

UNIVERSITÀ DELLA CALABRIA



Residential Center
Settore Servizi Amministrativi

PUBLIC COMPETITIVE EXAMINATION FOR ADMISSION TO PhD PROGRAMMES
31th CYCLE

THE RECTOR

- In view of** the Statute of Autonomy of the University of Calabria, issued by Rector's Decree N° 562 on 23 March 2012, updated by Rector's Decree N° 608 of 1 April 2014, published on the Italian Official Journal N° 118 of 23 May 2014;
- In view of** the Rector's Decree of 6 February 2013 n. 233 with which it was updated the University Regulations;
- In view of** the Rector's Decree of 30 September 2013 n. 1986 with which it was updated the University Didactic Regulations;
- In view of** the Regulations for the Administration and Accounting;
- In view of** the Law N° 168 of 9 May 1989;
- In view of** the Decree of the President of the Republic N° 387 of 3 October 1997;
- In view of** the Law N° 210 of 3 July 1998, in particular article 4 concerning the regulation for PhD Programmes;
- In view of** the Law N° 104 of 5 February 1992, and subsequent modifications and additions of Law N° 17 of 28 January 1999 providing rules in the field of "Assistance, social integration and rights of disabled people";
- In view of** the Decree of the President of the Republic N° 445 of 28 December 2000 "*Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa*" (Law containing provisions relating to administrative documentation);
- In view of** the Law 148/2002 "*Ratification and implementation of the Convention on the Recognition of Qualifications concerning Higher Education in the European Region, signed in Lisbon on 11 April 1997, and adjustment of internal standards*" and in particular article 2 which gives competence to the University to recognize the entry qualification to obtain the PhD;
- In view of** the Legislative Decree N° 196 of 30 June 2003 "*Code regarding the protection of personal data*";
- In view of** the Ministerial Decree N° 270 of 22 October 2004 "*Modifications to the Rules concerning the teaching autonomy of Universities, approved by Decree of the Ministry of University, Scientific and Technologic Research N° 509 of 3 November 1999*";
- In view of** the Ministerial Decree 18.06.2008 with which the annual amount of the grant to attend Ph.D. courses has been established at €13,638.47 gross, including social security expenses to be paid by the payee;
- In view of** the Law N° 240 of 30 December 2010, in particular art. 19, containing provisions for PhDs;
- In view of** the memorandum from the Ministry of Education, University and Research N° 602 of 18/08/2011 concerning the "*Dichiarazione di valore*" of qualifications released abroad;
- In view of** the Rector's Decree N° 2132 of 21 October 2013 on the proposal for the establishment of the PhD in Physical, Chemical and Material Sciences and Technologies, in agreement with the National Research Council - Department of Physical Sciences and Technologies of Matter;
- In view of** the Ministerial Decree N° 45 of 8 February 2013, "*Regulation procedures for accrediting universities and PhD courses and the criteria for implementing Doctorate courses by credited Institutions*";



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| In view of | the Rector's Decree n. 1072 of 10 July 2015 relating to the Contract Fees Office, right to education and services AA 2015/2016; |
| In view of | the note by MIUR, Ministry of Education, University and Research, Prot. no. 0004289 of 13.03.2015 concerning “Operative indications on the accreditation procedures of Ph.Ds. Academic year 2015/2016; |
| In view of | the Regulation of the Doctoral Programmes of Research of the University of Calabria, issued by Rector’s Decree No. 1330 of 3 July 2013, modified by Rector’s Decree N° 1260 of 30 June 2014; |
| In view of | the Ministerial Decree Prot. 628 of 19.08.2014 about accreditation; |
| In view of | the proposals to set up PhD programmes – 31 st cycle– academic year 2015/2016 with administrative seat at the University of Calabria, presented by the University Departments; |
| In view of | the meeting of 21 April 2015 in which the Board of Directors, in compliance with art. 11 of University Regulations, established the distribution criteria for the PhD scholarships of the 31 st cycle, according to the financial resources allocated by the Ministry of Education, Universities and Research and/or available on the University budget; |
| In view of | the positive opinion issued by the Academic Senate at the meeting of 23 April 2015 about the abovementioned distribution criteria; |
| In view of | the agreements stipulated with other Italian and foreign Institutions, as well as foreign countries, or specific international mobility programmes, in order to finance grants; |
| In view of | the resolutions of the Departments of the University of Calabria to finance grants; |
| In view of | the meeting of 6 May 2015 in which the Board of Directors approved the proposal of distribution of PhD scholarships; |
| In view of | the resolution of the Academic Senate of 6 May 2015 concerning the distribution of PhD scholarships; |
| In view of | the opinion issued by the Evaluation Centre on 13 May 2015 concerning the existence of the qualification criteria provided by national and international regulations for the 31 st cycle PhDs at the University of Calabria as administrative seat; |
| In view of | the memorandum from the Ministry of Education, Universities and Research of 22 June 2015, protocol N° 10906 providing the procedures to announce the competition for admission to renewal PhDs for academic year 2015/2016; |
| In view of | the memorandum from the Ministry of Education, Universities and Research of 6 July 2015, protocol N° 11948 concerning the granting of a one month to carry out the procedures to the competition; |
| In view of | the memorandum from the Ministry of Education, Universities and Research of 15 July 2015, protocol N° 12595 in which the same reports that ANVUR concluded assessment procedures by issuing a favorable opinion for the proposed renewal of courses already accredited; |
| In view of | the resolution of 14 September 2015 the resolution of 14 September 2015 when the Board of Directors, pending approval of the Academic Senate, approved the award of additional grants financed by external bodies and Departments of the University; |
| Considering | the necessity to establish and consequently issue the call for applications for admission to the 31 st cycle PhDs at the University of Calabria; |
| Assessed | that the funding for the scholarships from the University will be provided on the chapter COAN CA 04.02.01.01 “Scholarships for PhDs” of the budget of financial year 2015; |

DECREES



Art. 1 Implementation

1. A public competitive examination at the University of Calabria is hereby announced for admission to the PhD courses mentioned in the “Annex A – Analytical Tables - PhD courses 31th cycle – Academic Year 2015/2016”, which is an integral part of this call for applications.
2. The public competition shall be based on one of the following procedures, as indicated for each course in Annex A:
 - assessment of qualifications ;
 - assessment of qualifications and examination ;
 - assessment of qualifications and interview.
3. For each PhD course, Annex A provides the following information: the Coordinator, the duration, the relevant Department and any other Department that may be involved, the Subject Areas, the research topics or the course curricula, the requirements for participation, the abovementioned admission criteria, the qualifications to be enclosed with the application, the assessment criteria, the number of available positions and the number of scholarships specifying the funders and the research fields also in relation to the single curricula if they are mentioned ; for the grants funded by the Italian Ministry of Education, Universities and Research, with reference to the “Fund for the support of young people”, the main research field in which the winner of the grant shall carry out his/her research, information on the exam timetable, an address for enquiries and the course website are also indicated.
4. The number of places and scholarships are indicated in the specification of each course (Annex A). Any additional scholarships and apprenticeships, pursuant to art. 19 paragraph 1) letter b) of Law no. 240/2010 and art. 5 of Legislative Decree. N. 167/2011 made available before the completion of the evaluations and up to the conclusion thereof, subject however to the terms of the deadline for the application, by the candidates, the competition for admission, provided by art. 5, will be announced by publication on the University website: <http://www.segreterie.unical.it/hm/dottorato.html> and on site <http://unical.ugmanager.it/>. For the allocation will be used to rank. The list of research areas will be constantly updated until the day before the valuation of securities in relation to additional bags put out to tender. Updates will be published on the University website: <http://www.segreterie.unical.it/hm/dottorato.html> and on site <http://unical.ugmanager.it/>.
5. Any funding provided by external institutions will be allocated subject to the successful conclusion of the agreement entered into by the University and the Institution involved.
6. This call for applications will be published on the website of the Italian Ministry of Education, Universities and Research and on the University websites: <http://www.unical.it/portale/concorsi/> and <http://www.unical.it/portale/didattica/index.cfm> it is equivalent to a notification to all intents and purposes.
7. Any modification, update or addition to its content will be exclusively notified via publication on the University website and on the page: <http://www.unical.it/portale/didattica/index.cfm>.
8. Any personal communication to the applicants concerning this competition will be given by e-mail. To this purpose, the address provided by the applicant in the online application form will be used.
9. The University shall not be responsible for any loss of communications due to the applicant providing incorrect contact details or failing to promptly communicate a change in them, neither for postal or telecommunication error.
10. The presentation of the application via the procedure mentioned in art. 5 implies the acceptance of the rules contained in this announcement and in the University PhD Regulations by the applicant. Failure to respect these rules will result in the applicant being excluded from the competition.

