

**Rector's Decree**

Call for public selection for admission to PhD courses - XL cycle - AY 2024/2025

The Rector

HAVING REGARD TO the Statute of Autonomy;

HAVING REGARD TO the University General Regulations;

HAVING REGARD TO the University Teaching Regulations;

HAVING REGARD TO the Administration and Accounting Regulations;

HAVING REGARD TO the University Regulations regarding Research Doctorates;

HAVING REGARD TO the University Code of Ethics and Code of Conduct;

HAVING REGARD TO the Law no° 476 of 13 August 1984;

HAVING REGARD TO the Law no° 240 of 30 December 2010, in particular art. 19;

HAVING REGARD TO the Ministerial Decree no° 226 of 14 December 2021;

HAVING REGARD TO the Law no° 104 of 5 February 1992, as integrated and modified by Law no° 17 of 28 January 1999;

HAVING REGARD TO the Decree of the President of the Republic no° 445 of 28 December 2000;

HAVING REGARD TO the Prime Ministerial Decree of 9 April 2001 "Uniform treatment of the right to university studies, pursuant to art. 4 of Law no° 390 of 2 December 1991";

HAVING REGARD TO the Law no° 148 of 11 July 2002;

HAVING REGARD TO the Legislative Decree no° 196 of 30 June 2003;

HAVING REGARD TO the Ministerial Decree no° 270 of 22 October 2004;

HAVING REGARD TO the General Data Protection Regulation (GDPR) - Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data, as well as on the free movement of such data;

HAVING REGARD TO the Ministerial Decree no° 247 of 23 February 2022 which provided for the increase in the gross annual amount of the PhD fellowship;

HAVING REGARD TO the Rectoral Decree no° 374 of 1 March 2022 with which the "Fees, contributions and exemptions Regulation" was issued, updated for the academic year 2024/2025, with its own decree no° 179 of 4 March 2024 and any subsequent amendments;

HAVING REGARD TO Ministerial Decree no° 440 of 13 February 2024 containing the list of particularly poor countries for the academic year 2023/2024;

HAVING REGARD TO the provisions of Ministry of University and Research (MUR) regarding Procedures for the entry, residence and enrollment of international students and the related recognition of qualifications, for higher education courses in Italy valid for the academic year 2024-2025, available on the page: <https://www.university.it/studenti-stranieri>;



HAVING REGARD TO the Law no° 33 of 12 April 2022 containing "Provisions regarding simultaneous enrollment in two higher education courses";

HAVING REGARD TO the note from the MUR prot. no° 8614 of 2 May 2024 relating to the "Operating instructions for the accreditation procedure of doctoral courses for the XL cycle";

HAVING REGARD TO the "Guidelines for the accreditation of research doctorates pursuant to article 4, paragraph 3, of the regulation referred to in Ministerial Decree 14 December 2021, no° 226" issued with Ministerial Decree no° 301 of 22 March 2022;

HAVING REGARD TO the resolutions of the relevant Departments of the University's PhD courses, relating to the approval of the renewal of the courses for the AY 2024/2025 - XL cycle;

HAVING REGARD TO the resolutions of the Academic Senate and the Board of Directors, sitting on 21 and 28 May 2024 respectively, relating to the PhD courses for the XL cycle;

HAVING REGARD TO the resolution of the Board of Directors, meeting of 31 October 2023, with which the request of the Coordinator of the PhD course in Translational Medicine for the recovery of no° 2 years of university fellowship made available following renunciation, with the co-financing of the missing year by the Department of Pharmacy and Health and Nutrition Sciences;

HAVING REGARD TO the letter of commitment from ENEA, countersigned by the University of Calabria, for the financing of an additional PhD fellowship for the XL cycle of the doctoral course in Civil and Industrial Engineering;

HAVING REGARD TO the agreement stipulated for the XXXIX cycle with the University of Artois which provides for the financing of the fellowship by the French university for the XL cycle;

HAVING REGARD TO the determination of the National Cybersecurity Agency (ACN) prot. no° 4830 of 02/15/2024 with which the Agency published the Invitation to express interest for the signing of collaboration agreements pursuant to article 15, law 7 August 1990, no° 241, aimed at creating research doctorate programs in the cybersecurity sector - XL doctoral cycle, published on 15 February 2024 on the Agency's website;

HAVING REGARD TO the determine ACN prot. no° 15909 of 05/20/2024 with which, following the outcome of the aforementioned invitation, 30 admitted and financeable project proposals were selected to which the financing contribution of the doctoral fellowships, XL cycle, in the field of cybersecurity was assigned, including that of the University of Calabria, Project ID 14_MAN_PHD_University of Calabria, Project Name "SOLID: Secure (I) IOT Lifecycle Development";

HAVING REGARD TO the participation of the University of Calabria in the research project "CEreals REsiliency REvolution for agile supply chain management in the Mediterranean - CERERE" (CUP H23C24000170006), through the Department of Mechanical, Energy and Management Engineering (DIMEG), as part of the call European 2023 Section 1 AGROFOOD RIA - PRIMA;

HAVING REGARD TO the participation of the University of Calabria in the European research project Marie Skłodowska-Curie Doctoral Network HORIZON-MSCA-2022-DN-01 "MetacMed - Acoustic and mechanical metamaterials for biomedical and energy harvesting applications", Grant Agreement n° 101119738, www.metacmed.eu;

ASSURED the financial availability relating to fellowships financed on research projects at departmental level and those financed by external bodies;



ASSURED the financial availability relating to fellowships financed by the University of Calabria on the relevant item of the University's single annual budget forecast for 2024;

ASSURED the financial availability within the relevant economic budgets of the Departments involved for the financing of the sum, equal to at least 10% of the cost of the doctoral fellowship, intended to finance the research activities for their doctoral students;

WHEREAS pursuant to Ministerial Decree no° 226/2021, mentioned above, the doctoral courses are activated following accreditation granted by the Ministry following the favorable opinion of ANVUR;

CONSIDERED necessary to provide, pending the conclusion of the aforementioned accreditation renewal procedure, to the issuing of the selection notice for admission to the PhD courses - XL cycle - AY 2024/2025 with administrative headquarters at the University of Calabria;

DECREES

Art. 1 Call for selections

1. The public selection notice for admission is announced at the University of Calabria to the PhD courses for the academic year 2024/2025 - XL cycle and the attribution of no° 55 PhD fellowships and no° 2 MCSA equivalent grants.

The fellowships valid for this selection notice are financed by the University and by external public and private bodies, as specified in Annex A "Analytical Sheets for XL cycle Research Doctorate Courses - AY 2024/2025" which constitutes an integral and substantial part of this announcement.

2. This announcement will be published on the website of the Ministry of University and Research, on the European Euraxess website and on the University of Calabria portal at the link: https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html and has the value of notification in all respects.

3. For each doctoral course, information relating to the Coordinator, the duration, the proposing Department (any other Departments involved), the CUN Areas and the relevant Scientific Disciplinary Sectors, the research topics or curricula of the course, the participation requirements, the admission methods, the qualifications to be attached to the application for participation, the assessment criteria for the tests, the number of places and fellowships with the specification of the financing entities and the research objectives/topics, also in relation to individuals curricula, if applicable, the test diary (agenda), any contact information and the PhD course website, are shown in Attachment A.

4. The activation of positions with fellowships financed by external bodies is subject to the completion of the agreements by the date of completion of the selections.

5. Any changes, updates or additions to the content of the announcement will be made known, exclusively, upon publication on the University of Calabria portal at the link https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html.

Any personal communications to candidates relating to this announcement will take place via ordinary email. For this purpose, the e-mail address indicated by the candidate in the online application is used. The University assumes no responsibility for the dispersion of communications resulting from inaccurate indications of personal contact details by the candidate or from failure or late communication of their change, nor from electronic errors also linked to the candidate's personal email inbox.

6. The submission of the application for participation through the procedure referred to in art. 4 presupposes the candidate's knowledge of the rules contained in this announcement, in the University



Regulations regarding research doctorates and of the regulations relating to the sources of funding for the fellowships.

7. The start of the XL cycle doctoral courses is scheduled for November 1st, 2024.

Art. 2 Admission requirements

1. They can submit an application to participate in the selections for admission to the Research Doctorate Courses referred to in the previous art. 1, without age and citizenship limits, those who hold one of the following qualifications:

- a. Old system degree diploma (ex ante DM 509/1999);
- b. Specialist/Master's Degree (DM 509/1999 and DM 270/2004);
- c. Second level academic qualification issued by institutions belonging to the AFAM sector;
- d. Qualification obtained from legally recognized foreign universities, provided that it is comparable in duration, level and disciplinary field to the Italian qualification that allows access to the course.

To access the selection of some of the doctoral courses, the possession of specific master's/specialist degrees (or equivalent) is required, as indicated in Annex A of this announcement.

2. Those who obtain the qualification required in paragraph 1 by the date of enrollment in the doctoral course can also submit an application to participate in the call for admission. If the candidate is successful, he/she will be admitted "conditionally" and must submit, by the date of enrollment in the doctoral course, via e-mail to dottorati@unical.it, the self-certification relating to the achievement of the qualification with an attached copy of a valid identity document. Failure to obtain the qualification within the indicated deadline will result in exclusion from the merit rankings.

3. Those who:

- have benefited from a PhD fellowship or part thereof in the past;
- have already obtained a research doctorate.

Art. 3 Qualification obtained abroad

1. The suitability of the qualification obtained from foreign universities is ascertained, solely for the purposes of admission to the selection, by the judging commissions in compliance with the legislation in force in Italy and in the country where the qualification was issued, as well as international treaties or agreements regarding the recognition of qualifications for the continuation of studies.

2. In this case, candidates must present, in the manner indicated in article 4 below, the degree certificate, indicating the exams passed and the study plan followed, both first and second level. The candidate can also attach the diploma supplement or the declaration of on-site value or comparability certificate issued by CIMEA or other ENIC-NARIC centers and any other documentation useful for evaluating the admissibility of the qualification held for the chosen course. The aforementioned documents, if they are not drawn up in Italian or English, must, under penalty of exclusion from the selection, be accompanied by a sworn translation into Italian or English. The judging commissions will proceed to evaluate the suitability of the foreign qualification based on the documentation presented and therefore may exclude the candidate even if there are not sufficient elements for the evaluation.

3. Candidates in possession of a foreign qualification are admitted to the selection with reservation, which can be dissolved only when, if successful, they produce the diploma supplement or declaration of value on site or certificate of comparability from CIMEA or other ENIC-NARIC centres, such as provided for by the art. 8.



Art. 4 Application for admission

1. The application for admission to the selection must be sent exclusively using the specific online procedure available on the page: <https://unical.esse3.cineca.it/>.
2. The IT procedure for submitting the online admission application will mandatorily close **at 12:00 p. m. (midday Italian time) on July 18, 2024.**
3. The online procedure provides for preliminary registration for those who do not have a student number from the University of Calabria, in order to obtain the credentials that allow access to the subsequent phase of completing the application for admission to the selection.
4. Candidates who are already registered must access the Reserved Area using the credentials they already have. Candidates are invited to update the data already present in the registry, in particular the place of residence, telephone number and e-mail address, to which any communications relating to the competition will be delivered.
5. The application for admission to the selection is considered correctly submitted only with the completion of the electronic procedure and can no longer be modified online.
6. An application for admission may be submitted for each administrative category referred to in the following paragraph 11.
7. The date of submission of the application for admission to the selection is certified by the computer system which, upon expiry of the deadline useful for submission, it will no longer allow access and sending the application.
8. In order to participate in the selection call, it is mandatory, under penalty of exclusion, to pay an admission fee of € 10.00 (for each application and administrative category presented) through the PagoPA integrated system in the esse3 online procedure. Only each "closed and transmitted" application with the relevant payment made will be considered valid for the purposes of participation in the selection call. Complaints due to any malfunctions of the IT system near the deadline will not be accepted nor will the admission fee be refundable under any circumstances; Candidates are therefore invited to complete the application to participate in the selection notice sufficiently in advance of the deadline to ensure the necessary assistance.
9. The online admission procedure involves uploading the following documents in pdf format:
 - self-certification of access qualification pursuant to art. 47 of Presidential Decree 445/2000 (annex B) exclusively for academic qualifications obtained in EU countries;
 - documentation required for the evaluation of candidates in possession of an academic qualification obtained abroad;
 - self-certification of exams taken during the academic career, for candidates not yet in possession of the qualification;
 - research project, with a maximum length of 16,000 characters (including spaces), unless otherwise requested in the PhD course information sheet for which you intend to participate, in compliance with the specifications indicated in Attachment A;
 - candidate's curriculum vitae and studiorum;
 - copy, front and back, of a valid identity document;
 - copy of the tax code, exclusively for Italian candidates;
 - any further qualifications subject to assessment, specified in "Annex A" of this announcement.



