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NextGenerationEU



Rector's Decree

Call for public selection for admission to PhD courses - XXXIX cycle – Academic Year 2023/2024, with awarding PhD fellowships funded by the NextGenerationEU programme - National Recovery and Resilience Plan (PNRR).

The Rector

HAVING REGARD to the University Statute of Autonomy;

HAVING REGARD to the University General Regulations;

HAVING REGARD to the University Teaching Regulations;

HAVING REGARD to the University Administration and Accounting Regulations;

HAVING REGARD to the University PhD Regulations;

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

HAVING REGARD to the Law no° 240 of 30th 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 5th February 1992, as supplemented and amended by the Law no° 17 of 28th January 1999;

HAVING REGARD to the Republic Presidential Decree no° 445 of 28th December 2000;

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

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

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

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

HAVING REGARD to the Ministerial Decree no° 247 of 23rd February 2022, which increased the gross annual amount of the PhD fellowship;

HAVING REGARD to the Rector's Decree no° 374 of 1st March 2022, which issued the "Fees, Contributions and Exemptions Regulations", updated for the academic year 2023/2024 by the University Board of Directors in date 28th February 2023;

HAVING REGARD to the provisions of the Italian Ministry of Universities and Research (MUR), concerning the Procedures for Entry, Residency and Enrolment of Foreign/International students in Higher Education Courses in Italy for the academic year 2023/2024, available at the link: <https://www.studiare-in-italia.it/studentistranieri/>;

HAVING REGARD to the Law no° 33 of 12th April 2022 relating to the Provisions concerning simultaneous enrolment in two courses of higher education;

HAVING REGARD to the National Recovery and Resilience Plan (PNRR) document;



WHEREAS the PNRR is part of the Next Generation EU (NGEU) economic recovery project, developing around three strategic axes shared at European level - Digitisation and Innovation, Ecological Transition, Social Inclusion - and along six Missions, including Mission 4 "Education and Research";

ESTABLISHED that the Mission 4, Component 2 "From Research to Enterprise" intends to strengthen research and foster the dissemination of innovative models for basic and applied research conducted in synergy between universities and businesses; supporting innovation and technology transfer processes; enhancing research infrastructure, capital and innovation support skills;

ESTABLISHED that Component 2 of Mission 4 provided four types of investment, including:

- "Strengthening of the research structures for the creation of "National R&D Champions" on some "Key Enabling Technologies" (National Centres);
- "Creation and strengthening of "Innovation Ecosystems", building "territorial R&D leaders" (Innovation Ecosystems);
- "Partnerships extended to universities, research centres, companies to finance basic research projects" (Extended Partnerships);

HAVING REGARD to the Ministerial Decree no° 3138 of 16th December 2021 on the Public Notice for the Submission of Proposals for intervention for the Strengthening of research structures/facilities and the creation of "National R&D Champions" on some "Key Enabling Technologies" to be financed under the PNRR, Mission 4 Component 2 - Investment 1.4 - Strengthening research facilities and creation of "National R&D Champions" on some "Key Enabling Technologies" - funded by the European Union - NextGenerationEU (NC Notice);

WHEREAS the University participated in the NC Notice with the project "National Centre for HPC, Big Data and Quantum Computing" - HPC (Identification Code CN0000013), approved by the MUR with Concession Decree no° 1031 of 17th June 2022;

HAVING REGARD to the Ministerial Decree no° 3277 of 30th December 2021 on the Public Notice for the Submission of Proposals for action for the creation of 12 "Innovation Ecosystems" on the national territory to be financed under the PNRR, Mission 4 Component 2 - Investment 1.5 - Creation and strengthening of "Innovation Ecosystems", construction of "territorial R&D leaders" - funded by the European Union - NextGenerationEU (ECS Notice);

WHEREAS the University participated in the ECS Notice with the project "Technologies for climate change adaptation and quality of life improvement - Tech4You" (Identification Code ECS_0000009), approved by the MUR with Concession Decree no° 1049 of 23rd June 2022;

HAVING REGARD to the Ministerial Decree no° 341 of 15th March 2022 on the Public Notice for the Submission of Proposals for action for the creation of "Partnerships extended to universities, research centres, companies for the financing of basic research projects" - under the PNRR, Mission 4 "Education and Research" - Component 2 - Investment 1.3, funded by the European Union - NextGenerationEU (EP Notice);

WHEREAS the University participated in the EP Notice, among other things, with the project "Security and Rights in the Cyberspace - SERICS" (Identification Code PE0000014), approved by the MUR with Concession Decree no° 1556 of 11th October 2022 and with the project "Future Artificial Intelligence Research - FAIR" (Identification Code PE0000013), approved by the MUR with Concession Decree no° 1555 of 11th October 2022;

HAVING REGARD to the "Guidelines for reporting to the actors implementing the Mission 4 Component 2 system initiatives" and the "Guidelines for information and communication actions by the actuators";



HAVING REGARD to the CUP numbers generated by the University of Calabria for the aforementioned funding:

- HPC: H23C22000360005;
- Tech4You: H23C22000370006;
- FAIR: H23C22000860006;
- SERICS: H73C22000880001;

HAVING REGARD to the resolutions of the Board of Directors, held on 29th November 2022, 28th February 2023 and 30th May 2023, which authorised the call for proposals for PhD fellowships financed in the framework of the PNRR as indicated in the Annex A for each PhD course;

HAVING REGARD to the Ministerial Decree no° 118 of 2nd March 2023 awarding doctoral fellowships on the PNRR, Mission 4, Component 1, "Strengthening the offer of education services: from kindergartens to the University" - Investment 3.4 "Teaching and advanced university skills" and Investment 4.1 "Extension of the number of PhD and Innovative PhD for Public Administration and Cultural Heritage", by virtue of which the University of Calabria awarded funding for PhD fellowships for macro-areas "Digital and Environmental Transitions", "PNRR", "Public Administration" and "Cultural Heritage";

HAVING REGARD to the note of MUR prot. no° 3992 of 2nd March 2023 on "Computerized procedure for the accreditation of PhD Courses - XXXIX cycle. Opening note";

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 14th December 2021, no° 226" issued with Ministerial Decree no° 301 of 22nd March 2022;

HAVING REGARD to the decisions of the Departments of reference of the University's PhD courses, concerning the approval of the renewal of courses for the academic year 2023/2024 - XXXIX cycle;

HAVING REGARD to the resolutions of the Academic Senate and the Board of Directors, held on 23rd and 30th May 2023 respectively, on the renewal and activation of PhD courses for the XXXIX cycle;

HAVING REGARD to the Rector's Decree no° 717 of 1st June 2023 by which the PhD fellowships referred to in Ministerial Decree no° 118 of 2nd March 2023 were distributed;

WHEREAS the measures financed by the above decrees must be:

- a) coherent with the objectives and objectives of Regulation (EU) 2021/241, with the general strategy and the Detail Sheet of the PNRR Component;
- b) aimed at the achievement of the results measured in relation to the milestones and targets that may be assigned to the Investment within the terms set by the Plan;
- c) in accordance with the principle "not causing significant damage" (DNSH) pursuant to article 17 of Regulation (EU) 2020/852, in line with the technical guidelines prepared by the European Commission (Communication of the European Commission 2021/C58/01);
- d) to address and bridge gender inequalities;
- e) in support of the participation of women and young people, also in line with the provisions of Decree-Law no° 77 of 31st May 2021 (c.d. Simplification Decree), as amended by conversion Law no° 108 of 29th July 2021, concerning the management of the PNRR;

HAVING REGARD to the letters of commitment and/or the agreements concluded between the University of Calabria and the external bodies for the financing of research PhD fellowship of the XXXIX cycle;

CONSIDERING that the actual allocation of the PhD fellowships referred to in Ministerial Decree no° 118/2023 is subject to the outcome of the required eligibility checks of the MUR and ANVUR;



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ASCERTAINED the financial available resources under the above PNRR projects for the coverage of the PhD fellowships referred to in this call;

ASCERTAINED the financial available resources relative to the PhD fellowships financed by the University of Calabria on the relevant item of the single budget of the University of Calabria of annual forecast authorizatory 2023;

ASCERTAINED the financial available resources of the Departments concerned the financing of the research amount, equal to at least 10% of the cost of the PhD fellowship, intended to finance research activities for PhD candidates;

WHEREAS, pursuant to Ministerial Decree no° 226/2021, cited above, PhD courses are activated after accreditation granted by the Ministry on the favourable assent of ANVUR;

CONSIDERING necessary to provide, pending the conclusion of the procedure for the renewal of the abovementioned accreditation, for the issuing of the call for the selection notice for admission to PhD courses - XXXIX cycle – academic year 2023/2024 with administrative headquarters at the University of Calabria;

DECREES

Art. 1 Call for public selection for admission to PhD courses

1. The University of Calabria announces the call for public selection for admission to PhD courses for the academic year 2023/2024 - XXXIX cycle and the award of n. 94 PhD fellowships.

The PhD fellowships of this call for proposals are funded by the University, external bodies, Ministerial Decree no° 118 of 2nd March 2023 and research projects under the National Recovery and Resilience Plan (PNRR) of the programme by the European Union NextGenerationEU, as specified in Annex A "Analytical Cards Doctoral Courses XXXIX cycle – Academic Year 2023/2024" which is an integral and substantial part of this call.

2. This call will be published on the website of the Ministry of Universities and Research, on the European website Euraxess and on the portal of the University of Calabria at the link: https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_PhD-Research.html and has the value of full notification.

3. For each PhD course, the information related to the Coordinator, the duration, the proposing Department (any other Departments involved), the CUN Areas and the Disciplinary Scientific Areas of reference, the research topics or the curricula of the course, the requirements for participation, the procedures for admission, the titles to be attached to the application for participation, the criteria for evaluating the tests, the number of positions and PhD fellowships with details of the funders and the research objectives/themes, also in relation to the individual curricula, if any, the diary of the tests, the possible contact for information and the course website, are reported in Annex A.

4. The positions financed by the funds of the Ministerial Decree no° 118/2023 are banished under condition of the approval of the ministerial financing. The doctoral PhD fellowships are activated within the framework of the subjects listed in the aforementioned decree and in compliance with the eligibility criteria set out in Ministerial Decree no° 118/2023.

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

6. Any changes, updates or additions to the content of this call will be announced, exclusively, with the publication on the portal of the University of Calabria at the link https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_doctorate-di-ricerca.html.

Any personal communications to candidates relating to this notice will be made by e-mail. For this purpose, the e-mail address indicated by the candidate in the online application shall be used. The University assumes



no responsibility for the dispersion of communications dependent on inaccurate indications of personal contact details by the candidate or by failure or late communication of their change, nor by electronic errors.

7. 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 call, in the University's Regulations on PhD and the Regulations on the source of funding under the National Recovery and Resilience Plan.

8. The start date of the PhD courses of the XXXIX cycle is set at 1st November 2023.

Art. 2 Admission Requirements

1. They can apply for participation in the selection of admission to the PhD courses referred to in the previous art. 1, without limitation as to age and/or nationality, persons who holds one of the following qualifications:

- a. Diploma of Degree (ex ante Ministerial Decree 509/1999);
- b. Master's Degree/Master's Degree (Ministerial Decree 509/1999 and Ministerial Decree 270/2004);
- c. Second level academic qualification issued by the institutions belonging to the AFAM sector;
- d. Degree obtained at foreign universities, legally recognized, provided that comparable duration, level and disciplinary field to the Italian qualification that allows access to the course.

Access to this call for selection of some of the PhD courses foresees the possession of specific master/specialist degrees (or equivalent), as indicated in the Annex A of this call.

2. Candidates who will achieve the title degree required in the paragraph 1 by the date of enrolment in the PhD course may also apply for participation in the admission notice. If the candidate is a PhD winner, he will be admitted "with reservation" and must submit, by the date of registration for the PhD course, by e-mail to dottorati@unical.it, the self-certification relating to the achievement of the title with attached copy of valid identity document. Failure to obtain the title within the indicated deadline will result in exclusion from the ranking list of merit.

3. Candidates who:

- previously have received a PhD fellowship or a fraction thereof;
- have already obtained a PhD.

may not apply for participation in this call.

