Medical, veterinary and pharmaceutical Biotechnologies*)
LM-17 Fisica (*Physics*)
LM-18 Informatica (*Computer Science*)
LM-21 Ingegneria biomedical (*Biomedical Engineering*)
LM-29 Ingegneria elettronica (*Electronic Engineering*)
LM-32 Ingegneria informatica (*Computer Engineering*)
LM-33 Ingegneria meccanica (*Mechanical Engineering*)
LM-41 Medicina e chirurgia (*Medicine and Surgery*)
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*)

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Description and objectives of PhD course <https://www.unime.it/it/dottorato/bioingegneria-applicata-alle-scienze-mediche>

The PhD course is made up of professors belonging mainly to two “CUN areas”, 06 and 09. The main aim of the course is to train young researchers who can act as a bridge between the two areas, developing a common language, in order to plan interdisciplinary research activities that integrate information, methodologies, concepts, perspectives and theories. Researchers from Italian and foreign research institutes and companies operating in the biomedical sector were involved to achieve this objective. Finally, for the training of PhD students a multidisciplinary and innovative didactic path has been established, which also includes periods of research activity at Italian and foreign qualified institutions.

The course aims to train the researchers able, starting from technological and biomedical knowledge, to carry out interdisciplinary and innovative research activities in order to improve productivity and competitiveness in the private and company sector, in companies and in planning companies, production and marketing of biomedical sector. In detail, the scientific and educational objectives are built around the development of materials, devices, processing algorithms, etc., planned and developed in synergy between researchers of the two areas and which together form the development chain from the basic concepts to the realization of new solutions and/or methodologies.

Employment and career opportunities provided

The activities of the PhD course will be such as to develop the PhD students’ ability to face and solve issues of high conceptual and technological complexity with rigorous and multidisciplinary methodologies. Particular attention will be dedicated to IT tools and to the drafting of projects in English language. Furthermore, PhD students will be motivated to develop, both independently and within work groups, innovative projects with the purpose to evaluate the impact of new technological solutions, new methods applied to the development of materials, new devices and algorithms of the biomedical engineering. The network of collaboration between professors of PhD Board, companies and research institutions will give the opportunity to face research activities and particular issues of the world of production and services of medical-biological sector, which constitutes the source of employment of this PhD course.

The skills acquired during this PhD course are directed towards the following occupational and professional opportunities:

- researcher positions in academic field at national and international level
- researcher positions in public or private research institutes (CNR, INFN, ENEA, INGV, etc.)
- innovation and technology transfer projects, today particularly encouraged at the regional (PON, POR, etc.) and national (specific funds for start-ups) level
- positions of responsibility in the R&D departments of companies in the sectors involved in the PhD course.

Description of training activities

Linguistics	Some lessons and seminars will be held in English language.
Information Technology	PhD students will have access to IT workstations connected to the University network.
Research management, knowledge of research systems and financing system	PhD students will be involved both in the planning of full grant proposal and in the experimental design, in order to make them autonomous in leading a project and in the search for future funding.
Exploitation of research results and intellectual property	All research activities will be published in international journals with an impact factor and will be presented by the same PhD students during national and/or international conventions.

Documents to attach

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to be attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, degree mark);
- any publications;
- any professional experience and other qualifications held by the candidate;
- curriculum vitae

2. Research Project

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

The research project on specific topics of the PhD course must be developed by the candidate and it does not constitute a constraint on the subsequent assignment of the PhD thesis.

3. Examination: oral test

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

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test the knowledge of the English language will be verified.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “BIOINGEGNERIA APPLICATA ALLE SCIENZE MEDICHE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020–GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 3

PhD course in: **Biologia Applicata e Medicina Sperimentale (*Applied Biology and Experimental Medicine*)**
<http://www.unime.it/it/dottorato/biologia-applicata-medicina-sperimentale>

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. Experimental Medicine;
2. Biologic and Environmental Sciences;
3. Pharmacological Sciences;

Coordinator: **Professor Nunziacarla Spanò**
e-mail: nunziacarla.spano@unime.it

Industrial PhD in collaboration with affiliated Bodies/Companies:

Stazione Zoologica "Anton Dohrn" of Napoli	Research Institution (VQR)	PUBLIC
SIFI SpA	Company carrying out research and development activities	PRIVATE

The PhD Course in Applied Biology and Experimental Medicine offers its PhD students the opportunity to collaborate with companies that carry out research and development activities.

The University of Messina and SIFI have developed R&D activities in synergy within the HIPPOCRATES project: PON02_00355_2964193, experimenting and validating from a technological point of view, innovative systems, based on micro and Nano technologies, aimed at ophthalmological applications.

The synergy has also led to the development of a patent on "MICROEMULSION PLATFORM FOR TOPICAL DELIVERY OF DRUGS".

In addition, the final objective of the new project, called WATERFALL, in synergy with the PhD Course in Applied Biology and Experimental Medicine, aims at the development of a complete disease management system that allows the personalization of the surgical treatment of cataract pathology.

Positions with scholarship: **No. 6 UNIME**
No. 1 AOU
No. 3 Stazione Zoologica Anton Dohrn

Positions without scholarship: **No. 3**

Required Master's degree 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-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*)

Please note: requirement for admission also *Master's degree in Pharmaceutical Chemistry and Technology*.

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Description and objectives of PhD course <http://www.unime.it/it/dottorato/biologia-applicata-medicina-sperimentale>

The PhD course in Applied Biology and Experimental Medicine (DBAMS) offers to young graduates a postgraduate training, that is essential to undertake research and/or coordinating activities both in academic area and in public or private non-university bodies. Among the priority objectives of the PhD course are considered essential the issues related to the ethical motivations of the research work, the awareness of the environmental risks inherent in the genome alteration or introduction of new species, the full accountability in terms of sustainable development. The PhD course will train the modern profiles with an in-depth knowledge base and a strong propensity application in vast areas of modern biology; the PhD course will also confer to the PhD students the ability and skills required to carry out research in an autonomous and competent way in pre-clinical and clinical contexts and in post-marketing sector. The ability to use interdisciplinary knowledge in the fields of applied biology and biotechnology represents an indispensable integration of groups that work towards a coordination of different strategies. This PhD course implements forms of collaboration with Italian Research Bodies, as the Stazione zoologica Anton Dohrn of Napoli, and foreign Research Bodies in order to propose periods of study and research with the purpose to learn new techniques and methods for scientific research

Employment and career opportunities provided

The PhD course in Applied Biology and Experimental Medicine will provide professionals used in the territory, both in the public and private sectors, based on the orientation chosen. The PhD student of the curriculum in "Biological and Environmental Sciences" will be able to face the

multiple problems related to the defense and protection of environmental resources, through employability in private companies that deal with issues related to basic research in Biotechnologies, aimed at monitoring and improving animal breeding, as consultants of agro-food and pharmaceutical industries and in environmental monitoring. The curriculum in "Experimental Medicine" will provide the pharmacological and toxicological skills necessary for the study of products intended for use in the diagnostic, therapeutic and toxicological field in order to characterize the molecular mechanism of action, the pathophysiological relevance and kinetic aspects. Doctors trained in "Pharmacological Sciences" must be able to design, characterize and develop new drugs, study their biological, chemical and chemical-physical properties, assets structure relationships, the development of methodologies designed to identify of new sources of natural active ingredients and the optimization of pharmaceutical formulations.

