



# UNIVERSITA' DEGLI STUDI DI MESSINA

## PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

### THE RECTOR

- IN VIEW OF the law of 13<sup>th</sup> August, 1984 No. 476, *“Norms regarding scholarships and research PhD courses in Universities”, and subsequent amendments and integrations;*
- IN VIEW OF the law of 9<sup>th</sup> May, 1989 No. 168 with which the Ministry of University and Scientific and Technological Research (MIUR) was established;
- IN VIEW OF the law of 2<sup>nd</sup> August, 1990 No. 241 that establishes: *“Rules governing administrative procedures and the right to have access to administrative documents”, and subsequent amendments and integrations;*
- IN VIEW OF the law of 3<sup>rd</sup> July 1998, No. 210, with particular reference to the article 4 and subsequent amendments and integrations;
- IN VIEW OF European Union Regulation (General Data Protection Regulation) of 27<sup>th</sup> April, 2016 No. 679;
- IN VIEW OF the Ministerial Decree (D.M.) of 22<sup>nd</sup> October, 2004 No. 270 with particular reference to articles 3 and 6 and subsequent amendments and integrations;
- IN VIEW OF the telematic bulletin of 23<sup>rd</sup>-24<sup>th</sup> January 23<sup>rd</sup>-24<sup>th</sup>, 2008 No. 14 of CUN related to the assignment of master's degrees of CUN Areas;
- IN VIEW OF the article 19, paragraph 1 of the law of 30<sup>th</sup> December, 2010 No. 240 that has modified article 4 of the law of 3<sup>rd</sup> July, 1998 No. 210, which establishes rules on PhD courses;
- IN VIEW OF The Legislative Decree (D. Lgs.) of 15<sup>th</sup> June, 2015 No. 85 regarding *“Organic regulation of employment contracts and revision of the legislation concerning duties, according to the article 1, clause 7, of the Law of 10<sup>th</sup> December, 2014 No. 183”, which has reorganized, among other things, the discipline regarding apprenticeship;*
- IN VIEW OF the articles 7 and 8 of regulation (EU) No. 1304/2013 of the European Parliament and the Council regarding the promotion of the equality among men and women, increment of the sustainable participation and advancements of women in the employment sector, struggle against poverty of women;
- IN VIEW OF the Statute of the University of Messina, issued with the Rector's Decree (D.R.) No. 1244 of 14<sup>th</sup> May, 2012 (published in the Italian Government Official Gazette – General Series, No. 116 of 19<sup>th</sup> May, 2012) and modified by the Rector's Decree No. 3429 of 30<sup>th</sup> December, 2014 (published in the Italian Government Official Gazette – General Series, No. 8 of 12<sup>th</sup> January, 2015);
- IN VIEW OF the Ministerial Decree (D.M.) of 8<sup>th</sup> February, 2013 No. 45 *“Regulation bearing the procedures for the accreditation of centers and of PhD courses and the criteria for the establishment of PhD courses by the accredited institutions”;*

- IN VIEW OF the Regulation of the University of Messina concerning PhD courses, issued with the Rector's Decree of 3<sup>rd</sup> May, 2016 No. 1015/2016;
- IN VIEW OF the Regulation concerning the contribution of students, issued with the Rector's Decree of 8<sup>th</sup> January 2019 No. 18;
- IN VIEW OF the Ministerial Decree (D.M.) of 25<sup>th</sup> January 2018, No. 40, that ordered the increase of the annual gross amount of PhD scholarships;
- IN VIEW OF the "*Guidelines for the accreditation of locations and of PhD courses*", as per the official Ministerial note of 1<sup>st</sup> February 2019, No. 3315 and the "*Operative indications on PhD accreditation procedures academic year 2019/20 – XXXV cycle*" of 27<sup>th</sup> February 2019, No. 6623;
- IN VIEW OF the deliberations of the Academic Senate and the Board of Directors of 27<sup>th</sup> March 2019, with which the PhD courses of 35<sup>th</sup> cycle have been approved, assigned the related scholarships and adopted all Agreements with public bodies and other Universities;
- IN VIEW OF the deliberations of the Academic Senate and the Board of Directors of 27<sup>th</sup> June 2019, concerning "Authorization starting selection procedures for the admission to the PhD courses 35<sup>th</sup> cycle";
- IN VIEW OF the deliberations of Academic Senate and the Board of Directors of 27<sup>th</sup> June 2019 concerning "Contributions about PhD courses";
- IN VIEW OF the opinion of "*Nucleo di Valutazione*" expressed at the assembly of 17<sup>th</sup> April, 2019, No. 38074, in order to verify the requirements of the PhD courses;
- IN VIEW OF the publication of the ANVUR opinions, published on the website dottorati.miur.it, relating to the accreditation of PhD Courses 35<sup>th</sup> cycle- a.y. 2019/2020;
- IN VIEW OF the agreements stipulated with universities and public or private research institutions, both Italian and foreign, for the activation and operation of PhD Courses, as indicated in the attachments to this Public announcement (Att. 1-13);
- IN VIEW OF the Call of INPS of 11<sup>th</sup> June 2019 concerning the search and selection for the provision of additional scholarships in favor of "children and orphans of persons enrolled in the unitary management of credits and social benefits and of retired users of public employees";
- CONSIDERED that some scholarships for the PhD courses referred to this Public announcement may subsequently be financed by other bodies with specific funds set up for this purpose;
- UNLESS any and subsequent modifications and/or additions to this announcement will be advertised on the University of Messina website at <http://www.unime.it/it/ricerca/dottorati-ricerca/bandi-dottorati-di-ricerca>;

## DECREES

## Art. 1 Establishment

The 35<sup>th</sup> cycle of PhD Courses is established with its administrative center at the University of Messina (hereinafter referred to as University) and the relative comparative selections are announced for the admission to the PhD Courses a.y. 2019/2020, better described in the Attachments to this decree (att. No. 1-13).

In the aforementioned Attachments, which are an integral part of the Public announcement, are indicated:

- the denomination of PhD courses;
- the type of degree required for admission;
- the characteristics of the PhD course and employment opportunities;
- the methods and criteria for selecting and evaluating candidates;
- the number of positions with and without a scholarship;
- the number of potential positions for the purpose of signing higher level apprenticeship contracts;
- any other document required and/or different procedure, according to the article 10 of the University Regulation concerning PhD courses, hereinafter referred to as Regulation.

The number of scholarships or of other forms of financial support can be increased **within three months** from the beginning of the PhD courses, in the case in which funding is available from other universities and/or public and private bodies, subject to the conditions of presentation of the admission request.

In accordance with the aforementioned Ministerial decree of 8<sup>th</sup> February, 2013 No.45, the PhD Courses are activated on the basis of the favorable opinion already expressed by the ANVUR on the maintenance of the ministerial accreditation requirements published on the website dottorati.miur.it.

The duration of the PhD courses is three academic years and the beginning of the PhD courses are scheduled to start on 1<sup>st</sup> October 2019.

## Art. 2 Admission requirements

The candidates can participate in the selections, without age or citizenship restrictions:

- a) those who, **on the expiry date of the Public announcement**, have obtained a specialist degree (D.M. No. 509/1999), or alternatively, master's degree (D.M. 270/2004), or master's degree (according to the old academic system), or similar academic qualification, also obtained abroad, declared equivalent, or recognized as eligible for admission to PhD courses, based on the principles enshrined in international conventions on the subject;
- b) Or those who **do not meet the aforementioned requirement on the expiry date of the Public announcement, on condition that** they obtain the qualification required for participation who will achieve the required qualification for participation **within the 31<sup>st</sup> October 2019, under penalty of forfeiture of admission**, in the event of successful selection.

In the latter case, candidates who pass the selection tests and enroll in a PhD course, after obtaining the qualification, and in any case **no further by 31<sup>st</sup> October 2019**, must send to the Rector of the University of Messina (by PEC to [protocollo.pec@unime.it](mailto:protocollo.pec@unime.it), or by hand delivery at the University's registry office, or by registered mail with return receipt to the address: Piazza Pugliatti, n. 1 – 98122 Messina), the self-certification concerning the achievement of the qualification

together with a copy of a valid identification card (or certification, in case of academic qualification obtained in Countries not belonging to the European Union), indicating:

- ✓ the type of qualification;
- ✓ the name of the University that issued the qualification;
- ✓ the date of achievement of qualification;
- ✓ final grade.

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

**The suitability of foreign qualification** will be verified by 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 higher education.

All the candidates **will be admitted conditionally to the selection** subject to verification of self-certified declarations according to Presidential Decree (D.P.R.) No. 4445/2000 and subsequent modifications and integrations. The University may, at any time during the proceedings, even after the start of the PhD courses, carry out checks on the truthfulness of the produced declarations. In the event of false declarations, the University may at any time, with provision of the Rector, **exclude** candidates from the selection procedure, or **order the forfeiture** from the admission to PhD course, without prejudice to the penal responsibilities arising therefrom.

### Art. 3

#### Application form for participation to the selection

The application form for participation to the selection, including the documentation indicated in the Attachments No. 1-13, must be completed electronically, using **exclusively** the form available at <https://unime.esse3.cineca.it> and following the instructions contained therein.

The submission of the application for the admission through the *on-line* procedure implies the acceptance by the candidates of the rules contained in this announcement and in the current Regulations concerning the PhD courses of the University of Messina, issued with Rector's Decree of 3<sup>rd</sup> May, 2016 No. 1015.

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 the expiry of this period, the connection will be deactivated and it will no longer be possible to complete the application form.

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

The candidates must attach the requested documents specified in the Attachment No. 1-13 **in pdf format**.

In the application form, the candidate must indicate the PhD course and the *Curriculum* (if present), for which he/she intends to participate.

The candidates interested in the activation of apprenticeship courses according to the article 12 of this announcement, must provide in the participation, explicit manifestation of interest in the possible stipulation of an apprenticeship contract and express consent to the processing and communication of personal data to the sponsoring companies.

The candidates, **European and NON-European citizens**, in possession of foreign qualification/s obtained in NON-European Countries, **must attach** the certificate of the qualification/s in possession, from which are deduced:

- the duration of the degree course;

- the list of examinations taken with the relevant marks;
- the name of the University that issued the qualification;
- the date of the graduation 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.

Can also used self-certifications, as expressly provided by articles 46 and 47 of Presidential Decree No. 445/2000 and subsequent amendments and integrations:

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

In the case of admission to the PhD course, the candidate must be produced and/or integrated at the time of registration, according to article 7 of this announcement, the documentation relating to *status*, quality and/or facts previously self-certified

The candidate with disability must specify, in the application form, the necessary help in relation to his/her disability and the possible need for additional time, documented by a suitable certificate issued by the Public Health Authority responsible for the area, in accordance with the Law No. 104/92, as amended by Law No. 17/99.

The candidate with a diagnosis of specific learning disabilities (DSA) must specify, in the application form, the necessary compensatory tools and the possible need for additional time, documented by a suitable certification issued by the Structures of National Health System for no more than three years, or by specialists and facilities accredited by the same, in accordance with the Law No. 170/2010 and subsequent guidelines D.M., 12<sup>th</sup> July, 2011 No. 5669.

For any information, the candidate may contact Dr. Davide Savasta (e-mail: [davide.savasta@unime.it](mailto:davide.savasta@unime.it), tel. 090 6768986) responsible for the University's "Disability Services/DSA" Operating Unit, located in via Consolato del Mare, No. 41, Palazzo Mariani, Messina.

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

At the end of the procedure, the payment of the obligatory participation fee for the competition of **€ 50.00** (fifty Euros) must be made through the PagoPA® system, within the deadline of the public announcement, **under penalty of exclusion** from the admission test.

Only for candidates residing abroad, the payment of the contribution can be paid 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> participation PhD contribution 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.

**The candidates from the developing Countries are exempted from the payment of the contribution mentioned above, as defined in Ministerial Decree of 11<sup>th</sup> June 2019- G.U.n.144 dated of 21<sup>st</sup> June 2019.**

## Art. 4 PhD examination Committees

The PhD examination Committees for admission to the PhD courses are appointed by Rector's Decree 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 financed by external bodies, both Italian and foreign, following the conclusion of a specific agreement, 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 deadline of the announcement, on the University's website <http://www.unime.it/it/ricerca/dottorati-ricerca> with notification value by the University.