Art. 3 Qualification obtained abroad

1. The suitability of the qualification obtained at foreign universities is ascertained, only for the purposes of admission to this selection, by the Selection Boards in compliance with the legislation in force in Italy and in the country where the qualification was issued, and treaties or international agreements on the recognition of qualifications for further studies.

2. In this case, applicants must submit, in the manner indicated in Article 4 below, the degree certificate, indicating the examinations taken and the study plan followed, both first and second level. The candidate can also attach the diploma supplement or the declaration of value on site or certificate of comparability issued by CIMEA or other ENIC-NARIC centers and any other documentation useful to assess the eligibility of the title held for the chosen PhD course. These documents, if they are not written in Italian or English, must be accompanied by a sworn translation in Italian or English. The Selection Boards will assess the eligibility of the foreign qualification on the basis of the documentation submitted and therefore may exclude the candidate even if there is insufficient evidence for the evaluation. Candidates holding a foreign qualification are admitted to the selection with reservation, which can be dissolved only when, if winners, will produce the diploma supplement or declaration of value on site or certificate of comparability CIMEA or other ENIC-centers NARIC, as provided by art. 8.



Art. 4 Application for Admission

1. The application for selection must be submitted using only the appropriate online procedure available on the page: <https://unical.esse3.cineca.it/>.
 2. The electronic procedure for the submission of the application for online admission will be closed at **12:00 a.m.** (midday, Italian time) on **15th July 2023**.
 3. The telematic procedure provides for preliminary registration for those who are not in possession of a student matriculation of the University of Calabria, in order to obtain credentials allowing access to the next step of filling in the application for admission to selection.
 4. Candidates who are already registered must access the Reserved Area using their existing credentials. Candidates are invited to update the data already present in the register, in particular the place of residence, the telephone number and the e-mail address, which will be delivered any communications related to the competition.
 5. The application for admission to the selection is deemed to have been correctly submitted only after the completion of the electronic procedure and can no longer be modified online.
 6. The date of submission of the application for admission to the selection shall be certified by the computerised system which, at the end of the deadline for submission, will no longer allow access to and submission of the application.
 7. There is no payment of an admission fee.
 8. The online admission procedure requires the upload of the following documents in pdf format:
 - self-certification (Self-Declaration Affidavit) of the right of access pursuant to art. 47 of Republic Presidential Decree 445/2000 (Annex B) exclusively for academic qualifications obtained in U.E countries;
 - documentation required for the evaluation of candidates with an academic qualification obtained abroad;
 - self-certification of exams taken during the academic career for candidates not yet in possession of the title qualification;
 - research project, of a maximum length of 16,000 characters (including spaces), unless otherwise required in the PhD course schedule to which the candidate intends to participate in, in compliance with the specifications set out in Annex A;
 - the candidate's curriculum vitae et studiorum;
 - a copy, front/back, of a valid identity document;
 - a copy of the Italian tax code, exclusively for Italian candidates;
 - any additional title qualification that are subject to evaluation, as specified in "Annex A" to this call.
 9. All 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; exceptionally, any documentation that the candidate should not be able to attach can be sent by certified e-mail (PEC) to the address amministrazione@pec.unical.it or delivered by hand to the Protocol Office of the Central Administration, Via Pietro Bucci cubes 7-11 b, Arcavacata di Rende (CS), on weekdays from 10:00 to 12:00, always in compliance with the deadline of this notice. In addition, candidates who wish to supplement or amend the application or annexes may, in the same way, submit them, together with a signed application for admission and a photocopy of a valid identity document, within the mandatory deadline of expiry of the notice. If the annexes are not received by the deadline and in the manner indicated, only the documents entered by the computer procedure will be evaluated. The University assumes no responsibility for any telematic errors attributable to third parties.
- Applicants who wish to participate in more than one selection procedure for admission to the doctoral courses referred to in this call for proposals must submit a different application for each selection, each accompanied by the required qualifications.



10. Applications for admission to selection made in a manner other than that described above will not be considered.
11. It is the responsibility of the candidate to ensure the correct conclusion of the computer procedure; in this regard, this University declines any responsibility for any malfunctions of the computer system close to the deadline.
12. Candidates with proven disability, pursuant to Law no° 104/1992 as supplemented by Law no° 17/1999, may request, in relation to their disability, the necessary aids and any additional time for completing the test. Applicants with specific learning disabilities in accordance with Law No. 170/2010 in relation to the type of test shall be granted an additional time of 30 per cent more than that defined. Candidates with disabilities, if they intend to use the aids provided by Law no° 104/1992 as supplemented by Law no° 17/1999, must also report it during the online application, indicating the type of aid required. All candidates are admitted to the selection subject to verification of the requirements of the notice, which will be carried out pursuant to art. 43 of Republic Presidential Decree no° 445/2000. The University may, therefore, at any time order the exclusion of candidates from the selective procedure. The University, for its own institutional reasons, can also verify the veracity of the substitute declarations of certification submitted by the candidates: anyone who makes false statements is punished in accordance with the penal code and special laws on the subject.
13. The University reserves the right to adopt, even after the selection process, measures to exclude candidates who do not meet the requirements or who have not complied with the requirements of the call.

Art. 5 Selection boards

1. The Selection Boards for the admission to PhD courses shall be appointed by the Rector in accordance with the University PhD Regulations of the University of Calabria.
2. Each Selection Board shall be responsible for the entire selection procedure for applications, the preparation of the minutes, the formulation of the ranking lists and the award of PhD fellowships.
3. The composition of the individual Commissions will be published on the portal of the University of Calabria at the link https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_doctorate-di-ricerca.html.

Art. 6 Admission tests

1. Admission takes place in accordance with the modalities specified for each course in Annex A, an integral part of this decree.
2. The diary of the admissions tests, set out for each course in Annex A, shall constitute notification to the persons concerned. Any changes or additions to the exam schedule will be published exclusively on the portal of the University of Calabria at the web addresses indicated in Annex A for each course.
3. Failure to submit to the admission tests will be considered as a waiver of selection.
4. Candidates must show one of the following valid identification documents in order to take the competition tests: identity card, passport, car licence with photograph, firearms permit, identification card - with a photograph and a stamp or other equivalent signature - issued by a State Administration.
5. The selective procedure, aimed at verifying the candidate's aptitude for scientific research, consists of an evaluation of the candidates' qualifications, supplemented, in accordance with the provisions of each course in Annex A, by a written test and/or an oral test.
6. In each doctorate sheet are indicated the points available for each individual test, the award criteria and the minimum thresholds for admission to subsequent tests.
7. Each Commission shall, prior to the securities valuation operations, designate the Chairman and the Secretary of the Minutes and set the criteria for the evaluation and scoring of each individual item (research project, curriculum vitae et studiorum, any certifications, any publications, etc.). In the case of candidates



not yet in possession of a PhD qualification, the Commission will have to take into account the self-certified academic career at the time of the application in order to assess their educational background.

8. The written test, if any, must be carried out by all candidates, as a rule, in Italian, without prejudice to the possibility for the individual Commission to decide on the conduct of the topic, for all candidates, in a foreign language.

9. The oral test is public and includes the verification of knowledge of one or more foreign languages.

10. For those Courses that do not include a written test, applicants resident or domiciled abroad and all candidates who demonstrate, giving adequate reasons to the Selection Board, the impossibility to go in physical presence in the place and on the scheduled date for the oral test, to request the performance of the same electronically. In such cases, the candidate must make a request by sending a PEC (www.unical.it/pec) to the Department proposing the PhD course listed in the PhD schedule (Annex A), as well as to the e-mail address dottorati@unical.it as indicated in the PhD schedule. The application must be accompanied by a copy of a valid identification document. Applicants must ensure the use of a webcam to allow the Selection Board to identify themselves and must be available on the day and time set out in the test log in Annex A. It is up to each Commission to agree with applicants a precise time for the start of the interview. For the purposes of identification and otherwise excluded from the selective procedure, each candidate is required, before the interview begins, to identify themselves, presenting the same identity document already transmitted as an attachment to the e-mail and the online application. The lack of connection, the candidate's unavailability on the specified day or time or the failure to provide the submitted identification document constitute grounds for exclusion from the selective procedure. The University declines any responsibility for the possibility that technical reasons prevent the smooth conduct of the oral interview.

At the end of the evaluation, the Commission, on the basis of the score reported by each candidate, prepares the merit rankings. The Commission shall draw up a separate ranking list for the positions reserved for candidates with a qualification obtained abroad, to which only candidates who have expressly requested it in their application for admission to the selection procedure shall participate. In case of non-assignment, the reserved positions will be made available as ordinary place and assigned according to the order of the general ranking of admission to the course.

11. The Commission shall then allocate the awards, taking into account the position in the ranking list, the number of awards, the subject of the research project submitted by the candidate and/or the suitability of the candidate to develop the research topic of the PhD fellowships submitted.

12. According to the national legislation in force, each candidate may not receive more than one PhD fellowship at the same time.

13. For the assignment of the posts referred to in this call, in case of equal score in the general ranking of merit, the assessment of the economic situation (ISEE of the candidate) prevails.

14. The documents relating to the competition procedure are sent to the Rector by the Selection Board.

15. Candidates shall be granted access to the documentation of the insolvency proceedings, in accordance with current legislation.

Art. 7 Admission to PhD courses

1. The Rector approves the acts of the selections and decrees the ranking lists for the admission of candidates.

2. The ranking lists will be published on the portal of the University of Calabria 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 the courses according to the rankings drawn up by each Selection Board until the places put in competition for each doctorate are exhausted. In the event of any waiver by those



entitled before the start of the course, as many candidates will take over according to the order of the ranking drawn up by the Commission, always in compliance with the qualifications assigned. In the event of a useful placement in more than one ranking list, the candidate will have to exercise option for only one doctoral course.

5. This selection provides for the allocation only of places covered by PhD fellowship. Therefore, the renunciation of the PhD fellowship implies the renunciation of the doctoral course.

Art. 8 Registration procedures

1. The winners must register, through the procedure available at <https://unical.esse3.cineca.it/>, in the terms indicated at the same time as the publication of the Rector's Decree approving the acts of the selections. Failure to complete enrolment will result in forfeiture of the right to admission to the doctoral course.

2. The fee for attending doctoral courses, to be paid by all PhD students, includes the regional fee for the right to study, the stamp duty and the insurance premium pursuant to "Fees, contributions and exemptions regulations updated for the academic year 2023/2024", to which please refer.

3. The non-Community winners, after matriculation, must deliver to the PhD Sector of the Research, Innovation and Social Impact Area, within a reasonable period agreed with the Sector itself, a copy of the entry visa for study/university or residence permit.

4. Non-EU citizens applying for a visa must register on the University website <https://www.university.it/index.php/dashboard>, under item "International students", to apply for an entry visa. Registration is only completed upon the issue of the entry visa for study in Italy, the exclusive competence of the Italian Diplomatic Representations abroad, regardless of the suitability acquired.

Applicants with a foreign qualification admitted to the course, if they have not submitted it during the admission phase, must submit to the PhD Sector of the Research, Innovation and Social Impact Area, within a reasonable time agreed with the Sector itself, penalty blocking of the career and subsequent forfeiture, the declaration of value on the spot of the qualification, issued by the Italian Diplomatic Representation of the country to which the title refers. As an alternative to the declaration of value on the spot, it is possible to present the supplement diploma in English, issued by the same institution that issued the qualification, drawn up according to the model developed by the European Commission, by the Council of Europe and UNESCO/CEPES, or the certificate of comparability of CIMEA or ENIC-NARIC centres. If the "Declaration of Value" submitted by the candidate proves that the qualification is not valid in the country of achievement for enrolment in a course similar to the Doctorate, the interested person loses his or her doctoral course.

5. In the event of the waiver of those entitled, the remaining vacancies are assigned to those who hold a useful position in the ranking list of merit, with convocation by e-mail, pursuant to art.6 of this notice.

6. The University reserves the right to carry out appropriate checks on the veracity of the content of the winner's declarations. If the content of the statements is not true, the winner will forfeit the benefits resulting from the measure issued on the basis of the false statement.