Description of training activities

Linguistics	Some lectures and seminars will be held in English
Information Technology	PhD students have access to IT workstations connected to the University network.
Research management, knowledge of research systems and funding system	PhD students will be involved both in the planning of full grant proposal and in the experimental design in order to make them independent in the leading of a project and in the search for future funding.
Exploitation of research results and intellectual property	All research activities will be published in journals with impact factor and presented by the PhD students at national and international conferences

Positions with theme or project obliged:

The PhD Course in Applied Biology and Experimental Medicine, in collaboration with the Stazione Zoologica Anton Dohrn, provides No. 3 scholarships with obliged theme that will be held between the offices of the University of Messina and the SZN of Messina and/or Amendolara. In particular:

- 1) Marine Biology and Ecology of the Stretto di Messina;
- 2) Marine Biology and Ecology of the Calabrian seas;
- 3) Potential of biotechnological research in the Calabrian seas;

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree

course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- Abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae

2. Research Project

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

The research project must have a maximum length of 3 pages excluding bibliography.

The research project on specific topics of the PhD course must be developed by the candidate and it does not constitute a constraint on the subsequent assignation of the PhD thesis.

3. Examination: oral test

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

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test the knowledge of the English language will be verified.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “BIOLOGIA APPLICATA E MEDICINA SPERIMENTALE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 4

- PhD course in: **Economics, Management and Statistics**
<https://www.unime.it/it/dottorato/economics-management-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
- Coordinator: **Professor Otranto Edoardo**
e-mail: eotranto@unime.it
- Positions with scholarship: **No. 4 UNIME**
No. 3 UniCT
No. 1 INPS (for the children and orphans of members and pensioners of the Institute)
- Positions without scholarship: **No. 2**
- Required Master's degree All the Master, specialist or old system degrees, otherwise a similar academic qualification also obtained abroad, already declared equivalent by the Italian authorities, otherwise recognized adequate, only for the purpose of the participation to the selection for the admission to the PhD course, by Examination Committee. The Board of professors could request to PhD students who have obtained a degree in sectors with limited lectures of economic nature to integrate their CV with further specific courses considering those offered by Master's degrees.
- Requirements for foreign students

Knowledge of the English language. An academic qualification equivalent to that required to Italian students, possession of a bachelor's degree and master's degree for those who obtained a degree in a foreign university where master's, specialist and old system degrees' courses are not expected; if the academic qualification is not declared equivalent to the Italian master's degree; it is possible to

request the equivalence to the PhD Examination Committee, only for the admission to the PhD course.

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Positions with theme or project obliged:

INPS scholarship reserved for children and orphans of members of Gestione unitaria delle prestazioni creditizie e sociali and of retired users of Gestione dipendenti pubblici: the project plans to develop new indicators that allow the measurement of sustainability, also integrating the social aspect, in the field of consumption and production of resources in the agro-food sector. Details about the project can be consulted on the website:

<https://www.unime.it/it/dottorato/economics-management-statistics>

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate;

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;

- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- Master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experiences and other qualifications in possession of the candidate;
- curriculum vitae.

2. Research Project

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

The project must have a maximum length of 1000 words on the topic on which you intend to dwell in the course of study. The project will contain a brief presentation of the scientific problem to be addressed, a summary review of the results already existing in the literature, a description of the methodology to be applied and a summary of the possible expected results. The research project developed by the candidate on specific topics of the PhD course does not constitute a constraint to the subsequent assignment of the PhD thesis.

3. Examination: oral test

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

The oral exam is in English and has the main objective of highlighting the candidate's knowledge of the subjects that characterize the PhD course.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “ECONOMICS; MANAGEMENT AND STATISTICS”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 5

PhD course in: **Fisica (*Physics*)**
<https://www.unime.it/it/dottorato/fisica>

Coordinator: **Professor Vincenza Crupi**
e-mail: vcrupi@unime.it

Industrial PhD in collaboration with affiliated Bodies/Companies:

Distretto Tecnologico Sicilia Micro e Nano Sistemi S.C.A.R.L.	Company carrying out research and development activities	PRIVATE
STMicronics S.r.l.	Company carrying out research and development activities	PRIVATE
SIFI S.p.A	Company carrying out research and development activities	PRIVATE

The PhD in Physics trains professional figures in various private sectors of industry, such as the sector of electronic components, optical and R&D. For years the PhD course actively collaborates with various companies by participating in national and international research projects, involving PhD students with the possibility of developing research themes for the thesis work of common interest. In particular, with the DTSMNS, a significant part of the project activities resulted in the publication of articles in international scientific journals. In recent years, a consolidated collaboration has been established with STMicronics focused on issues concerning the reliability of new devices for sustainable mobility. Finally, with SIFI, R&D activities have developed in the context of projects, experimenting and validating from a technological point of view, innovative systems, based on micro and Nano technologies, aimed at ophthalmological applications.

Positions with scholarship: **No. 5 UNIME (of which No. 1 with theme or project obliged)
No. 1 SIFI S.p.A. (theme or project obliged)**

Positions without scholarship: **No. 2**

Required Master's degree All Master's degrees

Requirements for foreign students

Knowledge of written and spoken English.

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification

was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Please note Knowledge is required in the disciplines: experimental and applicative, theoretical and of the foundations of physics, microphysics and the structure of matter.

Positions with theme or project obliged:

SIFI SpA

“Architetture ottiche per applicazioni oftalmiche” (*Optical architectures for ophthalmic applications*)

For all the details see url: <https://www.unime.it/it/dottorato/fisica/aree-di-ricerca>

ST Microelectronics

“Analisi fisica e modellizzazione di dispositivi elettronici di potenza in ottica di ottimizzazione strutturale ed affidabilistica” (*Physical analysis and modeling of power electronic devices with a view to structural and reliability optimization*)

For all the details see url: <https://www.unime.it/it/dottorato/fisica/aree-di-ricerca>

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;

- abstract of the thesis;

Additional qualifications to be attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;
- curriculum vitae.

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- Master's degree, specialist or old system thesis consistent with the issues proposed by the PhD in Physics;
- university career (exams, degree mark);
- any publications;
- any professional experiences and other qualifications in possession of the candidate;
- curriculum vitae.

2. Research project

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

The research project on specific topics of the PhD course must be elaborated by the candidate and does not constitute a constraint to the subsequent assignment of the doctoral thesis. It must have a maximum length of 1000 words including any bibliography and must contain a brief presentation of the scientific problem to be addressed, a summary review of the results already existing in the literature, a description of the methodology that is intended to be applied and a summary of the possible expected results.

3. Examination: oral test

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project. During the oral test the knowledge of the English language will be verified. The maximum score attributable to oral test will be **70/100 points**, with a minimum score to be exceeded by **42/100 points**.