Art. 2 Admission requirements

1. Applicants of any citizenship and age can submit their application for the selection procedure to access the PhD Courses mentioned in article 1, provided they hold one of the following qualifications :
 - a. A Degree released by an Italian University prior to Ministerial Decree 509/99.
 - b. A “Laurea Specialistica/Magistrale”(Master’s Degree) released by an Italian University in pursuance of Ministerial Decree. 509/1999 and Ministerial Decree 270/2004;
 - c. An international academic qualification released by a legally recognised foreign University and declared equivalent or suitable for admission to an Italian PhD course.



The specific Degrees required to access each PhD course are listed in the course descriptions contained in Annex A of this announcement.

2. Applicants who will take the qualification required in paragraph 1 before 31st October 2015 are also entitled to apply for the competition. By this deadline, applicants shall communicate the qualification has been taken by sending “Annex C” via e-mail cr@unical.it.
3. Failure to take the qualification by the abovementioned deadline will result in the applicant being excluded from the merit ranking.
4. Applications from students already enrolled in a PhD course at the University of Calabria will not be accepted.
5. Applicants who already hold a PhD are only eligible and may only apply for positions without scholarships.

Art. 3 Degree released by foreign universities

1. Applicants who hold qualifications released abroad have to attach a declaration of equivalence to their on-line application.
2. In case of absence of the above declaration, the candidates are admitted to the public competitive examination under condition and they may obtain recognition of their qualification only to the purpose of admission to the PhD program, by making an explicit request for equivalence in the application form to the Admissions Committee which will evaluate the suitability of the applicant’s academic qualification for the sole purpose of enrolment on the PhD program in compliance with relevant laws in force in Italy and in the country where the qualification has been released and in compliance with international treaties or agreements on the recognition of qualifications for the continuation of higher education studies.
3. To this purpose, applicants must attach to the application form original or certified copies of certificates and transcripts of previous higher education produced by the university that has awarded the qualifications, translated into Italian or in English, also translated by and under the responsibility of the candidate him/herself. Should the applicant’s course of studies include a first and second level degree (e.g. Bachelor’s + Master’s Degree), certificates for both degrees must be submitted, including a list of exams taken and standard duration of the course/s.
4. Results of the equivalence assessment carried out by the Admissions Committee, to the sole purpose of enrolment on the PhD program, will be published exclusively on the web site <http://unical.ugmanager.it> and <http://segreteria.unical.it/htm/dottorato.html> and will not be directly communicated to the candidates.
5. The issuing of the above mentioned documentation and of a residence permit to participate in the tests and to attend the course to foreign nationals is regulated by the note of the Italian Ministry for Education, Universities and Research, protocol N. 602 of 18 May 2011 (“Rules and regulations concerning the access of foreign students to courses for the three year period 2011/2014”), available at the following address: <http://www.studiare-in-italia.it/studentistranieri/5.html>.
6. Within the registration date, attached to the application form, the candidates have to deliver to the Competent Office the certified Degree Certificates provided by the “Dichiarazione di Valore in Loco” , (Declaration of Value) of the applicant’s qualifications, issued by the Italian diplomatic and consular missions of the Country in which the Degree was awarded. For European candidates only, instead of the Declaration of Value, the candidates can submit the original or certified copy (in the original language or in English) of the Diploma Supplement released by the issuing university. If the Declaration of Value establishes that the exhibited Degree Certificate does not entitle the enrolment to a PhD program analogous to the one for which the application is made, the applicant will lose the right to participate to the PhD program itself.

Art. 4 Positions reserved to applicants holding a degree released abroad, applicants with a scholarship from a foreign country and applicants holding a scholarship from a specific International mobility programme

1. Applicants holding a degree released abroad or a scholarship from a foreign country or a scholarship from a specific



International mobility programme will be selected through a qualification assessment and, unless otherwise specified in the specific PhD course description mentioned in art. 1, will also undertake an interview via videoconference.

2. The Admissions Committee will draw up specific reports and separate ranking lists. Should any positions reserved to candidates holding a degree released abroad remain vacant, they may be made available for the unreserved competition.

Art. 5 Application form

1. The application for admission to the selection procedure, must be submitted, no later than the deadline of 23:59 (Italian time) on **12 October 2015** exclusively using the on-line procedure available on the website: <http://unical.ugmanager.it>.

The date of submission of application for admission to the selection procedure is certified by the computer system, by the deadline for submission, no longer allow access and sending the application.

2. Applicants must upload the following files in PDF:

- **research project**, of the maximum size of 3 pages (unless otherwise specified in “Annex A” of this announcement), concerning the research topic required for the award of the scholarship or concerning other topics related to Subject Areas of interest of the PhD programme, both indicated in “Annex A” of this announcement;
- *Curriculum vitae et studiorum*
- **copy (front and back), of a valid identity document.**
- **copy of the compulsory payment of the admission fee of € 11,00 (eleven/00).** This payment can be made, **under penalty of exclusion from the selection**, before the expiry of the notice on the portal of payments at: <http://www.segreterie.unical.it/hm/pagamentonline.html> or SEPA transfer in favor of 'University of Calabria IBAN IT61S0200880883000103495463 specifying the following description: "Fee for admission to the PhD selection in _____ - 31st cycle". The admission fee is not refundable;
- **declaration of self-certification under 'art. 47 Presidential Decree 445/2000 (Annex B)** (The rules on self apply to Italian citizens and the European Union and non-EU nationals legally residing in Italy, as far as can be verified or certified by Italian public entities);
- **any other assessable qualifications/publications**, as specified in “Annex A” of this announcement.
- **for candidates holding a degree released abroad**, the documents listed in article 3 of this announcement;
- in very exceptional cases, the documentation does not allow the upload can be delivered by hand to the Residential Centre, Office PhD, Arcavacata Rende (CS) on weekdays from 9:00 to 13:00.

3. Candidates who wish to take part in more than one competition will have to submit a separate application for each, together with the qualifications requested, and pay an admission fee for each PhD competition selected.

4. Applications submitted via any other means will not be considered.

5. Candidates are responsible for ensuring that their online application has been completed accurately and in full; this University declines all responsibility for any malfunction of the system close to the deadline.

6. The Rector's Decree of exclusion from the competition will be published on the website <http://unical.ugmanager.it> on the page *Decreti e Avvisi* before the first examination. No personal letters will be sent directly to candidates.

Rejected candidates may ask for the reason of their exclusion by writing to the Rector. Explanations will not be given to requests made in other ways.

7. The application form online can be integrated with additional documentation by the deadline for submission of applications: 12 October 2015 at 23.59 (Italian time).

8. The University Administration cannot be held responsible for documentation which goes astray due to mistaken indication of residence and postal address given by the applicant and/or due to the fact that candidates have not communicated any changes or have communicated them too late, or for any errors in postal or telegraphic delivery made by third parties.



9. According to the nature of their disability and in compliance with Law N°104/1992 and its integration Law N° 17/99, disabled candidates may request the use of special equipment and additional time to complete the examination. Pursuant to Law N° 170/2010, candidates with learning disabilities shall be granted 30% more time than the standard allowed time to complete their examination, in relation to the type of examination that is being taken. Candidates with disabilities who need to use special equipment during the examination, in pursuance with Law N° 104/1992 and its integration Law N°17/99, shall provide this information in the on-line application form, specifying the type of equipment they will need.

10. All candidates are admitted to the examination conditionally: their applications are verified to check that they meet the requirements set in this announcement, which shall be done in pursuance with art. 43 of DPR n. 445 of 28 December 2000. The Administrative office may decide on the exclusion of any candidate from the selection procedure at any time. The Administrative office shall also verify the truthfulness of the self-certifications provided by candidates. Applicants providing false declarations will be punished in compliance with the Italian criminal code and special laws on the matter.

11. The University reserves the right to enforce, even after the public exam is over, sanctions for the exclusion of candidates who have failed to comply with or meet up to requirements herein established.