Art. 9 PhD fellowships

1. The amount of the PhD fellowship is € 16,243.00 per year gross of the social security contributions paid by the PhD fellowship holder. The PhD fellowship is exempt from the payment of local tax on personal income and income (IRPEF) and is subject to the payment of INPS social security contributions under separate management, two thirds to be borne by the University and one third by the PhD fellowship holder. The PhD students enjoy the protection and related rights. The PhD fellowship holders will have to enroll in the separate management INPS.



2. The limit of total gross annual personal income to be eligible for the PhD fellowship is € 15,000.00. The determination of such income shall include income of property origin and emoluments of any other nature, including those of an occasional nature. The income refers to the tax period for the calendar year of the greatest use of the PhD fellowship (for the academic year 2023/2024 the year 2024). Exceeding the income limit in one of the academic years in which the PhD fellowship is used leads to the loss of the right to PhD fellowship for the year in which the income event incompatible with the grant occurred. In this case there will be an obligation to return any monthly payments already received during the academic year. La borsa di dottorato è erogata in rate con cadenza mensile posticipata, ha durata annuale ed è rinnovata annualmente per la durata del corso, a condizione che il dottorando abbia completato le attività previste nell'anno precedente e che sia stato ammesso dal Collegio dei docenti all'anno successivo.
3. PhD fellowship may not be cumulated with research grants or other PhD fellowships for any title conferred, except with those awarded by national or foreign institutions useful for supplementing training or research activities with stays abroad.
4. The amount of the PhD fellowship is increased by 50 percent for periods of stay abroad at universities or research institutes previously authorized by the Teaching Board and supported by a certificate of the Host Institution, not less than 30 consecutive days and a total of not more than 12 months, extendable up to 18 months for doctorates in co-supervision of thesis with foreign universities and for those activated in associated form pursuant to article 3, paragraph 2 of Ministerial Decree. no° 226/2021. The PhD student is required to certify the effective stay abroad, otherwise they will be refunded. The surcharge may not be applied for stays spent in the country of origin or the country of residence of doctoral candidates.

Art. 10 Rights and duties of PhD students

1. Without prejudice to the rights and obligations provided for by the current University Regulations on Doctorates and the Ministerial Decree no° 226/2021, the acceptance of the PhD fellowships financed by the PNRR implies the fulfilment of the obligations laid down in the relevant Ministerial Decrees.
2. Admission to the doctorate involves an exclusive and full-time commitment. Doctoral candidates are obliged to attend the doctoral courses with assiduity, to carry out all the study and research activities in the structures intended for this purpose and in accordance with the procedures established by the Teaching Board, to submit to the Faculty Board, at the end of each course year, 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 activities in Italy and abroad of not less than 10% of the cost of the Ministerial PhD fellowship.
4. Recipients of PhD fellowships funded by Ministerial Decree no° 118/2023 shall comply with the following obligations:
 - for PNRR research PhD fellowships: to spend a period of study and research abroad of at least six (6) months;
 - for Public Administration, Cultural Heritage, Digital and Environmental Transitions PhD fellowships: to spend a period of study and research abroad of at least six (6) months and provide periods of study and research in companies, Research centers or Public Administrations from a minimum of six (6) months to a maximum of twelve (12) months.
5. All other PhD students who have won this selection must carry out a compulsory period of study and research at public or private subjects abroad of at least ninety (90) days in the three-year period, previously authorized by the Faculty Committee.
6. The PhD students are required to read the University Regulations on Research Doctorates of the University of Calabria and to periodically consult the web portal, in particular the page <https://www.unical.it/didattica/didattica/offerta-formativa/dottorati/>.



Art. 11 Final examination and qualification

The title of Doctor of Research ("Dr. Ric. or Ph.D.") is awarded by the Rector of the University of Calabria at the end of the course following public discussion, before a Commission appointed by the Rector himself, a research thesis that contributes to the advancement of knowledge or methodologies in the chosen field of research, as provided for by the PhD University Regulations.

Art. 12 Properties of results

1. Intellectual property rights on the possible results achieved by the PhD student, including, but not limited to, software, industrial inventions that can be patented or not, know-how, models, data and data collections, are regulated in accordance with current legislation, the University Regulations and according to what is established in the individual agreements with the University, Companies or Bodies involved.
2. The PhD student has the obligation to communicate without delay to the Coordinator the achievement of the results, committing himself not to disclose them and not to use them without the prior authorization of the University. In the event that the PhD student cooperates in research groups, he or she may be invited to sign a specific commitment to the recognition of intellectual property rights and confidentiality in relation to information, data and documents of a confidential nature that you should become aware of in carrying out your activities at and/or on behalf of the University.

Art. 13 Processing of personal data

1. Pursuant to the art. 13 of the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016), applicants are informed that the processing of personal data provided by them when participating in the selection or otherwise acquired for this purpose by the University of Calabria is aimed solely at the performance of the competitive activities and will be carried out by the persons responsible for insolvency proceedings, also by the Selection Board, at the University of Calabria, with the use of procedures including computerised, in the ways and within the limits necessary to pursue the aforementioned purposes, even in case of possible communication to third parties. The provision of such data is necessary to verify the requirements for participation and the possession of securities and their non-disclosure may preclude such verification.
2. 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 selective procedure for the purposes related to the academic career management of the winners. They can also be used, in aggregate form and for statistical purposes, also by the MUR. 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 winning candidates.
3. Candidates are granted the rights referred to in Arts. 15 and ss. of the aforementioned Regulation 2016/679, in particular, the right to access their personal data, to ask for their rectification, cancellation, limitation of processing, as well as to oppose their processing, by sending requests to the University of Calabria.
Data subjects who believe that the processing of personal data referred 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 by art. 77 of the same Regulation, or to appeal to the appropriate courts (art. 79 of the Regulation).
4. All documentation and information regarding 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.



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6. The contact details of the Data Protection Officer (RDP) are: via Pietro Bucci, Cube 7/11, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 493918; email: rpd@unical.it.

Art. 14 Responsible for the proceedings

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

Art. 15 Final rules

1. As far as not explicitly specified in this selection notice, the provisions provided for by current legislation on the subject, the University Regulations on PhD Programmes, the PNRR, as well as the relevant ministerial decrees of implementation, apply.
2. This call for proposals is translated into English, but in case of disputes the legal text will be in Italian.

The Rector
Nicola Leone

Within this notice the terms relating to persons appear only in the masculine. They refer indiscriminately to women and men. Formulations respectful of gender identity have been renounced in order not to compromise the readability of the text and satisfy the need for its simplicity.

Digitally signed document according to the Digital Administration Code and related rules.



ANNEX A
Analytical Tables PhD Courses
Cycle 39th - Academic Year 2023/2024

Synthesis Available Positions				
No°	PhD Course	Coordinator	Available positions	Pages
1	In Humanities	Prof. Raffaele Perrelli	6 (six) positions with PhD fellowship of which: n. 1 position financed by the University of Calabria; n. 5 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023	15-19
2	Information and Communication Technologies	Prof. Giancarlo Fortino	11 (eleven) positions with PhD fellowship of which: n. 6 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 5 positions granted by projects financed by the PNRR	20-22
3	Civil and Industrial Engineering	Prof. Domenico Mundo	8 (eight) positions with PhD fellowship of which: n. 6 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 2 positions granted by projects financed by the PNRR	23-25
4	Life Science and Technology	Prof. Tommaso Angelone	10 (ten) positions with PhD fellowship of which: n. 6 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 4 positions granted by projects financed by the PNRR	26-29
5	Mathematics and Computer Sciences	Prof. Giorgio Terracina	11 (eleven) positions with PhD fellowship of which: n. 6 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 5 positions granted by projects financed by the PNRR	30-32
6	Translational Medicine	Prof.ssa Stefania Catalano	7 (seven) positions with PhD fellowship of which: n. 7 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023	33-34
7	Politics, Culture and Development	Prof. Francesco Raniolo	5 (five) positions with PhD fellowship of which: n. 1 position financed by the University of Calabria;	35-37



			n. 4 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023	
8	Science and Engineering of the Environment, Construction and Energy	Prof. Salvatore Critelli	9 (nine) positions with PhD fellowship of which: n. 5 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 3 positions granted by projects financed by the PNRR n. 1 position financed by the ENEA	38-40
9	Physical, Chemical and Materials Sciences and Technologies	Prof.ssa Gabriella Cipparrone	7 (seven) positions with PhD fellowship of which: n. 5 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 1 position granted by project financed by the PNRR n. 1 position financed by the INGV	41-42
10	Economic and Business Sciences	Prof. Fabio Giovanni Lamantia	6 (six) positions with PhD fellowship of which: n. 1 position (reserved to candidates with an academic qualification obtained abroad) financed by the University of Calabria; n. 5 positions granted by the D.M. 118/2023	43-44
11	Technology Applied to Cultural Heritage	Prof. Mauro Francesco La Russa	6 (six) positions with PhD fellowship of which: n. 3 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023; n. 1 position granted by project financed by the PNRR n. 2 positions financed by the CNR	45-47
12	Teoria e Prassi del Diritto (Theory and Practice of Law)	Prof. Enrico Caterini	8 (eight) positions with PhD fellowship of which: n. 1 position (reserved to candidates with an academic qualification obtained abroad) financed by the University of Calabria; n. 5 positions granted by the D.M. 118/2023 n. 2 positions granted by projects financed by the PNRR	48-50



PhD Course “In Humanities”

Coordinator	Prof. Raffaele Perrelli – Department of Humanities – st. Pietro Bucci, Cube 28/B – 87036 Arcavacata, Rende (CS) – e-mail: raffaele.perrelli@unical.it - SSD: L-FIL-LET/04	
Duration	3 years	
Main Department	Department of Humanities	
Subject Areas	<p>Area CUN 10 (AREA 10 – ANTIQUITIES, PHILOLOGY, LITERARY STUDIES, ART HISTORY): L-ANT/02, L-ANT/04, L-ANT/06, L-ART/01, 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;</p> <p>Area CUN 11 (HISTORY, PHILOSOPHY, PEDAGOGY AND PSYCHOLOGY): 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;</p> <p>Area CUN 14 (POLITICAL AND SOCIAL SCIENCES): SPS/02, SPS/08, SPS/13.</p>	
Research Topics	The PhD programme aims to educate scholars both in the more traditional and in the alternative subjects of humanities (from classical and modern literature to philosophy, from philology to history of arts, from history to the branches of communication and performing arts), comparing and contaminating the practices of philology with the historical and philosophical dimensions.	
Requirements of Participation	Italian University Degree (<i>ante</i> DM 509/1999) or Italian Specialist/ Master's Degree (<i>ex</i> DM 509/1999 and DM 270/2004) or equivalent foreign Degree.	
Application Procedures	Assessment of Qualifications, Written and Oral Examinations.	
Application Procedures for reserved access positions	Assessment of Qualifications, Oral Examinations.	
Assessable qualification (mandatory documents)	<ul style="list-style-type: none"> - Analytical <i>Curriculum Vitae et Studiorum</i> (CV), which must include the training and research activities with the title of the dissertations for the bachelor's and master's degrees or equivalent, the eventual attendance to any postgraduate courses, eventual PhD fellowships won, and eventual previous research experiences in Italy and/or abroad; - research project of 10.000 characters max., spaces included, bibliography excluded. For the selection, the candidates must present a project from which it can be discerned the propensity for research and their ability to independently plan and organize the different phases of the project; - potential publications with ISSN/ISBN code. 	
Assessment Criteria	Total Maximum Score 90/90	
	Evaluation of Qualifications	Total Maximum Score 30/30
	Analytical <i>Curriculum Vitae et Studiorum</i> (CV) of training and research activities.	Maximum Score: 3