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

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “FISICA”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 6

- PhD course in **Ingegneria Civile, Ambientale e della Sicurezza (*Civil, Environmental and Safety Engineering*)**
<https://www.unime.it/it/dottorato/ingegneria-civile-ambientale-della-sicurezza>
- 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. Geotechnical Engineering;
 2. Infrastructure and mobility engineering;
 3. Hydraulic engineering, hydraulic and maritime constructions, hydrology and energy from water;
 4. Science and technology, materials, energy and complex systems for distributed computing and networks.
- Coordinator **Professor Gaetano Bosurgi**
e-mail: gbosurgi@unime.it
- Positions with scholarship: **No. 3 UNIME**
 No. 3 UNIRC
 No. 2 CLOUD@ME
- Positions without scholarship: **No. 2**
- Required degree LM-4 Architettura e ingegneria edile-architettura (*Master's degree in Architecture and building engineering-architecture*)
LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale) (Degree in Architecture and building engineering-architecture - five years)
LM-17 Fisica (*Master's degree in Physics*)
LM-18 Informatica (*Master's degree in Computer Engineering*)
LM-20 Ingegneria aerospaziale e astronautica (*Master's degree in Aerospace and astronautics engineering*)
LM-22 Ingegneria chimica (*Master's degree in Chemical Engineering*)
LM-23 Ingegneria civile (*Master's degree in Civil Engineering*)
LM-24 Ingegneria dei sistemi edilizi (*Master's degree in Engineering of building systems*)

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 (*Master's degree in Engineering for the environment and the territory*)
LM-40 Matematica (*Master's degree in Mathematics*)
LM-53 Scienza e ingegneria dei materiali (*Master's degree in Material science and Engineering*)
LM-54 Scienze chimiche (*Master's degree in Chemical Sciences*)
LM-56 Scienze dell'economia (*Master's degree in Economics*)
LM-71 Scienze e tecnologie della chimica industrial (*Master's degree in Sciences and technologies of industrial chemistry*)
LM-72 Scienze e tecnologie della navigazione (*Master's degree in Science and technology of navigation*)
27/S (specialistiche in ingegneria chimica) (*master's degrees in chemical engineering*)
28/S (specialistiche in ingegneria civile) (*master's degrees in civil 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*)
34/S (specialistiche in ingegneria gestionale) (*master's degrees in management engineering*)
35/S (specialistiche in ingegneria informatica) (*master's degrees in computer 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 degrees in for the environment and the territory*)
50/S (specialistiche in modellistica matematico-fisica per l'ingegneria) (*master's degrees in mathematical-physical modeling for engineering*)
61/S (specialistiche in scienza e ingegneria dei materiali) (*master's degrees in material science and engineering*)

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was

issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Description and objectives of PhD course <https://www.unime.it/it/dottorato/ingegneria-civile-ambientale-della-sicurezza>

The PhD course, with an international vocation, in "Civil, environmental and safety engineering" represents the natural completion of the study courses offered by the two offices. In particular, the training objectives are aimed at advancing knowledge:

- design, management, control, security and monitoring of civil and industrial infrastructures and structures that interact with the environment and the territory;
- basic sciences, complex technologies and systems at the service of the civil and environmental engineering sector, production of energy from renewable sources and new materials.

The aim of the training is to transfer knowledge on specific subjects of civil, environmental and safety engineering to train highly specialized figures capable of dealing with complex research or application problems.

For the interdisciplinary of the topics, the PhD is organized in training courses, with general and specialist courses, aimed at the transfer of the basic knowledge of each disciplinary area, during the 1st year and the development of specific research topics, thesis subject. doctorate, during the 2nd and 3rd year.

The training will be completed by experiences at the laboratories of the Departments of the congress centers and with research periods abroad at prestigious international institutions.

Employment and career opportunities provided

The main aim of the PhD course is employment, providing skills for profitable integration in the labor market or research that contributes to the growth of competitiveness in the area in which the intervention operates. The "Civil Engineering" training course provides employment opportunities in geotechnical, hydraulic, structural and civil engineering, training experts in planning, management, control and monitoring. The occupational fields of reference are public administrations and the world of engineering professions. The "Environmental Engineering" training course provides employment opportunities in local engineering and environmental protection and contributes to the training of experts in the planning, management and control of sustainable infrastructure works and systems and materials with low environmental impact, systems for control, protection and management of the territory, to monitor and mitigate risks. The "Safety Engineering" training course provides employment opportunities in the materials, energy, monitoring and control sectors, training experts in the study of innovative materials, in the production of low impact energy and from renewable sources, in the planning and management of complex systems and advanced networks for environmental monitoring.

Description of training activities

Linguistics	It is planned to organize, in agreement with the other curricula and the other PhD courses, the linguistic improvement activities required by article 4, paragraph 1, letter. f). All PhD students will be encouraged to take exams that allow them to obtain internationally recognized certificates.
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Information Technology	It is planned to organize, in agreement with the other curricula and other PhD courses, computer training activities (courses and/or seminars) on operating systems, programming also for objects and advanced/integrated programming languages. The proposing Departments are provided with the following software packages: MatLab, AnsysMechanical, Aqua, Mike21, LitPack, Bladed, Abaqus, Adama, Aztec Suite, Comsol, Ensoft, Geomarc, Flac2d, Plaxis 2d&3d, Proshake, HEC-HMS, HEC-RAS, FLO-2D, Microwave.
Research management, knowledge of research systems and funding systems	It is planned to organize, in agreement with the other curricula and other PhD courses, training activities in the field of research management and knowledge of European and international research systems, also with the participation of external teachers (courses and/or seminars).
Exploitation of research results and intellectual property	It is planned to organize, in agreement with the other PhD courses, training activities on the exploitation of research results and intellectual property, also with the participation of external teachers (courses and/or seminars).

Positions with theme or project obliged:

CLOUD@ME [Advances in Cloud - Edge Computing e Big Data Analytics for public administration: <https://fcrlab.unime.it/dottorato/>] PhD activities provide:

1. Infrastructure and application assessment necessary to define a map of current systems and applications to converge on the Cloud and on the Edge, explaining the needs of Big Data Processing for automation and efficiency processes of public administrations. As part of the assessment, it is necessary to identify the evolutionary requirements of the system useful for carrying out an adequate sizing according to the needs of users of the Cloud and Edge Computing.
2. Technological Scouting: hardware and software selection to identify the most suitable solution to meet the innovation project requirements with the Virtualization environment setup of the processing, storage, network and possibly client resources, with the aim of simplifying management Hardware components. Cloud and Edge Computing resource management must obey virtual resource management policies with Osmotic Computing dynamic systems modeling.
3. Study, analysis and implementation of workflows, advanced processes and algorithms, which are part of Big Data Analytics, Big Data visualization, machine learning, also with a view to security and privacy (GDPR, Blockchain directives, Single Sign -on-SPID, etc.), necessary to simplify the procedures in place in public administrations.

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of the PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate.

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- Master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experiences;
- any experiences in research activities;
- any other qualifications held by the candidate;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of the PhD thesis);
- curriculum vitae.

For graduates abroad, the admission procedures include the assessment of qualifications and the research project.

2. Research Project

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

The candidate must attach to the application for participation a research project (with a maximum of 10000 characters) consistent with the specific themes of the PhD curricula. However, this project does not constitute the subsequent assignment of the PhD thesis.

3. Examination: oral test

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test the knowledge of the English language will be verified.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “INGEGNERIA CIVILE, AMBIENTALE E DELLA SICUREZZA”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020–GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 7

PhD course in: **Ingegneria e Chimica dei Materiali e delle Costruzioni** (*Engineering and Chemistry of Materials and Constructions*)
<http://www.unime.it/it/dottorato/ingegneria-chimica-materiali-costruzioni>

Coordinator: **Prof. Giovanni Neri**
e-mail: gneri@unime.it

Industrial PhD in collaboration with affiliated Bodies Companies:

STMicroelectronics	Company carrying out research and development activities	PRIVATE
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The objective of the industrial PhD course in Engineering and Chemistry of Materials and Construction is to train qualified professional figures, oriented to the world of research, businesses, governmental, national and international institutions. The training objective of the project transversally includes the strategic sectors of engineering and chemistry, through multidisciplinary research that favors innovation and the development of new products and processes. The agreement with STMicroelectronics, the multinational world leader in the field of semiconductors, devices and processes for microelectronics, is specifically addressed in the "Environmental sensors" area whose training objective is to provide technical and methodological skills with high innovative content in this sector, combining theoretical scientific aspects and in particular design aspects, with particular reference to the current requests for monitoring and control devices for sustainable innovation and environmental protection.