Art. 6 Admission

1. Admission is carried out according to the procedures described for each course in “Annex A”, which is an integral part of this Decree.

2. The admission tests schedule for each course listed in the abovementioned “Annex A” is equivalent to a notification to applicants. Any modifications, updates or additions to its content will be published exclusively on the website of the University of Calabria at <http://unical.ugmanager.it/> at the page Decreti e Avvisi and at the website <http://segreteria.unical.it/htm/dottorato.html>.

3. Failure to take part in the admission tests will be considered as constituting a withdrawal from the application process.

4. In order to sit the exams, candidates shall be asked to exhibit one of the following identity documents: identity card, driving licence or passport.

5. The selection procedure, in order to ascertain the applicant’s aptitude for scientific research, is an assessment of the applicant’s qualifications, in accordance with “Annex A” for each PhD programme, through a written test and/or an oral examination.

6. The table published for each Doctorate shows the points awarded for each test, the criteria for attributing them and the threshold scores to pass to the next phase of the tests.

7. The written examination (if any) shall be taken by all candidates in Italian. The Examining Board may however decide that the essay must be written in a foreign language by all candidates.

8. The oral examination (if any), is public and focuses on the assessment of the knowledge of one or more foreign languages.

9. Applicants permanently residing abroad on the date of such evidence, may support the "oral exam at a distance" using the tool of video conferencing (eg Skype). In such case they will have to request it and provide their contact on the application form. You'll ensure the use of a webcam to allow their identification to the Committee and will be available to the staff, previously communicated, the day and time set out in Annex A. It examinations diary 'of the faculty Commission agreed with the choice of the candidate a precise timetable for the start of the interview. For the purposes of identification and, under penalty of exclusion from the selection process, each candidate must, before the interview begins, to identify themselves, exhibiting the same identity document already submitted as an attachment to the application. The failure to address personnel, the connection fails, the unavailability of the candidate in the day or in the timetable established or failure to produce valid identification document in accordance with the preceding paragraph constitute grounds for exclusion from the selection process. The University accepts no responsibility for the possibility that technical reasons prevent the smooth running of the interview.

10. The Admissions Committee will draw up specific report. Candidates will be ranked in descending order according to the total score obtained by each candidate in the scheduled tests and the qualification assessment.



11. For PhD programmes involving reserved places, separate lists will be drawn up, while for the PhD courses articulated in curricula, a single merit list will be published.

12. All applicants applying for a PhD course of doctoral participate in the selection for the general positions.

13. Scholarships are allocated to suitable candidates based upon:

a. the ranking position;

b. the suitability of any option expressed by the candidate for topic scholarships.

Where the candidate is found to be suitable both for a general scholarship and a topic scholarship, the Admissions Committee will decide which scholarship to allocate, taking into account the overall assessment, the qualification and the documentation submitted.

14. If more candidates have an identical score in the ranking list, the scholarship will be awarded on the basis of the candidate's economic situation, pursuant to D.P.C.M. of 9 April 2001 and subsequent modifications and integrations; for positions without a scholarship, the youngest candidate will have priority.

15. The President of the Admissions Committee will submit the competition reports to the Rector.

16. Candidates may view the documents of the selection procedure, in compliance with current laws and regulations (Law No. 241/1990 and subsequent modifications and integrations and D.P.R. No. 184/2006).

Art. 7 Admissions Committees

1. The Admissions Committees in charge of the PhD competitions are appointed by the Rector in accordance with the University of Calabria "Regulation for PhD courses".

2. The composition of each Admission Committee will be published, after the announcement deadline has expired, on the website <http://unical.ugmanager.it>, at the page *Decreti e Avvisi* and <http://segreteria.unical.it/htm/dottorato.html>.

Art. 8 Admission to PhD Courses

1. The Rector acts to verify the validity of the competition records and approves the ranking lists for each selection procedure with a Rector's Decree.

2. The ranking lists will be published on the following website: <http://unical.ugmanager.it> at the page *Decreti e Avvisi* and <http://segreteria.unical.it/htm/dottorato.html>.

3. Candidates will not be informed personally.

4. Candidates are admitted to the PhD courses in the ranking list order until all positions for the relevant PhD are taken. Should a candidate decide not to take up his/her place before the course starts, his/her place may be taken by another candidate according to the ranking list order. Candidates who are successful in more than one selection can choose only one PhD position.

5. Prevailing laws regarding time off work or special leave will apply to any public administration employees admitted to a PhD course.

6. Candidates who have participated in the selection process for reserved positions will be admitted to the PhD courses until all positions allocated to such candidates have been filled.

Art. 9 How to enrol

1. Candidates who have been admitted to the doctoral courses, under penalty of expiration, shall hand in or send their application form (available on the website: <http://unical.ugmanager.it>) to the Residential Centre, SSA, within the deadline of 8 (eight) days from receiving the communication of admission to a PhD.

2. Candidates residing abroad must confirm their will of enrolling, under penalty of expiration, by contacting the Residential Centre, SSA by e-mail at cr@unical.it within the deadline of 5 (five) days from the publication of the ranking list. Such candidates must complete their enrolment no later than one month. Upon decision of the Academic Board, foreign candidates may be allowed to start frequency of the first year in the subsequent academic year, if they are unable to obtain the entry visa within the stated deadline. However, registration must be completed by the beginning of the subsequent academic year, under penalty of exclusion.

3. Enrolment application should also include:

a. Receipt for payment referred to Art.13;

b. Tax stamp of € 16.00;



- c. A photocopy of a valid identity document, back and front (in plain paper);
 - d. A photocopy of the Italian Tax Code;
 - e. ISEE Form;
 - f. A photocopy of the residence permit (for residents abroad).
4. Enrolment in another course which assigns an academic qualification, even from another Italian or foreign University, is not allowed, except for medical specialization courses, in compliance with current laws and regulations.
5. In the event of waivers from successful candidates, the vacancies are awarded to those who hold a good position in the ranking. These applicants will be notified by e-mail by the Residential Centre.
6. The University reserves the right to check the validity of winner's declarations. Any applicant found to have made false statements will lose the benefits arising from these declarations.

Art. 10 Scholarships

1. The amount of the scholarship is € 13,638.47 per year gross of social security payable by the PhD student. The scholarship is exempt from local income tax and personal income tax (IRPEF).
2. In order to benefit from the scholarship, the winner must have and keep for the duration of the course a personal gross annual income not exceeding € 15,000.00.
3. The doctoral grant is paid in monthly instalments, it lasts one year and is renewed annually, for the entire duration of the course, provided that the PhD student has been admitted to the following year by the Academic Board.
4. PhD scholarships cannot be combined with research grants or other scholarships awarded for any reason whatsoever. The only exceptions are allowed for grants and scholarships assigned by national or international bodies to support training or research activity abroad.
5. The amount of the doctoral grant shall be increased by 50% for an overall period of no more than 18 months, if the graduate student is authorized to by the Academic Board to carry out research abroad.
6. Students who have already benefited from a PhD scholarship, even partially, are not eligible for a second one.

Art. 11 Rights and obligations of PhD students

1. Admission to PhD programmes obliges PhD students to full-time attendance of the PhD programme. PhD students must regularly attend courses and carry out all research and study activities assigned to them by the relevant Department of the University, according to the procedures set out by the Academic Board of the PhD programme to which, at the end of each academic year, they must submit a report on the research activities they carried out.
2. Doctoral students may take leave of absence from the course in the following cases, which shall be fully and duly certified: maternity and illness. Students must recover the period of absence from study and research activities.
3. PhD students may carry out tutorial activities for undergraduate and postgraduate students, as well as supplementary teaching activities as part of their training project; these activities are not eligible for an increase in the scholarship. All activities must be previously authorised by the Academic Board for a maximum of forty hours per academic year. The limit is not applicable after the third year of the PhD programme.
4. Starting from the second year, each PhD student will be allowed to use a budget for research activities in Italy and abroad which will not be less than 10% of the amount of the scholarship.
5. PhD students are required to constantly check the PhD webpage: <http://unical.ugmanager.it> and <http://segreteria.unical.it/htm/dottorato.html> where general information will be published.