10. All the titles, documents and publications deemed useful for the purposes of the competition procedure must be attached in PDF format with a maximum size of 20 MB; in a completely exceptional case, any documentation that the candidate is unable to attach may be sent via certified email (PEC) to the address amministrazione@pec.unical.it or delivered by hand to the Protocol Office of the Central Administration, Via Pietro Bucci cubi 7-11 b, Arcavacata di Rende (CS), on weekdays from 10:00 to 12:00, always respecting the expiry date of this document announcement. Furthermore, using the same methods, candidates who wish to integrate or modify the application or attachments can send them, together with the signed admission application and a photocopy of a valid identity document, within the peremptory deadline of the call. In the event that the attachments are not received within the deadline and in the manner indicated, only the documents inserted using the IT procedure will be evaluated. The University assumes no responsibility for any electronic problems.

11. Candidates who intend to participate in multiple administrative categories of the same doctorate course referred to in this announcement must submit a different application for each administrative category, each accompanied by the specific qualifications required and the relevant payment of the admission fee. The administrative categories envisaged are:

- 999 - Category Without reserved positions (all courses);
- 979 - Category Academic qualification obtained abroad (all courses), reserved for candidates with an academic qualification obtained abroad;
- 997 - Community Category (for the doctoral course in Civil and Industrial Engineering, CERERE Project and for the doctoral course in Information and Communication Technology, MSCA MetacMed Project);
- 3 - National public funding category (for the doctoral course in Information and Communication Technology, National Cybersecurity Agency).

To this end, on the Esse3 application, for each doctoral course, several selection procedures will be available for submitting the application for admission in compliance with the administrative categories listed above.

12. Candidates who intend to participate in more than one selection for admission to the doctoral courses referred to in this announcement must submit a different application for each selection, each accompanied by the required qualifications and the relevant payment of the admission fee.

13. Applications for admission to the selection submitted using a method other than that set out above will not be taken into consideration, as will payments relating to the admission fee made using methods other than those provided by the esse3 system.

14. It is the candidate's responsibility to ensure the correct conclusion of the IT procedure; in this regard, this University declines any responsibility for any malfunctions of the IT system close to the deadline.

15. Candidates with proven disabilities, pursuant to law no. 104/1992 as integrated by law 17/99, can request, in relation to their disability, the necessary aids and any additional time to complete the test. For candidates suffering from specific learning disabilities in accordance with law no. 170/2010 in relation to the type of test, an additional time equal to 30 percent more than that defined is granted. Disabled candidates, if they intend to make use of the aids provided for by Law no. 104/1992 as integrated by law 17/99, they must also report it when completing the online application, indicating the type of aid requested.

16. All candidates are admitted to the selection subject to verification of the requirements set out in the announcement, which will be carried out pursuant to art. 43 of Presidential Decree 445/2000. The University



may, therefore, decide at any time to exclude candidates from the selection procedure. The University will also, ex officio, ascertain the truthfulness of the declarations in lieu of certification submitted by the candidates: anyone who issues false declarations is punished in accordance with the penal code and special laws on the matter.

17. The University reserves the right to adopt, even after the completion of the selection, measures to exclude candidates who do not possess the required requirements or who have not complied with the provisions of the announcement.

Art. 5 Judging commissions

1. The selection commissions for admission to doctoral courses are appointed by the Rector in compliance with the "University Regulations regarding research doctorates" of the University of Calabria.

2. Each judging commission is responsible for the entire procedure of evaluating the applications, drafting the minutes, formulating the merit rankings and assigning the doctoral fellowships.

3. The composition of the individual Commissions will be published on the University of Calabria portal at the link https://unical.portale.amministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html.

Art. 6 Admission tests

1. Admission takes place according to the methods explained for each course in Annex A, an integral part of this decree.

2. The admission test diary, reported for each course in the aforementioned Attachment A, constitutes notification to all intents and purposes to interested parties. Any changes or additions to the exam calendar will be published exclusively on the portal of the University of Calabria at the web addresses indicated in Attachment A for each course, by the Department proposing the doctoral course.

3. Failure to show up for the admission tests will be considered as a waiver of the selection.

4. To take the competitive tests, candidates must show one of the following valid identification documents: identity card, passport, car license with photograph, gun licence, identification cards - with photograph and stamp or other marking equivalent - issued by a State Administration.

5. The selection procedure, aimed at ascertaining the candidate's aptitude for scientific research, consists of an evaluation of the candidates' qualifications, integrated, in accordance with the provisions of each course in Annex A, by a written test and/or a test Oral.

6. The points available for each individual test, the attribution criteria and the minimum score thresholds for admission to subsequent tests are indicated in the form for each doctorate.

7. Each Commission, prior to the assessment qualification operations, must designate the president and the recording secretary and establish the evaluation and scoring criteria relating to each individual item (research project, curriculum vitae et studiorum, any certifications, any publications, etc.). In the case of candidates who do not yet have the qualification to access the PhD, for the purposes of an appropriate evaluation of their educational path, the Commission must take into account their self-certified academic career at the time of submitting the application.

8. The written test, where applicable, must be carried out by all candidates, as a rule, in the Italian language, without prejudice to the possibility for the individual Commission to decide to carry out the essay, for all candidates, in a foreign language.



9. The oral test is public and includes testing of knowledge of one or more foreign languages.
10. Only for those courses that do not require a written test, candidates resident or domiciled abroad will be permitted and all candidates who demonstrate, by providing adequate justification to the Selection Committee, the impossibility of going in physical presence to the place and date scheduled for the oral test, to request that it be carried out electronically. In such cases the candidate must request it by sending a PEC (amministrazione@pec.unical.it) to the Department proposing the doctoral course reported in the doctoral form, as well as to the address dottorati@unical.it, immediately after the publication of the results of the assessment qualifications, as indicated in the individual doctorate forms. The request must be accompanied by a copy of a valid identification document. Candidates must guarantee the use of a webcam to allow their identification to the Judging Commission and must be available on the day and time established in the test diary in Annex A. Each Commission has the right to decide to agree with the candidates a specific time for the start of the interview. For identification purposes and under penalty of exclusion from the selection procedure, each candidate is required, before the interview begins, to identify himself, showing the same identity document already sent as an attachment to the e-mail and the online participation application. Failure to connect, the unavailability of the candidate on the established day or time or failure to show the identification document transmitted constitute causes of exclusion from the selection procedure. The University declines any responsibility for the eventuality that technical reasons prevent the oral interview from taking place properly.
11. At the end of the evaluation, the Commission, based on the score reported by each candidate in the individual administered categories for which he/she submitted an application for admission, prepares the merit rankings. The Commission draws up a separate ranking for each administrative category referred to in paragraph 11 of the previous art. 4 and assigns the fellowships taking into account the position in the merit ranking and the number of fellowships available for each administrative category.
12. In case of non-assignment of the position reserved for candidates with a qualification obtained abroad (979 - Academic qualification obtained abroad), the same will be made available as an ordinary position (999 - Category without reserved positions) and assigned according to the order of the general admission ranking to the course for the Category without reserved positions. While, in the event of non-assignment of positions reserved for administrative categories other than 979 and 999, these cannot be assigned by drawing on the rankings of the other administrative categories.
13. Pursuant to current national legislation, each candidate cannot benefit from multiple doctoral fellowships at the same time.
14. For the assignment of the positions referred to in this announcement, in the event of a tie in the general merit ranking, the evaluation of the economic situation (ISEE of the candidate) prevails.
15. The documents relating to the competition procedure are sent to the Rector by the Judging Commission.
16. Candidates are guaranteed access to the documentation of the competition proceedings, in accordance with current legislation.

Art. 7 Admission to doctoral courses

1. The Rector approves the selection documents and decrees the merit rankings for the admission of candidates.



2. The decrees approving the selection documents will be made known through publication on the University of Calabria portal at the link https://unical.portaleAmministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html.
3. Candidates will therefore not receive any personal communication.
4. Candidates are admitted to courses according to the rankings drawn up by each judging commission until all positions available for each doctorate are filled. In case of any cancellations by those entitled before the start of the course, the same number of candidates will take over according to the order of the ranking drawn up by the Commission, always respecting the qualifications assigned. In case of useful placement in multiple rankings, the candidate must exercise the option for only one doctorate course or administrative category.
5. This selection involves the assignment only of positions covered by fellowships and equivalent funding. Renunciation of the fellowship, therefore, entails renunciation of the doctoral course.

Art. 8 Registration methods

1. The winners will have to pre-register via the procedure available at <https://unical.esse3.cineca.it/>, within the terms indicated together with the publication of the Rectoral Decree approving the selection documents. Failure to complete the pre-enrolment will result in the forfeiture of the right to admission to the doctoral course.
2. The amount relating to the fees for attending doctoral courses, to be paid by all doctoral students, includes the regional tax for the right to study, the stamp duty and the insurance premium pursuant to the Regulation on taxes, contributions and exemptions mentioned in the introduction and to which reference is made.
3. Non-EU winners, once they have enrolled, must deliver to the Research Doctorates Sector of the Research, Innovation and Social Impact Area, within a suitable deadline agreed with the Sector itself, a copy of the entry visa for study/university or of the permit of stay.
4. Non-EU citizens requesting visas must register on the University Portal <https://www.university.it/index.php/dashboard>, under "International students", to request an entry visa. Enrollment is completed only upon issuance of the entry visa for study in Italy, the exclusive responsibility of the Italian Diplomatic Representations abroad, regardless of the eligibility acquired.
5. Candidates with a foreign qualification admitted to the course, if they have not submitted it during the admission phase, will have to submit to the Research Doctorate Sector of the Research, Innovation and Social Impact Area, within a suitable time agreed with the Sector itself, under penalty block of career and subsequent forfeiture, the declaration of local value of the qualification, issued by the Italian Diplomatic Representation of the country to which the qualification refers. As an alternative to the declaration of value on site, it is possible to present the diploma supplement in English, issued by the same institution that issued the qualification, drawn up according to the model developed by the European Commission, the Council of Europe and UNESCO/ CEPES, or the comparability certificate from CIMEA or the ENIC-NARIC centres. If the "Declaration of value" presented by the candidate certifies that the qualification is not valid in the country of achievement for enrollment in a course similar to the Doctorate, the interested party will forfeit the Doctoral Course.
6. In the event of withdrawal by those entitled, the remaining vacant positions are assigned to those who hold a useful position in the merit rankings, with communication sent only by ordinary email. For this purpose, the e-mail address indicated by the candidate in the online application is used. The University



assumes no responsibility for the dispersion of communications resulting from inaccurate indications of personal contact details by the candidate or from failure or late communication of their change, nor from electronic errors also linked to the candidate's personal email inbox.

7. The University reserves the right to proceed with appropriate checks on the truthfulness of the content of the winner's declarations. If the content of the declarations is found to be untrue, the winner will lose the benefits resulting from the provision issued on the basis of the untruthful declaration.

Art. 9 Fellowships

1. The amount of the doctoral fellowship is a minimum of €16,243.00 per year gross of social security contributions to be paid by the fellowship holder, with the exception of some administrative categories as reported in Attachment A of the doctoral courses involved. The doctoral fellowship is exempt from the payment of local income tax and personal income tax (IRPEF) and is subject to the payment of separately managed INPS social security contributions, of which two thirds are paid by the University and one third paid by the fellowship holder. Doctoral students enjoy related protections and rights. Fellowship recipients must register for INPS separate management.

2. The total gross annual personal income limit to be able to benefit from the doctoral fellowship is €15,000.00. Income from assets as well as emoluments of any other nature, including those of an occasional nature, contribute to the determination of this income. The income refers to the tax period relating to the calendar year of greatest use of the fellowship (for the academic year 2024/2025 the year 2025). Exceeding the income limit in one of the academic years of enjoyment of the fellowship determines the loss of the right to the fellowship for the year in which the income event incompatible with the fellowship occurred. In this case there will be an obligation to return any monthly payments already received during the academic year.