In any case, the Coordinators will be promptly notified of the publication for all the consequential obligations and for the notification to the interested members.

## Art. 5 Examinations

The admission to the PhD courses takes place through selection, by qualifications and examinations, as indicated in the attachments No. 1-13 of this announcement.

The diary of the tests, with the indication of the place, the day, the month and the time in which the examinations 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 for all intents as the official convocation of the candidates.

The PhD examination Committee firstly proceeds to define the criteria for assessing the qualifications to which the overall score will be assigned, which will be published on the University website <http://www.unime.it/it/ricerca/dottorati-ricerca>.

Subsequently, the Committee proceeds to the evaluation of the titles. The presence of candidates at the time of evaluation is not permitted.

Subsequently, the Committee proceeds to the examination tests (written and/or oral) in the manner indicated for each PhD course in the Attachments No. 1-13 of this announcement.

The examinations will take place at the University of Messina, the administrative headquarters of the PhD courses.

The candidates must show a valid identification card to take the admission tests.

The oral exam, if required by the PhD course, and upon reasoned request, may be supported electronically, through suitable specific software and with procedures that guarantee the identification of the candidates.

The oral tests, even those carried out by electronic means, are public.

The final score of the selection, expressed in hundredths, is given by the sum of the grades reported in the individual assessments (titles and tests).

The outcome of the individual assessments, for each candidate, will be adequately publicized at the exam center, by the President and by the Committee Secretary.

At the end of the selection, based on the scores obtained in the assessment of qualifications and exams, the Committee prepares the general merit ranking with the list of candidates admitted and not admitted to the PhD course.

All PhD Committees must complete the works **no later than 15 September 2019**.

The general merit ranking is issued by Rector's Decree and is published in the Official online Register and on the University website with legal notification value for all purposes.

## Art. 6 Admission to the PhD courses

The candidates are admitted to PhD courses, in compliance with the provisions of the article 9 of the University Regulations, according to the ranking order, up to the number of positions available for the competition.

The candidate who, based on the final ranking list, found himself/herself in a useful position among the candidates admitted to PhD course, must express his/her acceptance **within 10 days** of publication on the website <http://www.unime.it/it/ricerca/dottorati-ricerca>.of the Rector's Decree of the admitted candidates, forwarding the registration application form according to the article 7.

Failure to complete the enrollment will result in **the forfeiture** of admission to the PhD course.

The scholarships are assigned according to the final order in the relative ranking. With the same merit, the assessment of the most disadvantaged economic situation determined in accordance with current legislation shall prevail, and in the event of further parity, the younger candidate shall prevail, pursuant to the provisions of the article 17 of the University Regulations.

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

The candidates holding Research grants may be admitted, after passing the selection tests and subject to the provisions of art. 20, point 10 of the University Regulations.

Public employees will be admitted, after passing the selection tests, in accordance with the decision of the article 20, point 13 of the aforementioned Regulations.

## Art. 7 Enrollment in the PhD courses

The candidates admitted to the PhD courses, with or without a scholarship, must enroll by **the deadline of 10 days** from the publication on the website <http://www.unime.it/it/ricerca/dottorati-ricerca> of Rector's Decree of the admitted candidates.

The candidate who participated in more selections and placed in different positions, must proceed with the enrollment by exercising the right of option for one of the PhD courses **within 10 days** of the publication of the final ranking list of all the PhD courses to which he/she is admitted. Failure to complete enrollment in the chosen course will result in **the forfeiture** of admission to all PhD courses in which the candidate has been admitted.

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

The candidates in possession of a foreign qualification obtained in European countries must attach to the application form:

- certificate(s) of the qualification(s) with an attached translation, in Italian or English, declared compliant with the text by the competent diplomatic or consular representatives abroad.

The 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) with an attached translation, in Italian or English, declared compliant with the text by the competent diplomatic or consular representatives abroad;
- “*Dichiarazione di valore in loco*” issued by the competent diplomatic or consular offices abroad, certifying the duration of the degree course together with the list of exams taken with the relative marks and the academic value of the degree in the country that issued it.

The candidates in possession of a qualification obtained abroad, who do not produce the documentation requested at the time of enrollment, will be enrolled with reserve and **will be excluded** from the PhD course, if they do not submit this documentation within six months of the beginning of the PhD course and/or subsequent verification, if the product title does not comply with the requirements of this announcement.

NON-European citizens must also submit a copy of a valid residence permit **within the subsequent 10 days** from the start of the PhD activities.

At the time of enrollment, the PhD student beneficiary of a scholarship **must** express his/her consent to the acquisition of the ISEE by the University. Otherwise, he/she will be placed in the maximum income bracket.

At the beginning of each year of the PhD course subsequent to the first one, the PhD student, admitted to the attendance of the following year, must renew the enrollment, within the terms indicated by the Administration, using the appropriate procedure available at <https://unime.esse3.cineca.it>.

The enrollments made after the deadline will be subject to a penalty payment, the amount of which will be determined by the competent academic bodies.

For the academic year 2019/2020, with the resolutions of the Board of Directors and the Academic Senate of 27<sup>th</sup> June 2019, the contribution requirements for enrollment in the PhD courses were established.

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

## Art. 8

### Scrolling list and take over

In the case of forfeiture or waiver by the winners, explicit or tacit, it is possible to proceed with the scrolling of the ranking list among the positively selected candidates, within three months from the date of the beginning of the PhD course.

To the suitable candidate, usefully placed in the ranking list, will be sent by e-mail, the communication of scrolling.

Within **the peremptory term of three days** from the communication, the candidate must express explicitly and unequivocally his/her consent to the scrolling of the ranking list in his/her favor, by communication to be sent to the University by e-mail.

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

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



## ART. 9 PhD taxes and contributions

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

The admitted candidates, not beneficiaries of scholarship, are exempt from paying taxes and contributions to the University.

The admitted candidates, beneficiaries of scholarship, 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 determined, according to the income classes quantified following the presentation of the "ISEE Dottorato" certificate.

At the time of enrollment, 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 maximum income bracket.

The request to issue "ISEE Dottorato" certificate must be made at the CAF or other responsible subjects, preferably before enrollment/inscription to the following years and, in any case, by 31<sup>st</sup> December. In the case of application forms for the release of "ISEE Dottorato" certificate issued after that date, the PhD student will be required to pay a revision fee of € 100,00.

The amount of the all-inclusive annual contribution is quantified following the acquisition of "ISEE Dottorato" through the INPS Application Cooperation system, and must be paid, in the manner prescribed by the PagoPA® system, respecting the following deadlines (according to the option formulated by the PhD student during the enrollment/inscription to the following years process):

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

The penalty payment for the delay of the individual deadlines is € 28,00.

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

## Art. 10 Incompatibility

The admitted ones to the PhD courses and already enrolled in other courses, incompatible according to the article 19 of the University Regulations, they are required to request the temporary suspension of their career, at the time of enrollment in the PhD course.

Students enrolled in specialization schools are also required to request temporary suspension, except in the cases referred to in the following paragraph.

The joint attendance of the PhD course and a Medical Specialization course is allowed, with a consequent reduction to a minimum of two years of the PhD course, in accordance with the following general criteria:

- a) the trainee must be the winner of a competition for admission to the PhD course at the same University or consortium in which he/she attends the School of Specialization;
- b) the joint attendance, organized during the last year of the School of Specialization, must be compatible with the activity and commitment provided by the School, subject to authorization issued by the School Council itself;

c) the Academic PhD Board has the possibility to accept the request for reduction following the evaluation of the research activities already carried out during the Medical Specialization and certified by the Council of the School of Specialization;

d) during the year of joint attendance, the trainee cannot receive the PhD scholarship.

The Academic PhD Board and the Council of the School of Medical Specialization agree on how to conduct the joint attendance.

## Art. 11 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 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's 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 assignation.

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.

The positions with scholarships referred to in this announcement may be increased and/or financed - in any case within three months from the beginning of the doctorate courses - following further funds available, 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 alls for 2014-2020 RI National Operational Programs, Regional Operational Programs, European Social Fund, or other Community, National and Regional Programs and/or International Projects.
- from any additional scholarships in favor of “children and orphans of persons enrolled in the unitary management of credits and social benefits and of retired users of public employees” of INPS on date 11th June 2019;

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

## Art. 12

### Positions and Higher-Level Apprenticeship contracts

The individual PhD course statements indicate the number of positions aimed at for the Higher Education and Research Apprenticeship contracts, potentially activated by the companies, following specific agreements stipulated with the University.

The candidates interested in activating the apprenticeship contract, **no older than 29 years**, must provide, at the time of submitting the application for participation, an explicit expression of interest in the possible stipulation of an apprenticeship contract and an explicit consent to processing and communication of personal data to the companies.

## 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 granting 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

### The person in charge of administrative procedure

The person in charge of administrative procedure is Dr. Angelina Venezia, Administrative Coordinator Unit of PhD courses, 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](mailto:dottorati@unime.it)).

## Art. 16

### Final norms

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.

The presentation of the application form through the online procedure, as stated in the article 3, implies the acceptance by the candidate of all the regulations in this Public announcement and in the aforementioned Regulations.

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

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

THE RECTOR  
Prof. Salvatore Cuzzocrea



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

ATTACHMENT No. 1

PhD course in                    **Bioengineering Applied to Medical Sciences**

Coordinator                    Professor **Michele Gaeta**  
e-mail: [mgaeta@unime.it](mailto:mgaeta@unime.it)

Positions with scholarship    **3 UNIME**  
   **1 Società Micerium Lab**

Positions without scholarship        **1**

Required degree

LM-9 *Master's degree in Medical, veterinary and pharmaceutical Biotechnologies*  
LM-17 *Master's degree in Physics*  
LM-18 *Master's degree in Computer Science*  
LM-21 *Master's degree in Biomedical Engineering*  
LM-29 *Master's degree in Electronic Engineering*  
LM-32 *Master's degree in Computer Engineering*  
LM-33 *Master's degree in Mechanical Engineering*  
LM-41 *Master's degree in Medicine and Surgery*  
LM-46 *Master's degree in Dentistry and dental prosthesis*  
LM-53 *Master's degree in Science and Material Engineering*  
LM-54 *Master's degree in Chemical Sciences*

Requirements for foreign students

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with the 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

The PhD course is made up of professors belonging mainly to two “*aree CUN*”, 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

<b>Linguistics</b>	Some lessons and seminars will be held in English language.
<b>Information Technology</b>	PhD students will have access to IT workstations connected to the University network.
<b>Research management, knowledge of</b>	PhD students will be involved both in the planning <i>of full</i>

<b>research systems and financing systems</b>	<i>grant proposal</i> and in the experimental design, in order to make them autonomous in leading a project and in the search of future funding.
<b>Exploitation of research results and intellectual property</b>	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 be attached

**Obligatory documentation to attach to application form 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 required qualification:**

- self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued qualification, type of degree, denomination of degree course, data of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also use self-certification:

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

The candidates, European and NON European citizens, who are in possession of foreign qualification/s obtained in a NON European Union countries must attach a copy of the certificate/s of academic qualifications obtained (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 mark, the name of the University who issued the qualification, the date of the graduation and the final examination, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, after a verification, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- master's or specialist or old system degree thesis;

**for candidates not yet in possession of 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 courses attended with individual results and indication of CFU earned;

**Additional qualifications to be attached to the application form:**

- publications;
- work 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, degree mark);
- any publications;
- any professional experience and other qualifications held by the candidate;
- *curriculum vitae*.

### 2. Project

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

The oral exam, subject to a justified request, can be electronically supported by appropriate and specific software.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 candidate> participation PhD contribution in "BIOENGINEERING APPLIED TO MEDICAL SCIENCES".**

**The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.**

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





# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO THE PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 2

PhD course in **Applied Biology and Experimental Medicine**

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

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

Coordinator Professor **Maria Assunta Lo Gullo**  
e-mail: [mlogullo@unime.it](mailto:mlogullo@unime.it)

Positions with scholarship **6 UNIME**

Position without scholarship **2**

Required degrees LM-6 *Master's degree in Biology*  
LM-9 *Master's degree in Medical, veterinary and pharmaceutical Biotechnologies*  
LM-13 *Master's degree in Pharmacy and industrial pharmacy*  
LM-60 *Master's degree in Natural Sciences*  
6/S *(master's degrees in Biology)*  
9/S *(master's degrees in medical, veterinary and pharmaceutical biotechnologies)*  
14/S *(master's degrees in pharmacy and industrial pharmacy)*  
68/S *(master's degrees in natural sciences)*  
*Master's degree in Pharmaceutical Chemistry and Technology*

### Requirements for foreign students

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.