Art. 12 Final exam and conferment of qualification

The title of Ph.D. ("*Dottore di Ricerca*") is awarded by the Rector of the University of Calabria, once the course is completed following a public defence, in front of a committee appointed by the Rector, of a research thesis which will contribute to the improvement of knowledge or methodologies in the chosen field of research, in accordance with the PhD Regulation of the Doctoral Programmes of Research of the University of Calabria.

**Art. 13 Entry and tuition fees**

1. Successful students, with or without scholarship, are exempted from any payment of fee except for:
 - a) the Regional Tax for the Right to Education (“*Tassa Regionale per il Diritto allo Studio*”), which shall be calculated according to the
 - € 140.00 for ISEEU income lower than € 15,875.00;
 - € 160.00 for ISEEU income between € 15,875.00 and € 31,750.00;
 - € 200.00 for ISEEU income higher than or equal to € 31,750.00.
 - b) the Accident Insurance Premium”
2. The methods for payment will be indicated in the communication to winner.

Art. 14 Use of personal data

1. Pursuant to Article 13 of Legislative Decree n.196 of 30 June 2003, candidates are hereby informed that their personal data shall be collected and processed in an automated database by the University of Calabria, even after the selection procedure, for use in the selection procedure and for the management of the academic career of successful PhD students. They may also be used for statistical purpose by the Ministry of the University and Research. Providing such data is necessary for the evaluation of the participation requirements. Failure to do so will result in the candidate’s exclusion from the selection procedure.
2. The personal information provided by the candidates will be communicated to the University of Calabria’s administrative office and to the Public Institutions directly concerned with the legal and financial position of successful candidates.
3. Candidates are entitled to benefit from the rights stated in Article 7 of Legislative Decree No. 196/2003, including access to personal data, their modification, update, integration, cancellation whether these data are false, incomplete or have been collected illegally, and likewise reserve the right to oppose any use of the data for legitimate reasons.

Art. 15 Person in charge of the procedure

In compliance with Law No. 241 of 7 August 1990, the person in charge of the procedure stated in this announcement is Ms. Sonia Gallo.

Art. 16 Final regulations

1. The provisions of the existing Italian legislation on PhDs and of the University of Calabria “Regulation for PhD courses” apply to any matter not explicitly specified in this announcement.
2. This call for applications is the English translation of the Italian version and is not binding for legal purposes. In the event of dispute or disagreements, the Italian version of this call shall prevail.

THE RECTOR
(Prof. Gino Mirocle Crisci)



Analytical forms
PhD courses
Cycle XXXI – Academic Year 2015/2016

| N° | PhD Programme | Coordinator | Available positions | Pages |
|-----------|--|--------------------------------|----------------------------|--------------|
| 1 | Information and Communication Technologies | Prof. Felice Crupi | 9 | 11-12 |
| 2 | Politics, Culture and Development | Prof. Paolo Jedlowski | 6 | 13-14 |
| 3 | Physical, Chemical and Materials Sciences and Technologies in Convention with the Italian National Research Council (CNR) | Prof. Vincenzo Carbone | 12 | 15-16 |
| 4 | Life Sciences | Prof. Maria Carmela Cerra | 8 | 17-19 |
| 5 | Economic and Business Sciences | Prof.ssa Patrizia Ordine | 4 | 20-21 |
| 6 | Civil and Industrial Engineering | Prof. Franco Furgiuele | 13 | 22-25 |
| 7 | International Phd Programme in Humanities. Texts, Knowledge, Practices: from Classical Antiquity to Contemporary Period | Prof. Roberto De Gaetano | 8 | 26-27 |
| 8 | Translational Medicine | Prof. Sebastiano Andò | 8 | 28-29 |
| 9 | Science and Engineering of the Environment, Construction and Energy | Prof. Pietro Salvatore Pantano | 12 | 30-31 |
| 10 | Mathematics and Computer Sciences | Prof. Nicola Leone | 6 | 32-33 |



ALLEGATO A

PhD Course in INFORMATION AND COMMUNICATION TECHNOLOGIES

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| Coordinator | Prof. Felice CRUPI – Dipartimento di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica - DIMES – Via Pietro Bucci, Arcavacata di Rende (CS) – Phone: +390984.494766 – E-mail: felice.crupi@unical.it |
| Duration | 3 years |
| Main Department | Dipartimento di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica – DIMES |
| Subject areas | Electronics, Electromagnetic Fields, Telecommunications, Automatic Control, Computer Science, Electrical and Electronic Measurements, Electrical Engineering, Numerical Analysis, Operations Research, Sciences of the book and document |
| 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"> • 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. • Large-scale data systems and intensive processing: distributed systems, cloud computing-based architectures and provisioning models. • Modeling and optimization of complex systems. • Software engineering methodologies for the development of complex distributed software systems. • Middleware for the planning and management of intelligent pervasive environments and the Internet of Things. • Models and algorithms for social networks. • Cybersecurity. • Efficient energy management in wireless sensor networks. • Innovative antenna-based sensors for inaccessible areas. • Data transmission in "ad hoc" networks. • Electronic measurement systems. • Reconfigurable antennas. • Smart antennas and their integration. • 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. • Control and estimation for agent-based interconnected network systems. • Secure navigation schemas and environment reconstruction for autonomous robot teams. |



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| | <ul style="list-style-type: none"> • Model predictive control and reference governor techniques. • Fault detection and isolation and control reconfiguration techniques in dynamical systems. • Modeling and design of spintronic nanodevices. | | | |
| Partecipazione requirements | <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. | | | |
| Admission procedures | Qualification assessment 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, 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 | | | |
| | Qualification assessment | | Maximum score 30 | |
| | Research project | | Maximum score 10 | |
| | Curriculum vitae | | Maximum score 20 | |
| | Oral examination Discussion on the proposed research project and on the disciplines of interest for the doctorate. Foreign candidates can take the exam via skype. | | Maximum score 30 punti | |
| Minimum score required for the admission to the oral admission and for the oral examination: 21 pt | | | | |
| Positions and foreign scholarships | Total number of positions: 9 (nine) | | | |
| | <ul style="list-style-type: none"> - 7 positions with scholarship, of which 1 reserved to candidates with foreign scholarship | | <ul style="list-style-type: none"> - 6 granted by University of Calabria; - 1 granted by Senescyt (Ecuador) | |
| | <ul style="list-style-type: none"> - 2 positions without scholarship | | | |
| Agenda | Description | Date | Time | Room |
| | Qualification assessment (presence of candidates not requested) | 21 October 2015 | 10:00 | |
| | Oral examination | 22 October 2015 | 10:00 | Seminar room of DIMES |
| | The results of the exam will be posted on the PhD website: http://dottorato.dimes.unical.it/ | | | |
| Information | felice.crupi@unical.it | | | |
| PhD website | http://dottorato.dimes.unical.it/ | | | |



PhD Course in Politics, Culture and Development

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| Coordinator | Paolo Jedlowski – Department of Social and Political Sciences – Ponte P. Bucci, Cubo 1B – Arcavacata di Rende (CS) – Tel. 0984.492560 – E-mail: paolo.jedlowski@unical.it – SSD: SPS/07. |
| Duration | 3 years |
| Main Department | Department of Social and Political Sciences |
| Subject Areas | IUS/01; IUS/09; IUS/10; IUS/11; IUS/21; L-ANT/03; L-LIN/01; L-LIN/05; L-LIN/07; L-LIN/12; L-LIN/18; L-OR/10; M-PSI/01; M-PSI/04; M-STO/01; M-STO/02; M-STO/03; M-STO/04; SECS-P/02; SPS/04; SPS/07; SPS/08; SPS/09; SPS/10; SPS/11; SPS/12. |
| Research Topics | <p>The research topics correspond to what is dealt with by research groups active in the Departments of Social and Political Sciences, and Languages and Education Sciences, as follows:</p> <ol style="list-style-type: none"> 1. Constitutionalism and Rights ranging from decentralization processes to supranational integration; 2. Institutions, rights, administration; 3. Politics policies, institutions and welfare; 4. Quality of democracy and quality of development; 5. History, philosophy, politics: cultural heritage and transformation processes; 6. Rural studies, territorial development and processes of Globalisation; 7. Social theory and daily life; 8. Tourism, cities, work, environment and territory; 9. Linguistics: Analysis of languages and of pedagogical and didactic perspectives, Albanian Studies and linguistic minorities, in an intercultural perspective; 10. Analysis of socio-psycho-pedagogical processes; 11. Cultural sciences; 12. Contemporary History and Social History; 13. Gender Studies. |
| 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. |
| Assessable qualification | <p>The following assessable qualifications will be considered:</p> <ul style="list-style-type: none"> - <i>Curriculum Vitae</i> and <i>Studiorum</i> (CV); - (eventual) Publications; - Research project (maximum length 4,500 characters, spaces included and eventual bibliography). Project proposals must be sent (Word format accepted) via email to vincenzo.giacco@unical.it indicating the candidate's name and surname and the title of the research proposal in the subject line. Proposals exceeding or which are not in conformity with the outlined parameters will not be taken into consideration. Candidates with an international academic qualification must also submit: <ul style="list-style-type: none"> - "Declaration of value"; - Copy of Bachelor's and Master's Degree, including a list of examinations taken with grades and final marks if provided by their institution (in Italian or English). |
| Assessment criteria | <p><u>Max score 90/90</u></p> <p><u>Assessment of qualifications</u>: max score 30/30</p> <ul style="list-style-type: none"> - CV: max score 15; - Publications: max score 5; |