3. The doctoral fellowship is paid in installments on a deferred monthly basis, has an annual duration and is renewed annually for the duration of the course, provided that the doctoral student has completed the activities foreseen in the previous year and has been admitted by the Teaching Board to the 'next year.

4. Doctoral fellowships cannot be cumulated with research grants or other fellowships awarded for any reason, except with those granted by national or foreign institutions useful for integrating training or research activities with stays abroad.

5. The amount of the fellowship is increased by 50 percent for periods of stay abroad at universities or research institutes previously authorized by the teaching body and proven by a certificate from the host institution, not less than 30 consecutive days and overall not exceeding 12 months, extendable up to 18 months for doctorates in co-supervision with foreign universities and for those activated in associated form pursuant to article 3, paragraph 2 of Ministerial Decree no. 226/2021. The doctoral student is required to certify the actual stay abroad under penalty of reimbursement of the amount received. The increase cannot be received for stays spent in the country of origin or in the country of residence of the doctoral students.

Art. 10 Rights and duties of doctoral students

1. Without prejudice to the rights and obligations provided for by the current University Regulations regarding Research Doctorates and by Ministerial Decree no. 226/21, acceptance of grants implies compliance with the obligations established by the relevant funding sources.

2. Admission to the doctorate involves an exclusive, full-time commitment. Doctoral students have the obligation to assiduously attend doctoral courses, to carry out all study and research activities in the structures intended for this purpose and according to the methods established by the Teaching Board, to



present to the Teaching Board, at the end of each year of the course, an oral or written report on the activity and research carried out and to comply with anything else established by the College itself.

3. Each PhD student is guaranteed a budget for research activity in Italy and abroad amounting to no less than 10% of the cost of the Ministerial grant.
4. All PhD students winning this selection will have to carry out a mandatory period of study and research in public or private entities abroad of at least ninety (90) days in the three-year period, previously authorized by the Teaching Body, unless otherwise provided by the financing body.
5. Doctoral students are required to read itof the University Regulations regarding Research Doctorates of the University of Calabria and to consultperiodically the web portal, in particular the page <https://www.unical.it/didattica/editore-formativa/dottorati/>.

Art. 11 Final exam and awarding of the title

The title of Doctor of Research (“Dott. Ric. or Ph.D.”) is issued by the Rector of the University of Calabria at the conclusion of the Course following the public discussion, before a Commission appointed by the Rector himself, of a thesis research that contributes to the advancement of knowledge or methodologies in the chosen field of investigation, in accordance with the provisions of the University Regulations regarding Research Doctorates.

Art. 12 Ownership of the results

1. Intellectual property rights on the possible results achieved by the doctoral student, including, by way of example and not limited to, software, patentable or non-patentable industest inventions, know-how, models, data and data collections, are regulated in accordance with current legislation, the University regulations and based on what is established in the individual agreements with the Universities, Companies or Bodies involved.
2. The doctoral student has the obligation to communicate the achievement of the results without delay to the Coordinator, undertaking not to disclose them or use them without the prior authorization of the University. In the event that the doctoral student collaborates in research groups, he may be invited to sign a specific commitment to recognize intellectual property rights and confidentiality in relation to information, data and documents of a confidential nature that he becomes aware of in carrying out his activity at and/or on behalf of the University.

Art. 13 Processing of personal data

1. Pursuant to art. 13 of the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016), candidates are informed that the processing of personal data provided by them during participation in the selection or otherwise acquired to this end by the University of Calabria is aimed solely at carrying out the competition activities and will be carried out by the people in charge of the competition proceedings, also by the Judging Commission, at the University of Calabria, with the use of also computerized procedures , in the ways and within the limits necessary to pursue the aforementioned purposes, even in the event of any communication to third parties. The provision of such data is necessary to verify the participation requirements and possession of qualifications and failure to provide them may preclude such verification.

The data collected by the University of Calabria, for the aforementioned purposes, will be processed through an automated database even after the conclusion of the selection procedure for the purposes inherent to



the management of the academic careers of the winners. They may also be used, in aggregate form and for statistical purposes, also by the MUR.

2. The personal data provided by the candidates will be communicated to the administrative structures of the University of Calabria and to the public bodies directly interested in the legal and economic position of the successful candidates.

3. Candidates are granted the rights referred to in the articles 15 et seq. of the aforementioned Regulation 2016/679, in particular, the right to access their personal data, to request rectification, cancellation, limitation of processing, as well as to oppose their processing, addressing requests to the University of Calabria.

Interested parties who believe that the processing of personal data relating to them occurs in violation of the provisions of the Regulation have the right to lodge a complaint with the Guarantor for the protection of personal data, as provided for by the art. 77 of the Regulation itself, or to take action in the appropriate judicial offices (art. 79 of the Regulation).

4. All documentation and information relating to the protection of personal data of the University of Calabria are available at the following link: <https://www.unical.it/privacy/>.

5. The data controller is the University of Calabria, via Pietro Bucci, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 4911.

6. The contact details of the Data Protection Officer (RPD - Responsabile Protezione Dati) are: via Pietro Bucci, Cubo 7/11, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 493918; e-mail: rpd@unical.it.

Art. 14 Responsible for the procedure

Pursuant to the Law 7 August 1990, n. 241, the person responsible for the procedure of this selection notice is the Head of the Research Doctorates Sector of the Research, Innovation and Social Impact Area - University of Calabria (e-mail: dottorati@unical.it).

Art. 15 Final rules

1. For anything not explicitly specified in this selection notice, the provisions established by the current legislation on the matter, by the University Regulations on research doctorates, as well as by the relevant ministerial implementing decrees and by the reference legislation on funding sources, apply.

2. This selection notice is translated into English but in the event of disputes the legal text of reference will be the one in Italian.

The Rector
Nicola Leone

Within this notice, terms relating to people appear only in the masculine form. They refer indiscriminately to people of the female and male gender. Formulations that respect gender identity were renounced so as not to compromise the readability of the text and satisfy the need for simplicity of the same.

Document digitally signed pursuant to the Digital Administration Code and related regulations.



ANNEX A

“ANALYTICAL SHEETS OF RESEARCH DOCTORAL COURSES - XL cycle - AY 2024/2025”

SUMMARY OF AVAILABLE POSITIONS				
No°	PhD Course	Coordinator	Positions available	Pages
1	In Humanistic Studies	Prof. Raffaele Perrelli	5 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	14-17
2	Information and Communication Technologies	Prof. Giancarlo Fortino	7 positions: - n. 4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad) - n. 2 positions with equivalent MCSA funding - n. 1 position with fellowship financed by the National Cybersecurity Agency	18-21
3	Civil and Industest Engineering	Prof. Domenico Mundo	7 positions with fellowship: - n. 4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad) - n. 2 positions with fellowship under the CERERE project - n. 1 position with fellowship financed by ENEA	22-24
4	Life Science and Technology	Prof. Tommaso Angelone	4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	25-28
5	Mathematics and Computer Science	Prof. Giorgio Terracina	5 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	29-31
6	Translational Medicine	Prof. Stefania Catalano	6 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	32-33
7	Politics, Culture and Development	Prof. Francesco Raniolo	4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	34-37
8	Geology, Engineering and Science of Sustainable Earth and Energy Transition	Prof. Salvatore Critelli	3 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	38-40
9	Physical, Chemical and Materials Sciences and Technologies	Prof. Gabriella Cipparrone	4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	41-42
10	Economic and Business Sciences	Prof. Fabio Piluso	4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	43-44
11	Technology Applied to Cultural Heritage	Prof. Mauro Francesco La Russa	4 positions with fellowship: - n. 2 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad) - n. 2 positions with fellowship financed by the CNR	45-47
12	Theory and Practice of Law	Prof. Enrico Caterini	4 positions with University fellowship (of which 1 reserved for candidates with an academic qualification obtained abroad)	48-50



PhD Course in “In Humanistic Studies”

Coordinator	Prof. Raffaele Perrelli - Department of Humanistic Studies (DiSU) Via Pietro Bucci - Cubo 28B, 87036 Arcavacata di Rende (CS) Tel.: 0984/494501 - E-mail: raffaele.perrelli@unical.it -SSD: L-FIL-LET/04
Duration	3 years
Main Department	Department of Humanistic Studies (DiSU)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 10: L-ANT/02, L-ANT/04, L-ANT/06, L-ART/01, L-ART/021, L-ART/04, L-ART/05, L-ART/ 07, L-FIL-LET/02, L-FIL-LET/04, L-FIL-LET/06, L-FIL-LET/07, L-FIL-LET/09, L-FIL-LET/10, L-FIL-LET/11, L-FIL-LET/12, L-FIL-LET/14, L-FIL-LET/15, L-LIN/02, L-LIN/04, L-LIN/05, L-LIN/06, L-LIN/07, L-LIN/10, L-LIN/11, L-LIN/12, L-LIN/13, L-LIN/14, L-LIN/17; CUN Area 11: M-FIL/01, M-FIL/03, M-FIL/04, M-FIL/05, M-FIL/06, M-FIL/08, M-PSI/07, M-GGR/ 01, M-STO/01, M-STO/02, M-STO/04, M-STO/06, M-STO/07; CUN Area 14: SPS/02, SPS/08, SPS/13
Research Topics	The Doctorate in Humanistic Studies intends to train scholars in both the more traditional and newer areas of humanistic knowledge (from ancient and modern literatures to philosophy, from philology to art history, from history to the disciplines of communication and entertainment), putting comparing and contaminating the practices of philology with the historical and philosophical dimensions.
Participation Requirements	<ul style="list-style-type: none"> - Degree (before Ministerial Decree 509/1999) or Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004). - Equivalent qualification obtained from legally recognized foreign universities.
Admission Procedures	Assessment qualifications, written test and oral test.
Admission procedures - reserved position - Administrative Category 979	Assessment qualifications, oral exam.
Assessable Qualification	<ul style="list-style-type: none"> - <i>Curriculum Vitae et Studiorum</i> (CV), analysis of the training and research activity which reports the title of the bachelor's thesis and master's degree or equivalent, attendance at any post-graduate courses, fellowships obtained and previous research experience in Italy and/or abroad; - research project of no more than 10,000 characters, spaces included, excluding bibliography. For the purposes of selection for the PhD, the candidate must present a project that can evaluate his propensity for research and his ability to independently plan and organize the different phases of the project; - any scientific publications with ISSN/ISBN.



Assessment Criteria	Maximum overall score 90 points	
	Assessment Qualification	Maximum score 30 points
	<i>Curriculum Vitae et Studiorum</i> (CV) analytical report of training and research activity.	Score maximum 3 points
	Research project evaluated according to the following criteria: <ul style="list-style-type: none"> - dominance of the linguistic code of scientific research; - expressive property; - originality of the research objectives and scientific nature of the theoretical and methodological instrumentation of reference, - congruence with the disciplinary areas in the broadest sense represented in the teaching body; - coherence of the project itself with the duration of the training course. 	Score maximum 25 points
	Scientific publications with ISSN/ISBN.	Score maximum 2 points
	Written test Procedure: The candidates must demonstrate that they possess in-depth knowledge of themes and issues relating to humanistic studies. In particular, during the written test the following will be assessed: <ul style="list-style-type: none"> - expressive property, - argumentative competence, - domain of the linguistic code and basic bibliography of humanistic scientific research. 	Score maximum 30 points
	Oral exam Procedure: discussion on: <ul style="list-style-type: none"> - the research project; - the main topics of the Doctorate; - knowledge of a foreign language chosen from: French, English, Spanish, German. 	Score maximum 30 points
	Minimum score for access to subsequent tests and for passing the interview: 21 points	
Assessment criteria - reserved position -	Maximum overall score 60 points	
	Qualification Assessment	Score maximum 30 points