### Description and objectives of the course

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 both academic area and in public and private institutions. Among the priority objectives of the PhD course are considered essential 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 a 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 several forms of collaboration with Italian and foreign research organizations in order to propose periods of study and research 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 defence and protection of environmental resources, through employability in private companies that deal with issues related to basic research in Biotechnology, 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 the training activities

<b>Linguistics</b>	Some lectures and seminars will be held in English.
<b>Information Technology</b>	PhD students have access to IT workstations connected to the University network.
<b>Research management, knowledge of research systems and funding systems</b>	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
<b>Exploitation of research</b>	All research activities will be published in international

<b>results and intellectual property</b>	journals with impact factor and presented by the PhD students at national and international conferences
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### Documents to attach

#### **Obligatory documentation to be attached to the application form 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);

#### **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 evaluation, list of examinations with the relevant marks and indication of CFU (credits) acquired when required;

Can also be used self-certifications:

- European Union citizens,
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certified and 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 a copy of the certificate/s of academic qualifications obtained (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 evaluation, 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 verification, 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.

- the master's, specialist or old system thesis;

#### **For candidates not yet in possession of the required qualification (undergraduates):**

- Self-certification, provided with date and signature, indicating for the required qualification: the University where students are enrolled, type of degree, denomination of the degree course, list of the examinations taken with relevant marks and indication of CFU (credits);

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

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

## Evaluation criteria for qualifications and examinations

### 1. Title

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

Suitable titles are:

- master's degree, specialist, old system thesis;
- university career (exams, final evaluation)
- any publications
- any work experiences and other qualifications in possession of the candidate;
- *curriculum vitae*.

### 2. Project

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

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

### Examination: oral exam

The maximum score to the oral examination will be 60/100 points, with a minimum score to be passed of 42/100.

It consists of an interview in order to ascertain the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview also aims to verify the knowledge's of the candidates on topics related to training and methodological guidelines for the PhD course and includes the formal presentation of the proposed research project. During the oral exam will be a test of knowledge of the **English language**. The oral exam, on reasoned request, will be supported electronically by means of suitable and specific software.

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

The payment of the obligatory fee for the competition equal to € 50,00 (fifty) must be made through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates resident abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the bank account IBAN: IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 to the attention of University of Messina specifying the reason for payment as indicated below <surname and name of the candidate> participation PhD contribution in "APPLIED BIOLOGY AND EXPERIMENTAL MEDICINE".**

**The candidates from the developing countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.**

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



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO THE PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 3

### PhD Course in

**Economics, Management and Statistics**

### Curricula

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

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

### Coordinator

Professor **Edoardo Otranto**  
e-mail: [eotranto@unime.it](mailto:eotranto@unime.it)

### Positions with scholarship

**4 UNIME**  
**3 UNICT**

### Positions without scholarship

**1**

### Required 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 the commission for the access. 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 whom have 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 access commission, only for the access to the PhD course.

### Description and objectives of the PhD course

The PhD course offers a competitive international training and research path. The objective is to create a stimulating environment for highly motivated students and in possession of an adequate potential to undertake subsequent research activities both in academic field and in national and international research institutions.

Objectives include:

- a) Attracting Italian and foreign students motivated to carry out advanced research activities.
- b) Providing adequate theoretical and empirical skills in order to carry out research activities of high qualitative profile from an international point of view.
- c) Developing the capability to conduct research activities individually and/or within international research groups.

### **Notes**

It is planned:

1. For PhD students of all *curricula* courses of Introductory Statistics and Introductory Mathematics
2. For each *curriculum* five so-called “core” courses during the first year, which will provide the necessary knowledge to conduct research in the fields of economics, management and statistics.

The passage to the second year is subject to the acquisition of abovementioned knowledge, verified through written or oral exams (or elaborated on specific topics).

3. During the second and the third year, seminars based on specific topics, which reflect the PhD students’ research interests.
4. Seminar cycles.
5. Summer and winter school with the participation of internationally renowned scholars. With these schools the PhD course intends to deepen some topics of interest for the activities of PhD students.
6. Research stays in Italy and/or abroad for a maximum total duration of 18 months for each PhD student.

### Expected career and professional opportunities

Research doctors in Economics, Management and Statistics find employment both in private and public sectors.

A natural possible career is in University as well as in private research institutions. The international slant of the PhD (entirely in English language) will allow future PhD graduates to address their career both in Italy and abroad.

The activation of Summer and Winter Schools, as well as the considerable incentives for spending research periods in Universities and International Research Centers, will allow PhD students to establish important scientific interactions useful to their professional integration in Italy and abroad.

A second possible future career is in the private field. Nowadays, it exists in enterprises the need to take on professional figures able to understand and develop financial, management and decisional processes that can allow enterprises to compete effectively on the globalized market.

A third possible future career regards international bodies such as, for example, the European Union, ONU, FMI and the World Bank. The PhD in Economics, Management and Statistics graduates hold the necessary expertise to analyze the complex economic and statistical phenomena that are considered by such entities.

Description of the training activity

<p><b>Linguistics</b></p>	<p>Lectures and seminars will be held in English. In addition, PhD students are required to prepare their final thesis in English. The knowledge of the English language of PhD students will be verified during the admission exam.</p>
<p><b>Information Technology</b></p>	<p>The PhD program involves the use of computer labs and econometric software, data processing and calculations for the drafting of both empirical and theoretical articles. In this regard, further courses will be prepared for learning software such as STATA, GRET. The computer labs will also be used for frontal teaching activities.</p>
<p><b>Research management knowledge of research and of the funding systems</b></p>	<p>Stages on topics and procedures concerning grants coming from the European Research Council or other funding sources such as international philanthropic foundations and other public and private entities will be arranged.</p>
<p><b>Exploitation of research results and intellectual property</b></p>	<p>The PhD course encourages the participation of students to congress and seminars for the dissemination of their research results. Furthermore, PhD students will be invited to submit their scientific works to both national and international specialized journals.</p>

Documents to be attached:

**Obligatory documentation to attach to the application form in pdf format:**

- a valid and scanned copy of an identification card with photo;
- *curriculum vitae*;
- a research project drawn up by the candidate, of a maximum of 1000 words on the topic on which he/she intends to focus during the PhD course (which does not constitute a constraint on the subsequent assignation of PhD thesis). 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;

**For candidates already in possession of the required qualification:**

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

Can also use self-certifications:

- European Union citizens;
- citizens of NON-European Union Countries with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable or attesting by Italian public bodies (in particular: degree obtained at an Italian university).

The candidates, European citizens and NON-European citizens, who are in possession of foreign qualification/s obtained in NON-European countries must attach a copy of certificate/s of academic qualifications obtained (Bachelor's and Master's degree) from which are deduced the duration of degree course, the list of examinations taken with the relevant marks, the name of University that issued the qualification, the date of graduation and the final evaluation, with the relevant translation in 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 the PhD course if, after a verification, 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, specialist or old system degree thesis;

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

- self-certification, provided with date and signature, indicating for the required qualification: the University where students are enrolled, denomination of the degree course, the list of examinations taken with relative marks and indication of CFU (credits) earned;

**Additional qualifications to be attached to the application form:**

- two recommendation letters;
- any publications;
- other qualifications in possession of the candidate;

**Evaluation criteria for qualifications and examinations**

**1. Titles**

The maximum score attributable to titles is 20/100 points.

Suitable titles are:

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



## **2. Research project**

The maximum score attributable to project is 10/100 points.

The research project drawn up by the candidate on specific topics concerning the PhD course does not constitute a constraint on the successive assignation of the PhD thesis;

## **3. Oral exam**

The maximum score attributable to oral exam is 70/100 points, with a minimum score to be passed by of 42/100.

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

The oral exam, for those who are resident in areas over 300 km from the administrative office, may be supported electronically by suitable and specific software.

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

The payment of the obligatory fee for the competition equal to € 50,00 (fifty) must be made through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for the candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the bank account IBAN: IT 16W 02008 16511 000300029177 CODICE BIC SWIFT UNCRITM1K66 to the attention of University of Messina, specifying in the reason of 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 mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.**

*The bank transfer receipt must be carefully kept by the candidate and shown if requested.*



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 4

<u>PhD course in</u>	<b>Physics</b>
<u>Coordinator</u>	Professor <b>Vincenza Crupi</b> e-mail: <a href="mailto:vcrupi@unime.it">vcrupi@unime.it</a>
<u>Positions with scholarship</u>	<b>5 UNIME</b>
<u>Positions without scholarship</u>	<b>1</b>
<u>Required degree</u>	LM-17 <i>Physics</i> LM-53 <i>Sciences and material engineering</i> LM-79 <i>Geophysical Sciences</i> 20/S ( <i>master's degrees in physics</i> ) 61/S ( <i>master's degrees in sciences and material engineering</i> ) 85/S ( <i>master's degrees in geophysical sciences</i> )

### Requirements for foreign students

Degrees equivalent to master degree, specialist or old-system degree in the following macro-sectors:

AREA 02 - PHYSICAL SCIENCES

AREA 04 - EARTH SCIENCES

The suitability of the foreign degree will be determined by the PhD examination Committee, in accordance with current legislation in Italy and in the country where it was issued and treaties or international agreements on the recognition of further education qualifications

### Description and objectives of PhD course

The objectives of PhD course in Physics are mainly aimed at the need to provide PhD students with necessary tools for the development of PhD thesis, according to high quality standards and concerning the research topics held at the Department of Mathematics and Computer Science, Physical Sciences and Earth Science. It also intends to encourage PhD students to develop an

independent scientific research capacity, in order to acquire an advanced vocational training for a desirable high level inclusion in the productive and/or training processes of the country. The PhD activities are focused on training professional figures able to develop independently or in groups, basic and applied research with the following purposes:

- Advanced knowledge in the field of the structure of matter with regard to theoretical, computational and experimental aspects.
- Characterization of materials and surface analysis.
- Advanced knowledge in the field of nuclear physics, with regard to theoretical and experimental aspects, studies of nuclear and sub-nuclear particles, plasma physics, laser-matter interaction, accelerators and detection systems.
- Physics applied to the environment, cultural heritage, medical physics and geophysics, spectroscopic techniques, in situ analysis, modeling, and regulatory risks.
- Synthesis, diagnostics and modeling of the behavior of nanomaterials, quantum optics and non-linear phenomena in micro- and nano-structures.

Expected careers and professional opportunities

The PhD course in Physics trains professionals able to undertake scientific careers at national Universities and Research Institutes (CNR, INFN, ENEA, ENI, INGV), as well as in the private sector of electronic components, IT, telecommunications, economics, finance, research and company development sectors industrial companies. It promotes scientific careers in large international facilities (nuclear reactors and synchrotrons) operating in the field of matter physics, particle physics and nuclei, in international solid state applied laboratories, laser physics and plasma physics.

Moreover, in light of the competences in the field of application provided to PhD students, the PhD course in Physics forms professional figures whose skills can be spent in health facilities that require advanced radioactivity knowledge, imaging techniques, physics applied to medical diagnostics, as well as in the “Soprintendenze” and structures operating in the field of conservation and enhancement of cultural heritage and the protection of environmental assets, in structures operating in the field of atmospheric process control (meteorology and oceanography), including numerical simulation of complex evolutionary processes and evaluation of natural phenomena and anthropogenic risks.

A further employment opportunity concerns the activity of consultancy in matters of safety **and health, due to the recent introduction of the Physical Order.**

Description of training activities

<b>Linguistics</b>	Training activities are planned in English to facilitate the drafting of the final PhD thesis in English and to encourage the numerous international scientific collaborations of the PhD course. Finally, the organization of a "study day" is now consolidated, during which the PhD students are invited to write a document in English on the Annual Report (ISSN 2038-5889) of the PhD in Physics concerning the research activity performed annually.
<b>Information Technology</b>	IT initialization training activities are planned at University of Messina, aimed at providing students with skills in the use of writing languages such as the LATEX system for the preparation of scientific

	texts, in the use of the GRID architecture and parallel computing for the processing of large data sets.
<b>Research management, knowledge of research systems and financing systems</b>	A series of specialized seminars will be held by experts in the sector concerning research management at national and international level, the coordination of groups of researchers and the research methods of national and international funding channels in order to provide students with the right ones ability to draft international financing projects.
<b>Exploitation of research results and intellectual property</b>	Specialized seminars are planned for the exploitation of research results and intellectual property. They will be carried out by teachers involved in national and international research experiences, as well as by teachers and/or officers of the University structures that operate in the field of attracting resources and improving intellectual property.