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| | <p>- Research project: max score 10.</p> <p><u>Written exam (consisting of an essay and an English test):</u> max score 30/30</p> <p>Assessment criteria:</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>Assessment criteria:</p> <p>during the oral examination candidates will be required to discuss the essay produced in the written examination and their presented research projects.</p> <p><i>Minimum score required for admission to the succeeding tests and for the oral examinations: 21 pt.</i></p> |
| Places and scholarships. | <p>Total number of places: 6 (six), of which:</p> <ul style="list-style-type: none"> - 5 with scholarship; - 1 without scholarship. |
| Agenda for the tests | <p><u>Assessment of qualifications:</u> 19 October, 2015 (the presence of candidates is not required).</p> <p><u>Written exam:</u> 21 October, 2015 at 9.00 am (classroom SSP5).</p> <p><u>Oral examination:</u> 23 October, 2015 at 9.00 am (meetings room, Department of Political and Social Sciences, ground floor, cube 0B).</p> <p>The test results will be published on the PhD website at http://www.dottoratopcs.unical.it/</p> |
| For Contact and Information | <p>E-mail: vincenzo.giacco@unical.it;</p> <p>Phone: +39 0984 492508.</p> |
| Phd course website | <p>http://www.dottoratopcs.unical.it/</p> |



PhD Course in *PHYSICAL, CHEMICAL AND MATERIALS SCIENCES AND TECHNOLOGIES IN CONVENTION WITH THE ITALIAN NATIONAL RESEARCH COUNCIL (CNR)*

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| Coordinator | Prof. Vincenzo Carbone, Dipartimento di Fisica, Via Pietro Bucci, Cubo 33B, Tel.: +39 0984/496131, e-mail: vincenzo.carbone@fis.unical.it, SSD: FIS/07. | |
| Duration | 3 Years | |
| Main Department | Physics Department | |
| Subject Areas | FIS/01, FIS/02, FIS/03, FIS/05, FIS/06, FIS/07, CHIM/02, CHIM/03, CHIM/06, ICAR/08 | |
| Research Topics | 1) The nuclear and sub-nuclear scale of matter: Physics of fundamental constituents and quantum description; 2) The atomic and molecular scale of matter: chemistry and physics matter and materials; 3) Matter as a continuous medium: elasticity, fluid and plasmas; 4) Facilities and innovative instrumentations. | |
| Participation Requirements | Degree reached in foreign Universities and legally recognized in Physics, Chemistry, Engineer, Architecture, Geology, Pharmacy and other equivalent degrees. | |
| Admission procedures for reserved position foreign country | Maximum score 60 points | |
| | Documents Evaluation | |
| | Research Project | Maximum score 15 pt |
| | CV | Maximum score 15 pt |
| | Eventual published articles | Maximum score 5 pt |
| | Oral Exam English presentation of the candidate research project and eventual published papers | Maximum score 30 pt |
| Minimum score to reach the position: 21 pt | | |
| Assessable qualification | <ul style="list-style-type: none"> - Curriculum vitae with details of any previous research experience; - Research project; - Eventual published scientific articles. | |
| Positions and scholarship | 12 (twelve) positions distributed in: - 6 University funded; 1 funded by INFN on the topic: " <i>Physics of fundamental interactions</i> ". - 3 funded by CNR on the following topics: 1 position on: " <i>Nano-structured multifunctionalized materials for molecular separation in intensified processes</i> ". 1 position on: " <i>Using facilities of large infrastructures for the study of organic solar cells and hybrid organic-inorganic functionalized nanoparticles</i> ". 1 position on " <i>Development of innovative methods and technologies for the characterization of air pollution</i> ". - 1 funded by Università Bicocca, Milano on the topic: " <i>Innovative instrumentation for X-rays spectroscopy</i> "; - 11 funded positions | |



| | | 1 not funded position | | |
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| Agenda | Evaluation/Exam | Date | Time | Place |
| | CV and project evaluation (the candidate presence is not required) | 19/10/2015 | 9:30 | |
| | Oral Exam | 20/10/2015 | 9:30 | Aula seminari Physics Department, Cubo 31 C, 4 piano, ponte P. Bucci Arcavacata di Rende |
| | The test results will be published on the PhD website at http://www.fis.unical.it/dottorato.php | | | |
| Information | Dott. Alessandro Sole +39 0984/496091 –Dott.ssa Anna Pastore +39 0984/496009 | | | |
| Phd website | http://www.fis.unical.it/dottorato.php | | | |



Phd Course in Life Sciences

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| Coordinator | Prof. Maria Carmela Cerra, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Via Pietro Bucci, Cubo 6/C, Tel.: +39 0984/492907, e-mail: maria_carmela.cerra@unical.it, SSD: BIO/09. |
| Duration | 3 years |
| Main Department | Department of Biology, Ecology and Earth Sciences |
| Subject Areas | BIO/01, BIO/05, BIO/06, BIO/09, BIO/10, BIO/11, BIO/15, BIO/18, CHIM/02, CHIM/09, ICAR/03, ING-IND/09, ING-IND/24, MAT/,09, MED/04 |
| Research Topics | <p>This multidisciplinary Doctorate is focused on the following research topics.</p> <p>Experimental cardiology. Signal transduction mechanisms. Biodiversity. Conservation and wildlife risk. Developmental biology. Neurobiology. Morfofunctional cell alteration in eucariotes. Adaptive biology in aquaculture. Behavioural ecology. Morfofunctional adaptation to environmental stress. Cell physiology. Systems of membrane transport. New estrogens-dependent molecular mechanisms in hormone-sensitive tumors progression.</p> <p>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. Biosystematics of plants. Flora and vegetation of Calabria. Biodiversity and conservation of plant resources. Bio-indicators of the quality of inland waters.</p> <p>Food and pharmacological processes. Renewable energy. Efficiency of energy production processes. Technology of air monitoring. Development of systems for management and control 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.</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-18 Informatica, LM-21 Ingegneria Biomedica; LM-22 Ingegneria Chimica; 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-54 Scienze Chimiche; LM-60 Scienze della Natura; 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); 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche); 10/S (specialistiche in conservazione dei beni architettonici e ambientali); 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</p> |



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| | (specialistiche in ingegneria gestionale), 35/S (specialistiche in ingegneria informatica), 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), 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), 92/S (specialistiche in statistica per la ricerca sperimentale). -Italian Degree (ante DM 509/99) or equivalent to master's degree listed above. -Accademic degree's obtained abroad equivalent to master's degree listen above. | | | |
| Assessable qualification | Total Score 90/90 | | | |
| | Qualification | | Total Score 30/30 | |
| | Research Project | | Total Score: 18 | |
| | CV | | Total Score: 6 | |
| | Degree thesis | | Total Score: 4 | |
| | Other qualifications: Publications, Participation at scientific meetings | | Total Score: 2 | |
| | Written Examination Selection Criteria: The written test will consist of a topic deriving from the different curriculum of the Doctorate Course in "Life Sciences". | | Total Score: 30 | |
| | Oral Examination Selection Criteria: The oral examination will focus on the discussion of the written material, of the research project, curriculum vitae and other evaluating material. | | Total Score: 30 | |
| Minimum Score required for the admission to the next tests and oral examination : score 21/30 | | | | |
| Positions and scholarship | 8 (eight) positions distributed in: | | | |
| | - 6 funded positions | | - 4 University founded; - 1 Cephres on the topics: "Biology and/or physiology of cephalopods". - 1 DIBEST founded. | |
| | - 2 not funded position | | | |
| Agenda | Description | When | Time | Where |
| | Evaluation Qualification (applicant presence not requested) | 20/10/2015 | 10.00 | |
| | Written Examination | 21/10/2015 | 10.00 | Aula Covello (DiBEST) |
| | Oral Examination | 22/10/2015 | 10.00 | Aula Covello |