Positions with scholarship: **No. 5 UNIME**

Positions without scholarship: **No. 1**

Required degree:
LM-4 Architettura e ingegneria edile-architettura (*Master's degree in Architecture and building engineering architecture*)
LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale) (*Master's degree in Architecture and building engineering - five years*)
LM-13 Farmacia e farmacia industriale (*Master's degree in Pharmacy and industrial pharmacy*)

LM-17 Fisica (*Master's degree in Physics*)
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 (*Master's degree in Chemical Engineering*)
LM-23 Ingegneria civile (*Master's degree in Civil Engineering*)
LM-24 Ingegneria dei sistemi edilizi (*Master's degree in Engineering of building systems*)
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 (*Master's degree in Engineering for the environment and the territory*)
LM-40 Matematica (*Master's degree in Mathematics*)
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*)
4/S (specialistiche in architettura e ingegneria edile) (*master's degrees in architecture and construction engineering*)
14/S (specialistiche in farmacia e farmacia industriale) (*master's degrees in pharmacy and industrial pharmacy*)
20/S (specialistiche in fisica) (*master's degrees in physics*)
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 degrees 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 degrees in engineering for the environment and the territory*)
45/S (specialistiche in matematica) (*master's degrees in mathematics*)
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*)

Requirements for foreign students

Knowledge of Italian or English language.

The suitability of the foreign qualification will be ascertained by the PhD examination Committee, according to the current regulations in Italy and in the country where the qualification was issued and in compliance with the treaties and international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of the PhD thesis);

per i candidati già in possesso del titolo di accesso:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;

– NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

The maximum score attributable to the qualifications will be **25/100 points**.

The evaluable titles are:

- Master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any other qualifications held by the candidate;
- curriculum vitae.

2. Research Project

The maximum score attributable to the research project will be **5/100 points**.

The research project, in short - max 5 pages, must: 1) define the interest and motivations of the project with particular reference to the state of the art; 2) clearly indicate the objective pursued, which must fall within the themes of the doctoral course; 3) provide specific indications on the methodology followed to implement it.

The research project drawn up by the candidate does not constitute a constraint on the subsequent assignation of the PhD thesis.

3. Examination: oral test

The interview is aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics

concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test the knowledge of the English language will be verified.

For foreign students, knowledge of Italian or English is required.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “INGEGNERIA E CHIMICA DEI MATERIALI E DELLE COSTRUZIONI”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

N.B. Descrizione e obiettivi del corso, sbocchi occupazionali e professionali previsti e descrizione delle attività di formazione <http://www.unime.it/it/dottorato/ingegneria-chimica-materiali-costruzioni>



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 8

PhD course in: **Scienze Chimiche (*Chemical Sciences*)**
<http://www.unime.it/it/dottorato/scienze-chimiche>

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*)

Coordinator: **Professor Paola Dugo**
e-mail: pdugo@unime.it

Industrial PhD in collaboration with affiliated Bodies Companies:

Spectra Analysis Instruments, Inc.	Company carrying out research and development activities	PRIVATE
Chromaleont	Company carrying out research and development activities	PRIVATE
The Procter&Gamble Company	Company carrying out research and development activities	PRIVATE

The agreement with companies (which carry out R&D activities) operating in sectors of strategic importance for what are the job opportunities of the PhD course in Chemical Sciences, will be able to contribute and train young PhD students in a specific way by implementing the possibilities of entering the workplace in not only local, but national and/or international level. The Chromaleont, Spectra and Procter & Gamble companies offer PhD students high skills in the field of analytical chemistry applied to different sectors (environmental, pharmaceutical, agro-food), cutting-edge instrumentation and the possibility of international research.

Positions with scholarship: **No. 6 UNIME**

Positions without scholarship: **No. 2**

Required Master's degree All Master's degrees

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to attached

Documents required to be attached to the application in pdf format

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae

2. Examination: oral test

The oral test - which can be held in English at the request of the candidate - consists of an interview intended to ascertain the preparation, skills and aptitude for scientific research of the candidates, with particular regard to the topics of the PhD course.

During the oral test, the knowledge of the English language will be verified, in case the test is held in Italian. For foreign students, knowledge of Italian or English is required. The maximum score attributable to oral test will be **70/100 points**, with a minimum score to be exceeded by **42/100 points**.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE CHIMICHE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Please note: Description and objectives of the course, expected occupation and professional opportunities and description of the training activities <http://www.unime.it/it/dottorato/scienze-chimiche>



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 9

PhD course in: **Scienze Cognitive (*Cognitive Sciences*)**
<https://www.unime.it/it/dottorato/scienze-cognitive>

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*)

Coordinator **Professor Alessandra Falzone**
e-mail: alessandra.falzone@unime.it

Positions with scholarship: **No. 6 UNIME**

Positions without scholarship: **No. 2**

Required Master's degree: All Master's degrees

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Description and objectives of PhD course <https://www.unime.it/it/dottorato/scienze-cognitive>

The PhD has been running without interruptions since 28th Cycle and provides a broad spectrum training starting from the “cognitive turn”. The field of studies in cognitive sciences is not limited to specific research areas, but actually covers areas related to complex problems and it is intrinsically multidisciplinary.

The unitary object of studies is the nature and functioning of the mind in any natural or artificial system, but it will be investigated here from a wide variety of approaches. Philosophy, psychology, neuroscience, linguistics and computer science are the cornerstones of classical cognitivism. More

recently, cognitivism has broadened to include social and territorial sciences and evolutionary sciences, thus producing new disciplines bioethics, neuroaesthetics, cognitive ethology, neuropedagogy: all objects of PhD training proposed here. Rather than a combination of contents, cognitive sciences can be identified as an interdisciplinary method based on the integration of the rigour of natural and technological sciences with the breadth of the interpretative spectrum of human sciences, adopted as fundamental training objective of the PhD course. The subdivision in two curricula, (philosophical-naturalistic and technological-social), in line with the content and methodological horizon, defines an educational outline that falls perfectly within the sector ERC SH4 “The Human Mind and its complexity: cognition, psychology, linguistics, philosophy and education” <https://www.unime.it/it/dottorato/scienze-cognitive/introduzione>

Employment and career opportunities provided

Research doctors in cognitive sciences find job both in the field of theoretical and applied research in each of the areas in which cognitive sciences are constituted, such as neuroscience, linguistics, artificial intelligence, philosophy and psychology, as well as in the research area of rehabilitation and healthcare of people and in the technological field of “cognitive artifacts”, that is all those devices which aim to enhance humans’ cognitive abilities. The aforementioned research areas offer a wealth of opportunity within today’s scenario. Although they are more widely practiced abroad, also in Italy neuroscience, bioengineering and robotics, just to mention some experiences of sure social recognition, also offer authentic job opportunities. The field of cognitive rehabilitation has already been developed and presumably will be even more so in the future, as social awareness towards disabilities and methods for their care will grow. Furthermore, the use of “cognitive artifacts” technologies is becoming one of the main high tech sectors to offer career opportunities: the construction of web ontologies, the simulation of market trends, the planning of ergonomic artifacts are only some examples. The PhD board has activated partnerships, internships and stages with some companies to support and encourage PhD students in starting a career in the aforementioned directions.