Documents to be attached

**Obligatory documentation to attach in pdf format:**

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

**for candidates already in possession of admission of required qualification:**

- Self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued the qualification, type of degree, denomination of degree course, date of graduation, final mark, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also use self-certifications:

- European Union citizens;
- NON European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable 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 a copy of the certificate/s of academic qualifications obtained (Bachelor's and Master's degree) from which are deduced the duration of degree course, the list of examinations taken with the relevant marks, the name of University that issued the qualification, the date of the graduation and the final mark, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, after a verification, it appears that qualification does not, therefore, allow the enrollment in the PhD course.

- Master's or specialist or old system degree thesis;

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

- Self-certification, signed and dated, indicating for the qualification: the University where students are enrolled, type of degree, name of the degree course, list of exams taken with relative marks and indication of the CFU earned;

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

- publications;
- work experiences;
- other qualifications in possession of the candidate;
- *curriculum vitae*;

**Evaluation criteria for qualifications and examination**

**1. Title**

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

The evaluable titles are:

- master, specialist or old system degree thesis, coherent with the themes proposed by the PhD course in Physics;
- university career (exams, graduation mark);
- any publications;
- any professional experience and other qualifications held by the candidate;
- *curriculum vitae*.

**2. Exams: written and oral examination**

**Written exam** consists of an examination paper proposed by PhD examination Committee directed to ascertain the preparation, skills and aptitude of candidates for scientific research, in the field of the topics of the PhD course in Physics, of the candidates. The examination paper can be done in Italian or in English language. The maximum score attributable to the written exam will be 40 points, with a minimum assessment, in order for it to be passed, of 24 points.

**Oral exam** consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is designed to verify the candidates' knowledge on topics concerning the training and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project. During the oral exam the knowledge of English will be tested. The maximum score attributable to the oral exam will be 30 points, with a minimum assessment, in order for it to be passed, of 18 points.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 candidate> participation PhD contribution in "PHYSICS"". The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144

*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 ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No.5

PhD course in **Civil, environmental and safety engineering**

Curricula *In the application the candidate must indicate the curriculum of the 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](mailto:gbosurgi@unime.it)

Positions with scholarship **3 UNIME**  
**3 UNIRC**

Positions without scholarship **2**

Positions with apprenticeship contract **1 Cedel – Cooperativa Sociale Educativa Elis C**  
(Curriculum 4. Science and technology, materials, energy and complex systems for distributed computing and networks.)  
Project: Open Connected City, which has the purpose to plan and develop services for citizens in the field of urban mobility and in general of smart city.

Required degrees LM-4 *Master's degree in Architecture and building engineering-architecture*  
LM-4 *Degree in Architecture and building engineering-architecture (five-years)*  
LM-17 *Master's degree in Physics*  
LM-20 *Master's degree in Aerospace and astronautics engineering*  
LM-22 *Master's degree in Chemical Engineering*  
LM-23 *Master's degree in Civil Engineering*  
LM-24 *Master's Engineering of building systems*  
LM-25 *Master's degree in Automation engineering*

LM-26 *Master's degree in Safety Engineering*  
LM-27 *Master's degree in Telecommunications Engineering*  
LM-28 *Master's degree in Electrical Engineering*  
LM-29 *Master's degree in Electronic Engineering*  
LM-30 *Master's degree in Energy and nuclear Engineering*  
LM-31 *Master's degree in Management Engineering*  
LM-32 *Master's degree in Computer Engineering*  
LM-33 *Master's degree in Mechanical Engineering*  
LM-34 *Master's degree in Naval Engineering*  
LM-35 *Master's degree in Engineering for the environment and the territory*  
LM-40 *Master's degree in Mathematics*  
LM-53 *Master's degree in Material science and Engineering*  
LM-54 *Master's degree in Chemical Sciences*  
LM-56 *Master's degree in Economics*  
LM-71 *Master's degree in Sciences and technologies of industrial chemistry*  
LM-72 *Master's degree in Science and technology of navigation*  
27/S (*master's degrees in chemical engineering*)  
28/S (*master's degrees in civil engineering*)  
30/S (*master's degrees in telecommunications engineering*)  
31/S (*master's degrees in electrical engineering*)  
32/S (*master's degrees in electronic engineering*)  
34/S (*master's degrees in management engineering*)  
35/S (*master's degrees in computer engineering*)  
37/S (*master's degrees in naval engineering*)  
38/S (*master's degrees in for the environment and the territory*)  
50/S (*master's degrees in mathematical-physical modeling for engineering*)  
61/S (*master's degrees in material science and engineering*)

### 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 regulations in force 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.

### Description and objectives of PhD course

The PhD course, with an international vocation, in "*Civil, Environmental and Safety Engineering*" represents the natural completion of the study programs offered by the two University partners in agreement. In particular, the training objectives are aimed at advancing knowledge on topics regarding:

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



The training objective is the transfer of knowledge on specific topics of Civil, Environmental and Safety Engineering to train highly specialized figures able to face complex research or applicative themes.

For the interdisciplinary nature of the subjects, the PhD course is organized into training courses, with general and specialized courses, aimed at transferring basic knowledge of each subject area, during the 1<sup>st</sup> year, and the development of specific research topics, the subject of the PhD thesis, during the 2<sup>nd</sup> and 3<sup>rd</sup> year.

The training will be completed by experiences in the laboratories of the Departments of the two University partners in agreement 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*

<p><b>Linguistics</b></p>	<p>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.</p>
<p><b>Information Technology</b></p>	<p>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. Departments, proposing the following software packages, are provided with: AnsysMechanical, Aqua, Mike21, LitPack, Bladed, Abaqus, Adama, Aztec Suite, Comsol, Ensoft, Geomarc, Flac2d, Plaxis 2d&amp;3d, Proshake, HEC-HMS, HEC-RAS, FLO-2D, Microwave.</p>
<p><b>Research management, knowledge of research systems and funding systems</b></p>	<p>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)</p>

<p><b>Exploitation of research results and intellectual property</b></p>	<p>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).</p>
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Documents to be attached

**Obligatory documentation to attach in pdf format:**

- a valid and scanned copy of an identification card 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 required qualification:**

- self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued qualification, type of degree, denomination of degree course, date of graduation, final mark, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also use self-certifications:

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable 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 a copy of the certificate/s of academic qualifications obtained (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 graduation and the final examination, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, after a verification, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- Master' or specialist or old system degree thesis;

**for candidates not yet in possession of 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 courses attended with individual results and indication of CFU earned;

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

- publications,
- professional experiences;
- experiences in research activities;
- Other relevant 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

Suitable titles are:

- master's degree, specialist or old system degree thesis;
- university career (exams, graduation grade);
- any publications;
- any professional experiences;
- any experiences in research activities;
- any titles in possession of 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 evaluation of qualifications and the research project.

### 2. Examination

The examination consists of written and oral tests.

The **written test** is aimed at ascertaining the theoretical, scientific and practical knowledge of the candidate on topics related to the curriculum of the PhD course for which he/she intends to participate. The written test is also aimed at ascertaining the candidate's ability to analyze, develop and describe the main problems concerning the research activities in the topics that characterize the curriculum of the course for which it intends to participate.

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

Failure to exceed the aforementioned minimum threshold in the evaluation of the written test does not allow access to the oral test.

The **oral test** aims to ascertain the preparation, ability, aptitude for scientific research and the motivations of the candidates. The oral test is also aimed at verifying the candidates' knowledge on topics that concern the educational and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project.

During the oral test, for all candidates, the knowledge of the English language will be verified.

The maximum score attributable to the **oral test** will be **35/100** points, with a minimum score to be exceeded by 20/100 points.

For foreign students, with a justified and documented request, can take the oral exam only electronically through appropriate and specific software. The PhD examination Committee will verify the identity of the candidate, after having shown the same identification document attached to the application.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 candidate> participation PhD contribution in "CIVIL, ENVIRONMENTAL AND SAFETY ENGINEERING". The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144**

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



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO THE PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 6

<u>PhD course in</u>	<b>Engineering and Chemistry of Materials and of Constructions</b>
<u>Coordinator</u>	Professor <b>Giovanni Neri</b> e-mail: <a href="mailto:gneri@unime.it">gneri@unime.it</a>
<u>Positions with scholarship</u>	<b>5 UNIME</b> <b>1 CNR – NOXORSOKEM GROUP</b> Project: chrome-free anti-corrosion technological nano systems in the pretreatment of water phase surfaces.
<u>Positions without scholarship</u>	<b>1</b>
<u>Required degrees:</u>	LM-4 <i>Master's degree in Architecture and building engineering-architecture</i> LM-4 <i>Master's degree in Architecture and building engineering-architecture ( five years)</i> LM-13 <i>Master's degree in Pharmacy and industrial pharmacy</i> LM-17 <i>Master's degree in Physics</i> LM-20 <i>Master's degree in Aerospace and astronautics engineering</i> LM-21 <i>Master's degree in Biomedical Engineering</i> LM-22 <i>Master's degree in Chemical Engineering</i> LM-23 <i>Master's degree in Civil Engineering</i> LM-24 <i>Master's degree in Engineering of building systems</i> LM-25 <i>Master's degree in Automation engineering</i> LM-26 <i>Master's degree in Safety Engineering</i> LM-27 <i>Master's degree in Telecommunications Engineering</i> LM-28 <i>Master's degree in Electrical Engineering</i> LM-29 <i>Master's degree in Electronic Engineering</i> LM-30 <i>Master's degree in Energy and nuclear engineering</i> LM-31 <i>Master's degree in Management Engineering</i> LM-32 <i>Master's degree in Computer Engineering</i> LM-33 <i>Master's degree in Mechanical Engineering</i> LM-34 <i>Master's degree in Naval Engineering</i> LM-35 <i>Master's degree in Engineering for the environment and the territory</i> LM-40 <i>Master's degree in Mathematics</i> LM-53 <i>Master's degree in Materials science and engineering</i>

LM-54 *Master's degree in Chemical Sciences*  
LM-71 *Master's degree in Sciences and technologies of industrial chemistry*  
4/S (*master's degrees in architecture and construction engineering*)  
14/S (*master's degrees in pharmacy and industrial pharmacy*)  
20/S (*master's degrees in physics*)  
26/S (*master's degrees in biomedical engineering*)  
27/S (*master's degrees in chemical engineering*)  
28/S (*master's degrees in civil engineering*)  
29/S (*master's degrees in automation engineering*)  
30/S (*master's degrees in telecommunications engineering*)  
31/S (*master's degrees in electrical engineering*)  
32/S (*master's degrees in electronic engineering*)  
33/S (*master's degrees in energy and nuclear engineering*)  
34/S (*master's degrees in management engineering*)  
35/S (*master's degrees in computer engineering*)  
36/S (*master's degrees in mechanical engineering*)  
37/S (*master's degrees in naval engineering*)  
38/S (*master's degrees in engineering for the environment and the territory*)  
45/S (*master's degrees in mathematics*)  
61/S (*master's degrees in materials science and engineering*)  
62/S (*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.

#### Description and objectives of the course

This PhD course represents the evolution of the previous PhD course in "*Engineering and Materials Chemistry*" of the University of Messina, with the purpose to train qualified professionals having technical and methodological skills coherent with the sustainable innovation and competitive requests of the productive system. The objective is pursued through an a training offer covering transversely the strategic fields of engineering and chemistry together with a multi-disciplinary research that leads to innovation and development of new products and processes.

The research areas are concentrated in field of key enabling technologies combining theoretical, scientific and design aspects, in particular:

- a) Advanced materials and technologies for industrial, environmental and energetic fields. Development of advanced materials with best performances and innovative applications. Planning and development of technologies convergent within the energy saving and environmental control.

- b) Advanced experimental methods applied to productive systems and processes. Supporting technologies, such as the characterization and the non-destructive testing, for the development of materials, components and advanced and smart embedded systems.
- c) Numerical modeling of functional devices and structures. Predictive modeling applied to engineering and materials sciences.