	<p>Research project evaluated according to the following criteria:</p> <ul style="list-style-type: none"> - mastery of the linguistic code of the scientific research; - expressive properties; - originality of the research project and scientific value of the reference theoretical and methodological instrumentation; - broadly congruence with the disciplinary areas represented by the faculty board; - consistency of the research project with the duration of the training course. 	<p>Maximum Score: 25</p>
	<p>Publications with ISSN/ISBN code</p>	<p>Maximum Score: 2</p>
	<p>Written Examination</p> <p>Framework of the test: The applicants must demonstrate to have a comprehensive knowledge of humanistic subjects and issues.</p> <p>In particular, the evaluation of the test will be focused on:</p> <ul style="list-style-type: none"> - expressive properties, - argumentative skills, - mastery of the linguistic code and the basic bibliography of the humanistic research. 	<p>Maximum Score: 30/30</p>
	<p>Oral Examination</p> <p>Discussion on:</p> <ul style="list-style-type: none"> - the research project; - the main topics of the Doctorate programme; - proficiency in one foreign language to choose from: French, English, Spanish, German. 	<p>Maximum Score 30/30</p>
	<p>Minimum Score required for the admission to the next test and for passing the oral examination: 21/30.</p>	
Assessment Criteria for reserved access positions	Total Maximum Score 60/60	
	Evaluation of Qualifications	Total Maximum Score: 30/30
	Analytical <i>Curriculum Vitae et Studiorum</i> (CV) of the training and research activities	Maximum Score: 3
	Research project evaluated according to the following criteria:	Maximum Score: 25



	<ul style="list-style-type: none"> - mastery of the linguistic code of the scientific research; - expressive properties; - originality of the research project and scientific value of the reference theoretical and methodological instrumentation; - broadly congruence with the disciplinary areas represented by the faculty board; - consistency of the research project with the duration of the training course. 	
	Publications with ISSN/ISBN code	Maximum Score: 2
	<p>Oral Examination Discussion on:</p> <ul style="list-style-type: none"> - the research project; - the main topics of the Doctorate programme; - proficiency in one foreign language to choose from: French, English, Spanish, German. 	Maximum Score: 30/30
	Minimum Score required for the admission to the next test and for passing the oral examination: 21/30.	
<p>Positions and PhD fellowships</p>	<p>6 (six) positions with PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 1 position with PhD fellowship financed by the University of Calabria; - n. 5 positions with PhD fellowship financed by the resources granted by the D.M. 118/2023, divided as follows: <ul style="list-style-type: none"> - no. 2 places on the subject matter of PNRR Research, and in particular on the following set of knowledge and skills: <ul style="list-style-type: none"> - Culture, literature and landscapes; - no. 2 places, one of which reserved to candidates with an academic qualification obtained abroad, on the subject matter of Public Administration, and in particular on the following set of knowledge and skills: <ul style="list-style-type: none"> - to renovate and to interpret the reference national and supranational legal framework for the <i>policy</i> sector, including secondary-rank rules and technical/application instructions, which necessarily complement said normative framework (technical characteristics, application guidelines, etc.); - to partake in the management, in the organisation and in the strategic direction of public administrations (both at the national level and at the regional and local level) through the implementation of innovative and efficient user-oriented strategies; 	



	<ul style="list-style-type: none"> - to develop independent research paths aimed at defining and foregrounding the management, leadership and communication skills productive for public organizations, particularly in regard to the processes of selection, management and development of human resources; - to develop independent research paths aimed at foregrounding new organizational skills, also in terms of organizational theories and psychology of organizations, which must be able to interpret and reinterpret the ongoing and rapid evolution of public administrations as complex systems that act - in an adaptive way - in the environment that surrounds them; - to improve the administrative skills related to the formulation and design of public policies by the development of diagnostic skills and by taking responsibilities for coordinating the policy cycle regarding the phenomenology of possible problems in the phases of: problem-solving, solution-finding, decision-making, implementation and evaluation; - to support the institutional design by testing innovative tools of different governance models in a comparative way between policy areas, between the European, state and sub-state levels of government, and between national cases, which must take into appropriate account the opportunities offered by the new information and communication technologies; - to facilitate the digital transition of public administrations, contributing both to the redesign and simplification of organisational models, and to the processes of selection and adoption of qualifying digital technologies and solutions, in order to ensure greater effectiveness, efficiency and cost-effectiveness of public actions; - no. 1 place on the subject matter of Cultural Heritage and, in particular, on the following set of knowledge and skills: <ul style="list-style-type: none"> - Archaeology, - Art History, - Media and cultural heritage, - Aesthetics, - Cultural heritage history. 			
Agenda	Description	Date	Time	Room
	Evaluation of Qualifications (applicant presence not required)	July 21, 2023		https://disu.unical.it/
	Written Examination	July 24, 2023	3:30 p.m. CEST	Classroom "M. Alcaro" (cube 28 B, ground floor)
Oral Examination	July 27, 2023	9:30 a.m. CEST	Classroom "M. Alcaro" (cube 28 B, ground floor)	
Agenda for reserved access positions	Description	Date	Time	Room
	Evaluation of Qualifications (applicant presence)	July 21, 2023		https://disu.unical.it/



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	not required)			
	Oral Examination	July 27, 2023	9:30 am CEST	“M. Alcaro” Room (cube 28 B, ground floor), University of Calabria, Arcavacata di Rende (CS), Italy
	The results will be published on the Department of Humanities website at: https://disu.unical.it/			
Information	disu@unical.it			
PhD Website	https://www2.unical.it/portale/strutture/dipartimenti_240/dsu/dottorato/			



PhD Course in “Information and Communication Technologies”

Coordinator	Prof. Giancarlo Fortino – Department of Computer Science, Modeling, Electronics and Systems Engineering - DIMES – Via Pietro Bucci, Arcavacata di Rende (CS) – Phone: +390984.494063 – e-mail: g.fortino@unical.it
Duration	3 years
Main Department	Department of Computer Science, Modeling, Electronics and Systems Engineering – DIMES
Subject Areas	Electronics, Electromagnetic Fields, Telecommunications, Automatic Control, Computer Science, Computer Engineering, Electrical and Electronic Measurements, Principles of Chemical Engineering, Numerical Analysis, Operations Research, Sciences of the book and document, Electrical engineering, Private law.
Research Topics	<p>The curriculum is multidisciplinary and strongly oriented to the integration and development of new systems of Information and Communication Technology (ICT). 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 reliability analysis of IoT systems. • Software engineering methodologies for the development of complex distributed software systems. • Models and algorithms for social networks. • Management and analysis systems of Big Data and scalable processing: distributed systems, parallel systems, cloud computing architectures and systems, provisioning models. • Knowledge Management: document management, knowledge extraction, integration and modeling, formalization methodologies, taxonomy classification, thesauri and ontologies, distributed data management, data mining and data warehousing. • Simulation and optimization: models and algorithms. • Mathematics for machine learning. • Microsystems: design, development and characterization of intelligent MEMS devices. • Development of low power and high performance circuits and systems for 3D image processing. • Photovoltaic conversion: models and technologies for solar cells and intelligent systems for energy management, conversion and storage. • High performance, energy efficient integrated circuits for logic and memory applications. • Nanodevices for logic and memory applications. • Modeling and design of spintronic nanodevices. • Systems and techniques for the management of infrastructures for electric mobility. • Reconfigurable antennas.



	<ul style="list-style-type: none"> • Smart antennas and their integration. • Advanced techniques for the measurement of electromagnetic fields. • Electromagnetic diagnostics and biomedical applications. • Radar systems for the environmental monitoring. • Electronic circuits for RF applications. • Monolithic integration of transmitters and receivers. • Efficient energy management in wireless sensor networks. • Cognitive networks and 5G systems. • Network technologies, protocols and architectures for IoT systems. • Vehicle networks and new generation protocols for smart cities. • Control and estimation for agent-based interconnected network systems. • Control strategies resilient to cyber-attacks in network control systems. • Secure navigation schemas and environment reconstruction for autonomous robot teams. • Techniques and devices for navigation, guidance and control in autonomous submarine vehicles. • Techniques and devices for submarine acoustic communications and localization. • Non-destructive evaluation of materials. • Electronic measurement systems. • Fault detection and isolation and control reconfiguration techniques in dynamical systems. • Synchronization methods for IoT-based distributed measurement systems. • IoT-based distributed measurement systems for structural monitoring. • Food engineering. • Legal Informatics 	
Requirements of Partecipation	<ul style="list-style-type: none"> - Italian university Master's Degree (Laurea ante DM 509/ 1999, Laurea Specialistica/Magistrale ex DM 509/1999 and DM 270/2004). - Equivalent Degree awarded by an accredited foreign university. 	
Application Procedures	<p>Qualification assessment and oral examination. The knowledge of the english language will be assessed during the oral examination.</p>	
Assessable qualification (mandatory documents)	<ul style="list-style-type: none"> - Research project; - Curriculum vitae, 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. 	
Assessment Criteria	Total Maximum Score 60/60	
	Qualification assessment	Total Maximum Score 30/30
	Research project	Maximum Score: 10
	Curriculum vitae	Maximum Score: 20
	Oral examination	Maximum Score 30
	Discussion on the proposed research project and on the disciplines of interest for the doctorate. Foreign candidates can take the exam via skype.	



	Minimum score required for the admission to the oral admission and for the oral examination: 21 pt			
Positions and PhD fellowships	<p>11 (eleven) positions with PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 6 positions with PhD fellowship (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023: <ol style="list-style-type: none"> 1) n. 1 position Digital and Environmental Transitions, topic: "Network for distributed AI: exploiting the potential of the network to enhance the quality of distributed AI for a sustainable digital transition" 2) n. 2 positions PNRR Research, topics: "Design of algorithms and architectures for approximate computational layers"; "ICT for E-Health"; 3) n. 3 positions Public Administration, topic: "Digitalization of the Public Administration; - n. 5 positions granted by projects financed by the PNRR: <ol style="list-style-type: none"> 1) n. 1 position project CN-HPC, topic: "Models, Techniques and Algorithms for the support of multidimensional big data analytis on massive graph data"; 2) n. 1 position project SERICS, topic: "Models, Techniques and algorithms for the support of privacy-preserving management of digital entity in cloud computing environments"; 3) n. 1 position project SERICS, topic: "Advanced Cybersecurity Methodologies and Techniques"; 4) n. 1 position project SERICS, topic: "Study and Design of Lightweight Secutiry Protocols, Digital Identity and Digital Twins for IoT Technology" 5) n. 1 position project Tech4You, topic: "Advanced Logistic Solutions in the Food Industry: the Influence of Digital Transformations on Process Optimization and Food Traceability" 			
Agenda	Description	Date	Time	Room
	Evaluation of Qualification (applicant presence not required)	July 25, 2023		http://dottorato.dimes.unical.it/
	Oral Examination	July 28, 2023	9:00 a.m. CEST	Seminar Room of the DIMES, University of Calabria, Arcavacata di Rende (CS), Italy
	The results of the exam will be posted on the PhD website: http://dottorato.dimes.unical.it/			
Information	g.fortino@unical.it			
PhD Website	http://dottorato.dimes.unical.it/			



PhD Course in “Civil and Industrial Engineering”

Coordinator	Prof. Domenico Mundo – Department of Civil Engineering – Via Pietro Bucci, Cubo 44B - Arcavacata di Rende (CS) – Tel.: 0984.496524 – e-mail: domenico.mundo@unical.it - SSD: ING-IND/13
Duration	3 years
Main Department	Department of Mechanical, Energy and Management Engineering
Other Departments Involved	Department of Civil Engineering Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental Engineering
Subject Areas	ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17, ICAR/20, ICAR/22, 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/35.
Research Topics	The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering
Requirements of Participation	<ul style="list-style-type: none"> – Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and construction-architecture engineering, LM-4 c.u. Architecture and construction-architecture engineering (five years), LM-20 Aerospace and aeronautical 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 Management Engineering, LM-32 Computer engineering, LM-33 Mechanical Engineering, LM-35 Engineering for the Environment and Territory; LM-53 Science and Engineering of Materials. – Master Degree (ex DM 509/1999): 3/S (Master in Landscaping), 4/S (Master in Architecture and construction-architecture engineering), 25/S (Master in Aerospace and aeronautical engineering), 26/S (Master in Biomedical engineering), 27/S (Master in Chemical engineering), 28/S (Master in Civil Engineering), 29/S (Master in Automation Engineering), 31/S (Master in Electrical Engineering), 33/S (Master in Energy and Nuclear Engineering), 34/S (Master in Management Engineering), 35/S (Computer Engineering), 36/S (Master in Mechanical Engineering), 38/S (Master in Engineering for the Environment and Territory); 61/S (Master in Science and Engineering of Materials); – Diploma Degree (ante DM 509/1999) equivalent to the aforementioned Master of Science and Master Degrees according to DM 09/07/2009; – Graduate Degree or equivalent to one of the above-mentioned Titles awarded by foreign universities legally recognized.
Application Procedures	Evaluation of qualifications and oral exam.
Assessable qualification (mandatory documents)	<ul style="list-style-type: none"> – Curriculum vitae et studiorum (CV) along with the Master Degree certificate containing the exams taken and the associated scores; for the MSc students who are getting their degree, it is required to provide a certificate containing the exams taken and the associated scores; – Research project proposed by the candidate; – Any publications related to the PhD themes;