<https://www.unime.it/it/dottorato/scienze-cognitive/introduzione>

Description of training activities

Linguistics	Pathways for the acquisition of language skills, for the visualization and writing of research results. In detail: - specific workshops (Italian and/or English with support of native speakers) at levels of advancement; initiatives are also promoted in connection with other research centers - training in scientific English and its use in the main online bibliographic databases (e.g. SBA, PubMed) - stays abroad for research and linguistic improvement https://www.unime.it/it/dottorato/scienze-cognitive/introduzione
Information Technology	Pathways for acquiring IT skills for research, especially software. In particular: - overview on the use of information technology as a vehicle of knowledge, starting from relational databases, up to logical knowledge-bases, ending with ontology systems and semantic organization oriented to the web world - statistics course for experimental research in the humanities and

	<p>cognitive fields</p> <p>-basic courses related to the use of programs for neurocognitive research</p> <p>https://www.unime.it/it/dottorato/scienze-cognitive/introduzione</p>
<p>Research management, knowledge of research systems and of financing systems</p>	<p>Specific activities are foreseen for the correct use of the available research resources and for the development of skills regarding contents and practices for the Grants of the European Research Council, specifically suitable for multidisciplinary ERC SH4 research "The Human Mind and its complexity: cognition, psychology, linguistics, philosophy and education".</p> <p>Sono previste attività specifiche per l'utilizzo corretto delle risorse per la ricerca a disposizione e per lo sviluppo di competenze riguardanti contenuti e le prassi per i Grant dello European Research Council, specificamente adatti alla ricerca multidisciplinare ERC SH4 "The Human Mind and its complexity: cognition, psychology, linguistics, philosophy and education".</p> <p>https://www.unime.it/it/dottorato/scienze-cognitive/ricerca</p>
<p>Exploitation of research results and intellectual property</p>	<p>Proprietary forms of dissemination of results</p> <ol style="list-style-type: none"> 1) International Journal CLASSE A: RSL: Italian Journal of Cognitive Sciences (IL MULINO) - SCOPUS - ISI WoS Clarivate Analytics, Philosopher's Index, Google Scholar, EBSCO 2) International Journal "Mediterranean Journal of Clinical Psychology" (ISI-WEB of Science Clarivate Analytics; Scopus) 3) International Series "Perspectives in Pragmatics, Philosophy and Psychology" SPRINGER 4) Editore CoRiSco (Coordinamento italiano della ricerca in Scienze Cognitive) <p>https://www.unime.it/it/dottorato/scienze-cognitive/disseminazione-ricerca</p>

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate, a maximum of four A4 pages (which is not a constraint on the subsequent assignment of the doctoral thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;

- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae

2. Research project

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

The research project, a maximum of four A4 pages, from which the research object, the objectives to be achieve, the methods and the possible impact for the research field of cognitive sciences are clear.

The research project developed by the candidate on specific topics of the PhD does not constitute a constraint to the subsequent assignment of the PhD thesis.

2. Examination: oral test

The interview is aimed at ascertaining the preparation, ability, aptitude for scientific research, full mastery of the specific bibliographic tools of the cognitive sciences, and the professional motivation of the candidates. The interview is aimed at verifying the knowledge of the candidates in one or

more areas of cognitive sciences (language sciences; philosophical sciences; neuropedagogy; neurosciences and mind sciences; information sciences; AI and media technologies; social sciences and territorially cognitively oriented, science of evolution, biopolitics) with particular reference to the theoretical and/or experimental methodologies required by the two curricula (1) Philosophies of language and mind, psychology and science of evolution; (2) Social, territorial, media and performing arts theories and technologies. The general methodological ability and, in particular, the aptitude for the use of experimental and statistical methodologies possibly related to the research project presented by the candidate will also be assessed.

During the oral test, the knowledge of English will be verified.

For foreign students, knowledge of Italian or English is required. The maximum score attributable to the oral exam will be **70/100 points**, with a minimum assessment to be considered exceeded by **42/100 points**.

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE COGNITIVE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 10

PhD course in: **Scienze Giuridiche (*Juridical Sciences*)**
<https://www.unime.it/it/dottorato/scienze-giuridiche>

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. Organization of the power and protection of the fundamental rights in the constitutional and historical-philosophic perspective;

Topics: 1. a) Codification and Constitution between tradition and innovation;

1. b) Human rights and “ius migrandi”

1. c) New technologies and personal rights;

2. Civil law. People and market in national and European law;

Topics: 2. a) Protection of individual fundamental values in the private property law;

2. b) New technologies and human rights.

3. Criminal law protection and personal guarantees in national, comparative, European and international law: substantial and processual profiles;

Topics: 3. a) Globalization and protection of fundamental rights: profiles of substantive and procedural law.

3. b) Human rights and “ius migrandi”

3. c) New technologies and personal rights.

4. Business, transport and public administration;

Topics: 4. a) Management of essential public services: public, contractual, corporate, fiscal and transport aspects.

Coordinator: **Professor Concetta Parrinello**
e-mail: cparrinello@unime.it

Positions with scholarship: **No. 6 UNIME**

Positions without scholarship: **No. 2**

Required Master's degree LMG/01 Classe delle lauree magistrali in giurisprudenza (*Master's degree classes in Law*)

22/S (specialistiche in giurisprudenza) (*Master's degrees classes in Law*)
LMG/01 GIURISPRUDENZA) (*Master's degree classes in Law*)
Laurea in giurisprudenza (V.O) (*Master's degree classes in Law*)

Requirements for foreign students

Master's degree corresponding to the Master's Degree in Law or equivalent to it and basic knowledge of the Italian language.

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- research project prepared by the candidate in Italian and English/French/German/Spanish at the candidate's choice (which does not constitute a constraint to the subsequent assignment of the doctoral thesis) in pdf format and duly signed.

for candidates already in possession of the required qualification

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;
- curriculum vitae.

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, final vote);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae

2. Research Project

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

The research project, drawn up in Italian and in English/French/German/Spanish at the candidate's choice, must be at least 20 pages long, the maximum number of lines per page must be 25-30 lines with the following margins: left 4 cm; right 2,5 cm; top and bottom 3 cm, font: Times New Roman 14 pt, line spacing 1.5, all pages must be progressively numbered at the top or bottom in the center, accompanied by an adequate bibliography, in pdf format and duly signed.

The research project developed by the candidate on specific topics of the PhD course does not constitute a constraint to the subsequent assignment of the PhD thesis.

3. Examination: oral test

The oral exam consists of an interview - which can be held in English, French, German or Spanish at the request of the candidate - aimed at assessing the preparation, skills, aptitude for scientific research and the motivations of the candidates, regarding the program doctoral curriculum. The interview also aims to verify the knowledge of candidates on topics related to the training and methodological guidelines of the doctorate and includes the formal presentation of the proposed research project.