Employment and career opportunities provided

The aim of PhD course will be to train high level experts who, thanks to the extensive technical-scientific and methodological knowledge acquired, will be able to personally lead the development of innovation in the productive sectors and in construction.

The professional figure that the PhD course intends to train will have professional skills and abilities able to lead research groups working in the public or private sector, as well as to hold highly professional positions in many productive sectors with high technological level such as manufacturing, processing, mechanical, electronics, energy production and conversion and construction industries. Moreover, the entrepreneurial activity of the PhD students, who have achieved during the research high-level innovation results also through the use of academic spin-offs, will be strongly encouraged.

The professional figures that correspond to the characteristics of the PhD training are those of Production Manager, R&D Manager, Maintenance Manager, Specialist in new materials development, Specialist in structures control.

Description of the training activities

<p><b>Linguistics</b></p>	<p>It is planned to organize language improvement activities in agreement with the other PhD courses of the University. All PhD students will be encouraged to take exams that allow them to obtain internationally recognized certificates.</p> <p>The PhD students will also be able to perform researches and in-depth studies on bibliographic sources in English, to express themselves in international conferences and to write reports and technical-scientific works in English.</p>
<p><b>Information Technology</b></p>	<p>It is planned to organize, in agreement with the other University PhD courses, IT training activities (courses and/or seminars) on operating systems, programming also to objects and advanced/integrated programming languages.</p> <p>PhD students will also have the opportunity to participate in seminars and refresher/training courses organized by companies supplying scientific equipment and computer support to research activities.</p>
<p><b>Research management, knowledge of research systems and funding systems</b></p>	<p>It is planned to organize, in agreement with the other University PhD courses, training activities in the field of research management and knowledge of European and international research systems, also with the participation of external professors (courses and/or seminars) and/or using the present skills within</p>

	the CARECI. PhD students will also be involved in research projects, sharing methodologies, objectives, results and methods of access to funding.
<b>Exploitation of research results and intellectual property</b>	It is planned to organize, in agreement with the other University PhD courses, training activities on the exploitation of research results and intellectual property, also with the participation of external professors (courses and/or seminars). PhD students will be encouraged to enhance the results of their research in the form of presentations in seminars, workshops, both national and international conferences and publication in international journals.

Documents to attach

**Obligatory documentation to be attached to application form in pdf format:**

- a valid and scanned copy of an identification card with photo;
- *curriculum vitae*;
- research project developed 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:**

- Self-certification, with the date and signature, the indication for the required qualification: the Italian University that issued the qualification, the type of degree, the denomination of the degree course, the final evaluation, the list of examinations with the relevant marks and the credits (CFU) acquired where needed;

Can also use self-certification:

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certified by Italian public bodies (in particular: degree obtained at an Italian university).

European Union and NON European Union citizens who are in possession of foreign qualification/s obtained in NON-European Union countries must attach a copy of the certificate/s of academic qualifications obtained (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 graduation and the final mark, 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 admitted conditionally to the selection and will be excluded from the selection and from PhD course if, after a verification, it appears that qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- Master's or specialist or old system degree thesis;

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



- Self-certification, signed and dated, indicating for the qualification: the name of University where the students are enrolled, type of degree, name of the degree course, list of the exams taken with relative marks and indication of CFU (credits) earned;

**Additional titles to attach to the application form if in possession of the candidate:**

- Publications;
- Work experiences,
- Other qualifications in possession of the candidate;

**Evaluation criteria for qualifications and examinations**

**1. Titles**

The maximum score attributable to titles will be 25/100 points

Suitable titles are:

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

**2. Project**

The maximum score attributable to project is 05/100 points.

The research project drawn up by candidate on specific topics of the PhD course does not constitute a constraint on the subsequent assignation of the PhD thesis;

**3. Oral Exam**

The oral exam consists in an interview designed to assess the knowledge, skills, aptitude for scientific research, and the motivations of the candidates.

The interview is designed to test the candidates' knowledge on topics relating to the educational and methodological trends of the PhD course and includes the formal presentation of the proposed research project.

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

Foreign students are required to have a good knowledge of Italian or the English language.

Maximum overall grade for the oral examination is 70/100 points, with a minimum score to be passed of 42/100 points.

Candidates, who have a valid and motivated request, can do the oral examination via video-conference by means of specific software.

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

The payment of the obligatory participation fee of € 50.00 (fifty), must be made, through the PagoPA® system, by the deadline under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selections can be paid by bank transfer on the - account IBAN: IT 16W 02008 16511**

000300029177 SWIFT BIC CODE UNCRITM1K66 name of the University of Messina, specifying the reason for payment as indicated below " <surname and name of candidate> participation PhD contribution in "ENGINEERING AND CHEMISTRY OF MATERIALS AND OF CONSTRUCTIONS".  
The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.

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



## UNIVERSITA' DEGLI STUDI DI MESSINA

### PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO THE RESEARCH DOCTORATE COURSES - 35<sup>th</sup> CYCLE

#### ATTACHMENT No. 7

PhD course in                      **Chemical Sciences**

Curricula

*Two curricula are available. The candidate has to indicate the curriculum he/she is applying for:*

1. Design, synthesis, analysis and properties of functional molecular systems;
2. Pharmaceutical, nutraceutical and food chemistry and chemical technologies.

Coordinator

Professor **Paola Dugo**  
e-mail: [pdugo@unime.it](mailto:pdugo@unime.it)

Positions with scholarship

**5 - UNIME**

**1 – Edmund Mach Foundation (Research project title:  
Compound specific isotopic analysis of premium products)**

**1 - Capua 1880 Srl (Research project title: Characterization of  
citrus products by innovative analytical techniques)**

Positions without scholarship

**2**

Required degrees

Any Master's degree or equivalent title

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.

Description and objectives of the PhD course

The aim of the PhD course in Chemical Sciences is to train competitive professional figures able to work at the top level in industries, academic institutes, and public or private agencies and

companies. The three year course foresees a high standard level both from theoretical and experimental viewpoints. The main training areas offered are mainly the sectors of chemical processes and of innovative materials, advanced chemical methodologies, preparation of pharmaceutical and nutraceutical products, nanotechnologies, energy conversion and information processing, isolation and structural characterization of active principles, analytical and toxicological control of synthetic and natural products, chemical structuring, supramolecular chemistry, equilibrium thermodynamics in solution and the control and prevention of environmental damages.

The research activity mainly encompassed the following Italian SSD (scientific disciplinary fields): CHIM/01, CHIM/02, CHIM/03, CHIM/06, BIO/10, CHIM/08, CHIM/09, CHIM/10, CHIM/12.

#### Employments and career opportunities provided

The PhD course in Chemical Sciences has the purpose to train young researchers with high level skills of organization and autonomous research, in the fields of different chemical disciplines. The The Research Doctor is offered a wide possibility of entering both the public and private labor market: basic and applied research, industrial activities, teaching at high level and consultancy.

#### Description of the training activities

<b>Linguistics</b>	The training course of the PhD includes an improvement of the linguistic skills encouraging also research stays abroad (typically, four months on average for each PhD student) at research laboratories.
<b>Information Technology</b>	The acquisition of IT skills, absolutely necessary for the research activity in the fields of the PhD course, is implicit in the training activities that offers the direct utilization of sophisticated instruments.
<b>Research management, knowledge of research systems and funding systems</b>	The PhD students will be given suitable protocols for the research planning and the development of scientific activity. It will also aim to provide specific information on the management of national and international, public and possibly private research projects.
<b>Exploitation of research results and intellectual property</b>	The PhD students will be encouraged to report on their scientific results during the PhD course, through the presentation of periodic reports to Academic Board. The results will be the subject of presentations during seminars, national and international conferences and printed publications.

#### Documents to attach

#### **Obligatory documentation to be attached to the application form 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:**

- Self-certification, with the date and signature, the indication for the required qualification: the Italian University that issued the qualification, the type of degree, the denomination of the degree course, the degree mark, the list of examinations with the relevant marks and the credits (CFU) acquired where needed;

Can also use self-certification

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certified by Italian public bodies (in particular: degree obtained at an Italian university).

European Union and NON-European Union citizens who are in possession of foreign qualification/s obtained in NON-European Union countries must attach a copy of the certificate/s of academic qualifications obtained (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 graduation and the final mark, 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 admitted conditionally to the selection and will be excluded from the selection and from PhD course if, after a verification, it appears that qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- Master's or specialist or old system degree thesis;

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

- Self-certification, signed and dated, indicating for the qualification: the name of University where the students are enrolled, type of degree, name of the degree course, list of the exams taken with relative marks and indication of CFU (credits) earned;

**Additional titles to attach to the application form if in possession of the candidate**

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

**Evaluation criteria for qualifications and examinations**

**1. Titles**

The maximum score attributable to titles will be 30/100 points

Suitable titles are:

- Master's degree or other similar degree;
- academic career (degree mark);
- any publications;
- any professional experience and other qualifications in possession of the candidate;
- *curriculum vitae*.

## 2. Exams: written and oral tests

The Written exam consists of a composition proposed by the PhD examination Committee to ascertain the preparation, the skills and the aptitudes to scientific research of the candidates. The exam can be written both in Italian and English language.

The maximum score attributable to written test will be 40/100 points, with a minimum score to be passed of 24/100 points.

The oral exam – in Italian or in English, upon candidate request – is an interview aimed to evaluate the preparation, the ability and attitude to scientific research of the candidate, with particular regard to the PhD topics.

During the oral test the level of understanding of the English language (if the oral test is not made in English) will be tested.

**For foreign students the knowledge of Italian or English is requested.**

The maximum score attributable to written test will be 30/100 points, with a minimum score to be passed of 18/100 points.

The oral exam, upon motivated request, can be made on-line, using suitable specific software.

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

The payment of the obligatory participation fee of € 50.00 (fifty), must be made, through the PagoPA® system, by the deadline under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selections can be paid by bank transfer on the - account IBAN: IT 16W 02008 16511 000300029177 SWIFT BIC CODE UNCRITM1K66 name of the University of Messina, specifying the reason for payment as indicated below " <surname and name of candidate> participation PhD contribution in "CHEMICAL SCIENCES".**

**The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.**

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



# UNIVERSITY OF MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 8

### PhD course in

### **Cognitive Sciences**

#### Curricula

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

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

#### PhD Coordinator

Professor **Alessandra Falzone**

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

#### Positions with scholarship

**6 UNIME**

#### Positions without scholarship

**2**

#### Required qualifications

Any Master's Degrees (new and the old academic system)

#### Requirements for foreign students

Knowledge of Italian or English language.

The suitability of the foreign qualification will be determined by the PhD examination Committee, in accordance with the 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 the PhD course

The PhD has been running without interruptions since 28<sup>th</sup> 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, computer science and analysis of georeferenced data are the cornerstones of classical cognitivism. More recently, cognitivism has broadened to include social and territorial sciences and evolutionary sciences, thus producing new disciplines such as biogeography and cultural geography, biopolitics, bioethics, neuroeconomics, 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, which is adopted as the core learning outcome 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”.

*Expected careers and professional opportunities*

Doctors in cognitive sciences get a job both in the field of theoretical and applied research in each of the areas in which cognitive science is 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 to say 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, neuroscience, bioengineering and robotics, just to mention some experiences of sure social recognition, also offer authentic job opportunities in Italy.