	– Any Master Research Fellowships & Grants related to the PhD themes.	
Assessment Criteria	Maximum Score 60/60	
	Evaluation of qualifications	Maximum Score 30 points
	Research Project	Maximum Score: 15 points
	CV along with the Master Degree certificate containing the exams taken and the associated scores; for the MSc students who are getting their degree it is required to provide a certificate containing the exams taken and the associated scores	Maximum Score: 9 points
	Publications related to the Ph D topics	Maximum Score: 3 points
	Master, Research Fellowships & Grants related to the PhD topics	Maximum Score: 3 points
	Oral Exam Examination procedures: The oral examination is based on the discussion of the research project proposed by the applicant and the scientific and professional experiences gained. In addition, the knowledge of the English language will be assessed through the comment and/or translation of a scientific article.	Maximum Score 30 points
The minimum score required for accessing the oral exam and for passing it is 21 points.		
Positions and PhD fellowships	<p>8 (eight) positions with fellowship of which:</p> <ul style="list-style-type: none"> - n. 6 positions (one of which reserved to candidates with an academic qualification obtained abroad) with PhD fellowship financed on funds under the D.M. 118/2023, of which: <ol style="list-style-type: none"> 1) n. 1 position falling into the Digital and Environmental Transitions sector, about topics related to the objectives of digital and environmental transitions set by the PNRR; 2) n. 2 positions falling into the PNRR Research sector, on the topics: <ul style="list-style-type: none"> - Digitization, innovation and competitiveness in production systems; - Renewable energy, hydrogen, networks and sustainable mobility; - Energy efficiency and renewal of buildings; - Innovation and digitization of the healthcare system. 3) n. 3 positions falling into the Public Administration sector, on the topic: Digitization, innovation, competitiveness and safety in the Public Administration. - n. 2 positions with PhD fellowship financed under the following PNRR projects: <ol style="list-style-type: none"> 1) n. 1 position under the Extended Partnership FAIR on the topic: Implementation of Artificial Intelligence techniques for Sustainable Manufacturing; 	



	2) n. 1 position under the Innovation Ecosystem - Tech4You on the topic: Hydrodynamic modeling of urban drainage networks to manage hydraulic and environmental risk.			
Agenda	Description	Date	Time	Room
	Evaluation of Qualifications (applicant presence not required)	July 24, 2023		dici.unical.it
	Oral Exam	July 27, 2023	9:30 a.m. CEST	“Giannattasio” Room of the DInCi (cube 45B, floor “ponte superiore”) University of Calabria, Arcavacata di Rende (CS), Italy
	Examination results will be published on the PhD website at: dici.unical.it			
Information	domenico.mundo@unical.it			
PhD Website	dici.unical.it			



Phd Course in “Life Science and Techonology”

Coordinator	Prof. Tommaso Angelone - Dipartimento di Biologia, Ecologia e Scienze della Terra (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	Prof. Tommaso Angelone, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Via Pietro Bucci, Cubo 6/C, Tel.: +39 0984/492902, e-mail: tommaso.angelone@unical.it - SSD: BIO/09.
Subject Areas	Area CUN 01: MAT/09; Area CUN 03: CHIM/02, CHIM/06, CHIM/08, CHIM/09; Area CUN 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; Area CUN 06: MED/04; Area CUN 08: ICAR/03; Area CUN 09: ING-IND/24
Research Topics	This multidisciplinary Doctorate is focused on the following research topics. Experimental cardiology. Cell physiology. Signal transduction mechanisms. Biochemical and biomolecular aspects of membrane transport systems. Application 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. Biodiversity. Conservation and wildlife risk. Developmental biology. Neurobiology. Morfofunctional cell alteration in eucariothes. Adaptive biology in aquaculture. Behavioural ecology. Morpho-functional organ adaptations in the presence of environmental, physical and chemical stress. New molecular mechanisms in hormone-sensitive tumors progression. Cyto-physiology of apical meristems. Influence of secondary metabolites on cell function and structure. Environmental stress and parasites. Identification and characterization of genes involved in key metabolic processes. Comparative study of the mitochondrial genome and gene expression in plants. Epigenetic mechanisms and developmental processes in plants. Biosystematics of plants. Flora and vegetation of Calabria. Biodiversity and conservation of plant resources. Bio-indicators of the quality of inland waters. Cytophysiological and molecular analysis of marine phanerogams; ecological analysis and functioning of coastal marine ecosystems. New synthetic compounds and nutraceutical with pharmaceutical interest. Profiling, proteomics, lipidomics, and metabolomics of vegetable and animal matrices by MALDI-MS and MS/MS, and high-resolution NMR. Self-assembly of biocompatible multifunctional molecular nanoarchitectures for drug delivery and tissue repairing. Use of arthropods in the evaluation of environmental quality and in forensic investigations, parasitosis in humans and animals caused by some species of insects. Study of fossil organic matter, especially lipid biomarkers, in biogenic carbonates to characterize the evolution of their biocenosis in the history of life. Food and pharmacological processes. Characterization of soft and multiphase systems for food and pharmaceutical uses. Renewable energy. Efficiency of energy production processes. Technology of air monitoring. Development of systems for management and control



	<p>water quality. Innovative systems for the optimization of the waste hierarchy and preventing the creation of waste. Development and characterization of new additives for asphalt industry to protect the health of workers and the environment. characterization and study of biomimetic membranes by physical chemical techniques.</p> <p>Bioinformatics analysis</p>
Participation Requirements	<p>Italian Master's Degree (DM 270/04): LM-6 Biologia; LM-7 Biotecnologie Agrarie; LM-8 Biotecnologie Industriali; LM-9 Biotecnologie Mediche, Veterinarie e Farmaceutiche; LM-11 Scienze per la conservazione dei beni culturali; LM-13 Farmacia e farmacia industriale; LM-17 Fisica, LM-18 Informatica, LM-21 Ingegneria Biomedica; LM-22 Ingegneria Chimica; LM-23 Ingegneria civile, LM-30 Ingegneria energetica e nucleare, LM-31 Ingegneria gestionale, LM-32 Ingegneria Informatica; LM-33 Ingegneria Meccanica; LM-35 Ingegneria per l'Ambiente ed il Territorio; LM-40 Matematica; LM-41 Medicina e Chirurgia; LM-42 Medicina Veterinaria; LM-44 Modellistica matematico-fisica per l'ingegneria, LM-53 Scienza e ingegneria dei materiali, LM-54 Scienze Chimiche; LM-60 Scienze della Natura; LM-61 Scienze della Nutrizione; LM-69 Scienze e tecnologie agrarie; LM-70 Scienze e tecnologie alimentari; LM-74 Scienze e tecnologie geologiche, LM-75 Scienze e tecnologie per l'ambiente ed il territorio; LM-79 Scienze geofisiche; LM-82 Scienze statistiche; LM-86 Scienze zootecniche e tecnologie animali.</p> <p>- Italian Specialist Degree (ex DM 509/99): 3/S (specialistiche in architettura del paesaggio); 6/S (specialistiche in biologia); 7/S (specialistiche in biotecnologie agrarie); 8/S (specialistiche in biotecnologie industriali), 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche); 12/S (specialistiche in conservazione e restauro del patrimonio storico-artistico), 14/S (specialistiche in farmacia e farmacia industriale), 20/S (specialistiche in fisica), 23/S (specialistiche in informatica), 26/S (specialistiche in ingegneria biomedica), 27/S (specialistiche in ingegneria chimica), 28/S (specialistiche in ingegneria civile), 33/S (specialistiche in ingegneria energetica e nucleare), 34/S (specialistiche in ingegneria gestionale), 36/S (specialistiche in ingegneria meccanica), 38/S (specialistiche in ingegneria per l'ambiente e il territorio), 45/S (specialistiche in matematica), 46/S (specialistiche in medicina e chirurgia), 47/S (specialistiche in medicina veterinaria), 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria), 61/S (specialistiche in scienza e ingegneria dei materiali), 62/S (specialistiche in scienze chimiche), 68/S (specialistiche in scienze della natura), 69/S (specialistiche in scienze della nutrizione umana), 74/S (specialistiche in scienze e gestione delle risorse rurali e forestali), 77/S (specialistiche in scienze e tecnologie agrarie), 78/S (specialistiche in scienze e tecnologie agroalimentari), 81/S (specialistiche in scienze e tecnologie della chimica industriale), 82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio), 85/S (specialistiche in scienze geofisiche), 86/S (specialistiche in scienze geologiche), 92/S (specialistiche in statistica per la ricerca sperimentale)</p> <p>-Italian Degree (ante DM 509/99) or equivalent to Master degree above listed. -Academic degrees obtained abroad equivalent to Master degree above listed.</p>
Admission Procedures	<p>Evaluation of qualifications and oral examination. The knowledge of the English Language will be assessed during the oral examination.</p>
Assessable qualification	<p>- Research Project - Curriculum Vitae et Studiorum (CV) - Any other qualifications (publications, participation in conferences).</p>



Assessment criteria	Total Maximum Score 60/60	
	Evaluation of qualifications	Total Maximum Score 30/30
	Research Project Note: for the project use only the scheme present at the following link:	Maximum Score: 20
	CV	Maximum Score: 5
	Other qualifications: Publications, Participation at scientific meetings	Maximum Score: 5
	Oral Examination The oral examination will focus on the discussion of research project, curriculum vitae and other qualifications. Candidate's skills will be evaluated to verify its abilities to carry out the proposed project. For foreign candidates there will be the possibility to be examined by using a skype connection	Total Maximum Score: 30
Minimum Score required for the admission to the oral examination: 21 point.		
Positions and PhD fellowships	<p>10 (ten) positions with PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 6 positions granted by the D.M. 118/2023; <ul style="list-style-type: none"> n. 1 position Digital and Environmental Transitions, topic: "Implementation and validation of new tools and technologies for aquatic biodiversity conservation" (Subject Area: Zoology); n. 4 position PNRR Research, topics: "New reactive materials for the decontamination of water and wastewater and the protection of water resources" (Subject Area: Health-environmental engineering); "Pollination biology in Mediterranean orchids" (Subject Areas: Botany and Zoology), PhD fellowship reserved to candidates with an academic qualification obtained abroad "Effects induced by abiotic/biotic stress on plant development" (Subject Area: Botany); "Neurobehavioral aspects in autistic mouse strains subjected to different types of diets" (Subject Area: Comparative Anatomy and Cytology); - n. 1 position Public Administration, topic: "Native vascular plants for biomonitoring of soils contaminated by heavy metals" (Subject Area: Systematic botany); - n. 4 positions granted by project Tech4You financed by the PNRR, topics: "New formulation strategies to improve the bioavailability of natural molecules" (Subject Area: Pharmaceutical Technology Application); "Standardised data annotation for interoperability in ecological science" (Subject Area: Zoology); 	



	<p>“Survey of terrestrial ecosystems by using 3D models (close range)” (Subject Area: Environmental Botany); “Bioinformatics analysis of multi-omics data for cancer research through digital platforms and solutions” (Subject Area: Pathology).</p>			
Agenda	Description	Date	Time	Room
	Evaluation of Qualification (applicant presence not required)	July 21, 2023		https://www2.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/lifescience/news_eventi/
	Oral Examination	July 24, 2023	9:00 a.m. CEST	Room 5C4 (cube 5C, floor “ponte carrabile”), University of Calabria, Arcavacata di Rende (CS), Italy
	The results of the tests will be published at the web address: https://www2.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/lifescience/newseventi/			
Information	Coordinator: Prof. Tommaso Angelone, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Tel.: +39 0984/492902, e-mail: tommaso.angelone@unical.it			
Phd Website	https://www2.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/lifescience/			