During the oral exam, the knowledge of English/French/German/Spanish will be verified at the candidate's choice, if the exam takes place in Italian.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE GIURIDICHE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Please note: Description and objectives of the course, expected occupation and professional opportunities and description of the training activities <https://www.unime.it/it/dottorato/scienze-giuridiche>



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 11

- PhD course in: **Scienze Politiche (*Political Sciences*)**
<http://www.unime.it/it/dottorato/scienze-politiche>
- Coordinator: **Professor Giuseppe BOTTARO**
e-mail: gbottaro@unime.it
- Positions with scholarship: **No. 6 UNIME**
- Positions without scholarship: **No. 2**
- Required Master's degree: 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 degrees in Science for development cooperation*)
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*)
LMG/01 GIURISPRUDENZA (*Master's degree in Law*)

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Descrizione e obiettivi del corso <http://www.unime.it/it/dottorato/scienze-politiche>

The PhD course in Political Sciences expresses and combines the different training needs for advanced research of the Department of Political and Legal Sciences of the University of Messina. The PhD course makes use of the many scientific and disciplinary competences present in the Department. It arises from the awareness that only a multidisciplinary approach, typical of Political Sciences, can provide adequate tools and methodologies of knowledge, orientation and interpretation of the complex nuances that characterize the complexity of the contemporary political world in its different and varied dimensions, in continuous and fast evolution. The PhD course specifically involves the following study areas: History of political doctrines, Contemporary history, Political philosophy, History of political institutions, History of international relations, General sociology, Institutions of public law, Private law, European Union law, Administrative law, Labor law, Economic law, Geography.

The educational objectives of the course are: to provide

PhD students with an easily usable training in the fields of research and national and international institutions;

to integrate a solid theoretical-conceptual preparation with the full use of research methods, including the conscious use of European Union languages, to stimulate the ability to interpret the problems and transformations of contemporary society in an innovative way.

Employment and career opportunities provided

The PhD course in Political Sciences aims to provide PhD students, as a result of the acquired interdisciplinary skills, knowledge tools useful for entering the professions that require a thematic and methodological culture in the field of political and social sciences, together with an application versatility and capacity to face, analyze and solve complex problems. This knowledge and skills

will be suitable to continue academic research, but also to fit into the governing bodies of international, national and local institutions, in companies, in non-governmental organizations and associations.

The achievement of the PhD title, ultimately, develops a profile of excellence capable of being competitive at national and international level.

Description of training activities

Linguistics	The activity includes training courses organized around language skills. During the doctoral course a significant part of the lessons and seminars will be held in a foreign language. Oral communication and the presentation of research results (presentation of research projects), as well as the writing of the main genres of research-related writing (report, essay, journal article, monograph) can also take place in a foreign language.
Information Technology	The activities include the acquisition of research-related IT skills, especially software (databases; statistical processing programs; SPSS). PhD students will have multimedia classrooms and computerized workstations connected to the university network.
Research management, knowledge of research systems and funding system	The activities have two main routes: 1. The study of research resources and their correct use 2. The study of the research methodology linked to individual disciplinary fields. Competences are provided regarding national and international financing systems (PRIN; FIRB; HORIZON) and how to compile and report on projects. The Academic Board will adopt the research management systems in use in the international scientific community.
Exploitation of research results and intellectual property	The activities include the deepening of research-related documents (thesis, essay, interview) and the main dissemination channels (conferences, congresses, publishing). The PhD course favors the participation of PhD students in cultural events in Italy and abroad. Research activities can be published in scientific journals, including those belonging to class A. PhD thesis deemed valid by the Academic Board can be published in the series of the Department of Political Sciences.

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of PhD thesis);

for candidates already in possession of the required qualification

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis;

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (for graduates only the final vote will be taken into account; for undergraduates the average of the exams will be taken into account);
- any publications;
- professional experience and other qualifications held by the candidate. Professional experiences are those that involve research activities consistent with the type of curriculum chosen.

2. Research Project

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

The research projects presented by the candidates must be consistent with the main areas of study foreseen by the PhD Course and congruent with the educational objectives. The theme and objectives of the research, the methodology, the state of the art and the reference bibliography must be indicated within the project.

The research project developed by the candidate on specific topics of the PhD does not constitute a constraint to the subsequent assignment of the PhD thesis.

3. Examination: oral test

For foreign students, knowledge of the Italian language is required.

The oral test consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is aimed at verifying the knowledge of the candidates on topics concerning the training and methodological guidelines of the Doctorate and includes the formal presentation of the proposed research project.

During the oral test, knowledge of English will be verified.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE POLITICHE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 12

PhD course in:

Humanistic Sciences

<https://www.unime.it/it/dottorato/scienze-umanistiche>

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. Ancient and Modern Philology;
2. Anthropology and History from the Middle Ages to the Contemporary Age;
3. Archaeology and Ancient History;
4. Philosophy.

Coordinator:

Professor Caterina Malta

e-mail: cmalta@unime.it

Positions with scholarship: **No. 8 UNIME**

Positions without scholarship: **No. 2**

Required Master's degree:

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)*
- LM-37. Lingue e letterature moderne europee e americane (abilitazione A045) *Master's degree in Modern European and American languages and literature (qualification A045)*
- 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*)
- 22/S (specialistiche in giurisprudenza) (*master's degree in law*)
- 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*)

102/S (specialistiche in teoria e tecniche della normazione e dell'informazione giuridica) (*master's degrees in theory and techniques of standardization and legal information*)

LMG/01 GIURISPRUDENZA) (*master's degree in law*)

Requirements for foreign students

- Knowledge of Italian language
- Knowledge of English or French language

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Please note

Description and objectives of the course

<https://www.unime.it/it/dottorato/scienze-umanistiche>

The PhD course in "Humanistic Sciences" trains scholars with highly qualified specialized research tools in line with the most advanced international research, with a wide and synergic offer, capable of producing high-level effects on employment.

The curriculum **Ancient and Modern Philology** provides for languages and classical literature and the ancient and modern, paleographic, the metric and ecdotic skills necessary for a study of texts at a philological, historical-linguistic, critical-literary level, applicable to different professional fields (university research, teaching secondary schools, publishing, journalism).

The curriculum **Anthropology and History from the Middle Ages to the Contemporary Age and history** in the context of European history and geography, religious history and political thought, aims at improving a competitive education in teaching and research; privileged topics: features of territory and its transformations based on anthropological and socio-cultural dynamics; historical roots of Europe between West, East and Mediterranean; impact of political and religious factors on modernity; interculturality and identity through narrative forms of some social groups.

The curriculum **Archaeology and Ancient History** trains qualified archaeologists and ancient historians, active at managerial and research level in the regional and Mediterranean context, with a background in archaeology, history, epigraphy, archaeological research methods, capable of managing knowledge, conservation and enhancement of cultural heritage.

The curriculum **Philosophy** trains qualified researchers across the entire range of philosophical disciplines. Particular attention is given to current issues such as those of the philosophy of complexity, geo-philosophy, bio-politics, bioethics and the relationships between philosophy and religions, the problems deriving from the development of science and the post-human question, which the historical reconstruction, rooted in modern Western reflection, also joins the theoretical perspective.