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| | | | | (DiBEST) |
| Information | Coordinator: Prof. Maria Carmela Cerra, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Tel.: +39 0984/492907, e-mail: maria_carmela.cerra@unical.it | | | |
| Phd website | http://www.dibest.unical.it | | | |



PhD Course in ECONOMIC AND BUSINESS SCIENCES

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| Coordinator | Professor Patrizia Ordine – Department of Economics, Statistics and Finance – Cubo 1C - Arcavacata di Rende (CS) – Tel.: 0984.492458 – E-mail: p.ordine@unical.it – Subject Area: SECS-P/02 | | | |
| Duration | 3 years | | | |
| Main Department | Department of Economics, Statistics and Finance (Other Department involved: Department of Business and Law) | | | |
| Subject Areas | SECS-P/01, SECS-P/02, SECS-P/06, SECS-P/08, SECS-P/09, SECS-P/11, IUS/09, MAT/09, SECS-S/01, SECS-S/06 | | | |
| Research Topics | The doctoral program is intended to develop competencies on theoretical and applied economics, statistics, finance and business. These competencies may be used in various jobs, i.e. universities and research departments, both national and international, as well as in non profit organizations. | | | |
| Participation Requirements | <ul style="list-style-type: none"> - Italian Master Degree (DM 270/04): LM-16 Finanza, LM-40 Matematica, LM-56 Scienze dell'Economia, LM-77 Scienze economico-aziendali, LM-82 Scienze statistiche, LM-83 Scienze statistiche attuariali e finanziarie; - Italian Master Degree (ex DM 509/99): 19/S (specialistiche in finanza), 45/S (specialistiche in matematica), 64/S (specialistiche in scienze dell'economia), 84/S (specialistiche in scienze economico-aziendali), 91/S (specialistiche in statistica economica, finanziaria ed attuariale); - Italian BA Degree (ante DM 509/99) or equivalent to master degree listed above; - Academic degree obtained abroad equivalent to master and BA degree listed above. | | | |
| Admission procedures | Evaluation of qualifications and oral examination | | | |
| Assessable qualification | <ul style="list-style-type: none"> - Curriculum Vitae e Studiorum (CV) - Research Project - English language certification (if available) | | | |
| Assessment criteria | Total Score 60/60 | | | |
| | Evaluation qualification | | Total Score: 30/30 | |
| | Research Project | | Total Score: 8/30 | |
| | CV | | Total Score: 20/30 | |
| | English Language | | Total Score: 2/30 | |
| | Oral Examination Selection Criteria: Oral examination on economic theory and applied economics and on the research proposal. | | Total Score: 30/30 | |
| Minimum Score required to be admitted to the next tests and to the oral examination: score 20/30 | | | | |
| Positions and scholarship | 4 (four) position with scholarship | | | |
| Agenda | Description | When | Time | Where |
| | Evaluation Qualification (applicant presence not requested) | Wednesday October 28th, 2015 | 09:00 a.m. | |



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| | Oral Examination | Wednesday October 28th, 2015 | 02:00 p.m. | Dep. of Economics, Statistics and Finance |
| | The results of the exam will be posted on the site: http://www.ecostat.unical.it/dea/ | | | |
| Information | University of Calabria Ponte Pietro Bucci, Cubo 0/C 87036 Arcavacata di Rende (CS) – Italy Coordinator of the PhD: Professor Patrizia Ordine Tel.: 0984/492458 Fax: 0984/492421 Email: p.ordine@unical.it | | | |
| Phd website | http://www.ecostat.unical.it/dea/ | | | |



PhD Course in Civil and Industrial Engineering

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| Coordinator | Prof. Franco FURGIUELE – Dipartimento di Ingegneria Meccanica, Energetica e Gestionale - DIMEG – Via Pietro Bucci, Cubo 46C - Arcavacata di Rende (CS) – Tel.: 0984.494827 – E-mail: furgiuale@unical.it – SSD: ING-IND/14 |
| Duration | 3 years |
| Proposer Department | Department of Mechanical, Energy and Management Engineering |
| Other Department Involved | Department of Civil Engineering |
| Scientific Areas | ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/06, ICAR/07, ICAR/08, ICAR/09, 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/35. |
| Research Topics | The PhD program aims to improve and develop skills and knowledge related to the two curricula of reference: Civil Engineering and Industrial Engineering |
| Participation Requirements | <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-23 Civil Engineering, LM-26 Safety Engineering, LM-28 Electrical Engineering, LM-30 Energy and Nuclear Engineering, LM-31 Management Engineering, LM-33 Mechanical Engineering, LM-35 Engineering for the Environment and Territory; – 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), 28/S (Master in Civil Engineering), 31/S (Master in Electrical Engineering), 33/S (Master in Energy and Nuclear Engineering), 34/S (Master in Management Engineering), 36/S (Master in Mechanical Engineering), 38/S (Master in Engineering for the Environment and Territory); – 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. |
| Participation requirements for the position funded within the DEMETRA project | <p>This position is funded in the frame of the DEMETRA research project. Eligible candidates are those who have already been selected as Marie Curie Early Stage Researchers in the DEMETRA project.</p> <p>The required academic degree is one of the degrees listed as participation requirements for all applicants.</p> |
| Admission procedure | Evaluation of qualifications and written and oral exam. |
| Admission procedure for reserved positions | Evaluation of qualifications and oral exam. |
| Qualifications and document evaluable | <ul style="list-style-type: none"> – Curriculum vitae et studiorum (CV); – Research project proposed by the candidate; – Any publications related to the PhD themes; – Any Master and Research Grants related to the PhD themes. |



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| Evaluation Criteria | Maximum score 90 points | |
| | Evaluation of qualifications | Maximum score 30 points |
| | Research Project | Maximum score 15 points |
| | CV | Maximum score 9 points |
| | Publications related to the Ph D topics | Maximum score 3 points |
| | Master and Research Grants related to the Ph D topics | Maximum score 3 points |
| | Written Exam Examination procedures: The candidate must argue one of the themes proposed by the Commission selected by the Academic Board. The topics will focus on issues related to the two curricula of Reference for the PhD (Civil Engineering and Industrial Engineering). The time to complete the test is three hours. | Maximum score 30 points |
| Oral Exam Examination procedures: The oral examination is based on the discussion of the research project proposed by the applicant, the theme argued in the written exam 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 to enter the subsequent tests and to pass the oral exam is: 21 points. | | |
| Evaluation Criteria for reserved positions | Maximum score 60 points | |
| | Evaluation of qualifications | Maximum score 30 points |
| | Research Project | Maximum score 15 points |
| | CV | Maximum score 15 points |
| | Oral Exam – DEMETRA project The oral examination will consist of an interview in English on the following topics: <ol style="list-style-type: none"> 1. Dynamic study of mechanical transmissions; 2. Vibration measurement in mechanical systems; 3. Dynamic simulation of mechanical systems by means of Finite Element and Multibody techniques. | Maximum score 30 points |
| | Oral Exam – PON01_02543 The oral examination will consist of an interview on the following topics: <ol style="list-style-type: none"> 1. General characteristics of the buildings | Maximum score 30 points |