Administrative Category 979	<i>Curriculum Vitae et Studiorum</i> (CV) analytical report of training and research activity.			Score maximum 3 points
	Research project evaluated according to the following criteria: <ul style="list-style-type: none"> - dominance of the linguistic code of scientific research; - expressive property; - originality of the research objectives and scientific nature of the theoretical and methodological instrumentation of reference, - congruence with the disciplinary areas in the broadest sense represented in the teaching body; - coherence of the project itself with the duration of the training course. 			Score maximum 25 points
	Scientific publications with ISSN/ISBN.			Score maximum 2 points
	Oral exam Procedure: discussion on: <ul style="list-style-type: none"> - the research project; - the main topics of the Doctorate; - knowledge of a foreign language, different from the mother tongue, chosen from: French, English, Italian, Spanish, German. 			Score maximum 30 points
	Minimum score for access to the oral test and for passing the interview: 21 points			
Positions and Fellowships	5 (five) positions, with fellowship financed by the University, of which: <ul style="list-style-type: none"> - 4 (four) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 			
Agenda	Test	Date	Time	Place
	Result of qualification assessment	July 23, 2024		https://disu.unical.it/
	Written test	July 25, 2024	9.30	Classroom "M. Alcaro" (cube 28 B, ground floor), Department of Humanistic Studies University of Calabria Arcavacata di Rende (CS)
	Oral exam	July 30, 2024	9.30	Classroom "M. Alcaro" (cube 28 B, ground floor), Department of Humanistic



				Studies University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://disu.unical.it/			
Agenda - reserved position - Administrative Category 979	Test	Date	Time	Place
	Result of qualification assessment	July 23, 2024		https://disu.unical.it/
	Oral exam	July 30, 2024	9.30	Classroom "M. Alcaro" (cube 28 B, ground floor), Department of Humanistic Studies University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://disu.unical.it/			
Contact details for information	disu@unical.it			
PhD Course website	https://disu.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/			






PhD Course in “Information and Communication Technologies”

Coordinator	Prof. Giancarlo Fortino - Department of Computer Engineering, Modelling, Electronics and Systems (DIMES) Via Pietro Bucci - Cubo 41/C, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.494063 - e-mail: g.fortino@unical.it - SSD: ING-INF/05
Duration	3 years
Main Department	Department of Computer Science, Modelling, Electronics and Systems Engineering (DIMES)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 01: MAT/08, MAT/09, INF/01; CUN area 09: ING-INF/01, ING-INF/02, ING-INF/03, ING-INF/04, ING-INF/05, ING-INF/07, ING-IND/24, ING-IND/ 31; CUN Area 11: M-STO/08.
Research Topics	<p>The educational path of the doctoral course is multidisciplinary and strongly oriented towards the integration, development and use of new Information and Communication Technology (ICT) systems. The main research topics are listed below:</p> <ul style="list-style-type: none">• Design of Internet of Things (IoT) systems.• Cybersecurity.• Big Data analysis techniques and applications.• Artificial intelligence.• Wearable computing and m-health systems.• Modeling and simulation for the reliability analysis of IoT systems.• Software engineering methodologies for the development of distributed and complex software systems.• Models and algorithms for digital social networks.• Management and analysis systems for large amounts of data and scalable processing: distributed systems, parallel systems, cloud computing architectures and systems, provisioning models.• Knowledge Management: document management, extraction, integration and modeling of knowledge, methodologies for formalization and classification taxonomies, thesauri and ontologies, management of distributed data, data mining and data warehousing.• Models and algorithms for simulation and optimization.• Mathematics for machine learning.• Microsystems: development and characterization of intelligent MEMS devices.• Development of low-power, high-performance circuits and systems for 3D image processing.• Photovoltaic conversion: solar cell models and technologies, intelligent systems for energy management, conversion and storage.• Energy-efficient integrated circuits for logic and memory applications.• Nanodevices for logic and memory applications.• Modeling and design of spintronic nanodevices.



	<ul style="list-style-type: none">• Systems and techniques for the management of electric mobility infrastructures• Reconfigurable antennas.• Smart antennas and their integration.• Advanced techniques for measuring electromagnetic fields.• Electromagnetic diagnostics and biomedical applications.• Radar systems for environmental monitoring.• Electronic circuits for radio frequency applications.• Monolithic integration of transmitters and receivers.• Energy efficiency in wireless sensor networks.• Cognitive networks and 5G systems.• Technologies, protocols and network architectures for IoT systems.• New generation vehicular networks and protocols for smart cities.• Control and estimation for networked agent systems.• Control strategies resilient to cyber-attacks in networked control systems.• Safe navigation schemes and environment reconstruction for teams of autonomous robots.• Techniques and devices for navigation, guidance and control in autonomous underwater vehicles.• Techniques and devices for underwater acoustic communications and localization.• Non-destructive diagnostics of materials.• Electronic measurement systems.• Fault diagnosis and isolation techniques and control reconfiguration in dynamic systems.• Synchronization methods for IoT-based distributed measurement systems.• IoT-based distributed measurement systems for structural monitoring.• Food engineering.• Legal IT
Participation Requirements	<ul style="list-style-type: none">- Degree (before Ministerial Decree 509/1999) or Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004).- Equivalent qualification obtained from legally recognized foreign universities. <p>The candidates for positions with equivalent funding from the funds of the HORIZON-MSCA-2022-DN-01 GRANT-101119738 "MetacMed" project, administrative category 997, must also meet the following eligibility requirements:</p> <ul style="list-style-type: none">- must not already be in possession of the doctoral qualification at the start date of the contract. Researchers who have successfully defended their doctoral thesis but have not yet formally obtained the doctoral title will not be considered eligible.- they must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately preceding the start date of the contract.



Admission Procedures	Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.	
Assessable Qualification	<ul style="list-style-type: none"> - Research project. - Curriculum Vitae et Studiorum (CV) with attached certificate of Bachelor's and Master's Degree or Degree before Ministerial Decree 509/1999 with indication of the exams taken and related grades. 	
Assessment Criteria	Maximum overall score 60 points	
	Assessment Qualification	Score maximum 30 points
	Research project	Maximum score 10 points
	Curriculum Vitae et Studiorum (CV)	Maximum score 20 points
	Oral exam Procedure: the oral exam will focus on the description of the proposed research project and the areas of interest of the doctorate.	Score maximum 30 points
	Minimum score for accessing the oral test and passing the interview: 21 points	
Positions Fellowships	and	<p>7 (seven) positions whose:</p> <ul style="list-style-type: none"> - 3 (three) positions with fellowship financed by the University Administrative category 999 without reserved positions; - 1 (one) position with fellowship financed by the University Administrative category 979 reserved for candidates with an academic qualification obtained abroad; - 2 (two) positions with equivalent funding from the funds of the HORIZON-MSCA-2022-DN-01 GRANT-101119738 "MetacMed" project, Administrative category 997 community members on the following research topics: <ul style="list-style-type: none"> ▪ Metamaterial lenses for ultrasonic sub-wavelength imaging in water", SSD: ING-IND/31; ▪ Artificial Intelligence for discovering novel acoustic/mechanical metamaterials designs and properties, SSD: ING-IND/31 <p><i>and with specific reporting obligations.</i></p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <p>Amount of each equivalent loan (three-year duration): €119,217.60 + €21,600.00 for Mobility Allowance + budget for "Family allowance", "Long term leave", and "Special Needs" if the conditions for their request under the project are met HORIZON-MSCA-2022-DN-01 GRANT-101119738 "MetacMed". All amounts are to be considered before taxes;</p> <ul style="list-style-type: none"> - 1 (one) position with fellowship funded by the National Cybersecurity Agency (ACN) Administrative category 3- National public funding category, pursuant to determines ACN prot. n. 15909 of 05/20/2024, Project ID



	14_MAN_PHD_University of Calabria, Project Name “SOLID: Secure (I) IOT Lifecycle Development, with specific reporting obligations.			
	Amount of doctoral fellowship financed by ACN (three-year duration):			
	Typology		Standard monthly amount of the PhD fellowship	
	PhD fellowship without period abroad		€ 2,337.57	
	PhD fellowship with period abroad (6 months mandatory)		€ 3,506.35	
Agenda	Test	Date	Time	Place
	Result of qualification assessment	July 30, 2024		http://dottorato.dimes.unical.it/
	Oral exam	July 31, 2024	9.00	DIMES Seminar Room, University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: http://dottorato.dimes.unical.it/			
Contact details for information	g.fortino@unical.it			
PhD Course website	http://dottorato.dimes.unical.it/			






PhD Course in “Civil and Industest Engineering”

Coordinator	Prof. Domenico Mundo - Department of Mechanical, Energy and Management Engineering (DIMEG) - Via Pietro Bucci - Cubo 45/C, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.494159 - e-mail: domenico.mundo@unical.it - SSD: ING-IND/13
Duration	3 years
Main Department	Department of Mechanical, Energy and Management Engineering (DIMEG)
Other Departments involved	Department of Civil Engineering (DInCi) Department of Computer Science, Modelling, Electronics and Systems Engineering (DIMES) Department of Environmental Engineering (DIAM)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 08: ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17, ICAR/20 Area CUN 09: ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13, ING-IND/14, ING-IND/15, ING-IND/ 16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/25, ING-IND/26, ING-IND/35
Research Topics	The doctoral course aims to develop skills in the topics relating to the two reference curricula: Civil Engineering and Industest Engineering.
Participation Requirements	<ul style="list-style-type: none">- Master's Degrees (ex DM 270/2004): LM-3 Landscape Architecture, LM-4 Architecture and Building Engineering-Architecture, LM-4 cu Architecture and Building Engineering-Architecture (five-year), LM-20 Aerospace and Astronautical Engineering, LM -21 Biomedical Engineering, LM-22 Chemical Engineering, LM-23 Civil Engineering, LM-25 Automation Engineering, LM-26 Safety Engineering, LM-28 Electrical Engineering, LM-30 Energy and Nuclear Engineering, LM-31 Engineering Management, LM-32 Computer Engineering, LM-33 Mechanical Engineering, LM-35 Environmental and Land Engineering, LM-53 Materials Science and Engineering.- Specialist Degrees (ex DM 509/1999): 3/S (Specialist Degrees in Landscape Architecture), 4/S (Specialist Degrees in Architecture and Construction Engineering), 25/S (Specialist Degrees in Aerospace and Astronautical Engineering), 26/S (Specialist Degrees in Biomedical Engineering), 27/S (Specializations in chemical engineering), 28/S (specialists in Civil Engineering), 29/S (specialists in Automation Engineering), 31/S (specialists in Electrical Engineering), 33/S (specialists in Energy and Nuclear Engineering), 34/S (specialists in Management Engineering), 35/S (specialists in computer engineering), 36/S (specialists in Mechanical Engineering), 38/S (specialists in Environmental and Territorial Engineering), 61/S (specialists in Materials Science and Engineering);



	<ul style="list-style-type: none"> - Bachelor's Degrees (before Ministerial Decree 509/1999) equivalent to the Master's Degrees mentioned above pursuant to Ministerial Decree 09/07/2009. - Qualification obtained from legally recognized foreign universities, equivalent to one of the above. 	
Admission Procedures	<p>Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.</p>	
Assessable Qualification	<ul style="list-style-type: none"> - Curriculum Vitae et Studiorum (CV) with attached certificate of Master's Degree (or equivalent) with analytical indication of the exams taken and related grade; for undergraduates it is sufficient to certify the exams taken and the related grade. - Research project. - Any publications relating to the topics of the Doctorate. - Any Masters, Grants and Research Grants relating to the topics of the Doctorate. 	
Assessment Criteria	Maximum overall score 60 points	
	Assessment Qualification	Maximum score 30 points
	Research project	Maximum score 15 points
	Curriculum Vitae et Studiorum (CV) with attached certificate of Master's Degree (or equivalent) with analytical indication of the exams taken and related grade; for undergraduates it is sufficient to certify the exams taken and the related grade	Maximum score 9 points
	Publications relevant to the topics of the Doctorate	Maximum score 3 points
	Masters, grants and research grants related to the topics of the Doctorate	Maximum score 3 points
	Oral exam Method of implementation: Discussion of the proposed research project and the scientific and professional experiences gained. During the oral test, knowledge of the English language will be tested.	Maximum score 30 points
	Minimum score for access to the oral test and for passing the interview: 21 points	
Positions and Fellowships	<p>7 (seven) positions whose:</p> <ul style="list-style-type: none"> - 3 (three) positions with fellowship financed by the University administrative category 999 without reserved positions; - 1 (one) position with fellowship financed by ENEA administrative category 999 without reserved positions on the following research topic: <ul style="list-style-type: none"> ▪ Experimental study of fuel cells and polymer electrolyte electrolysers; - 1 (one) position with fellowship financed by the University administrative category 979 reserved for candidates with an academic qualification obtained abroad; 	