The PhD in "Humanistic Sciences" has a strong interdisciplinary cut, as shown by the interconnection between the various thematic areas of the SSDD that appear within it, attributable to the two sectors ERC SH5 and SH6, and the presence in the Academic Board of specialists of two CUN areas (10 and 11). This vocation is expressed in the proposal of a didactic offer common to the curricula both in the first and second year, for a total of 18 CFU (ECTS), based on the identification of aggregating thematic areas, related to theoretical and methodological aspects of the various active research lines in the PhD course, presented in a perspective of dialogue and transversality. The primary objective is to train, for a correct approach to literary, historical-anthropological, archaeological and philosophical facts, young researchers equipped with the necessary tools for an appropriate understanding of the culture and political-social aspects of the

ancient world, of medieval, modern Europe and contemporary; this training, although declined in highly specialized study paths (in the four curricula), rests on an integrated dimension of humanistic knowledge and allows doctoral students to deal with research and techniques of neighboring disciplines, maturing that scientific openness and ductility that are essential qualities of the modern scholar.

Employment and career opportunities provided

The PhD course provides employment opportunities and professional activities in public and private bodies in the field of humanistic scientific research, in schools, in institutions that promote and organize cultural activities, in human resources training services, with particular reference to integration and cultural mediation processes, in institutions responsible for the enhancement of regional identity, which conserve and manage Cultural Heritage (libraries, archeology, museum), in Institutes of industrial history, in the field of international cultural cooperation, in publishing and in public relations. Relevant professional opportunities: University researcher; School teaching in high schools; conservator of manuscripts in libraries.; archive manager; conservator of artistic heritage books in museums and foundations; Assignments in theaters and art galleries; technical and managerial roles in the “soprintendenze”, Museums, Parks, Bibles, Archives, Local Authorities of the National Administration. and Regional Heritage and Cultural Activities and the corresponding bodies of EU countries; didactic assignments at the “Provveditorati” to the studies and didactic directions; roles of responsibility in the design of collaboration policies at national and international level (Ministries, cultural foundations, diplomatic and consular representations, sectors related to cultural exchanges, communications, international relations); assignments to organizations to enhance regional identity, editorial activity.

Description of the training activities

<p>Linguistics</p>	<p>Language training, also with the presence of French professors in the Academic Board, will be favored by contact with scholars from foreign universities, with the possibility of seminars in foreign languages. The PhD course will take advantage of the research collaborations with foreign bodies and universities. For the preparation of the PhD thesis a 1 month stay abroad is foreseen at Institutions and archives most suitable, during which the PhD student can attend language courses.</p>
<p>Information Technology</p>	<p>The training will be followed specifically by the computer science professor of the Academic Board, through the presentation of IT resources for historical and philological-literary research; direct exercises on digitized databases and use of the subsidiary electronic resources of the research provided to the Department; presentation and critical evaluation of the current tools offered on the Internet; acquisition of software (indexing programs; content analysis programs; statistical processing programs - SPSS; image processing programs - Indesign Adobe; X press).</p>
<p>Research management, knowledge of research systems and financing systems</p>	<p>Seminars of experts of the various SSD (also external to the PhD course) are planned according to the educational objectives of each curriculum. In the meetings, the professors' experience will actively interact in the structuring and development of individual research paths. An overview of the main research methods and the use of IT resources will be offered and PhD students will be directed</p>

	<p>towards projects promoted within the VII Framework Program of the European Union, both in the PhD phase (Early Stage Researchers) and in the post-doc phase (Advanced Researcher), as well as PRIN, FIRB, HORIZON projects, with instructions on how compilation and reporting.</p>
<p>Exploitation of research results and intellectual property</p>	<p>PhD students will be able to make use of the three open access electronic journals present in the University, on a six-monthly: first of all «Peloro», PhD magazine, active since 2016, open to specialist research conducted in all areas of interest of the PhD, in which the PhD students they can publish the results of research parallel to the final thesis; «Humanities», active since 2012 and dedicated to the sectors of contemporary history, human geography, cultural and social anthropology and sociology of communication; «Il Pensiero italiano», projected on the study of the Italian philosophical tradition. It is also possible for doctoral students to benefit from relations with the International Center for Humanities, which boasts numerous necklaces and the magazines "Medieval and Humanistic Studies" and "Humanism of the Moderns"; and in general of the DICAM editorial platform (editorial outlets may also offer the journals "Quaderni di Archeologia"; "Analecta Papyrologica", and the necklaces "Carteggi di Filologi", "Orione. Texts and studies of Greek literature", "Pelorias", «Semata e Signa»; PhD students will also be able to interact with the European Center of Studies on Myth and Symbol and that of Philosophy of Complexity "Edgar Morin"; and their works can be hosted in the magazines and editorial series of these centers as in those directed or co-directed by the professors of the Academic Board. These structures, inherent to the various research areas of the curricula, will allow PhD students to disseminate the results of their research with individual signature in suitable locations. It will also encourage the organization and participation of PhD students at study conferences, seminars and cultural events both in Italy and abroad.</p>

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignment of PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract.

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis.

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate;

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams and final vote);
- any publications;
- professional experience and other qualifications held by the candidate;
- curriculum vitae.

2. Research Project

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

A research project that the candidate must present in writing (no more than 4000 words) at the time of application will be evaluated; this project does not constitute a constraint on the subsequent attribution of the thesis, if the candidate is admitted to the courses.

3. Examination: oral test

The interview is aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates and it is also aimed at verifying the knowledge of the candidates on

topics concerning the training and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

In particular:

- a) reading skills, historical-cultural contextualization, interpretation and commentary of a text concerning the disciplinary area of the chosen curriculum, with an essay of translation from Greek or Latin for the ancient philology curriculum;
- b) knowledge of research methodology relevant to the field chosen discipline;
- c) discussion of the research project.

During the oral test the knowledge of the knowledge of a foreign language indicated by the candidate in the application will be verified (choice between English, French, German, Spanish).

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE UMANISTICHE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 13

PhD course in: **Scienze Veterinarie (*Veterinary Sciences*)**
<http://www.unime.it/it/dottorato/scienze-veterinarie>

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. Morfologia 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*)

Coordinator: **Professor Rosaria Laurà**
e-mail: laurar@unime.it

Positions with scholarship: **No. 6 UNIME**

Positions without scholarship: **No. 2**

Required Master's Degree 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-42 Medicina veterinaria (*Master's degree in Veterinary Medicine*)
LM-69 Scienze e tecnologie agrarie (*Master's degree in Agricultural Science and Technology*)
LM-70 Scienze e tecnologie alimentari (*Master's degree in Food science and technology*)
LM-86 Scienze zootecniche e tecnologie animali (*Master's degree in Animal husbandry science and technology*)
6/S (specialistiche in biologia) (*master's degrees in biology*)
7/S (specialistiche in biotecnologie agrarie) (*master's degrees in agricultural biotechnologies*)
9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche) (*master's degrees in medical, veterinary and pharmaceutical biotechnologies*)
47/S (specialistiche in medicina veterinaria) (*master's degrees in veterinary medicine*)

77/S (specialistiche in scienze e tecnologie agrarie) (*master's degrees in agricultural sciences and technologies*)

78/S (specialistiche in scienze e tecnologie agroalimentari) (*master's degrees in agro-food sciences and technologies*)

79/S (specialistiche in scienze e tecnologie agrozootecniche) (*master's degrees in agro-zootechnical sciences and technologies*)

Requirements for foreign students

Master's degrees relating to the PhD training program, with knowledge of the English language.

The suitability of the foreign qualification will be ascertained by the PhD Examination Committee in compliance with the legislation in force in Italy and in the country where the qualification was issued and the international treaties or agreements on the recognition of qualifications for the continuation of studies.

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate (which does not constitute a constraint on the subsequent assignation of PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- Abstract of the thesis.