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| | NZEB; 2. Parameters for characterization of opaque walls; 3. The influence of occupants on energy consumption. | |
| | Oral Exam – PAC02_00192 The oral examination will consist of an interview on the following topics: 1. Modeling & Simulation for decision support and training in complex systems 2. Standard for Distributed Simulation and web simulation 3. Verification, Validation and Accreditation for simulation models. | Maximum score 30 points |
| | Oral Exam – CAMILab1 Oral exam can be in English for foreign applicants, and will focus on the following topics: 1. Mathematical modeling of hydrological processes involved in the water cycle; 2. Groundwater flow modelling; 3. Slope stability. | Maximum score 30 points |
| | Oral Exam – CAMILab2 Oral exam can be in English for foreign applicants, and will focus on the following topics: 1. Mathematical modeling of hydrological processes involved in the water cycle; 2. Stochastic processes; 3. Early warning systems. | Maximum score 30 points |
| | The minimum score to enter the subsequent tests and to pass the oral exam is: 21 points. | |
| | n. 13 positions: n. 11 positions with grant and n. 2 positions without grant | |
| Positions and grants | n. 11 positions with grant (5 out of 11 are reserved positions) | <ul style="list-style-type: none"> - n. 6 grants funded by UniCal; - n. 3 grant funded by DIMEG: 1) DEMETRA project – Design of Mechanical Transmissions: Efficiency, Noise and Durability Optimization; 2) PON R&C 2007-2013 PON01_02543 on research theme: "Innovative solutions for buildings NZEB and active behavior of the occupants"; 3) PAC02_00192 project – titled SG-ICT on the research theme: “Simulation and serious games to support decision making, education and training in complex systems”. |



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| | | – n. 2 grant funded by DIMES: 1) CAMILab1 Mathematical and physical modelling of triggering and propagation of landslides induced by rainfall; 2) CAMILab2 Mathematical models for spatial and temporal simulation of heavy rainfall events, aimed at nowcasting. | | |
| Diary of the Examinations | Exam | Date | Hour | Location |
| | Evaluation of qualifications (the presence of the candidates is not required) | Wednesday 21/10/2015 | 9:00 | |
| | Written Exam | Friday 23/10/2015 | 9:00 | Room “G. Giannattasio” - DINCI, cubo 45B, upper bridge level |
| | Oral Exam | Wednesday 28/10/2015 | 9:00 | Room “G. Giannattasio” - DINCI, cubo 45B, upper bridge level |
| | The results will be published on the PhD website at: http://www.ingegneriacivile.unical.it/ http://www.unical.it/portale/strutture/dipartimenti_240/dimeg/didattica/dottorato/ | | | |
| Diary of the Examinations for the reserved positions | Exam | Date | Hour | Location |
| | Evaluation of qualifications (the presence of the candidates is not required) | Wednesday 21/10/2015 | 9:00 | Room “G. Giannattasio” - DINCI, cubo 45B, upper bridge level |
| | Oral Exam | Wednesday 28/10/2015 | 9:00 | Room “G. Giannattasio” - DINCI, cubo 45B, upper bridge level |
| | The results will be published on the PhD website at: http://www.ingegneriacivile.unical.it/ http://www.unical.it/portale/strutture/dipartimenti_240/dimeg/didattica/dottorato/ | | | |
| For further information | furguele@unical.it , roberto.gaudio@unical.it , giovanni.mirabelli@unical.it | | | |
| Web page of the course | http://www.unical.it/portale/strutture/dipartimenti_240/dimeg/didattica/dottorato/ | | | |



INTERNATIONAL PhD PROGRAMME IN HUMANITIES.
TEXTS, KNOWLEDGE, PRACTICES: FROM CLASSICAL ANTIQUITY TO CONTEMPORARY PERIOD

| | | |
|---|---|----------------------------------|
| Coordinator | Prof. Roberto De Gaetano – Department of Humanities – Via Pietro Bucci, Cubo 28/B – 87036 Arcavacata di Rende (CS) - e-mail: rob.degaetano@gmail.com - SSD: L-ART/ 06 | |
| Duration | 3 Years | |
| Main Department | Department of Humanities | |
| Subject Areas | L-ANT/02, L-ANT/07, L-ANT/08, L-ART/02, L-ART/05, L-ART/06, 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-LIN/02, L-LIN/04, L-LIN/10, L-LIN/11, L-LIN/12, L-LIN/17, M-DEA/01, M-FIL/01, M-FIL/03, M-FIL/04, M-FIL/05, M-FIL/06, M-FIL/08, M-GGR/01, M-PED/01, M-PED/02, M-PED/03, M-STO/01, M-STO/02, M-STO/05. | |
| Research Topics | The PhD programme intends to mould scholars both in the more traditional and the newer subjects of humanities (from classical and modern literature to philosophy, from philology to history of arts, from history to archeology, branches of communication and performing arts) according to a ‘genealogical’ perspective, that connects the contemporary period with the past of tradition, and can understand the roots of classical knowledge grasping joint elements and continuity. | |
| Participation Requirements | Italian University Degree (ante DM 509/1999) or Italian Specialist/ Master's Degree (ex DM 509/1999 e DM 270/2004) or equivalent Degree obtained abroad. | |
| Admission Procedures | Evaluation of Qualifications, Written and oral examination. | |
| Mandatory documents to be enclosed | Curriculum Vitae et Studiorum (CV) Research Project | |
| Assessment Criteria | Total Score 90/90 | |
| | Evaluation of Qualifications | <i>Total maximum Score 30/30</i> |
| | Research Project | Total score: 5 |
| | Curriculum Vitae et Studiorum (CV) | Total score: 20 |
| | Publications with ISSN/ISBN code | Total score: 5 |
| | Written Examination | <i>Total maximum Score 30/30</i> |
| | <p><u>Criteria:</u> Applicants must show an in-depth knowledge about topics and issues concerning humanities.</p> <p>In particular, the written examination will assess:</p> <ul style="list-style-type: none"> - Novelty and meaningfulness of the written examination paper; - Expository clarity and consistency; - Methodological awareness. | |
| | Oral Examination | <i>Total maximum Score 30/30</i> |
| | <p><u>Criteria:</u> Applicants must explain the written examination and his/her research project.</p> <p>In particular, the oral examination will assess:</p> <ul style="list-style-type: none"> - Novelty and meaningfulness; - Expository clarity and consistency; - Methodological awareness. <p>During the oral examination, the knowledge of Italian language will be assessed.</p> | |



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| | Minimum Score required for the admission to the next tests and for passing the oral examination: score 21/30. | | | |
| Positions and scholarships | 8 (eight) positions of which: <ul style="list-style-type: none"> - 6 positions granted by University of Calabria - 2 position without grant | | | |
| Agenda | Description | When | Time | Where |
| | Evaluation of Qualifications (applicant presence not required) | Wednesday, October 21, 2015 | 10:00 a.m. | |
| | Written Examination | Friday, October 23, 2015 | 10:00 a.m. | Room "Mario Alcaro", cubo 28/b (ground floor) University of Calabria |
| | Oral Examination | Tuesday, October 27, 2015 | 10:00 a.m. | Room "Mario Alcaro", cubo 28/b (ground floor) University of Calabria |
| | The results will be published on the PhD website at: http://www.unical.it/portale/strutture/dipartimenti_240/dsu/ | | | |
| Information | disu@unical.it | | | |
| Phd website | http://www.unical.it/portale/strutture/dipartimenti_240/dsu/ | | | |



PhD Course in Doctorate in Translational Medicine

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|---|---|--------------------------|
| Coordinator | Professor Sebastiano Ando' – Department of Pharmacy, Health and Nutritional Sciences– Edificio Polifunzionale - Arcavacata di Rende (CS) – Tel.: 0984.493109 E-mail: sebastiano.ando@unical.it | |
| Duration | 3 years | |
| Main Department | Department of Pharmacy, Health and Nutritional Sciences | |
| Subject Areas | AGR/15, BIO/10, BIO/12,BIO/13, BIO/14, BIO/15, BIO/16, CHIM/01, CHIM/02, CHIM/03, CHIM/06, CHIM/08, CHIM/09, MED/03, MED/04, MED/05, MED/07, MED/46, MED/49 | |
| Research Topics | a) Molecular design b) Molecular basis of diseases and therapeutic approaches for TM | |
| Participation Requirements | <p>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-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-71 Scienze e tecnologie della chimica industriale, LM/SNT3 Scienze delle professioni sanitarie tecniche, LM/SNT4Scienze delle professioni sanitarie della prevenzione;</p> <p>-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), 46/S(specialistiche in medicina e chirurgia), 61/S (specialistiche in scienza e ingegneria dei materiali), 62/S (specialistiche inscienze chimiche), 79/S (specialistiche inscienze 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);</p> <p>- Italian Degree (ante DM 509/99) or equivalent to master's degree listed above.</p> <p>- Academic degree's obtained abroad equivalent to master's degree listen above.</p> | |
| Assessable qualification | Evaluation of qualifications and oral examination. During the oral examination, the knowledge of the English Language will be assessed. | |
| Assessment criteria | Total Score 60/60 | |
| | Evaluation Qualification | Total score 30/30 |
| | Research Project | Score 18 |
| | CV | Score 7 |
| | Academic qualification | Score 3 |
| | Publications | Score 2 |
| | Oral Examination and knowledge of the English Language | Total score 30/30 |
| Minimum Score required for the admission to the oral examination: score 21/60 | | |