PhD Course in “Mathematics and Computer Science”

Coordinator	Prof. Giorgio Terracina - Dipartimento di Matematica e Informatica - 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
Other Departments	Dipartimento di Ingegneria Meccanica, Energetica e Gestionale (DIMEG)
Subject Areas	Computer Science, Algebra, Geometry, Complementary Mathematics, Mathematical Analysis, Probability and Statistics, Mathematical Physics, Numerical Analysis, 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 non-local ODE. Approximation methods. Minimum problems and projections. Equilibrium problems. Uniform distribution and discrepancy. Monte Carlo type integration methods. • 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	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	Evaluation of qualifications and oral examination. The knowledge of the English Language will be assessed during the oral examination.	
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	Total Maximum Score 60	
	Qualification Assessment	Total Score 30/30
	Research Project	Maximum Score 15
	Curriculum vitae et studiorum	Maximum Score 15
	Oral Examination	Maximum Score 30
	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.	
	Minimum score required for the admission to the oral admission and for the oral examination: 21 pt	
Positions and PhD fellowships	<p>11 (eleven) positions with a PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 6 positions with a PhD fellowship financed with funds from Ministerial Decree 118/2023 of which: <ul style="list-style-type: none"> - 1 PhD fellowship (reserved for candidates with an academic qualification obtained abroad) on the topic: Digital and Environmental Transitions on the theme "Models, languages, methodologies and techniques for improving competitiveness through ecological and digital transition processes" - 5 PhD fellowships on the topic: PNRR Research on the themes: <i>"Foundational aspects and applications to foster environmental, economic, social and cultural sustainability"</i>; - n. 4 positions with a PhD fellowship financed with funds from the PNRR project FAIR extended partnerships on the topics: <ul style="list-style-type: none"> - "Models, languages, methodologies and techniques for the realisation of a new generation of artificial intelligences with awareness for environmental issues" (n. 3) - "Artificial intelligence-based models for managing energy storage systems" (n. 1) - n. 1 position with a PhD fellowship financed with funds from the Tech4You project on the topic: <ul style="list-style-type: none"> - "Advanced fleet management solutions for optimising the distribution chain of perishable products" 	



	Description	Date	Time	Room
Agenda	Qualification assessment	July 21, 2023		http://www.mat.unical.it/phd/Admission
	Oral Examination	July 24, 2023	9.00 a.m. CEST	Room MT11 – Cubo 30B – Dipartimento di Matematica e Informatica Università della Calabria Arcavacata di Rende (CS)/ online (The link will be provided at the web address: http://www.mat.unical.it/phd/Admission)
	The results of the exam will be posted on the site: http://www.mat.unical.it/phd/Admission .			
Information	marilena.lovoi@unical.it			
PhD Website	www.mat.unical.it/phd			



PhD Course in “Translational Medicine”

Coordinator	Prof.ssa Stefania Catalano - Department of Pharmacy, Health and Nutritional Sciences - Edificio Polifunzionale - University of Calabria- 87036 Arcavacata di Rende (CS) Tel.: +39 0984.496207 - Email: stefcatalano@libero.it - SSD: MED/05	
Duration	3 years	
Main Department	Department of Pharmacy, Health and Nutritional Sciences	
Other Departments	Chemistry and Chemical Technologies (CTC)	
Subject Areas	MED/03, MED/04, MED/05, MED/07, MED/46, BIO/10, BIO/12, BIO/13, BIO/14, BIO/15, BIO/16, CHIM/01, CHIM/02, CHIM/03, CHIM/06, CHIM/08, CHIM/09, CHIM/10, AGR/15, M-STO/08	
Research Topics	1) Molecular design; 2) Molecular basis of diseases and therapeutic approaches for Translational Medicine.	
Participation Requirements	<ul style="list-style-type: none"> - Italian Master's Degree (DM 270/04):- LM-6 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche, LM-13 Farmacia e farmacia industriale, LM-17 Fisica, LM-21 Ingegneria biomedica, LM-22 Ingegneria chimica, LM-41 Medicina e chirurgia, LM-42 Medicina veterinaria, LM-53 Scienza e ingegneria dei materiali, LM-54 Scienze chimiche, LM-61 Scienze della nutrizione umana, LM-70 Scienze e tecnologie alimentari, LM-71 Scienze e tecnologie della chimica industriale, LM/SNT3 Scienze delle professioni sanitarie tecniche, LM/SNT4 Scienze delle professioni sanitarie della prevenzione; - Italian Specialist Degree (ex DM 509/99): 6/S (specialistiche in biologia), 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche), 14/S (specialistiche in farmacia e farmacia industriale), 20/S (specialistiche in fisica), 26/S (specialistiche in ingegneria biomedica), 27/S (specialistiche in ingegneria chimica), 46/S (specialistiche in medicina e chirurgia), 47/S (specialistiche in medicina veterinaria), 61/S (specialistiche in scienza e ingegneria dei materiali), 62/S (specialistiche in scienze chimiche), 78/S (specialistiche in scienze e tecnologie agroalimentari), 79/S (specialistiche in scienze e tecnologie agrozootecniche), 81/S (specialistiche in scienze e tecnologie della chimica industriale), SNT_SPEC/3 (specialistiche nelle scienze delle professioni sanitarie tecniche), SNT_SPEC/4 (specialistiche nelle scienze delle professioni sanitarie della prevenzione); - Italian Degree (ante DM 509/99) or equivalent to master's degree listed above. - Academic Degree obtained abroad equivalent to master's degree listed above. 	
Assessable qualification	Evaluation of qualifications and oral examination. During the oral examination, the knowledge of the English Language will be assessed.	
Documents to be enclosed	Curriculum Vitae et Studiorum (CV) Research Project Academic qualification and/or job experiences Scientific Publications (eventual)	
Assessment criteria	Total Score 60/60	
	Evaluation Qualification	Total score 30/30
	Research Project	Score 18



Assessment criteria	Curriculum Vitae e Studiorum (CV)			Score 7
	Academic qualification and job experiences			Score 3
	Publications			Score 2
	Oral Examination and knowledge of the English Language. The oral examination is based on the discussion of the research project proposed by the applicant.			Total score 30/30
	Minimum Score required for the admission to the oral examination: score 21/30			
Positions and PhD fellowship	<p>n. 7 (seven) positions granted on funds under D.M. 118/2023 of which:</p> <p>1) n. 1 PhD fellowship granted on Digital and Environmental Transitions on the following topic: "Identification of new drug molecules and innovative therapeutic targets in precision medicine"</p> <p>2) n. 4 PhD fellowships (one of which reserved for candidates with an academic degree obtained abroad) granted by PNRR Research on the following topics: "Diagnostics and innovative therapies in precision medicine"; "Ageing: challenges and consequences"; "Models for sustainable nutrition"; "Neuroscience and neuropharmacology"; "Emerging infectious diseases"</p> <p>3) n. 2 PhD fellowships on Public Administration on the following topic: "Identification of new molecular targets in chronic-degenerative diseases" "Molecular design in chronic-degenerative diseases"</p>			
Agenda	Description	Date	Time	Room
	Evaluation of qualifications	20 July, 2023		https://sites.google.com/unical.it/phdintraslationalmedicine/home-page
	Oral examination	26 July, 2023	9:30 a.m. CEST	Aula Seminari Department of Pharmacy, Health and Nutritional Sciences, University of Calabria,- Arcavacata di Rende (CS)
The results will be published on the PhD website at: https://sites.google.com/unical.it/phdintraslationalmedicine/home-page				
Information	<p>Dott.ssa Gemma Capparelli Department of Pharmacy, Health and Nutritional Sciences University of Calabria Tel.: +39 0984.493109 Fax: +39 0984.493107 Email: gemma.capparelli@unical.it</p>			
PhD Website	https://sites.google.com/unical.it/phdintraslationalmedicine/home-page			



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PhD School 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
Subject Areas	Area CUN 10: L-ART/06, L-FIL-LET/14, L-LIN/01, L-LIN/12, L-LIN/14, L-OR/10; Area CUN 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; Area CUN 13: SECS-P/02; SECS-P/07; Area CUN 14: SPS/02, SPS/04; SPS/07; SPS/08; SPS/10; SPS/11, SPS/12.
Research Topics	The research topics reflect the areas of interest of the research groups active in the Departments of Political and Social Sciences, and Culture, Education and Society, they are as follows: <ol style="list-style-type: none"> 1. Globalization Processes 2. Sustainable Territorial Development 3. Food and Territory 4. Migration Processes 5. Processes of financialization of society 6. Economy and Sustainability 7. Work and Social Changes 8. History and modern and contemporary History 9. World History 10. Cultural Studies 11. Media Studies 12. Gender Studies 13. Post-colonial Studies 14. Conversational Analysis in Institutional Settings 15. Discourse Comparative Analysis 16. Applied Linguistic Analysis for Educational-Methodological purposes 17. Political Systems, Political Parties, Movements and Interest Groups 18. Welfare and Social Services 19. Politics, Communities and Religions 20. Development and Legality 21. Psychological Studies 22. Prejudice and Social Relations 23. Processes of Supranational Integration 24. Studies on Citizenship 25. Administration models, change and public policies 26. Social Philosophy
Requirements of Participation	Italian University Degree (ante DM 509/1999) or Italian/Master's Degree (ante DM 509/1999 and DM 270/2004) or equivalent Degree obtained abroad.
Applicant Procedures	- Assessment of qualifications - Written exam (consisting of an essay and an English test) - Interview



Applicant Procedures for the reserved position to candidates with an academic qualification obtained abroad	<ul style="list-style-type: none"> - Assessment of qualifications - Interview
Assessable qualification (mandatory documents)	<p>The following assessable qualifications will be considered:</p> <ul style="list-style-type: none"> - Curriculum Vitae and Studiorum (CV); - Publications (if any); - Research project maximum length 4,500 characters, spaces included and bibliography; (maximum length 9.000 for applicants to the reserved position for candidates with an academic qualification obtained abroad). <p>Proposals exceeding or which are not in conformity with the outlined parameters will not be taken into consideration.</p>
Assessment Criteria	<p style="text-align: center;">Total Maximum Score 90/90</p> <p><u>Assessment of qualifications</u>: max score 30/30</p> <ul style="list-style-type: none"> - CV: max score 10; - Publications: max score 5; - Research project: max score 15. <p><u>Written exam (consisting of an essay and an English test)</u>: max score 30/30</p> <p><u>Assessment criteria</u>:</p> <ul style="list-style-type: none"> - Essay regarding general aspects of the group of research themes covered in the Doctoral School: max score 20; - English Language Test (required CEF level: B2): max score 10. <p>The candidates will be presented with three envelopes, each containing an essay title and an English Language Test. Two candidates chosen at random will be invited to choose one of the envelopes which will be opened in public. The duration of the examination will be four (4) hours.</p> <p><u>Oral examination</u>: max score 30/30</p> <p><u>Assessment criteria</u>:</p> <p>during the interview candidates will be required to discuss the essay produced during the written examination and the research project submitted.</p> <p><i>Minimum score required for admission to the succeeding tests and for the oral examinations: 21 points</i></p>
Assessment criteria for the reserved position to candidates with an academic qualification obtained	<p style="text-align: center;">Total Maximum Score 60/60</p> <p><u>Assessment of qualifications</u>: max score 30/30</p> <ul style="list-style-type: none"> - CV: max score 10; - Publications: max score 5; - Research project: max score 15. <p><u>Oral examination</u>: max score 30/30</p> <p><u>Assessment criteria</u>:</p> <p>during the interview candidates will be required to discuss the essay produced during</p>



abroad	the written examination and the research project submitted. <i>Minimum score required for admission to the succeeding tests and for the oral examinations: 21 points</i>
Positions and PhD fellowships	5 (five) positions with PhD fellowship of which: - n. 1 position financed by the University of Calabria, about one of the research topics of interest to the PhD course; - n. 4 positions (one of which reserved to candidates with an academic qualification obtained abroad) granted by the D.M. 118/2023, Public Administration , topics: - organisational models and management transformations; - administration change and organisational innovation; - transparent administration and digitalisation; - multilevel governance and subsidiarity; - policy planning, implementation and administrative capacity; - administrative language and public communication
Agenda	Evaluation of Qualifications: July 22, 2023 (the presence of candidates is not required). Written examination: July 26, 2023, 2:00 p.m. CEST (Room SSP1 Cube 1A University of Calabria). Oral Examination: July 28, 2023, 9:30 a.m. CEST (Meeting Room "G. Arrighi", Department of Political and Social Sciences, ground floor, cube 0B). The test results will be published on the PhD website at: https://www2.unical.it/portale/strutture/dipartimenti_240/dsps/dottorato/index.cfm
Agenda for the reserved position to candidates with an academic qualification obtained abroad	Evaluation of Qualifications: July 22, 2023 (the presence of candidates is not required). Oral Examination: July 28, 2023, 9:00 a.m. CEST (Meetings Room "G. Arrighi", Department of Political and Social Sciences, ground floor, cube 0B – The test results will be published on the PhD website at: https://www2.unical.it/portale/strutture/dipartimenti_240/dsps/dottorato/index.cfm
Information	E-mail: dottoratopcs.spes@unical.it
Phd Website	https://www2.unical.it/portale/strutture/dipartimenti_240/dsps/dottorato/index.cfm