Additional qualifications to attached to the application form if in possession of the candidate:

- publications;
- professional experiences;
- other qualifications in possession of the candidate.

Evaluation criteria for qualifications and examination

1. Titles

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

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, degree mark);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae.

2. Research Project

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

The research project developed by the candidate on specific topics of the PhD does not constitute a constraint to the subsequent assignment of the PhD thesis.

2. Examination: oral test

It consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the interview, the knowledge of English/French will be verified.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “SCIENZE VETERINARIE”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020– GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Please note: Description and objectives of the course, expected employment and professional opportunities and description of the training activities <http://www.unime.it/it/dottorato/scienze-veterinarie>



Università degli Studi di Messina

**PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR THE
ADMISSION TO PHD COURSES 36TH CYCLE**

ATTACHMENT No. 14

PhD course in: **Translational Molecular Medicine and Surgery**
<https://www.unime.it/it/dottorato/translational-molecular-medicine-and-surgery>

Coordinator: **Professor Gaetano Caramori**
e-mail: gcaramori@unime.it

Industrial PhD in collaboration with affiliated Bodies/Companies

L.C. Laboratori Campisi srl	Company carrying out research and development activities	PRIVATE
Istituto Oncologico del Mediterraneo (IOM) SpA	Company carrying out research and development activities	PRIVATE

The PhD in Translational Medicine and Molecular Surgery for the 36th Cycle has acquired an industrial characterization thanks to agreements with 2 companies in the health sector such as L.C. Laboratories Campisi srl (<https://www.lccampisigroup.it/>) and Istituto Oncologico del Mediterraneo (IOM) Spa (<http://www.grupposamed.com/iom>), these agreements will allow PhD students to attend these structures to carry out part of their research.

In particular, the L.C. Laboratori Campisi srl will finance a PhD scholarship for a research project to be carried out at its research Laboratories, while a position without scholarship will be reserved for a PhD student of IOM Spa, a company engaged in highly qualified activities, for a research project to be carried out at IOM Spa by employees of the same company.

Positions with scholarship: **No. 6 UNIME**
No. 2 AOU
No. 1 L.C. Laboratori Campisi srl

Reserved position for employees of Company engaged in highly qualified activities: **No. 1 Istituto Oncologico del Mediterraneo (IOM) Spa**

Positions without scholarship: **No. 3**

Required Master's Degree: 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-41 Medicina e chirurgia (*Master's degree in Medicine and Surgery*)
LM-51 Psicologia (*Master's degree in Psychology*)
LM-67 Scienze e tecniche delle attività motorie preventive e adattate (*Master's degree in Sciences and techniques of preventive and adapted motor activities*)

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with current regulations in force in Italy and in the country where the qualification was issued and in compliance with treaties or international agreements concerning the recognition of qualifications for the continuation of studies.

Positions with theme or project obliged:

L.C. Laboratori Campisi srl (<https://www.lccampisigroup.it/>)

The aim of this project is to apply the latest technologies in genetic and biomedical research whose diagnostic reliability is also applicable to the identification of genetic defects through coelocentesis to allow all prenatal analysis laboratories to be able to perform this method. with sustainable costs and with the same high standards of safety, reliability and repeatability.

For all the details see the url: <https://www.unime.it/it/dottorato/translational-molecular-medicine-and-surgery> Istituto Oncologico del Mediterraneo (IOM) Spa (<http://www.grupposamed.com/iom>).

The aim of the project is to develop an innovative, specific, sensitive and non-invasive approach aimed at identifying prognostic factors for the persistence of neoplastic disease or recurrence in colorectal cancers. The researched molecular profiles will be guided by the extended mutational characterization carried out on the surgical material evaluated through next generation sequencing (NGS).

For all the details see the url: <https://www.unime.it/it/dottorato/translational-molecular-medicine-and-surgery>

Documents to attached

Documents required to be attached to the application in pdf format:

- a valid and scanned copy of an identification card with photo;
- curriculum vitae;
- research project drawn up by the candidate, (which is not a constraint on the subsequent assignment of the PhD thesis);

for candidates already in possession of the required qualification:

- a self-certification, provided with date and signature, indicating for the qualification: the name of Italian University who issued the qualification, type of degree, denomination of the degree course, the date of graduation, the final vote, list of examinations with the relevant marks and indication of CFU (credits) acquired where required;

Can also be used self-certifications:

- European Union citizens;
- NON-European Union citizens, regularly residing in Italy, regarding only the *status*, personal qualities and facts certified or attesting by Italian public bodies (in particular: degree obtained at an Italian University).

The candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries, must attach the certificate/s of academic qualifications in possession (Bachelor's and Master's degree) from which are deduced the duration of the Degree course, the list of the examinations taken with the relevant marks, the name of the University that issued the qualification, the date of the qualification and the final vote, with the relevant translation in the Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed. These candidates will be conditionally admitted to the selection and will be excluded from the selection and from PhD course if, after a check, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow the enrollment in the PhD course.

- master's or specialist or old system degree thesis accompanied by a short abstract;

for candidates not yet in possession of required qualification (undergraduates):

- Self-certification, signed and dated, indicating for the required qualification: University where they are enrolled, type of degree, designation of the degree course, list of the exams attended with relevant vote and indication of CFU earned;
- abstract of the thesis.

Additional qualifications to attached to the application form if in possession of the candidate:

- scientific publications;
- professional experiences;
- other qualifications in possession of the candidate;

1 Evaluation criteria for qualifications and examination

1. Titles

The maximum score attributable to the qualifications will be **10/100 points**, with a minimum score **1/100 points**.

The evaluable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, degree mark);
- any publications;
- any professional experience and other qualifications in possession by the candidate;
- curriculum vitae.

2. Research project

The maximum score attributable to the qualifications will be **40/100 points.**, with a minimum score **9/100 points**.

The research project can be written indifferently in Italian or in English and must have a minimum number of 3 pages (Arial 12, numbered), without providing for a maximum number, and must be divided, in succession, into the following subsections:

Title of the research project

Research project index (including the following subsections):

Research project theme and scientific relevance of the problem

Purpose of the research project and goal setting

Experimental plan of the research project and applied methodologies

Statistical analysis of the research project

Analysis of the risks, problems and possible solutions of the research project

Any preliminary results to support the research project

Bibliography (in the style of the New England Journal of Medicine;
<https://www.nejm.org/doi/full/10.1056/NEJM199102073240624>

Tables

Figures (jpeg format) and legends of the figures

The research project developed by the candidate on specific topics of the PhD does not constitute a constraint to the subsequent assignment of the PhD thesis;

2.Examination: oral test

It consists of an oral telematics interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates.

During the oral test the knowledge of the English language will be verified.

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

Minimum overall assessment to be considered eligible: 60 points

The payment of the obligatory participation fee for the competition must be made through the PagoPA® system, as indicated in article 4.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the account IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of the University of Messina, specifying the reason for payment as indicated below: “<surname and name of the candidate> Participation PhD Contribution in “TRANSLATIONAL MOLECULAR MEDICINE AND SURGERY”. The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree No. 62 of 6th May 2020–GU serie generale No. 141 of 4th June 2020.

The receipt of the transfer must be carefully preserved and exhibited by the candidate in case of request.

Please note: Description and objectives of the course, expected employment and professional opportunities and description of the training activities
<https://www.unime.it/it/dottorato/translational-molecular-medicine-and-surgery>