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, and the planning of ergonomic artifacts and the georeferenced treatment 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

*Description of the training activities*

<p><b>Linguistics</b></p>	<ul style="list-style-type: none"> <li>- English language workshops at various levels of proficiency, held by 3 native English speaking teachers;</li> <li>- specific training in scientific English and in its use for the online bibliographic databases of SBA (University Library System);</li> <li>- mobility opportunities for stays abroad for research and language improvement;</li> </ul>
<p><b>Information Technology</b></p>	<ul style="list-style-type: none"> <li>- overview on how to use Information Technology as a vehicle for knowledge, starting from relational databases, moving on to knowledge databases, and concluding with systems of ontologies and semantics organization for the web;</li> <li>- Introduction to Python language and its data structure, classes and main methods, an outline of the most relevant modules for cognitive</li> </ul>



	<p>research;</p> <ul style="list-style-type: none"> <li>- Course in statistic analysis for the treatment of georeferenced data;</li> </ul>
<b>Research management, knowledge of research systems and of financing systems</b>	<p>Stage on the contents and procedures for European Research Council Grants, particularly appropriate for the multidisciplinary research ERC SH4 “The Human Mind and its complexity: cognition, psychology, linguistics, philosophy and education”</p>
<b>Exploitation of research results and intellectual property</b>	<p>Ownership for the dissemination of research results:</p> <ol style="list-style-type: none"> <li>1) International Journal CLASSE A: RSL: Italian Journal of Cognitive Sciences (IL MULINO) - ISI WoS Clarivate Analytics, Philosopher's Index, Google Scholar, EBSCO</li> <li>2) International Journal “Mediterranean Journal of Clinical Psychology” (ISI-WEB of Science Clarivate Analytics; Scopus)</li> <li>3) Collana internaz. di monogr. “Perspectives in Pragmatics, Philosophy and Psychology” SPRINGER</li> <li>4) Editore CoRiSco (Coordinamento italiano della ricerca in Scienze Cognitive)</li> </ol>

Documents to be attached:

**Obligatory documentation to attach in pdf format:**

- a valid and scanned copy of an identification card with photo;
- *curriculum vitae*;
- a research project drawn up by the candidate, up to four A4 pages (this project does not constitute a constraint on the subsequent assignation of PhD thesis);

**for candidates already in possession of the required qualification:**

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

Can also use self-certifications:

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable or attesting by Italian public bodies (in particular: degree obtained at an Italian university).

The candidates, European Union and NON-European candidates, who are in possession of foreign qualification/s obtained in NON-European countries must attach a copy of the certificate/s of academic qualifications obtained (Bachelor’s and Master’s degrees) from which are deduced the duration of the degree course, the list of examinations taken with the relevant marks, the name of the University that issued the qualification, the date of graduation and the degree mark, with the relevant translation in Italian or English language, edited by and under the responsibility of the declarant, regularly dated and signed.

These candidates will be admitted conditionally to the selection and will be excluded from the selection and from the 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.

- the master's degree, specialist or old system thesis;

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

- self-certification, provided with date and signature, indicating for the required qualification: the University where students are enrolled, type of degree, denomination of the degree course, list of the examinations taken with relative marks and indication of CFU (credits) earned;

**Additional qualifications to be attached to the application form if in possession of the candidate, congruent with the topics of the PhD course:**

- any publications;
- any work experiences;
- other qualifications in possession of the candidate;

**Evaluation criteria for qualifications and examinations**

**1. Titles**

The maximum score attributable to titles is 20/100 points

Suitable titles are:

- master's degree, specialist or old system thesis;
- university career (exams, final evaluation);
- any publications;
- any work experiences or other qualifications in possession of the candidate;
- *curriculum vitae*.

**2. Research project**

The maximum score attributable to project is 10/100 points.

The research project drawn up by the candidate on specific topics related to the PhD course does not constitute a constraint on the subsequent assignation of the PhD thesis;

**3. Examination: oral exam**

The interview aims to assess candidates' knowledge, skills, aptitude for scientific research, the mastery of cognitive science's specific bibliography and their professional motivation. It is also directed at testing candidates' knowledge in one or more areas of interest of cognitive sciences (language sciences; philosophical sciences; neuropedagogy; neuroscience and mind sciences; information sciences; A.I. and media technologies; social and territorial sciences with a cognitive approach, evolutionary sciences and biopolitics) in particular with regard to the theoretical and/or experimental methods required by the two curricula (1) Language and mind philosophies, psychology and evolutionary sciences; (2) Social, territorial, media and performing arts theories and technologies.

The PhD examination Committee will also assess candidates' general methodological abilities and, in particular, their predisposition for using possible experimental methods relating to the research project submitted by the candidates.

Knowledge of the **English** language will be assessed during the oral test.

**Knowledge of Italian or English is required for foreign students.**

The maximum score attributable to the oral test is 70/100 points, with a minimum score to be passed by of 42/100.

The oral exam, subject to a reasoned request, can be electronically supported by an appropriate and specific software.

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

The payment of the obligatory fee for the competition equal to € 50,00 (fifty) must be made through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for the candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the bank account IBAN: IT 16W 02008 16511 000300029177 CODICE BIC SWIFT UNCRITM1K66 to the attention of Università degli Studi di Messina specifying in the reason of payment as indicated below: "<surname and name of the candidate> participation PhD contribution in "COGNITIVE SCIENCES".**

**The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11th June, 2019 No. 464 – GU of 21st June, 2019 No. 144.**

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



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT No. 9

### PhD course in

### **Legal Sciences**

### Curricula

*In the application form the candidate will have to specify the curriculum and topics 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](mailto:cparrinello@unime.it)

Positions with scholarship    6 UNIME

Positions without scholarship    2

Required degree                    LMG/01 Master's degree classes in Law  
22/S (Specialistiche) Master's degrees in Law  
LMG/01 Master's degree in Law

Requirements for foreign students

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.

Description and objectives of PhD course

The PhD course aims to provide PhD students with a high level specialized and interdisciplinary training, within the reference area. The curricula offer strictly specialized courses, suitable for conferring to PhD students an advanced knowledge in their respective subjects, through a critical formation, attentive also to doctrinal orientations and jurisprudence positions.

This objective requires a multidisciplinary approach that is not limited to the single perspective (private, commercial, constitutional, criminal, international and EU, administrative, philosophical), but which aims to integrate the different views in order to train research doctors culturally ready for further scientific investigations and also equipped to undertake the profession and to take up work in national and supranational institutions.

The focus on the acquisition of a correct legal methodology represents a moment of special cohesiveness between sectors and, at the same time, of valorization of the respective peculiarities. Beyond the content training, therefore, the transmission of a rigorous legal method is envisaged which allows students to identify correct paths for the interpretation and application of the rules.

The PhD training is enriched with linguistic and IT specialization courses, in particular those aimed at enhancing research and intellectual property.

Employment and career opportunity provided

Academic career, forensic activity in all fields and in detail in civil, penal, administrative law; preparation to open competitions for positions as functionary in EU and International bodies and Organizations; access to open competition for judiciary and notarial positions; employment in companies and bodies that operate in specific fields; employment in the public administration and public bodies.

Job opportunities are supported by cooperation agreements signed by University and Professional orders, public administration, international organizations and institutes and companies.

Description of training activities

<b>Linguistics</b>	<p>The PhD course offers to PhD student opportunities for linguistic improvement through a dedicated training activity. The PhD training program provides three (3) linguistic annual credits (18 hours per year of course). In any case, the educational and seminar activities, in which the PhD students are required to participate, may be in English language. The carrying out of research stays abroad contributes to the linguistic improvement of the PhD students.</p>
<b>Information Technology</b>	<p>The IT skills and knowledge of PhD students are refined through the use of databases and the consultation of computerized research sources. The PhD course, in any case, offers to PhD student the opportunity for a IT training through a dedicated training activity equivalent to one (1) annual credit (6 hours of training).</p>
<b>Research management, knowledge of research systems and financing system</b>	<p>The PhD course provides the dissemination of knowledge and skills necessary for the presentation of research projects at national and international level, through a dedicated training that includes three (3) hours of frontal teaching per year (equivalent to 0,5 credits). Research managed through the use of university facilities and libraries, as well as IT tools, consolidates the training provided at the application level.</p>
<b>Exploitation of research results and intellectual property</b>	<p>The activities of exploitation of research results are the subject of a basic training for PhD students who commit them for three (3) hours per year dedicated to the methods of management and dissemination of research products. The results of the research will be enhanced through the publication in important national and international journals and the understanding of the most modern systems for the dissemination of scientific products, with the safeguard of intellectual property.</p>

Documents to be attached

**Obligatory documentation to attach to application form in pdf format:**

- A valid and scanned copy of an identification card with photo;
- 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 required qualification:**

- Self-certification, provided with date and signature, indicating for the required qualification: Italian University that issued the qualification, type of degree, denomination of degree course, date of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also used self-certification:

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

The candidates, European citizens and NON-European citizens, who are in possession of foreign qualification/s obtained in NON-European countries must attach a copy of the certificate/s of qualification/s obtained (Bachelor's and Master's degree) from which are deduced the duration of the degree course, the list of examinations taken with the relevant marks, the University that issued the qualification, the date of the graduation and the final examination, with the 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 they will be excluded from the selection and from PhD course if, after a verification, 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

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

- Self-certification, signed and dated, indicating for the required qualification: the name of University where the students are enrolled, type of degree, the denomination of the degree course, the list of examinations taken with the relative marks and the indication of the CFU earned;

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

- publications;
- work experiences;
- other relevant qualifications in possession of the candidate;
- *curriculum vitae*.

**Evaluation criteria for qualifications and examination**

**1. Titles in pdf format**

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

Suitable titles are:

- Master's degree thesis or other similar degree thesis;
- University career (exams, final evaluation);
- any publications;
- any work experiences and other qualifications in possession of candidate;
- *curriculum vitae*.

## 2. Project in pdf format

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

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

## 3. Exams: written and oral examination

Written exam consists of an exam aims to ascertain the preparation, skills and aptitude of candidates for scientific research, considering the chosen topic and *curriculum*.

The maximum score attributable to the written examination will be 40/100 points, with a minimum rating of with a minimum score to be passed by 24/100 points.

### Oral examination

The oral exam consists of an interview - which can be held in English, French, German or Spanish on request of the candidate - able to ascertain the preparation, skills, aptitude for scientific research and the motivations of the candidates. Furthermore, the interview is aimed at verifying 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 examination, the knowledge of the **English/French/German/Spanish** language chosen by the candidate will be verified, in case the exam is held in Italian language.

The maximum score attributable to the written examination will be 30/100 points, with a minimum rating of with a minimum score to be passed by 18/100 points.

The oral exam, on reasoned request, can be electronically supported by an appropriate and specific software.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selections can be paid by bank transfer on the account IBAN: 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 candidate> participation PhD contribution in "JURIDICAL SCIENCES". The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11th June, 2019 No. 464 – GU of 21st June, 2019 No. 144.**

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





# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO THE PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT N. 10

PhD course in

**Political Sciences**

Coordinator

**Professor Giuseppe Bottaro,**  
e-mail: [gbottaro@unime.it](mailto:gbottaro@unime.it)

Positions with scholarship

**6 UNIME**

Positions without scholarship

**2**

Required degrees

*LMG-01 Class of master's degrees in Jurisprudence*  
*LM-19 Master's degree in Information and Editorial Systems*  
*LM-52 Master's degree in International Relations*  
*LM-62 Master's degree in Political Sciences*  
*LM-63 Master's degree in Public Administration Sciences*  
*LM-78 Master's degree in Philosophical Sciences*  
*LM-84 Master's degree in Historical Sciences*  
*LM-87 Master's degree in Social Service and Social Policies*  
*LM-88 Master's degree in Sociology and Social Research*  
*LM-90 Master's degree in European Studies*  
*LM-92 Master's degree in Theories of Communication*  
*18/S (master's degrees in Theoretical, moral, political and aesthetic philosophy)*  
*22/S (master's degrees in Law)*  
*60/S (master's degrees in International relations)*  
*67/S (master's degrees in Social and institutional communication sciences)*  
*70/S (master's degrees in Political Sciences)*  
*71/S (master's degrees in Public administration sciences)*  
*88/S (master's degrees in Science for development cooperation)*  
*89/S (master's degrees in Sociology)*  
*94/S (master's degrees in Contemporary history)*  
*96/S (master's degrees in the History of philosophy)*  
*99/S (master's degrees in European studies)*  
*101/S (master's degrees in Communication theory)*

### Requirements for foreign students

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

### Description and objectives of the course

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 program 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 Thought; Political Philosophy; History of Political Institutions; Contemporary History; History of International Relations; Public Law; Private Law; Administrative Law; Labor Law; Economic Law; Sociology.

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 course, ultimately, develops a profile of excellence capable of being competitive at national and international level.

### Description of the training activities

<b>Linguistics</b>	During the Ph.D. Course a significant part of lectures and seminars will be held in a foreign language (English, French, Spanish).
<b>Information Technology</b>	PhD students will have access to multimedia classrooms and computerized workstations connected to the University network.
<b>Research management, knowledge of research</b>	The PhD Academic Board will adopt the research management systems most used by the international scientific community.