	<p>- 2 (two) positions administrative category 997community financed by fundsbased on the CERERE project - CEreals REsiliency REvolution for agile supply chain management in the Mediterranean (CUP H23C24000170006), European call 2023 Section 1 AGROFOOD RIA - PRIMA on the following research topics:</p>			
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>PRIMA PROGRAMME FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA</p> </div> <div style="text-align: center;">  <p>PRIMA programme is supported by Horizon 2020, the European Union's Framework Programme for Research and Innovation.</p> </div> <div style="text-align: center;">  <p>CERERE</p> </div> </div> <ul style="list-style-type: none"> ▪ Cognitive digital twins and interfaces for resilient supply chain management; ▪ Human-AI systems and intelligent orchestration of interconnected supply chains. 			
Agenda	Test	Date	Time	Place
	Result of Qualification Assessment	July 26, 2024		dici.unical.it
	Oral exam	July 30, 2024	3.00 p.m.	"Giannattasio" DInCi classroom (cube 45/b, driveway bridge level), University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: dici.unical.it			
Contact details for information	domenico.mundo@unical.it			
PhD Course website	dici.unical.it			



PhD Course in “Life Science and Technology”

Coordinator	Prof. Tommaso Angelone - Department of Biology, Ecology and Earth Sciences (DiBEST) - Via Pietro Bucci - Cubo 6/C, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.492902 - e-mail: tommaso.angelone@unical.it - SSD: BIO/09
Duration	3 years
Main Department	Department of Biology, Ecology and Earth Sciences (DiBEST)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 01: MAT/09; CUN Area 03: CHIM/02, CHIM/06, CHIM/08, CHIM/09; CUN Area 04: GEO/01; Area CUN 05: BIO/01, BIO/02, BIO/03, BIO/05, BIO/06, BIO/07, BIO/09, BIO/10, BIO/11, BIO/15, BIO/16, BIO/ 18; CUN Area 06: MED/04; CUN Area 08: ICAR/03; CUN Area 09: ING-IND/24.
Research Topics	The Doctorate is multidisciplinary and aims to develop skills in the following research topics. Experimental cardiology. Cellular physiology. Signal transduction mechanisms. Biochemical and biomolecular aspects of membrane transport systems. Applications of membrane transport systems to human health and drug design. Analysis of genetic and epigenetic variability in relation to human aging and forensic issues; biology, genetics and epigenetics of microorganisms and their relationship with the host. New molecular mechanisms involved in the progression of hormone-sensitive tumors. Bioinformatic analysis of multi-omics data for cancer research through digital platforms and solutions. Biodiversity. Wildlife conservation and risk. Developmental biology. Neurobiology. Morphofunctional cellular alterations in eukaryotes. Adaptive biology of fish in aquaculture. Behavioral ecology. Morpho-functional organ adaptations in the presence of environmental, physical and chemical stress. Cyto-physiology of apical meristems. Molecular and cytophysiological aspects induced by secondary metabolites. Environmental stress and parasites. Identification and characterization of genes involved in key metabolic processes. Comparative study of the genome and mitochondrial gene expression of plants. Epigenetic mechanisms and developmental processes in plants. Response of plant organisms to environmental stress. Plant biosystematics. Flora and vegetation of Calabria. Biodiversity and conservation of plant resources. Cytophysiological and molecular analysis of seagrasses; ecological analysis and functioning of coastal marine ecosystems. Bioindicators of internal water quality. New synthetic and nutraceutical compounds of pharmaceutical interest. Profiling, proteomics, lipidomics and metabolomics of plant and animal matrices using high resolution MALDI-MS and MS/MS and NMR. Self-assembly of multifunctional biocompatible molecular nanoarchitectures for drug delivery and tissue reconstitution. Use of arthropods in the assessment of



	<p>environmental quality and in forensic investigations, parasitosis in humans and animals caused by some species of insects.</p> <p>Study of fossil organic matter, in particular lipid biomarkers, in biogenic carbonates for the characterization of the evolution of their biocoenosis in the history of life.</p> <p>Agri-food and pharmacological processes. Characterization of weakly structured and multiphasic systems for food and pharmacological applications. Renewable energy sources. Efficiency of energy production processes. Air monitoring technologies. Development of water and industrial waste treatment and management systems. Innovative systems for optimizing the waste hierarchy and preventing the creation of waste. Development and characterization of new additives for the asphalt industry to safeguard the health of workers and the environment. Characterization and study of biomimetic membranes using chemical-physical techniques. Characterization and study of bituminous membranes using chemical-physical techniques</p>
<p>Participation Requirements</p>	<ul style="list-style-type: none"> - Master's Degrees (ex DM 270/204): LM-6 Biology; LM-7 Agricultural Biotechnology; LM-8 Industrial Biotechnology; LM-9 Medical, Veterinary and Pharmaceutical Biotechnologies; LM-11 Sciences for the conservation of cultural heritage; LM-13 Pharmacy and industrial pharmacy; LM-17 Physics, LM-18 Computer Science, LM-21 Biomedical Engineering; LM-22 Chemical Engineering; LM-23 Civil Engineering, LM-30 Energy and Nuclear Engineering, LM-31 Management Engineering, LM-32 Computer Engineering; LM-33 Mechanical Engineering; LM-35 Environmental and Territorial Engineering; LM-40 Mathematics; LM-41 Medicine and Surgery; LM-42 Veterinary Medicine; LM-44 Mathematical-physical modeling for engineering, LM-53 Materials science and engineering, LM-54 Chemical sciences; LM-60 Natural Sciences; LM-61 Nutrition Sciences; LM-69 Agricultural sciences and technologies; LM-70 Food science and technology; LM-74 Geological sciences and technologies, LM-75 Sciences and technologies for the environment and the territory; LM-79 Geophysical Sciences; LM-82 Statistical Sciences; LM-86 Zootechnical sciences and animal technologies. - Specialist degrees (ex DM 509/1999): 3/S (specialist in landscape architecture); 6/S (specialists in biology); 7/S (specialists in agricultural biotechnology); 8/S (specialists in industrial biotechnology), 9/S (specialists in medical, veterinary and pharmaceutical biotechnology); 12/S (specialists in conservation and restoration of the historical-artistic heritage), 14/S (specialists in pharmacy and industrial pharmacy), 20/S (specialists in physics), 23/S (specialists in IT), 26/S (specialists in specializations in biomedical engineering), 27/S (specializations in chemical engineering), 28/S (specializations in civil engineering), 33/S (specializations in energy and nuclear engineering), 34/S (specializations in management engineering), 36/S (specialists in mechanical engineering), 38/S (specialists in environmental and territorial engineering), 45/S (specialists in mathematics), 46/S (specialists in



	<p>medicine and surgery), 47/S (specialists in veterinary medicine), 50/S (specialists in mathematical-physical modeling for engineering), 61/S (specialists in materials science and engineering), 62/S (specialists in chemical sciences), 68/S (specialists in science of nature), 69/S (specialists in human nutrition sciences), 74/S (specialists in science and management of rural and forestry resources), 77/S (specialists in agricultural sciences and technologies), 78/S (specialists in agri-food sciences and technologies), 81/S (specialists in industrial chemical sciences and technologies), 82/S (specialists in environmental and territorial sciences and technologies), 85/S (specialists in geophysical sciences), 86/S (specialists in geological sciences), 92/S (specialists in statistics for experimental research);</p> <ul style="list-style-type: none"> - Bachelor's Degrees (before Ministerial Decree 509/1999) equivalent to the Master's Degrees mentioned above pursuant to Ministerial Decree 09/07/2009. - Qualification obtained from a legally recognized foreign university, equivalent to one of the above. 	
Admission Procedures	<p>Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.</p>	
Assessable Qualification	<ul style="list-style-type: none"> - Research project. - Curriculum vitae and studiorum (CV). - Any other titles (Publications, Conference participation). 	
Assessment Criteria	Maximum overall score 60 points	
	Qualification Assessment	Maximum score 30 points
	Research project to be drawn up in Italian or English only and exclusively according to the scheme at the following link: https://www2.unical.it/portale/portaletemplates/view/view.cfm?118202 .	Maximum score 20 points
	Curriculum Vitae et Studiorum (CV)	Maximum score 5 points
	Other titles: Publications, participation in conferences.	Maximum score 5 points
	<p style="text-align: center;">Oral exam</p> <p>Procedure: The oral test will focus on the discussion of the research project, the Curriculum Vitae et Studiorum (CV) and the other qualifications presented. The candidate's skills will be assessed for the purpose of carrying out the project presented. During the oral test, knowledge of the English language will also be tested. Foreign candidates will be able to take the oral test electronically.</p>	Maximum score 30 points
Minimum score for access to the oral test and for passing the interview: 21 points.		



Positions and Fellowships	<p>4 (four) positions, with fellowship financed by the University, of which:</p> <ul style="list-style-type: none"> - 3 (three) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. <p>The fellowships will be activated on the following themes:</p> <p>1) <i>Effects of anthropic activity on Apoidea, consequences for biodiversity and mitigation of habitat loss according to European new deal for pollinators (BIO/05_Zoology);</i></p> <p>2) <i>Prostate tumor-stroma interaction: study of molecular mechanisms for tumor progression and metastasis to bone (BIO/16_Human Anatomy);</i></p> <p>3) <i>Study of preclinical models of cardiac aging for identification of multitarget cardioprotective therapies and novel biomarkers of aging (BIO/09_Physiology);</i></p> <p>4) <i>-Deep Eutectic Solvents (DES) and Natural Deep Eutectic Solvents (NADES). Preparation, characterization, applications to the drug synthesis and delivery, and to the selective extraction of bioactive compounds from complex natural matrices (CHIM/06_Organic Chemistry).</i></p>			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 26, 2024		https://dibest.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/dottorato-ricerca-life-science-technology/
	Oral exam	July 29, 2024	9.00	Room 5C4 DiBEST (cube 5C, drive way), University of Calabria Arcavacata di Rende (CS)
Contact details for information	<p>The results of the exam will be posted on the website: https://dibest.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/dottorato-ricerca-life-science-technology/</p> <p>Coordinator of the doctoral course: Prof. Tommaso Angelone, DiBEST, Tel.: +39 0984.492902, e-mail: tommaso.angelone@unical.it Email secretariat: DottoratoLifeScienceAndTech@unical.it</p>			
PhD Course website	<p>https://dibest.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/dottorato-ricerca-life-science-technology/</p>			



PhD Course in “Mathematics and Computer Science”

Coordinator	Prof. Giorgio Terracina - Dipartimento di Matematica e Informatica (Department of Mathematics and Computer Science) - Via Pietro Bucci - Cubo 31/B, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.496465 - e-mail: giorgio.terracina@unical.it - SSD: INF/01
Duration	3 years
Main Department	Dipartimento di Matematica e Informatica - DeMaCS (Department of Mathematics and Computer Science)
Other Departments involved	Dipartimento di Ingegneria Meccanica, Energetica e Gestionale - DIMEG (Department of Mechanical, Energy and Management Engineering)
CUN Areas and Scientific Disciplinary Sectors (Subject Areas)	Area CUN 01: INF/01 - Computer Science, MAT/02 - Algebra, MAT/03 - Geometry, MAT/04 - Complementary Mathematics, MAT/05 - Mathematical Analysis, MAT/06 - Probability and Mathematical Statistics, MAT/07 - Mathematical Physics, MAT/08 - Numerical Analysis, MAT/09 - Operations Research
Research Topics	<p>The main research topics are listed below:</p> <ul style="list-style-type: none"> • Artificial Intelligence, Knowledge Representation and Reasoning, Answer Set Programming, Logic Programming, Constraint Satisfaction Problems • Artificial Intelligence in multidisciplinary contexts • Databases, Data and Knowledge Integration, Data and Text-Mining, Knowledge Management • Theoretical Computer Science, Game theory, Decidability and Complexity Theory. • Grid Computing, Computational Science, Cellular Automata • Optimization Models and Methods for solving problems in Transport and Logistics • Optimization Nonlinear e Machine Learning • Combinatorics • Study of canonical models of surfaces of general type. Algebraic curves and their moduli spaces. Groups and Graphs • Interactions between algebra and geometry and between geometry and mathematical physics in modern and contemporary Mathematics. Historical developments of the decisions theory. History of the mathematics in the didactical field. Mathematic teaching with particular interest in the role and in the use of the technology. • Calculus of variations. Variational methods in Nonlinear Analysis. Critical point Theory and applications to nonlinear PDE. Geometry of Banach spaces. Local and nonlocal ODE. Approximation methods. Minimum problems and projections. Equilibrium problems. Uniform distribution and discrepancy. Monte Carlo type integration methods.