PhD Course in “Science and Engineering of the Environment, Construction and Energy”

Coordinator	Prof. Salvatore Critelli - Department of Environmental Engineering (DiAM) – Via Pietro Bucci – Cubo 45A – Tel.: 0984/496760 – E-mail: salvatore.critelli@unical.it – SSD: GEO/02	
Duration	3 years	
Proposer Department	Department of Environmental Engineering - DIAM	
Other Department Involved	Dipartimento di Ingegneria Meccanica, Energetica e Gestionale (DIMEG) Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST) Dipartimento di Fisica Dipartimento di Ingegneria Civile (DInCi) Dipartimento di Chimica e Tecnologie Chimiche (CTC) Dipartimento di Culture, Educazione e Società (DiCES)	
Scientific sectors	MAT/07, CHIM/06, CHIM/07, FIS/01, FIS/07, FIS/08, GEO/01, GEO/02, GEO/04, GEO/06, GEO/07, GEO/08, GEO/09, GEO/10, ICAR/01, ICAR/02, ICAR/08, ICAR/09, ICAR/20, ING-IND/22, ING-IND/27, ING-IND/33, L-ANT/09.	
Research topics	<p>The PhD program aims at developing skills in basic and applied sciences of Geology, physics, chemistry and mathematics, from civil and environmental engineering to the industrial and information one, from complex systems to scientific communication.</p> <p>In particular, main topics are:</p> <ul style="list-style-type: none"> • modelling and simulation of complex systems, • measuring equipment and sensors for natural hazards, • resources and natural hazards, soil conservation and pollution, • evolution of geological processes and geology of natural resources, • territory, architecture, and buildings, • energy, innovative materials and industrial change. 	
Application Requirements	Master Degree (before the DM 509/1999) or Master Degree (ex DM 509/1999 and DM 270/2004); - Equivalent qualification, obtained from a foreign, legally recognized university.	
Evaluation procedure	Assessment of academic publications and titles, oral examination. During the oral exam, foreign language proficiency will be tested.	
Evaluable academic publication and titles	- Curriculum vitae et studiorum (CV); - Research project which consists of a minimum of three pages to a maximum of 6 pages, containing a brief state of the art, the description of the research objectives to be pursued during the PhD course, the main contributions and / or innovations of the research. - Scientific and technical reports, publications.	
Evaluation Criteria	Maximum score of 60 points	
	Assessment of the applicants publications and titles	Maximum score 30 points
	Research Project	Maximum score 20 points
	CV	Maximum score 5 points



	Scientific and technical reports, publications	Maximum score 5 points		
	Oral examination. Selection criteria: The oral examination will focus on the content of the candidate's project. The committee will also evaluate the candidate's skills for the realization of the project and the candidate's rationale for doctoral research. The candidate must also demonstrate to have a high level of expertise in a foreign language.	Maximum score 30 points		
	The minimum threshold for being admitted to the oral examination and positive oral examination is of 21 points			
Positions and PhD fellowships	<p>9 (nine) positions with PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 5 positions granted by the D.M. 118/2023, of which: <ol style="list-style-type: none"> 1) n. 2 granted (one of which reserved to candidate with an academic qualification obtained abroad) by PNRR Research on the following topics: <ul style="list-style-type: none"> ▪ Science and Engineering of Environment; ▪ Science and Engineering of Environment and Energy; 2) n. 2 granted by Public Administration on the following topics: <ul style="list-style-type: none"> ▪ Civil and Industrial Engineering and of the Information; ▪ Digitalisation, technological innovation and environmental and territorial sustainability; 3) n. 1 granted by Cultural Heritage on the following topic: Cultural heritage of natural environments- on the following topic: "Protection and Enhancement of the environmental and natural heritage" - n. 3 granted on PNRR Tech4You project on the following topics: <ol style="list-style-type: none"> 1) "Estimate of the resilience of aqueduct infrastructures"; 2) "Nowcasting hydrometeorological systems"; 3) "Integration of ground-based and remote sensing data for drought and fire risk early warning". - n. 1 granted by ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) on the following project: "Study and development of O₂/gasification in a fluidized bed reactor" to be performed at TERIN-BBC-PTR of the Research Center ENEA Trisaia, TERIN-BBC-PTR (2023/0021226) 			
Agenda	Description	Date	Time	Room
	Assessment of documents and publications (the presence of	July 20, 2023		



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	applicants is not required)			
	Oral examination	July 31, 2023	9:00 a.m. CEST	Building 45A - Seminar room of the Department of Environmental Engineering (DIAM) University of Calabria (CS)
	The test results will be posted on the website https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/			
Information	salvatore.critelli@unical.it ; tel.: +39 0984.496760; marinella.tedeschi@unical.it ; tel.: +39 0984.496650.			
PhD Website	https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/			



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

Coordinator	Prof.ssa Gabriella CIPPARRONE - Dipartimento di Fisica - Via Pietro Bucci - Cubo 33/B, Arcavacata di Rende (CS) Tel.: +39 0984.496115 - E-mail: gabriella.cipparrone@fis.unical.it - SSD: FIS/03.	
Duration	3 years	
Main Department	Department of Physics	
Subject Areas	FIS/01, FIS/02, FIS/03, FIS/05, FIS/06, FIS/07, CHIM/01, CHIM/02, CHIM/03, ICAR/08	
Research Topics	<p>The doctorate course includes two curricula with the following topics.</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 of the continuous, 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 materials and systems (membranes, interfaces, etc), polymeric, composite, multifunctional, hybrid and nanostructured, etc. Conceiving the study of materials in terms of structure and properties, design, production processes, characterization and use, with the aim of developing materials and methods for the conversion and accumulation of energy, technologies for cultural heritage protection , photonics, sensors, health, anti-counterfeiting and security.</p>	
Participation Requirements	Italian University Degree (ante DM 509/1999) or Italian/Master's Degree (ante DM 509/1999 and DM 270/2004) or equivalent Degree obtained abroad.	
Procedures for the admission	Evaluation of Qualifications and oral examination. The knowledge of English.	
Assessable qualification	<ul style="list-style-type: none"> - Curriculum vitae with details of any previous research experience; - Master Degree with the details of mark, duration and exams; - Research project; - List of published scientific articles (eventual). 	
Assessment criteria	Total Maximum Score 60/60	
	Qualification	
	Research project	Maximum score 30 points
	CV and any previous research experience	
	Eventual published articles	
Oral examination		Maximum score 30 points
English presentation of the candidate research project and eventual discussion on papers published by the candidate.		



	Minimum score to reach the position: 21 pt			
Positions and PhD fellowship	<p>7 (seven) positions with PhD fellowship of which:</p> <ul style="list-style-type: none"> - n. 2 positions granted by PNRR Research on topics of the area “Physical sciences and technologies” coherent with the missions M1C1 (Digitization, innovation and safety in the PA), M1C2 (Digitization, innovation and competitiveness in the production system) M2C2 (energy transition and sustainable mobility), M2C4 (protection of the territory and water resources), M4 and M6 (M6C2 - Innovation, research and digitization of the National Health Service); - n. 2 positions granted by PNRR Research, on topics of the area “Advanced materials: chemistry and technologies” coherent with the missions M1C1 (Digitization, innovation and safety in the PA), M1C2 (Digitization, innovation and competitiveness in the production system) M2C2 (energy transition and sustainable mobility), M2C4 (protection of the territory and water resources), M4 and M6 (M6C2 - Innovation, research and digitization of the National Health Service); - n. 1 position, reserved to candidates with an academic qualification obtained abroad, granted by PNRR Research, on topics coherent with the missions M1C1 (Digitization, innovation and safety in the PA), M1C2 (Digitization, innovation and competitiveness in the production system) M2C2 (energy transition and sustainable mobility), M2C4 (protection of the territory and water resources), M4 and M6 (M6C2 - Innovation, research and digitization of the National Health Service); - n. 1 position granted by the PNRR project “Tech4You” on the topic: “Earth observation from space for early warning of potentially destructive events”. - n. 1 position granted by the INGV on the topic: “Study of planetary ionospheres in relation to space meteorology”. 			
Agenda	Description	Date	Time	Room
	Qualification assessment (presence of candidates not requested)	July 20, 2023		
	Oral examination	July 25, 2023	9:00 a.m. CEST	Seminars Hall of Physics Department of University of Calabria – Arcavacata di Rende (CS).
	The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list			
Information	Dott.ssa Chiara Perri 0984/494006 - E-mail: chiara.perri@fis.unical.it			
PhD Website	https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/			



Ph.D. Course in “Economic and Business Sciences”

Ph.D. Coordinator	Prof. Fabio Giovanni Lamantia – Dipartimento di Economia, Statistica e Finanza "Giovanni Anania" – DESF – Via Pietro Bucci - Arcavacata di Rende (CS) Tel.: 0984.492253 - e-mail: fabio.lamantia@unical.it - SSD: SECS-S/06	
Duration	3 years	
Proposing Department	Department of Economics, Statistics and Finance “Giovanni Anania” (DESF)	
Other involved departments	Department of Business Administration and Law (DISCAG)	
SSD	SECS-P/01, SECS-P/02, SECS-P/03, SECS-P/05, SECS-P/06, SECS-P/07, SECS-P/08, SECS-P/11, MAT/09, SECS-S/01, SECS-S/04, SECS-S/06, SPS/10	
Thematic areas	The Ph.D. in Economics and Business Sciences aims to develop advanced skills in both the theoretical and applied fields of economics, business, statistics, and finance. These skills can be applied in various fields such as universities, study centres and research centres of national and international institutions, research institutions for economic, statistical, and financial sciences, public organizations, institutions, private companies and non-profit organizations.	
Prerequisites to apply	<ul style="list-style-type: none"> -Second Level Degree (Laure Magistrali ex DM 270/204): LM-16 Finance; LM-31 Management Engineering; LM-40 Mathematics; LM-49 Planning and Management of Tourism Systems; LM-56 Economic Sciences; LM-77 Business Sciences; LM-82 Statistical Sciences; LM-83 Financial and Actuarial Statistical Sciences - Second Level Degree (Lauree Specialistiche ex DM 509/1999): 19/S Finance; 34/S Management Engineering; 45/S Mathematics; 64/S Economic Sciences; 84/S Business Sciences; 91/S Economic, Financial and Actuarial Statistics - Degree (before DM 09/1999) equalized to one of the above-cited second level degrees according to the DM 09/07/2009 - Degree released by foreign universities equalized to one of the above-cited degrees 	
Modalities of the admission to the Ph.D.	Qualifications’ evaluation and oral exam During the oral examination, the knowledge of the English Language will be assessed.	
Qualifications and documents	Curriculum vitae et studiorum (CV) Research project Certificates testifying the knowledge of the English language	
Evaluation criteria	Total Maximum Score 60/60	
	Qualifications’ evaluation	Maximum score 30 points
	Research project	Maximum score 13 points
	Curriculum vitae et studiorum (CV)	Maximum score 15 points
	Certificates testifying the knowledge of the English language	Maximum score 2 points
Oral exam	Maximum score 30 points	
	Modalities: Oral exam on economic and business	