<b>systems and funding systems</b>	
<b>Exploitation of research results and intellectual property</b>	The research activities will be published in National and International Scientific Journals, also in the A range. Some PhD thesis considered excellent by the Academic Board will be published in the Series of the Department of Political and Legal Sciences.

*Documents to be attached:*

**Obligatory documentation to attach 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 required qualification:**

- self-certification, provided with date and signature, indicating for the required qualification: Italian University that issued the qualification, type of degree, denomination of degree course, date of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also used self-certification:

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

The candidates, EU citizens and NON–EU citizens, who are in possession of foreign qualification/s obtained in NON-EU Countries must attach a copy of the certificate/s of qualification/s obtained (Bachelor’s and Master’s degree) from which are deduced the duration of the degree course, the list of examinations taken with the relevant marks, the University that issued the qualification, the date of the graduation and the final examination, with the 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 they will be excluded from the selection and from PhD course if, after a verification, 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;

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

- Self-certification, signed and dated, indicating for the required qualification: the name of University where the students are enrolled, type of degree, the denomination of the degree course, the list of examinations taken with the relative marks and the indication of the CFU earned;

**Additional titles to be attached to the application if in possession of the candidate:**

- publications;
- work experiences;
- other qualifications in possession by the candidate;

**Evaluation criteria for qualifications and examination**

**1. Titles**

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

Suitable titles are:

- Master's degree thesis or other similar degree thesis;
- academic carrier (for graduates it will be taken into count exclusively the degree grade, for undergraduates the average of the exams);
- eventual publications;
- professional experience and others qualifications. The professional experiences are those that involve research activities consistent with the type of curriculum chosen

**2. Project**

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

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

**3. Exams: oral examination**

**For foreign students, it is necessary the knowledge of Italian language.**

The oral exam consists of an interview able to ascertain the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is aimed at verifying the candidates' knowledge on topics concerning the educational and methodological guidelines of the doctorate and includes the formal presentation of the proposed research project. For foreign students the knowledge of the Italian language is required.

During the oral examination, the knowledge of the English language will be verified.

The maximum score to the oral examination will be 60/100 points, with a minimum rating of with a minimum score to be passed by 42/100 points.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

Only for candidates residing abroad, the payment of the contribution for the participation to selections can be paid by bank transfer on the - account IBAN: 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 candidate> participation PhD contribution in "POLITICAL SCIENCES". The candidates from the developing countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.

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



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

## ATTACHMENT 11

PhD course in **Historical, Archaeological and Philological Sciences**

Curricula *The candidate must indicate in the application the curriculum of the course for which he/she intends to participate:*

- 1. Ancient and Modern Philology;**
- 2. History and Geography from the Middle Ages to the Contemporary Age;**
- 3. Archeology and Ancient History;**

Coordinator Professor **Caterina Malta**  
e-mail: [cmalta@unime.it](mailto:cmalta@unime.it)

Positions with scholarships **7 UNIME**

Positions without scholarship **2**

### Required degrees

- LM-1 *Master's degree in Cultural Anthropology and Ethnology*
- LM-2 *Master's in Archeology*
- LM-5 *Master's degree in Archive and library Science*
- LM-11 *Master's degree in Science for the conservation of cultural heritage*
- LM-14 *Master's degree in Modern Philology*
- LM-15 *Master's degree in Philology, literature and history of antiquity*
- LM-19 *Master's degree in Information and publishing systems*
- LM-39 *Master's degree in Linguistics*
- LM-64 *Master's degree in Religious Sciences*
- LM-80 *Master's degree in Geographical Sciences*
- LM-84 *Master's degree in Historical Sciences*
- LM-14. *Master's degree in Modern Philology (qualification A043)*
- LM-37 *Master's degree in Modern European and American languages and literature (qualification A045)*
- 1/S *(master degrees in cultural anthropology and ethnology)*
- 2/S *(master degrees in archeology)*
- 5/S *(master degrees in archive and library science)*
- 13/S *(master degrees in publishing, multimedia communication and journalism)*
- 15/S *(master degrees in philology and literature of antiquity)*

16/S (*master degrees in modern philology*)  
22/S (*master degrees in law*)  
24/S (*master degrees in computer science for the human sciences*)  
40/S (*master degrees in Italian language and culture*)  
44/S (*master degrees in linguistics*)  
70/S (*master degrees in political sciences*)  
72/S (*master degrees in religious sciences*)  
93/S (*master degrees in ancient history*)  
94/S (*master degrees in contemporary history*)  
97/S (*master degrees in medieval history*)  
98/S (*master degrees in modern history*)  
99/S (*master degrees in European studies*)  
102/S (*master degrees in theory and techniques of standardization and legal information*)  
LMG/01 (*LAW*)

### Requirements for foreign students

- Knowledge of Italian language
- Knowledge of English or French, German, Spanish

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

### Description and objectives of PhD course

The PhD course aims at training scholars for highly qualified specialist research, according to the state-of-the-art methodologies. The educational program is wide and synergetic, thus offering substantial job prospects as well.

– The ANCIENT AND MODERN PHILOLOGY course, which is focused on Old Greek, Latin and Italian languages and literatures, provides strong expertise in linguistics, prosody and meters, paleography, textual criticism and more side-disciplines which are naturally needed by a correct research in the fields of philology, history of Italian (or Greek or Latin) language, literary criticism, within a well-built relationship between Ancient and Modern;

– the HISTORY AND GEOGRAPHY course deals with the period from Middle Ages to present-day, covering Europe history and geography, history of religions and political thought, thus ensuring a competitive training for both research and teaching (major subjects: the territory with its physiognomy and its transformation due to social-cultural dynamics, European historical roots between West and East and in relation to the Mediterranean sea; the impact of political-religious factors on modernity; interculturalism and identity in the narratives of social groups);

– the ARCHAEOLOGY AND ANCIENT HISTORY course aims at training qualified and up-to-date archaeologists and historians who can effectively work as managers or researchers in the whole region of the Mediterranean sea: thanks to the expertise in Greek and Roman archaeology, methodologies of archaeological research, numismatics, Greek and Roman history and epigraphy, they will be able to handle knowledge, preservation and promotion of the local cultural heritage.

### 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 mediation processes. cultural, 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. Matching professional opportunities: University researcher; School teaching in high schools; Conservative of mss. in bibl.; 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

<b>Linguistics</b>	The linguistic training (which can also make use of the specialists in French studies belonging to the Teaching Body) will be strengthened through the numerous connections with foreign scholars, who will also give lectures in their own languages. The Ph.D. course will develop all of the cooperation channels inherited from the former Ph.D. courses now merging with it. During the writing of PhD thesis dissertation a month's stay abroad will be scheduled (libraries or suitable institutions will be eligible): this period can be easily used to attend language courses.
<b>Information Technology</b>	The training will be followed specifically by the computer science teacher present at the college, 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.
<b>Research management, knowledge of research systems and financing systems</b>	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 towards Erasmus + funding opportunities or projects in the VII Progr. Quadro EU (Early Stage/Advanced Researchers).



<b>Exploitation of research results and intellectual property</b>	<p>The cooperation with prestigious institutions - such as CISU (Centro Internazionale di Studi Umanistici), "Istituto di studi storici Salvemini" and the publishing platform of DICAM (from 2016 the biannual open source PhD journal "Peloro" publishes research results parallel to the final thesis of the PhD students, see also "Quaderni di Archeol" and "Humanities", and the series "Pelorias", «Semata e Signa»), inherent in the various research areas of the curricula, it will allow PhD students to disseminate the results of their research with individual signatures in suitable places.</p>
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### Notes

The great extent of the research areas covered by the three curricula implies a wide-ranging set of themes: as a consequence, they will be kept separate, with specialized teachings, but at the same time they will be held together through the recurrent organization of shared lectures, conferences and workshop; for the Archaeological curriculum a period of excavations can also be scheduled). Each course will organize one monthly meeting, where every Ph.D. student will report the progress of his work. At the end of every year a plenary meeting is scheduled, where every Ph.D. student will share the progress of his work. For the preparation of the theses, there will be study stays in Italian and foreign Archives and Libraries, participation in archaeological research and internships in Museums. Monthly meetings will be organized for each curriculum in which the PhD students present their work. Every year there will be a plenary meeting during which each student will present the status of his/her research.

### Documents to be attached

#### **Obligatory documentation to attach to the application form 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 admission of required qualification:**

- self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued qualification, type of degree, denomination of degree course, data of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Delle autocertificazioni possono avvalersi anche:

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

Candidates, European Union and NON-European Union citizens, who are in possession of foreign qualification/s obtained in NON-European Union countries must attach a copy of the certificate/s of academic qualifications (Bachelor's and Master's degree) obtained 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 graduation and the degree

mark, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, after a verification, 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;

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

- Self-certification, signed and dated, indicating for the qualification: the University where students are enrolled, type of degree, name of the degree course, list of exams taken with relative marks and indication of the CFU earned;

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

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

**Evaluation criteria for qualifications and examination**

**1. Titles**

For the evaluation of qualifications, the maximum attributable to the titles will be 20/100 points:

- Master, specialist or old system degree thesis: max 5 points
- University career (for graduates, it will be considered only graduation mark; for undergraduates, it will be considered only examinations): max 6 points
- publications: max 2 points
- Work experiences and other qualifications in possession of the candidate: max 2 points.

Professional experiences are those that involve research activities coherent with the type of curriculum chosen.

\* research project elaborated by the candidate **up to 5 points**, based on originality and relevance to the topics of the PhD course).

**3. Exams: written and oral examination**

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

**Written exam** consists of an examination paper directed to ascertain the preparation, skills and aptitude of candidates for scientific research. Three envelopes will be prepared for the draw, containing ample traces for each curriculum:

- for the "*Ancient and Modern Philology*" Curriculum two examinations will be proposed: one of "*Ancient Philology*" consisting of the translation and the commentary of one of the two selected passages (Latin and Greek) and one of "*Modern Philology*" focused on a theme or a literary passage with philological problems;
- for the "*Archeology and Ancient History*" Curriculum a single examination will be proposed that can be developed both by archaeological candidates and by historical candidates, according to the competences and study guidelines of each one;

– for the "History and Geography from the Middle Ages to the Contemporary Age" Curriculum only one examination will be proposed, that can be developed by all candidates with historical, geographical and anthropological skills, according to the study guidelines of each one. The maximum amount of points assigned to the written examination will be 40/100 points, with a minimum assessment, in order for it to be passed, of 24/100 points.

**Oral exam** consists of an interview aimed at ascertaining the preparation, skills, aptitude for scientific research and the motivations of the candidates. The interview is designed to verify the candidates' knowledge on topics concerning the training and methodological guidelines of the PhD course and includes the formal presentation of the proposed research project (max 30 points).

During the oral exam the knowledge of a foreign language indicated by the candidate in the application will be tested (choice between **English, French, German, Spanish**) (max 10 points).

The maximum amount of points assigned to the oral examination will be 40/100 points, with a minimum assessment, in order for it to be passed, of 24/100 points.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 candidate> participation PhD contribution in "HISTORICAL, ARCHAEOLOGICAL AND PHILOLOGICAL SCIENCES". The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11<sup>th</sup> June, 2019 No. 464 – GU of 21<sup>st</sup> June, 2019 No. 144.**

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



# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

ATTACHMENT No. 12

PhD course in                    **Veterinary Sciences**

Curricula                    *In the application form the candidate has to indicate the curriculum of the PhD course in which he/she intends to participate:*

1. Morpho-Physiology and Applied Biotechnologies;
2. Public Veterinary Health and Food;
3. Clinical Veterinary Sciences.

Coordinator                    Professor **Rosaria Laurà**  
e-mail: [laurar@unime.it](mailto:laurar@unime.it)

Positions with scholarship    **5 UNIME**

Positions without scholarship    **1**

Required degrees

LM-6 *Master's degree in Biology*  
LM-9 *Master's degree in Medical, veterinary and pharmaceutical Biotechnologies)*  
LM-42 *Master's degree in Veterinary Medicine*  
LM-69 *Master's degree in Agricultural Science and Technology*  
LM-70 *Master's degree in Food science and technology*  
LM-86 *Master's degree in Animal husbandry science and technology*  
6/S *(master's degrees in biology)*  
7/S *(master's degrees in agricultural biotechnologies)*  
9/S *(master's degrees in medical, veterinary and pharmaceutical biotechnologies)*  
47/S *(master's degrees in veterinary medicine)*  
77/S *(master's degrees in agricultural sciences and technologies)*  
78/S *(master's degrees in agri-food sciences and technologies)*  
79/S *(master's degrees in agro-zootecnical sciences and technologies)*

### Requirements for foreign students

Master's degrees relevant to PhD program, equivalent and recognized as suitable, according to principle proclaimed by International agreements in the matter.