	<ul style="list-style-type: none"> • Random fields, namely: percolation, statistical mechanics, interacting particle systems, dynamic systems, quantitative finance, stochastic simulation and mathematical statistics. • Quantum Theory problems. Group-theoretic approach to the interaction theory. Semiclassical models for the electricity and heat transmission in semiconductors. Coupling problems in devices-electrical networks. • Sequences of Sheffer polynomials and approximation of the involved operators. Numerical approximation of solutions to high order partial differential equations under boundary conditions or initial data. Approximations for Scattered Data and rational interpolation. Applications to engineering problems and statistics. 	
Participation Requirements	<ul style="list-style-type: none"> - Italian Specialist/Master's Degree (ex DM 509/1999 e DM 270/2004) or equivalent - Degree awarded by an accredited foreign university or Italian University Degree (ante DM 509/1999). 	
Admission Procedures	<p>Assessment qualifications and oral examination. The knowledge of the English Language will be assessed during the oral examination.</p>	
Assessable Qualification	<ul style="list-style-type: none"> - Research project - Curriculum Vitae et Studiorum (CV) including a copy of Bachelor's and Master's Degree (in Italian or English), and the list of examinations taken with grades and final mark (download the template from www.mat.unical.it/phd/Admission) 	
Assessment Criteria	Maximum score 60 points	
	Qualification Assessment	Maximum score 30 points
	Research project	Maximum score 15 points
	Curriculum Vitae et Studiorum (CV)	Maximum score 15 points
	Oral exam	Maximum score 30 points
<p>Procedure: Project discussion. Colloquium on disciplines related to the doctorate. Candidates residing abroad may take the test online. Italian candidates, subject to presentation of a justified request, may take the test online if authorised by the board.</p>		
	Minimum score required for the admission to the oral admission and for the oral examination: 21 pt	
Positions and Fellowships	<p>5 (five) positions, with fellowship financed by the University, of which:</p> <ul style="list-style-type: none"> - 4 (four) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 	



	Test	Date	Time	Place
Agenda	Qualification assessment	July 30, 2024		
	Oral exam	July 31, 2024	9.00	Room MT11 (cube 30B), Department of Mathematics and Computer Science University of Calabria - Arcavacata di Rende (CS) online - the link will be published on the web page http://www.mat.unical.it/phd/Admission
	The results of the exam will be posted on the website: http://www.mat.unical.it/phd/Admission .			
Contact details for information	arduino.dieni@unical.it			
PhD Course website	www.mat.unical.it/phd			



PhD Course in “Translational Medicine”

Coordinator	Prof. Stefania Catalano - Dipartimento di Farmacia e Scienze della Salute e della Nutrizione (Department of Pharmacy and Health and Nutrition Sciences) - Edificio Polifunzionale, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.496207 - e-mail: stefania.catalano@unical.it - SSD: MED/05
Duration	3 years
Main Department	Department of Pharmacy and Health and Nutrition Sciences
Other departments involved	Department of Chemistry and Chemical Technologies (Chimica e Tecnologie Chimiche - CTC)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 03: CHIM/01, CHIM/02, CHIM/03, CHIM/06, CHIM/08, CHIM/09, CHIM/10; CUN Area 05: BIO/10, BIO/11, BIO/12, BIO/13, BIO/14, BIO/15, BIO/16; CUN Area 06: MED/03, MED/04, MED/05, MED/06, MED/07, MED/09, MED/11, MED/14, MED/15, MED/18, MED/45, MED/ 46, MED/50; CUN Area 07: AGR/15.
Research Topics	1) Molecular Design; 2) Molecular bases of diseases and innovative therapeutic applications.
Participation Requirements	<ul style="list-style-type: none"> - Italian Master's Degrees (ex DM 270/204): LM-6 Biology, LM-9 Medical, veterinary and pharmaceutical biotechnologies, LM-13 Pharmacy and industrial pharmacy, LM-17 Physics, LM-21 Biomedical engineering, LM-22 Chemical engineering, LM-41 Medicine and Surgery, LM-42 Veterinary Medicine, LM-53 Materials Science and Engineering, LM-54 Chemical Sciences, LM-61 Human Nutrition Sciences, LM-70 Food Science and Technology, LM-71 Science and Technology of industrial chemistry, LM/SNT3 Sciences of technical health professions, LM/SNT4 Sciences of prevention health professions; - Italian Specialist Degrees (ex DM 509/1999): 6/S (specialists in biology), 9/S (specialists in medical, veterinary and pharmaceutical biotechnologies), 14/S (specialists in pharmacy and industrial pharmacy), 20/S (specialists in physics), 26/S (specialists in biomedical engineering), 27/S (specialists in chemical engineering), 46/S (specialists in medicine and surgery), 47/S (specialists in veterinary medicine), 61/S (specialists in materials science and engineering), 62/S (specialists in chemical sciences), 78/S (specialists in agri-food sciences and technologies), 79/S (specialists in agro-zootecnical sciences and technologies), 81/S (specialists in the sciences and technologies of industrial chemistry), SNT_SPEC/3 (specialists in the sciences of technical health professions), SNT_SPEC/4 (specialists in the sciences of prevention health professions); - Italian Degree (ante DM 509/99) or equivalent to master's degree listed above; - Academic degree's obtained abroad equivalent to master's degree listed above.
Admission Procedures	Assessment qualifications and oral exam. During the oral test, the knowledge of the English language will be assessed.



Assessable Qualification	Curriculum Vitae and Studiorum (CV). Research project. Academic qualification and/or job experiences. Scientific Publications.			
Assessment Criteria	Maximum overall score 60 points			
	Assessment Qualification		Maximum score 30 points	
	Research project		Maximum score: 18 points	
	Curriculum Vitae and Studiorum (CV)		Maximum score: 7 points	
	Academic qualification and/or job experiences		Maximum score: 3 points	
	Scientific Publications		Maximum score: 2 points	
Positions and Fellowships	Oral exam			
	Procedure: Oral Examination and knowledge of the English Language: The oral test will focus on the discussion of the research project presented by the candidate to certify his aptitude for research activity.			Maximum score 30 points
Positions and Fellowships	Minimum score required for the admission to the oral exam: 21 points			
	6 (six) positions , with fellowship financed by the University, of which: <ul style="list-style-type: none"> - 5 (five) administrative category 999 without reserved positions, of which n.1 (one) with the co-financing of one year by the Department of Pharmacy and Health and Nutrition Sciences; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 23, 2024	3.30 p.m.	https://sites.google.com/unical.it/phdintraslationalmedicine/home-page
	Oral exam	July 25, 2024	9.30	Seminar room Department of Pharmacy and Health and Nutrition Sciences - University of Calabria Arcavacata di Rende (CS)
The results of the exam will be posted on the website: https://sites.google.com/unical.it/phdintraslationalmedicine/home-page				
Contact details for information	Dr. Gemma Capparelli Department of Pharmacy and Health and Nutrition Sciences University of Calabria Tel.: +39 0984.493109 Fax: +39 0984.493107 E-mail address: gemma.capparelli@unical.it			
PhD Course website	https://sites.google.com/unical.it/phdintraslationalmedicine/home-page			



PhD Course in “Politics, Culture and Development”

Coordinator	Prof. Francesco Raniolo - Department of Political and Social Sciences - DiSPeS - Via Pietro Bucci, Cubo 0B, 87036 Arcavacata di Rende (CS) Tel. +39 0984.492525 - e-mail: francesco.raniolo@unical.it - SSD: SPS/04
Duration	3 years
Main Department	Department of Political and Social Sciences (SPeS)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 10: L-ART/06, L-FIL-LET/14, L-LIN/01, L-LIN/07, L-LIN/12, L-LIN/14, L-OR/10; CUN Area 11: M-FIL/03, M-FIL/05, M-FIL/06, M-PED/01, M-PSI/04, M-PSI/05, M-STO/02, M-STO/04; CUN Area 13: SECS-P/02, SECS-P/07; CUN Area 14: SPS/01, SPS/02, SPS/04, SPS/06, SPS/07, SPS/08, SPS/09, SPS/10, SPS/11, SPS/12.
Research Topics	<p>The research topics largely follow and articulate what is addressed in the research groups active in the Departments of Political and Social Sciences and Cultures, Education and Society. The research topics are therefore briefly defined as follows:</p> <ul style="list-style-type: none">• <i>Globalization processes;</i>• <i>Sustainable territorial development;</i>• <i>Food and territory;</i>• <i>Migration processes;</i>• <i>Processes of financialisation of society;</i>• <i>Economy and sustainability;</i>• <i>Work and social change;</i>• <i>Modern and contemporary history and stories;</i>• <i>World History;</i>• <i>Cultural studies;</i>• <i>Media studies;</i>• <i>Gender studies;</i>• <i>Post-colonial studies;</i>• <i>Conversation analysis in institutional settings;</i>• <i>Comparative discourse analysis;</i>• <i>Linguistic analysis applied for didactic-methodological purposes;</i>• <i>Political systems, parties, movements and interest groups;</i>• <i>Welfare and social services;</i>• <i>Politics, community and religions;</i>• <i>Development and legality;</i>• <i>Psychological disciplines;</i>• <i>Prejudice and social relations;</i>• <i>Supranational integration processes;</i>• <i>Citizenship Studies;</i>• <i>Models of administration, change and public policies;</i>• <i>Social philosophy;</i>



	<ul style="list-style-type: none"> <i>Data Analytics Techniques Applied to Socio-Political Phenomena.</i> 	
Participation Requirements	<ul style="list-style-type: none"> - Degree (before Ministerial Decree 509/1999) or Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004); - Equivalent qualification obtained from legally recognized foreign universities. 	
Admission Procedures	<ul style="list-style-type: none"> - Assessment Qualification - Written test (consisting of an essay and an English language test) - Oral exam. 	
Admission Procedure - reserved position - Administrative Category 979	<ul style="list-style-type: none"> - Assessment Qualification - Oral exam. 	
Assessable Qualification	<p>They represent securities subject to evaluation:</p> <ul style="list-style-type: none"> - Curriculum vitae and Studiorum (CV); - (Any) Scientific publications relating to the SSDs of the doctorate; - Research proposal of max 4,500 characters (9,000 for candidates competing for the position reserved for students with qualifications obtained abroad or for the position reserved for candidates deprived of personal freedom) including spaces and any bibliography. Proposals exceeding or not respecting the indicated parameters will not be accepted/evaluate. A standard format for carrying out the project can be downloaded from the PhD website at the following address https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca 	
Assessment Criteria	Maximum score 90 points	
	Assessment Qualification	Maximum score 30 points
	CV	Maximum score 10 points
	Publications (if any)	Maximum score 5 points
	Research project	Maximum score 15 points
	<p>Written test (consisting of an essay and an English language test) Procedure:</p> <ul style="list-style-type: none"> - Theme concerning general aspects of all the research topics of the doctorate: maximum score 20 points; - English language test (level B2): maximum score 10 points. <p>Candidates will be presented with three envelopes each containing an essay and an English language test: two candidates drawn at the moment will choose one of the envelopes which will be opened in public. The test will last a total of four (4) hours.</p>	Maximum score 30 points
<p>Oral exam Procedure:</p>	Maximum score 30 points	



	<p>During the interview, the qualifications, the topic covered and the research project presented will be discussed with each candidate.</p> <p>Part of the interview will be held in English.</p> <p>The Commission reserves the right to have part of the interview carried out in Italian (for candidates who speak another mother tongue).</p>			
	Minimum score for access to subsequent tests and for passing the interview: 21 points.			
Assessment Criteria - reserved position - Administrative Category 979	Maximum score 60 points			
	Assessment Qualification	Maximum score 30 points		
	CV	Maximum score 10 points		
	Publications (if any)	Maximum score 5 points		
	Research project	Maximum score 15 points		
	Oral exam Procedure: during the interview the qualifications and the research project presented will be discussed with each candidate. Part of the interview will be held in English. The Commission reserves the right to have part of the interview carried out in Italian (for candidates who speak another mother tongue).	Maximum score 30 points		
	Minimum score for access to the oral test and for passing the interview: 21 points.			
Positions and Fellowships	<p>4 (four) positions, with fellowship financed by the University, of which:</p> <ul style="list-style-type: none"> - 3 (three) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 23, 2024		https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca
	Written test	July 26, 2024	9.30 a.m.	Room SSP1 (cube 1A), Department of Political and Social Sciences