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| Positions and scholarship | Total number of position 8 of which 6 position granted by University of Calabria; | | | |
| Agenda | Test | Date | Time | Room |
| | Evaluation Qualification (applicant presence not requested) | 10/23/2015 | 9:00 am | |
| | Oral examination | 10/26/2014 | 4:00 pm | Aula Seminari Department of Pharmacy, Health and Nutritional Sciences University of Calabria |
| | The results will be published on the PhD website at: www.unical.it/portale/strutture/dipartimenti_240/dfssn/postlaurea/dottorati/ | | | |
| Information | Dott.ssa Gemma Capparelli Department of Pharmacy, Health and Nutritional Sciences Tel. 0984-493109 Fax. 0984-493107 Email: gemma.capparelli@unical.it | | | |
| PhD website | www.unical.it/portale/strutture/dipartimenti_240/dfssn/postlaurea/dottorati/ | | | |



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

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| Coordinator | Prof. Pietro Salvatore Pantano - Dipartimento di Fisica – Via Pietro Bucci – Cubo 17B - Tel.: 0984/494361 – E-mail: piepa@unical.it – SSD: MAT/07 | |
| Duration | 3 years | |
| Proposer Department | Department of Environmental Engineering and Chemical Engineering and Land - DIATIC | |
| Scientific sectors | MAT/07, CHIM/06, CHIM/07, FIS/01, FIS/07, GEO/01, GEO/02, GEO/04, GEO/03, GEO/07, GEO/08, GEO/09, ICAR/02, ICAR/07, ICAR/08, ICAR/09, ICAR/10, ING-IND/22, ING-IND/24, ING-IND/25, ING-IND/26, ING-IND/27, ING-IND/33, ING-INF/01, ING-INF/04, M-PSI/01 | |
| Research topics | <p>The PhD program aims at developing skills in basic and applied sciences, 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, • resources and natural hazards, soil conservation and pollution, • territory, architecture, buildings and cultural heritage, • energy, innovative materials and industrial change, • communication and dissemination of scientific and technological culture / science education. | |
| 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 | Maximum score 30 points |



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| | level of expertise in a foreign language. | | | |
| | The minimum threshold for being admitted to the oral examination and positive oral examination is of 21 points | | | |
| Application scholarships | 12 (twelve) applications, organized as follows: | | | |
| | - 9 scholarships | The 9 scholarships are as follows: - 5 grants funded by UNICAL; - 1 grant funded by “Fondazione Salvatore Baffa-Adele Lucchetta e Figli - ONLUS” and Project on the topics: “ <i>Inland areas, innovative processes for the emerging community</i> ”; - 3 grants funded by Unical and ENEA, ITM and Project on the topics: a) <i>Design and specification of building automation system and microgrid for implementation of power cloud systems.</i> b) <i>Preparation and characterization of photocatalysts for the synthesis of compounds of industrial interest in membrane reactors.</i> | | |
| | - 3 position without grant | | | |
| Agenda | Test | Date | Time | Room |
| | Assessment of documents and publications (the presence of applicants is not required) | October 19, 2015 | 15:00 | |
| | Oral examination | October 13, 2014 | 15:00 | Seminar Room ESG, Cubo 17B, VI piano |
| | The test results will be posted on the access door on the sixth floor of the cube 17B | | | |
| Contact for information | PhD course Coordinator piepa@unical.it | | | |
| PhD website | http://www.phd-siace.unical.it/ | | | |



Doctorate in Mathematics and Computer Science

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| Coordinator | Professor Nicola LEONE, Department of Mathematics and Computer Science, Via Pietro Bucci, Cubo 30B, Tel.: +39 0984/496433, e-mail: leone@mat.unical.it, Subject Area: INF/01. |
| Duration | 3 years |
| Main Department | Department of Mathematics and Computer Science |
| Subject Areas | Computer Science, Geometry, Complementary Mathematics, Mathematical Analysis, Probability and Statistics, Mathematical Physics, Operations Research |
| Research Topics | <p>The main research topics concerned in the doctor's degree are listed below:</p> <ul style="list-style-type: none"> • Artificial Intelligence, Knowledge Representation and Reasoning, Answer Set Programming, Logic Programming, Constraint Satisfaction Problems. • 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. • Combinatorics • Study of canonical models of surfaces of general type. Algebraic curves and their moduli spaces, Groups and Graphs. • Relationships between algebra and geometry and geometry and mathematical physics in modern and contemporary art. Historical developments of the theory of decisions. History of mathematics in education. Mathematics Education with particular reference to the role and use of technology in teaching and learning • Calculation of variations. Variational methods in Nonlinear Analysis; Theory of critical points and applications to nonlinear partial derived equations. Geometry of Banach spaces; Ordinary differential equations problems differential to the edge and not local. Methods of approximation implicit and explicit. Minimum problems and projections. Solutions to problems of equilibrium (mixed and generalized). Uniform distribution and discrepancy. Almost Monte Carlo integration methods. • Processes and random fields, namely: percolation, statistical mechanics, interacting particle systems, dynamic systems, quantitative finance, stochastic simulation and mathematical statistics. • Problems of Quantum Theory. Group-theoretic approach to the theory of the interaction. Semiclassical models and quantum for the transport of current and heat in semiconductors. Problems coupling devices-electrical networks. • Sequences of Sheffer polynomials and approximation of operators involved. Numerical approximation of solutions of partial differential equations of high order and with boundary conditions that initial. Approximations for Scattered Data Interpolation and rational. Applications of mathematics 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 |



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| | (ante DM 509/1999). | | | |
| Admission Procedures | Evaluation of qualifications, written examination and oral examination. The knowledge of the English Language will be assessed during the oral examination | | | |
| Assessable qualification | - 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) An additional copy of above-mentioned documents has to send to the following e-mail address: phd@mat.unical.it | | | |
| Assessment criteria | Total Score 90/90 | | | |
| | Assessable Qualification | | Total Score 30/30 | |
| | Research Project | Total Score 6 | | |
| | Curriculum vitae et studiorum | Total Score 24 | | |
| | Written Exam Operating methods: an essay and two exercises on the disciplines pertaining to the doctorate. | Total Score 30/30 | | |
| | Oral Examination Operating methods: discussion about the project and written examination. Interview on the disciplines of interest for the doctorate. Foreign candidates can take the exam via skype. | Total Score 30/30 | | |
| | Minimum Score required for the admission to the next tests and for the oral examination: score 21/30 . | | | |
| Positions and scholarship | 6 (six) applications, organized as follows - 5 position granted by University of Calabria - 1 position without grant | | | |
| Agenda | Description | When | Time | Where |
| | Assessable qualification (applicants presence not requested) | October 21, 2015 | | MT10 |
| | Written Exam | October 23, 2015 | 3:00 p.m. | MT10 |
| | Oral Examination | October 29, 2015 | 3:00 p.m. | MT10 |
| | The results of the exam will be posted on the site: www.mat.unical.it/phd/Admission | | | |
| Information | alessia.cosentino@unical.it | | | |
| Phd website | www.mat.unical.it/phd | | | |



ANNEX B

Affidavit (art. 46 D.P.R.28 dicembre 2000 n. 445)

The undersigned _____ Italian Tax code _____
born in (country and city) _____ (____) on
____/____/____, living in _____ (____) full
address _____ n° _____

I understand that any incorrect information and false statements are subject to the penalties provided under the Italian penal code and all other applicable laws (art. 46 DPR 445/2000):

hereby declare

Place and date, _____

Declared by
(legible signature)

Please note: information reported on this affidavit will be used for the official purpose for which they have been required (D.Lgs. n. 196/2003).