Knowledge of English language.

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

### Description and objectives of PhD course

The PhD course aims at training PhD students with an integrated cultural background of professional skills basic knowledge of Veterinary Sciences through different experimental activities according to interdisciplinary criteria. They will need to improve their autonomy and problem-solving skills in different practical contexts. The PhD course includes basic training, followed by a progressive ability to plan, organize and complete a specific research program, that results in a PhD thesis related to the training program. The PhD course is divided into 3 Curricula:

- 1) Morpho-Physiology and Applied Biotechnologies: aimed at the field of research in basic and applied veterinary sciences, experimentation on animal models and the application of functional principles aimed at animal production, reproduction, sports activities and therapeutic use of animals.
- 2) Public Veterinary Health and Food Safety: it will train specialized figures in the field of infectious and parasitic diseases, of spontaneous and non-spontaneous pathologies, of animal productions in the field of food inspection of A.O. and food security to support zootechnical companies.
- 3) Clinical Veterinary Sciences: it will train specialized figures in the fields of medical, surgical and obstetrical methodologies, and in the national and EU legislative knowledge applicable to the professional veterinary activity.

### Employment and career opportunities provided

The PhD students will achieve a professional qualification for the free-lance activities, in National Health Service, in public and private industry, in local authorities, in international organizations and in cooperation and research agencies, in facilities related to sport, rehabilitation, productive and reproductive increment. The type of studies, organized on the basis of the EU directives (primary role in the services offered to the community and to the veterinary profession, relations with foreign Universities, projects related to animal welfare, food safety and public veterinary health and development cooperation in third countries) offers employment within the EU.

The developed skills will insure employment and specialized management consulting in:

- livestock farms, agro-zootechnical companies, racecourses, riding schools and rehabilitation facilities, wildlife hunting, aquaculture facilities and accredited animal shelters;
- control of animal health and welfare in breeding farms, recovery structures and research establishments;
- qualitative and quantitative improvement of animal production;
- evaluation of health interventions (medical, surgical, obstetric);
- application of biomedical laboratory techniques and specific biotechnological and functional techniques in the veterinary field;

- management and control of animal productions' quality and safety
- food safety and planning, supervision and quality control of animal origin's products and transformed.

Description of the training activities

<p><b>Linguistics</b></p>	<p>The training activity will be carried out in Italian and English. During the first year of PhD course, there is a specific teaching module of "English language" (level B1) with a focus on scientific English. Through the CLAM, the learning of a second language will be encouraged, preliminary to the stays abroad. PhD student will be asked to improve their communication skills through seminars in English, hospitality by foreign teachers and participation in international conferences.</p>
<p><b>Information Technology</b></p>	<p>PhD students have the possibility to follow courses in database management system and SQL PL/SQL management design and object-oriented programming and Java, to follow a specific module "Biostatistica" and to implement knowledge of the main applicative programs (Windows, Word , Excel, Power Point).</p>
<p><b>Management of research systems' knowledge and of funding systems</b></p>	<p>The training will be implemented in a Career Development Plan (acquisition of scientific skills, development of interconnection skills to intercept national and EU funding sources) and in a specific module on "Scientific planning, network development and fundraising". Involvement in the planning of Full Grant Proposal and in the implementation of experimental projects, in order to make them autonomous in the management of a project and in the search for funding.</p>
<p><b>Exploitation of research results and of intellectual property</b></p>	<p>The PhD student will be the protagonist in the production of scientific articles in scientific journals with ISSN/ISMN/ISSN or indexed WOS or Scopus, as well as in the presentation of communications to national and international conferences. He/She will have the opportunity to take advantage of the training activities offered by the Technology Transfer Office (TTO) of the University of Messina, being able to take advantage of any specific advice and assistance, in order to create new spin-off companies.</p>

Documents to be attached

**Obligatory documentation to attach to the application form in pdf format:**

- a valid and scanned copy of an identification card with photo;
- *curriculum vitae*;
- research project coherent with the interests of the PhD course 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 admission of required qualification:**

- self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued qualification, type of degree, denomination of degree course, data of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also use self-certification:

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable 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 a copy of the certificate/s of academic qualifications (Bachelor's and Master's degree) obtained 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 graduation and the degree mark, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, after a verification, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- Master's or specialist or old system degree thesis;

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

- Self-certification, signed and dated, indicating for the qualification: the University where students are enrolled, type of degree, name of the degree course, list of exams taken with relative marks and indication of the CFU earned;

**Additional qualifications to be attached to the application if in possession of the candidate, congruent with the aims of the PhD course:**

- publications;
- work experiences;
- other relevant qualifications in possession of the candidate;

**Evaluation criteria for qualifications and examination**

**1. Titles**

The maximum attributable to the titles will be 20/100 points.

Suitable titles are:

- Master's degree, specialist or old system-degree thesis;
- University career (exams, graduation grade)
- eventual publications;
- eventual work experiences and other titles in possession of 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 program does not constitute a constraint on the subsequent assignment of the PhD thesis;

## **3. Examination: oral exam**

The interview will ascertain the preparation, skills, ability to scientific research and motivations of the candidates and will be finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and will include the formal presentation of the proposed research project.

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

The maximum score attributable to the oral exam will be 70/100 points, with a minimum score to be passed by 42/100 points.

The oral exam, subject to a reasoned request, can be electronically supported by an appropriate and specific software.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 candidate> participation PhD contribution in "VETERINARY SCIENCES". The candidates from the developing Countries are exempted from the payment of the contribution mentioned above as defined in Ministerial Decree of 11th June, 2019 No. 464 – GU of 21st June, 2019 No. 144.**

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





# UNIVERSITA' DEGLI STUDI DI MESSINA

PUBLIC COMPETITION, BY QUALIFICATIONS AND EXAMINATIONS, FOR ADMISSION TO PHD COURSES – 35<sup>TH</sup> CYCLE

ATTACHMENT No. 13

PHD in            **Translational Molecular Medicine and Surgery**

Coordinator            **Professor Gaetano Caramori**  
e-mail: [gcaramori@unime.it](mailto:gcaramori@unime.it)

Positions with scholarship    **8 UNIME**

**1 Project PRIN 2017**

Title: Antagonizing miRNA targeting the Wnt pathway to treat primary and secondary osteoporosis. –

Acronym: OSTEO-MIRNA

code 20178THBKP\_001 Code CUP: J44I19000570006

**1 Project PRIN 2017**

Title: Inflammation: cause, consequence and therapeutic target in heart failure and related multi-organ dysfunction

Acronym: WNT-HF

code 2017NKB2N4\_001 Code CUP: J44I19000600006

Positions without scholarship            **2**

Required degrees

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*)

Requirements for foreign students

Master's degrees relevant to PhD program, equivalent and recognized as suitable, according to principle proclaimed by International agreements in the matter.

Knowledge of English language.

The suitability of foreign qualification will be validated by PhD examination Committee, in compliance with the regulations in force in Italy, in the country where the qualification was issued

and in accordance with International agreements or treaties concerning the recognition of qualifications for the continuation of studies.

### Description and objectives of PhD course

The training objectives of PhD course are:

- to provide a qualified training on current international research topics in the fields of Biotechnology and Medical-Surgical Sciences and in the interdisciplinary areas connected to them;
- to complete a solid theoretical-conceptual preparation with full mastery of research methodologies and quantitative and qualitative techniques, most updated on translational molecular in Medicine and Surgery in order to be use to accelerate the passage of current knowledge of basic research in the diagnosis and/or treatment of human diseases to improve the quality of life of people temporarily or chronically disabled.
- to provide PhD students with an easily spendable training in the fields of research and production systems. To this end, the course is carried out in collaboration with Italian and foreign research Institutes and with Companies operating in the biomedical field.

### Expected career and professional opportunities

PhD course aims to train researchers able to pursue scientific career in Italian and foreign University, in higher education Institutions, Research Institutes and National Laboratories (CNR, etc.) and international ones with a particular projection in Europe. Employment at managerial level in industry in biomedical sectors. Teaching in upper secondary schools. Scientific career in large research facilities.

The course also aims to provide the student with:

- a) disciplinary and interdisciplinary training;
- b) linguistic specialization in English and other foreign languages possibly defined by Academic Board;
- c) IT specialization;
- d) training in research management in the knowledge of European and international research systems and in the exploitation of research results and intellectual property,

### Description of training activities

<b>Linguistics</b>	Some lessons and seminars will be in English, just as PhD students will be encouraged to write their works in scientific English. Furthermore, it will be possible to take part in international seminars.
<b>Information Technology</b>	PhD students will have PC workstations at their disposal, connected to University network. They will be followed by respective tutors to use specific useful software in research activities (ex. Graph Prism).
<b>Research management, knowledge of research systems and financing systems</b>	PhD students will be involved both in the planning of <i>full grant proposals</i> and in the experimental design in order to make them autonomous in running a project and searching for future funding.

<p><b>Exploitation of research results and intellectual property</b></p>	<p>All research activities will be published in international journals with an impact factor and presented by the same PhD students at national and/or international conventions. In addition, PhD students will be able to use the services of the university's administrative structures for technology transfer, in order to activate procedures for the protection of intellectual property.</p>
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Documents to be attached

**Obligatory documentation to attach in pdf format:**

- A valid and scanned copy of an identification card with photo;
- *curriculum vitae*;
- research project coherent with the interests of the PhD course 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 admission of required qualification:**

- self-certification, provided with data and signature, indicating for the required qualification: Italian University that issued qualification, type of degree, denomination of degree course, data of graduation, final evaluation, the list of examinations with the relevant marks and indication of CFU acquired where required;

Can also use self-certification:

- European Union citizens;
- NON-European Union citizens with residency permit in Italy, regarding only the *status*, personal qualities and facts certifiable or attesting by Italian public bodies (in particular: degree obtained at an Italian university).

European Union and NON-European Union citizens who are in possession of foreign qualification/s obtained in NON-European Union country must attach a copy of the certificate/s of academic qualifications obtained (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 who issued the qualification, the date of the graduation and the final examination, 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 admitted conditionally to the selection and will be excluded from the selection and from the PhD course if, following verification, it appears that the qualification does not comply with the requirements of this announcement and it does not, therefore, allow enrollment in the PhD course.

- Master's or specialist or old system degree thesis;

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

- Self-certification, signed and dated, indicating for the qualification: the University where students are enrolled, type of degree, name of the degree course, list of exams taken with relative marks and indication of the CFU earned;

**Additional qualifications to be attached to the application if in possession of the candidate, congruent with the aims of the PhD course:**

- publications;
- work experiences;
- other relevant qualifications in possession of the candidate;

### **Evaluation criteria for qualifications and examination**

#### **1. Titles**

For the evaluation of qualifications, the maximum attributable to the titles will be 20/100 points..

Suitable titles are:

- Master's degree, specialist or old system-degree thesis;
- university career (exams, graduation grade);
- any publications;
- any work experiences and other titles in possession of the candidate;
- *curriculum vitae*.

#### **2. 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 program does not constitute a constraint on the subsequent assignment of the PhD thesis;

#### **2. Examination: oral test**

The interview will ascertain the preparation, skills, ability to scientific research and motivations of the candidates and will be finalized to verify the candidates' knowledge on topics concerning the educational and methodological guidelines of the PhD course and will include the formal presentation of the proposed research project.

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

The maximum score attributable to the oral exam will be 70/100 points, with a minimum score to be passed by 42/100 points.

The oral exam, subject to a reasoned request, can be electronically supported by an appropriate and specific software.

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

The payment of the obligatory participation fee for the competition equal to €50,00 (fifty), must be made, through the PagoPA® system, within the notice deadline, under penalty of exclusion from the admission test.

**Only for candidates residing abroad, the payment of the contribution for the participation to selection can be paid by bank transfer on the - account IBAN: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 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 of 11<sup>th</sup> June 2019- G.U.n.144 dated of 21<sup>st</sup> June 2019.

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