				University of Calabria Arcavacata di Rende (CS)
	Oral exam	July 31, 2024	10.00 a.m.	Classroom "G. Arrighi", (cube 0B, ground floor), Department of Political and Social Sciences University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca			
Agenda - reserved position - Administrative Category 979	Test	Date	Time	Place
	Results of Assessment Qualification	July 23, 2024		https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca
	Oral exam	July 31, 2024	9.00 a.m.	Classroom "G. Arrighi" (cube 0B, ground floor), Department of Political and Social Sciences University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca			
Contact details for information	E-mail: doctoratepcs.spes@unical.it			
PhD Course website	https://dispes.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca			



PhD Course in “Geology, Engineering and Science of Sustainable Earth and Energy Transition”

Coordinator	Prof. Salvatore Critelli - Environmental Engineering Department (DiAM) - Via Pietro Bucci - Cubo 45/A, 87036 Arcavacata di Rende (CS) Tel.: + 39 0984.496760 - e-mail: salvatore.critelli@unical.it - SSD: GEO/02
Duration	3 years
Main Department	Department of Environmental Engineering (DiAM)
Other Departments involved	Department of Mechanical, Energy and Management Engineering (DIMEG) Department of Biology, Ecology and Earth Sciences (DiBEST) physics department Department of Civil Engineering (DInCi) Department of Chemistry and Chemical Technologies (CTC) Department of Cultures, Education and Society (DiCES)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 01: MAT/07; CUN Area 02: FIS/01, FIS/07, FIS/08; CUN Area 03: CHIM/06, CHIM/07; CUN Area 04: GEO/01, GEO/02, GEO/04, GEO/05, GEO/06, GEO/07, GEO/08, GEO/09, GEO/10, GEO/11; CUN Area 08: ICAR/01, ICAR/02, ICAR/07, ICAR/08, ICAR/09, ICAR/20; CUN Area 09: ING-IND/22, ING-IND/27, ING-IND/33; CUN Area 10: L-ANT/09.
Research Topics	The doctorate aims to develop skills in the fields of environmental geology and engineering, natural risks, georesources, large infrastructures and energy transition, basic and applied sciences to environmental sustainability. In particular: <ul style="list-style-type: none"> • Modeling and simulation of complex systems; • Measuring equipment and sensors; • Natural resources and risks, soil and environmental protection and pollution; • Geological evolution, geological processes and models, and resource geology; • Territory, architecture and buildings; • Energy, innovative materials and industrial transformations.
Participation Requirements	- Master's Degrees (ex DM 270/204): LM-4 Architecture and building engineering-architecture, LM-4 R Architecture and building engineering-architecture, LM-4 cu Architecture and building engineering-architecture (five-year) LM-10 Conservation of architectural and environmental assets, LM-17 Physics, LM -17 R Physics, LM-18 Computer Science, LM-22 Chemical Engineering, LM-22 R Chemical Engineering, LM-23 Civil Engineering, LM-23 R Civil Engineering, LM-24 Building Systems Engineering, LM-26 Safety Engineering , LM-26 R Safety Engineering, LM-30 Energy and Nuclear Engineering. LM-30 R Energy and nuclear engineering, LM-34 Naval engineering, LM-35 Environmental and territorial engineering, LM-35 R Environmental and territorial engineering, LM-40 Mathematics, LM-40 R Mathematics , LM-44 Mathematical-physical modeling for engineering, LM-44 R Mathematical-



	<p>physical modeling for engineering, LM-48 Urban and environmental territorial planning, LM-48 R Urban and environmental territorial planning, LM-53 Science and materials engineering, LM-54 Chemical sciences, LM-54 R Chemical sciences, LM-60 Natural sciences, LM-60 R Natural sciences, LM-69 Agricultural sciences and technologies, LM-69 R Agricultural sciences and technologies, LM -71 Industest chemistry sciences and technologies, LM-71 R Industest chemistry sciences and technologies, LM-72 Navigation sciences and technologies, LM-72 R Navigation sciences and technologies, LM-73 Forestry and environmental sciences and technologies, LM -73 R Forestry and environmental sciences and technologies, LM-74 Geological sciences and technologies, LM-74 R Geological sciences and technologies, LM-75 Environmental and territorial sciences and technologies, LM-75 R Forestry and environmental sciences and technologies environment and territory, LM-79 Geophysical sciences, LM-79 R Geophysical sciences, LM-80 Geographical sciences, LM-80 R Geographical sciences, LM Sc. Mat. Materials Sciences, LM-53. Materials engineering.</p> <p>- Degree (before Ministerial Decree 509/1999) or Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004): 28/S (specialist in civil engineering), 33/S (specialist in energy and nuclear engineering), 37 /S (specialists in naval engineering), 38/S (specialists in environmental and territorial engineering), 45/S (specialists in mathematics), 50/S (specialists in mathematical-physical modeling for engineering), 54/S (specialists in urban, environmental and territorial planning), 61/S (specialists in materials science and engineering), 62/S (specialists in chemical sciences), 68/S (specialists in natural sciences), 77/S (specialists in agricultural sciences and technologies), 80/S (specialists in science and technologies of navigation systems), 82/S (specialists in sciences and technologies for the environment and the territory), 85/S (specialists in geophysical sciences), 86/S (specialists in geological sciences).</p> <p>- Equivalent qualification obtained from foreign universities, legally recognised.</p>	
Admission Procedures	<p>Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.</p>	
Assessable Qualification	<p>- Curriculum Vitae and Studiorum (CV); - Research project composed of a minimum of 3 pages and a maximum of 6 pages, containing a brief state of the art, the description of the research objectives that are intended to be pursued during the doctorate, the main contributions and/or innovations of the research itself; - Any scientific and technical reports and publications.</p>	
Assessment Criteria	Maximum overall score 60 points	
	Assessment Qualification	Maximum score 30 points
	Research project	Maximum score 20 points
	Curriculum Vitae and Studiorum (CV)	Maximum score 5 points
	Scientific and technical reports and publications	Maximum score 5 points
Oral exam	Maximum score 30 points	



	<p>Procedure: The oral exam will focus on the contents of the project presented. The candidate's skills for carrying out the doctoral project and motivations for scientific research will also be assessed. The candidate must also demonstrate knowledge of a foreign language.</p>			
	Minimum score for access to the oral test and for passing the interview: 21 points			
Positions and Fellowships	<p>3 (three) positions, with fellowship financed by the University, of which:</p> <ul style="list-style-type: none"> - 2 (two) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 23, 2024		https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/
	Oral exam	July 29, 2024	9.00	Seminar room (cube 45A pt), Department of Environmental Engineering University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/			
Contact details for information	salvatore.critelli@unical.it ; tel.: +39 0984.496760; marinella.tedeschi@unical.it ; tel.: +39 0984.496650.			
PhD Course website	https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/			



PhD Course in “Physical, Chemical and Materials Sciences and Technologies”

Coordinator	Prof. Gabriella Cipparrone - Department of Physics - Via Pietro Bucci - Cubo 33/B, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.496115 - e-mail: gabriella.cipparrone@fis.unical.it - SSD: FIS/03
Duration	3 years
Main Department	Physics department
Other Departments involved	Department of Chemistry and Chemical Technologies (CTC) Department of Computer Science, Modelling, Electronics and Systems Engineering (DIMES)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 02: FIS/01, FIS/02, FIS/03, FIS/05, FIS/06, FIS/07; CUN Area 03: CHIM/01, CHIM/02, CHIM/03; CUN Area 08: ICAR/08.
Research Topics	<p>The doctoral course is divided into two curricula with the following thematic areas.</p> <p>1) “Physical sciences and technologies”. The activities of this area mainly concern the following research topics: astrophysics and plasmas, geophysics, condensed matter physics and quantum physics, physics of complex systems and continuum mechanics, physics of biological systems, high energy physics, in their experimental, theoretical and computational aspects.</p> <p>2) “Advanced materials: chemistry and technologies”. The activities of this area mainly concern the following research topics: science and technology of advanced, polymeric, composite, multifunctional, hybrid and nanostructured materials and systems (membranes, interfaces, etc.). Meaning the study of materials in terms of structure and properties, design, production processes, use and characterization, with the aim of developing materials and methods for energy conversion and storage, technologies for the protection of cultural heritage , photonics, sensors, health, anti-counterfeiting and security.</p>
Participation Requirements	<ul style="list-style-type: none">- Degree (before Ministerial Decree 509/1999) or Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004).- Equivalent qualification obtained from legally recognized foreign universities.
Admission Procedures	Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.
Assessable Qualification	<ul style="list-style-type: none">- Curriculum Vitae et Studiorum (CV), Bachelor's and Master's degree certification, with analytical list of exams taken and related grades.- Research project- Any publications.



Assessment Criteria	Maximum overall score 60 points			
	Assessment Qualification			Maximum score 30 points
	Research project			
	Course of studies plus any previous research experience			
	Any publications			Maximum score 30 points
	Oral exam Procedure: interview based on the research project and any qualifications presented			
Minimum score for access to the oral test and for passing the interview: 21 points.				
Positions and Fellowships	<p>4 (four) positions, with fellowship financed by the University, of which:</p> <ul style="list-style-type: none"> - 2 (two) administrative category 999 without reserved positions, on the topics of the “Physical sciences and technologies” area; - 1 (one) administrative category 999 without reserved positions, on the topics of the “Advanced materials: chemistry and technologies” area; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 25, 2024		https://fisica.unical.it/contents/news/list
	Oral exam	July 29, 2024	9.00	Seminar Room, Department of Physics University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://fisica.unical.it/contents/news/list			
Contact details for information	Dr. Chiara Perri tel.: + 39 0984.494006 E-mail: chiara.perri@fis.unical.it			
PhD Course website	https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/			



PhD Course in “Economic and Business Sciences”

Coordinator	Prof. Fabio Piluso - Department of Business and Legal Sciences (DiScAG) - Via Pietro Bucci - 87036 Arcavacata di Rende (CS) - Tel.: +39 0984.492848 - e-mail: fabio.piluso@unical.it - SSD: SECS-P/11	
Duration	3 years	
Main Department	Department of Economics, Statistics and Finance "Giovanni Anania" (DESF)	
Other Departments involved	Department of Business and Legal Sciences (DiScAG)	
CUN Areas and Scientific Disciplinary Sectors	CUN Area 01: MAT/09; CUN Area 13: SECS-P/01, SECS-P/02, SECS-P/03, SECS-P/05, SECS-P/06, SECS-P/07, SECS-P/08, SECS-P/ 11, SECS-S/01, SECS-S/04, SECS-S/06; CUN Area 14: SPS/10	
Research Topics	The Doctorate in Economic and Business Sciences aims to develop advanced skills in both the theoretical and applied fields of economic, business, statistical and financial sciences. These skills can be applied in different fields such as: Universities, study centers and research centers of national and international institutions, research bodies for economic, statistical and financial sciences, public organizations, institutions, private companies and non-profit organizations.	
Participation Requirements	Master's Degrees (ex DM 270/204): LM-16 Finance, LM-31 Engineering Management, LM-40 Mathematics, LM-49 Design and management of tourism systems, LM-56 Economic Sciences, LM-77 Business Economic Sciences, LM-82 Statistical Sciences, LM-83 Actuarial and Financial Statistical Sciences. Specialist degrees (ex DM 509/1999): 19/S (specialists in finance), 34/S (specialists in management engineering), 45/S (specialists in mathematics), 64/S (specialists in economic sciences), 84/S (specialists in economic and business sciences), 91/S (specialists in economic, financial and actuarial statistics); Bachelor's Degrees (before Ministerial Decree 509/1999) equivalent to the Master's Degrees mentioned above pursuant to Ministerial Decree 09/07/2009. Qualification obtained from a foreign university equivalent to one of the above.	
Admission Procedures	Assessment qualifications and oral exam. During the oral test, knowledge of the English language will be tested.	
Assessable Qualification	- Curriculum Vitae et Studiorum (CV). - Research project. - Any certificates of knowledge of the English language.	
Assessment Criteria	Maximum overall score 60 points	
	Assessment Qualification	Maximum score 30 points
	Research project	Maximum score 13 points
	Curriculum Vitae et Studiorum (CV)	Maximum score 15 points
	English language proficiency certificates	Maximum score 2 points
	Oral exam	Maximum score 30 points