	themes and on the research project			
	Minimum score to be admitted to the next exam: 21 points			
Positions and PhD fellowships	<p>6 (six) positions distributed as follows:</p> <ul style="list-style-type: none"> - 1 position with a PhD fellowship financed by the University of Calabria, reserved to candidate with an academic qualification obtained abroad; - 5 positions with PhD fellowship funded by grants from D.M. 118/2023 of which: <ul style="list-style-type: none"> 1) no. 2 PhD fellowships on the Area: PNRR Research on the topics: <ul style="list-style-type: none"> "Territorial, gender and generational inequalities"; "Harmonious innovation: a multidisciplinary approach"; 2) no. 3 PhD fellowships on the Area: Public Administration on the themes: <ul style="list-style-type: none"> "Digitization and eco-innovation in Public Administration. Theories and empirical evidence"; "Circular Economy Models and Sustainable Development Goals in the Public Sector"; "Gender Violence and Employment Outcomes: Assessing the Effects of Anti-Violence Norms in Public Administration." 			
Agenda	Description	Date	Time	Room
	Qualifications' evaluation (without candidates)	July 21, 2023		https://desf.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/
	Oral exam	July 25, 2023	9:00 a.m. CEST	Aula seminari Dipartimento di Economia, Statistica e Finanza "Giovanni Anania" - Cubo OC –Piano Terra – University of Calabria – Arcavacata di Rende (CS). Oral exam via MS TEAMS for candidates with academic qualifications obtained abroad.
	Results of the exams will be published on the following website: https://desf.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/			
Information	Dott. Giovanni Dodero – Mail address: giovanni.dodero@unical.it			
PhD Web Site	https://desf.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca/			



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PhD Course in “Technology Applied to Cultural Heritage”

Coordinator	Prof. Mauro Francesco La Russa - Department of Biology, Ecology and Earth Sciences Tel.: +39 0984.493535 - e-mail: mlarussa@unical.it - SSD: GEO/09	
Duration	3 years	
Main Department	Department of Culture, Education and Society – DiCES	
Cooperating Institution	National Research Council	
Subject Areas	CUN Area 02: FIS/01, FIS/07, FIS/08; CUN Area 03: CHIM/06; CUN Area 04: GEO/02, GEO/04, GEO/06, GEO/07, GEO/08, GEO/09; CUN Area 05: BIO/10; CUN Area 08: ICAR/08, ICAR/09, ICAR/19; CUN Area 09: ING-IND/15, ING-IND/31, ING-INF/05, ING-INF/07; CUN Area 10: L-ANT/09, L-LIN/01; CUN Area 11: M-STO/08.	
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 material sciences applied to archaeology and cultural heritage; ○ Digital Heritage, Information and Communication Technologies; ○ Protection, safeguarding 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 (ante DM 509/1999) or Italian Master's Degree (ex DM 509/1999 and DM 270/2004) or equivalent Degree obtained at legally recognized foreign universities.	
Procedures for the admission	Assessment of qualifications, oral examination and research project. During the oral examination knowledge of English will be tested considering a level equal to or greater than B1 according to the Common European Framework of Reference for Languages (CEFR).	
Procedures for the admission to the reserved place	Assessment of qualifications, research project and knowledge of English and Italian. Knowledge of 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 qualifications	- Research project - Curriculum Vitae et Studiorum (CV)	
Assessment criteria	Total Maximum Score 60/60	
	Assessable Qualifications	Total Score 30/30
	Research Project	Total Score 20



	Curriculum vitae et studiorum (CV)	Total Score 10		
	Oral Examination Procedure: Research project discussion and oral exam regarding PhD topics.	Total Score 30/30		
	Minimum Score required for admission to the subsequent tests and for passing the oral examination: score 21/30.			
Assessment criteria for the admission to the reserved place	Total Maximum Score 30/30			
	Assessable Qualification		Total Score 30/30	
	Research Project		Total score 20	
	Curriculum Vitae et Studiorum (CV)		Total score 10	
	Minimum Score required for admission: score 21/30.			
Positions and PhD fellowships	<p>6 (six) position with PhD fellowship, of which:</p> <ul style="list-style-type: none"> - no. 3 positions granted by D.M. 118/2023 on the area: Cultural Heritage and in particular on the following themes <ul style="list-style-type: none"> ○ no. 1 position reserved to a candidate with an academic qualification obtained abroad to undertake research in: “Innovative methodologies for the protection of cultural heritage”; ○ no. 1 position granted to undertake research in: “Innovative methodologies for the protection of cultural heritage” ○ no. 1 position granted to undertake research in: “Innovative approaches and methods for cultural preservation and valorization”; - no. 2 positions granted by CNR (National Research Council) to undertake research in: <ul style="list-style-type: none"> ○ Recovery, digitization and use of the documentary cultural heritage through the creation of IT tools and the construction of linguistic models; ○ Digitization of the Calabrian monumental heritage in coastal areas and definition of its conservation state; - no. 1 position granted by the PNRR project funds - Ecosystems of Innovation Tech4You project - to undertake research in “3D modeling techniques and eXtended Reality for the use of cultural heritage” 			
Agenda	Description	Date	Time	Room
	Assessable qualifications (applicants' presence not requested)	July 21, 2023		
	Oral Exam	July 25, 2023	2:00 p.m. CEST	Classroom Nettuno – Cubo 17B, Department of Culture, Education and Society – University of Calabria



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				Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://dices.unical.it/ricerca/dottorato-di-ricerca/			
Agenda for the admission to the reserved place	Description	Date		
	Assessable qualifications (applicants' presence not requested)	July 21, 2023		
	The results of the exam will be posted on the website: https://dices.unical.it/ricerca/dottorato-di-ricerca/			
Information	labdoc@unical.it			
Phd Website	https://dices.unical.it/ricerca/dottorato-di-ricerca/			



PhD Course in “Teoria e Prassi del Diritto”

Coordinator	Prof. Enrico Caterini - Department of Business Administration and Law – University of Calabria Tel.: +39 0984.492222 - e-mail: enrico.caterini@unical.it - SSD: IUS/01	
Duration	3 years	
Main Department	Department of Business Administration and Law	
Subject Areas	Area CUN 12: IUS/01, IUS/02, 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; Area CUN 14: SPS/01, SPS/03.	
Research Topics	Sustainability; artificial intelligence; crisis, and ecological transition.	
Participation Requirements	- Second Level Degree (Lauree Magistrali ex DM 270/204): LMG/01 Law, LM-52 International Relations, LM-63 Public administration sciences, LM/SC Criminological sciences applied to investigation and security, LM/SC-GIUR Legal sciences, LM-62 – Political Science; • - Second Level Degree (Lauree Specialistiche ex DM 509/1999): 22/S (Second level degrees in theory and techniques of legislation and legal information), LMG/01 (Law); - Degree (before DM 09/1999) equalized to one of the above-cited second level degrees according to the DM 09/07/2009 - Degree released by foreign universities equalized to one of the above-cited degrees.	
Procedures for the admission	- Assessment of qualifications - Written exam - Oral examination	
Procedures for the admission to the reserved place	- Assessment of qualifications - Oral examination	
Assessable qualification	The following assessable qualifications will be considered: - Research project. - <i>Curriculum Vitae</i> and <i>Studiorum</i> (CV); - Publications (if any);	
Assessment criteria	Total Maximum Score 90/90	
	Assessable Qualification	Total score
	- <i>Research project</i> ; - <i>Curriculum Vitae</i> and <i>Studiorum</i> (CV); - Publications (if any).	Total score 9 Total score 14 Total score 7
	Written exam Operating methods: An essay demonstrating the ability to analyse and summarise the matter proposed, clarity of exposition, coherence in argumentation and originality.	Total score 30
	Oral Examination Operating methods: Discussion of the research project and the essay. Testo to verify the knowledge of the chosen foreign language.	Total score 30



	Minimum Score required for the admission to the next tests and for the oral examination: score 21/30.			
Assessment criteria for the admission to the reserved place	Total Maximum Score 60/60			
	Assessable Qualification		Total score	
	<ul style="list-style-type: none"> - Research project; - Curriculum Vitae and Studiorum (CV). 		Total score 10 Total score 20	
	Oral Examination Operating methods: Discussion of the research project. Text to verify the knowledge of the Italian language. Candidates residing abroad may take by remote.		Total score 30	
	Minimum Score required for the admission to the next tests and for the oral examination: score 21/30.			
Position and PhD fellowships	<p>8 (eight) positions with PhD fellowship, of which:</p> <ul style="list-style-type: none"> - n. 1 position with PhD fellowship financed by the University reserved for candidates with an academic degree obtained abroad. - n. 5 places with PhD fellowship financed with funds under Ministerial Decree 118/2023 of which: <ul style="list-style-type: none"> • n. 1 PhD fellowships on the Field: PNRR Research; • n. 3 PhD fellowships on the Field: Public Administration; • n. 1 place with PhD fellowship in co-supervision agreement of thesis with the University of Artois, France (PNRR Research). - n. 2 positions with PhD fellowship financed by funds from the PNRR project Tech4You. <p>Research Topics:</p> <p>Public institutions, businesses, the third sector and sustainability; Public and private institutions and AI; Historicism, conceptualism, comparison and constitutionalism in the general theory of law.</p>			
Agenda	Description	Date	Time	Room
	Assessable qualification (applicants presence not requested)	July 21, 2023		
	Written exam	July 24, 2023	10:30 a.m. CEST	Aula E1 - Cubo 1D – Dipartimento di Scienze Aziendali e Giuridiche



	Oral examination	July 27, 2023	9:30 a.m. CEST	Sala Saccomanno – IV piano Cubo 3B – Dipartimento di Scienze Aziendali e Giuridiche
	The results of the exam will be posted on the site: https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			
Agenda for the admission to the reserved place	Description	Date	Time	Room
	Assessable qualification (applicants presence not requested)	July 21, 2023		
	Oral examination	July 27, 2023	9:00 a.m. CEST	TELEMATICS – Microsoft Teams platform, a special channel, with subsequent access indications.
	The results of the exam will be posted on the site: https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			
Information	Dott.ssa Claudia Grimaldi: claudia.grimaldi@unical.it			
Phd Website	https://www2.unical.it/portale/strutture/dipartimenti_240/discag/didattica/dottdiscag/			



ANNEX B Self-Declaration Affidavit (Art. 47 D.P.R. 28th December 2000, no° 445)

*The undersigned Fiscal Code: Place of birth Date of birth Sex M/F Residence (city) prov. via n. cap

I understand that any incorrect information and false statements are subject to the penalties provided, according to art. 76 of the D.P.R. 28 December 2000, n. 445, pursuant to and for the purposes of D.P.R. n. 445/2000, and on its own responsibility: Hereby declare To be in possession of the following access title pursuant to art. 2 of the selection notice: (Please indicate precisely: exact name of the course, date of graduation and grade, University, list of exams with marks if required and for candidates not yet in possession of the qualification)

Degree achieved on with vote at

List of exams and grades (possible)

A copy of the following identity document is attached:

The undersigned also declares to be 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, also by computer, exclusively in the context of the procedure for which this declaration is made.

*This statement may relate to states, personal qualities or facts that are directly acquainted with the person concerned, as well as states, personal qualities and facts relating to other subjects of which he or she has direct knowledge. This statement must provide proof of any qualifications (eg qualifications, examinations, professional qualifications, etc.) that are not attached to the application, as self-certification. For the titles attached (eg documents issued by a public authority, copies of publications, copies of parchments or certificates of study or service qualifications, etc.) must in the same declaration state declare that they are in conformity to the original copy. Lastly, a copy of a validation document must be dated, signed and attached.

N.B. - Subscribing to the aforementioned statements is not subject to authentication where it is assigned in the presence of the employee. If this declaration is sent or filed directly by a person other than the candidate, Photostatic copy, front and rear, of a document of the identity of the subscriber must also be produced. Only photographic identity documents issued by a state administration will be considered valid.

Place and date,

Declared by (Legible signature)