	Procedure: Interview on economic-business issues and the research project		
	Minimum score for access to subsequent tests and for passing the interview: 21 points.		
Positions and Fellowships	4 (four) positions, with fellowship financed by the University, of which: <ul style="list-style-type: none"> - 3 (three) administrative category 999 without reserved positions; - 1 (one) administrative category 979 reserved for candidates with an academic qualification obtained abroad. 		
Agenda	Test	Date	Hour
	Results of Assessment Qualification	July 22, 2024	
	Oral exam	July 24, 2024	9.00 a.m.
	Place Seminar room (cube 0/C; ground floor), Department of Economics, Statistics and Finance University of Calabria Arcavacata di Rende (CS).		
	The results of the exam will be posted on the website: https://desf.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/		
Contact details for information	Dr. Claudia Grimaldi – E-mail address: claudia.grimaldi@unical.it . Dr. Giovanni Doderò - E-mail address: giovanni.dodero@unical.it .		
PhD Course website	https://desf.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/		



PhD Course in "Technology Applied to Cultural Heritage" in association with the National Research Council

Coordinator	Prof. Mauro La Russa- Department of Biology, Ecology and Earth Sciences – Via Pietro Bucci - Cubo 12B, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.493535 - e-mail: mlarussa@unical.it - SSD: GEO/09
Duration	3 years
Main Department	Department of Cultures, Education and Society - DiCES
Affiliated research partner	National Research Council (Consiglio Nazionale delle Ricerche - CNR)
CUN Areas and Scientific Disciplinary Sectors	CUN Area 02: FIS/01, FIS/07, FIS/08; CUN Area 03: CHIM/06; CHIM/07 CUN Area 04: GEO/02, GEO/04, GEO/06, GEO/07, GEO/08, GEO/09; CUN Area 05: BIO/10; BIO/11 CUN Area 08: ICAR/08, ICAR/09, ICAR/19; ICAR/10; ICAR/14; ICAR/01 CUN Area 09: ING-IND/15, ING-IND/31, ING-INF/05, ING-INF/07; CUN Area 10: L-ANT/09, L-LIN/01; L-LIN/12 L-ANT/08 CUN Area 11: M-STO/08; CUN Area 14: SPS/11
Research Topics	<ul style="list-style-type: none"> ○ Methodologies for Cultural Heritage diagnostics and preservation; ○ Technologies and methods for underwater and maritime archaeology; ○ Interdisciplinary research, tools and applications for art and architecture; ○ Natural and materials sciences applied to archeology and cultural heritage; ○ Digital Heritage, Information and Communication Technologies; ○ Protection, safeguard and valorization of archival and documentary heritage; ○ Usage methods based on virtual, augmented and mixed reality; ○ Three-dimensional relief of artifacts, data processing and management also for form recognition; ○ Long term preservation and Digital Humanities.
Participation Requirements	Italian University Degree (before Ministerial Decree 509/1999) or Italian Specialist/Master's Degree (formerly Ministerial Decree 509/1999 and Ministerial Decree 270/2004). Equivalent qualification Degree obtained at legally recognized foreign universities.
Admission Procedures	Assessment of qualifications, oral examination and research project. During the oral examination, knowledge of the English language will be tested considering a level equal to or greater than B1 according to the Common European Framework of Reference for Languages (CEFR).
Admission Procedures - reserved position - Administrative Category 979	Assessment of qualifications, research project. Knowledge of the English and Italian must be certified and equal to or greater than B1 level according to the Common European Framework of Reference for Languages (CEFR).
Assessable Qualification	- Research project - Curriculum Vitae et Studiorum (CV)



Assessment Criteria	Maximum overall score 60 points			
	Assessment Qualification		Maximum score 30 points	
	Research project		Maximum score 20 points	
	Curriculum Vitae et Studiorum (CV)		Maximum score 10 points	
	Oral exam		Maximum score 30 points	
	Procedure: Project discussion and oral exam regarding PhD topics.			
	Minimum score required for admission to the subsequent tests and for passing the oral examination: 21 points			
Assessment criteria - reserved position - Administrative Category 979	Maximum overall score 30 points			
	Assessment Qualification		Maximum score 30 points	
	Research project		Maximum score 20 points	
	Curriculum Vitae et Studiorum (CV)		Maximum score 10 points	
	Minimum score required for admission: 21 points			
Positions and Fellowships	<p>4 (four) positions of which:</p> <ul style="list-style-type: none"> - 1 (one) position with fellowship financed by the University - administrative category 999 without reserved positions; - 1 (one) position with fellowship financed by the University - administrative category 979 reserved for candidates with an academic qualification obtained abroad; - 2 (two) positions with fellowship financed by the CNR - administrative category 999 without reserved positions on the following research topics: <ul style="list-style-type: none"> ▪ <i>Cataloguing and identification of dismissed Calabrian mining geosites: state of conservation and enhancement proposals;</i> ▪ <i>Impact and risk analysis on cultural and natural heritage due to climate change and pollution.</i> 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualifications	July 22, 2024		https://dices.unical.it/ricerca/dottorato-di-ricerca/
	Oral exam	July 23, 2024	9.30 a.m. CEST	Classroom Nettuno (cube 17 B, ground floor 0), Department of Cultures, Education and Society University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://dices.unical.it/ricerca/dottorato-di-ricerca/			
Agenda - reserved position - Administrative Category 979	Test	Date	Time	Place
	Results of Assessment Qualifications	July 22, 2024		https://dices.unical.it/ricerca/dottorato-di-ricerca/
	The results of the exam will be posted on the website: https://dices.unical.it/ricerca/dottorato-di-ricerca/			



Contact details for information	labdoc@unical.it
PhD Course website	https://dices.unical.it/ricerca/dottorato-di-ricerca/



PhD Course in “Theory and Practice of Law”

Coordinator	Prof. Enrico Caterini- Department of Business and Legal Sciences - Via Pietro Bucci - Cubo 3B, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.492222 - e-mail: enrico.caterini@unical.it - SSD: IUS/01	
Duration	3 years	
Main Department	Department of Business and Legal Sciences	
CUN Areas and Scientific Disciplinary Sectors	CUN Area 12: IUS/01, IUS/02, IUS/04, IUS/05, IUS/07, IUS/08, IUS/09, IUS/10, IUS/11, IUS/12, IUS/13, IUS/ 15, IUS/16, IUS/17, IUS/18, IUS/20, IUS/21;	
Research Topics	Sustainability, artificial intelligence, crisis and ecological transition.	
Participation Requirements	<ul style="list-style-type: none"> - Master's Degrees (ex DM 270/204): - LMG/01 Class of master's degrees in law, LM-52 International relations, LM-63 Public administration sciences, LM/SC Criminological sciences applied to investigation and security, LM/ SC-GIUR Legal Sciences; - Specialist degrees (ex Ministerial Decree 509/1999): 22/S (specialists in law), 102/S (specialists in theory and techniques of regulation and legal information), LMG/01 (LAW); - Bachelor's Degrees (before Ministerial Decree 509/1999) equivalent to the Master's Degrees mentioned above pursuant to Ministerial Decree 07/09/2009; - Equivalent qualification obtained from legally recognized foreign universities. 	
Admission Procedures	Assessment qualifications, written test and oral test. During the oral test, knowledge of the chosen language will be tested.	
Admissione Procedures - reserved position - Administrative Category 979	<ul style="list-style-type: none"> - Assessment Qualification; - Oral exam. 	
Assessable Qualification	<ul style="list-style-type: none"> - Research project - Curriculum Vitae et Studiorum (CV) - Scientific publications 	
Assessment Criteria	Maximum overall score 90 points	
	Assessment Qualification	Maximum score 30 points
	Research project	Maximum score 9 points
	Curriculum Vitae et Studiorum (CV)	Maximum score 14 points
	Scientific publications	Maximum score 7 points
Written test	Maximum score 30 points	
Procedure: development of a theme demonstrating the ability to analyze and synthesize, clarity of presentation, coherence of argument, originality.		
Oral exam	Maximum score 30 points	



	Procedure: discussion on the project and written test. Verification of knowledge of the chosen language.			
	Minimum score for access to subsequent tests and for passing the interview: 21 points			
Assessment Criteria - reserved position - Administrative Category 979	Maximum score 60 points			
	Assessment Qualification		Maximum score 30 points	
	Research project		Maximum score 10 points	
	Curriculum Vitae et Studiorum (CV)		Maximum score 20 points	
	Oral exam		Maximum score 30 points	
Procedure: project discussion and interview on the disciplines related to the doctorate. Verification of knowledge of the Italian language.				
	Minimum score for access to the oral test and for passing the interview: 21 points			
Positions and Fellowships	4 (four) positions of which: <ul style="list-style-type: none"> - 3 (three) positions with fellowship financed by the University - administrative category 999 without reserved positions; - 1 (one) position with fellowship financed by the University administrative category 979 reserved for candidates with an academic qualification obtained abroad; 			
Agenda	Test	Date	Time	Place
	Results of Assessment Qualification	July 22, 2024		https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/
	Written test	July 24, 2024	10.00	Room EP1 (1D cube), Department of Business and Legal Sciences University of Calabria Arcavacata di Rende (CS)
	Oral exam	July 29, 2024	10.00	Sacomanno Hall (cube 3B, 4th floor), Department of Business and Legal Sciences University of Calabria Arcavacata di Rende (CS)
	The results of the tests will be published on the site: https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			
	Test	Date	Time	Place



Agenda - reserved position - Administrative Category 979	Results of Assessment Qualification	July 22, 2024		
	Oral exam	July 29, 2024	9.00	TELEMATICS Microsoft Teams platform, specific channel, with subsequent access instructions.
	The results of the exam will be posted on the website: https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			
Contact details for information	Dr. Claudia Grimaldi: claudia.grimaldi@unical.it			
PhD Course website	https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			



ANNEX B

DECLARATION IN SUBSTITUTION OF THE NOTATORY DEED (AFFIDAVIT)
(Art. 47 Presidential Decree no. 445/2000)*

The undersigned _____ tax code: _____ place of birth
_____ date of birth _____ Gender M/F residence (city) _____ prov. ____ street
_____ n. ____ postal code _____ e-mail address _____ telephone _____ aware of the provisions
of the art. 76 of the Presidential Decree of 28 December 2000, n. 445, on the criminal liability to which he/she be subject in the
event of falsification of documents and false declarations, pursuant to and for the purposes of the aforementioned Presidential
Decree no. 445/2000, and under their own personal responsibility:

DECLARES

to be in possession of the following access title (qualification) in accordance with art. 2 of the call for UniCal PhD public selection:
(indicate precisely: exact name of the course, date of obtaining the qualification and grade, University, list of exams with grades if
requested and for candidates not yet in possession of the entrance qualification)

Degree _____ achieved on date _____
with a vote _____ at _____
list _____ of _____ exams _____ and _____ grades _____ (if
any) _____

Please attach a copy of the following identity document:

The undersigned also declares that he/she is informed, pursuant to and for the purposes of Legislative Decree no. 196 of 2003 and
Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 that the personal data collected will be
processed, including with IT tools, exclusively within the scope of the procedure for which this declaration is made.

Place and date, _____

The declarant

*This declaration may concern states, personal qualities or facts that are of direct knowledge of the interested party as well as states,
personal qualities and facts relating to other subjects of which the same person has direct knowledge.
This declaration must prove any qualifications (e.g. qualifications, exams taken, professional qualifications held, specialization
qualifications, qualifications, etc.) that are not attached to the application, self-certifying them.
For the qualifications that are attached (e.g. deeds and documents issued by a Public Administration, copies of publications; copies of
parchments or certificates of study or service qualifications, etc.) you must, in the same declaration, declare that they comply to the
original.
Finally, you have date, sign and attach a copy of a valid identification document.

NBThe signing of the above-mentioned declarations is not subject to authentication if it is signed in the presence of the employee in
charge. If this declaration is sent or presented directly by a person other than the candidate, a photocopy, front and back, of an identity
document of the signatory must also be produced. Only identity documents with a photograph and issued by a valid state
administration will be considered valid.