



Università degli Studi di Cagliari

DIREZIONE PER LA DIDATTICA E L'ORIENTAMENTO

SETTORE DOTTORATI E MASTER

Dirigente Giuseppa Locci

Funzionario responsabile Monica Melis

2ND LEVEL PROFESSIONAL MASTER'S PROGRAMME
IN SPACE OPTICAL DESIGN AND REMOTE SENSING
A.Y. 2019/2020

The official announcement is in Italian only
(Rector's Decree no. 1101 of October 8th 2019)

ART. 1 - PROFESSIONAL MASTER'S PROGRAMME IN SPACE OPTICAL DESIGN AND REMOTE SENSING

For the academic year 2019/2020 the University of Cagliari (UniCa) announces a public selection for the admission to the 2nd level Professional Master's Programme in **SPACE OPTICAL DESIGN AND REMOTE SENSING** (Duration: 8 months; Credits: 60), in cooperation with Regione Autonoma della Sardegna, European Space Agency (ESA) and Agenzia Spaziale Italiana (ASI).

ART. 2 - DEPARTMENT IN CHARGE OF THE PROGRAMME

The Department in charge of the Programme is at the Department of Electrical and Electronic Engineering.

ART. 3 - EDUCATIONAL OBJECTIVES

The 2nd level Professional Master's Programme in Space Optics and Remote Sensing aims at training professionals with skills usually divided between the fields of Physics and Engineering. In particular, the trained student will be enabled to design optical devices and apparatuses, up to the industrial prototyping level, starting from the fundamentals of Optics, of Photonics, of Material Science, of Electronics and of the manufacturing technologies.

The training is developed in close cooperation with the European Space Agency ESA, which, since 2016, has established in Sardinia the venue for its international schools on that topics. This implies on one side the direct involvement of ESA in the design itself of the Programme, in teaching, in student tutoring and in providing stages, and on the other hand the attraction towards the same activities of selected important Sardinian and European companies, operating in the field of optical instruments for aerospace and remote sensing.

This Programme is configured as an international Higher Education Course, and aims at attracting students who, for the most part, are already active in European companies and research centers.

However, the support granted by the government of the Regione Autonoma della Sardegna (RAS) for a number of fellowships reserved to Sardinian students ensures the benefits of such training also on the regional territory.

The proposed curriculum follows the objectives below:

Knowledge and understanding of:

- Fundamentals of Optics and Optical Design
- Optical Devices and Apparatuses
- Remote Sensing and its applications.

Applying knowledge and understanding of:

- Design and production
- Measurement protocols
- Reliability of optical devices and apparatuses.

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Making judgements in terms of:

- ability to decide about design and process methods and tools that are most suitable for the targeted results for both their own job and for guiding the technical staff.

Communication skills:

- Intended as the ability to cooperate to the design of the activity and to transfer the technical advice to other people, with clarity and competence, in order to get the targeted results

Lifelong learning skills:

- Intended as the ability to search and assimilate the information required for the continuous updating and improvement of the activity.

ART. 4 - ORGANIZATION OF THE PROGRAMME

The training programme is divided into:

- 392 hours of classroom lessons in English (49 credits);
- 250 hours of apprenticeship at ASI, INAF-OAC, as well as Italian and foreign companies, like Altran, OHB, Cosine, Leonardo, REOSC, Amos, Vito, Filaroptomaterials (10 credits);
- 8 hours for the final examination (1 credit);
- 850 hours of self-study.

EDUCATIONAL PLAN

SUBJECTS	CREDITS	HOURS	DISCIPLINARY SCIENTIFIC SECTOR
FUNDAMENTALS			
FUNDAMENTAL OF IMAGING OPTICS	2	16	FIS/01
ELETTROMAGNETIC OPTICS	2	16	ING-INF/02
FUNDAMENTALS OF SCALAR DIFFRACTION THEORY	1	8	ING-INF/01
OPTICAL DESIGN			
OPTICAL CAD INSTRUMENT MODELLING AND ANALYSIS I	1,5	12	ING-INF/02
OPTICAL CAD INSTRUMENT MODELLING AND ANALYSIS II	1	8	ING-INF/02
LENS DESIGN & OPTICAL SYSTEMS	3	24	FIS/01
RADIOMETRIC MODELLING	2,5	20	ING-INF/02
OPTO-MECHANICAL DESIGN	2,5	20	FIS/01
THERMAL ANALYSIS AND DESIGN	2	16	FIS/01
COATINGS AND FILTERS DESIGN	1,5	12	ING-INF/01
STRAY LIGHT ANALYSIS AND MINIMIZATION	1,5	12	FIS/01
OPTOELECTRONICS			
ADAPTIVE OPTICS	2	16	FIS/05
PHOTODETECTORS	1	8	ING-INF/01
BASICS OF FRONT-END ELECTRONICS	1	8	ING-INF/01
FUNDAMENTALS OF LASERS	1	8	FIS/01
LIDAR	1	8	ING-INF/02
MANUFACTURING AND ASSEMBLY			
LENS AND MIRROR MANUFACTURING	2	16	FIS/01
OPTICS ALIGNMENT AND MOUNTING	1	8	FIS/01
VERIFICATION PROCESS IN SPACE AND TESTING	3	24	ING-INF/01

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HYPERSPETRAL OPTICAL INSTRUMENTS CALIBRATION	2	16	FIS/01
CLEANLINESS AND CONTAMINATION CONTROL (FOR SPACE APPLICATIONS)	0,5	4	ING-INF/01
RELIABILITY	1	8	ING-INF/01
HANDS-ON ACTIVITIES			
HANDS-ON SESSION I SPECTROMETER DESIGN	1	8	FIS/01
HANDS-ON SESSION II	1	8	FIS/01
REMOTE SENSING			
SATELLITES, DRONES AND OPTICAL INSTRUMENTS FOR EARTH OBSERVATION	2	16	ING-INF/02
SATELLITES AND OPTICAL INSTRUMENTS FOR ASTRONOMY	2	16	FIS/05
FUNDAMENTALS OF IMAGE PROCESSING FOR REMOTE SENSING	2	16	ING-INF/03
FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE	2	16	ICAR/20
NUMERICAL METHODS FOR INVERSE PROBLEMS	1	8	MAT/08
REMOTE SENSING FOR LAND MANAGEMENT	1	8	ICAR/20
STARTUPS, SPINOFFS AND INCUBATORS	1	8	SECS-P/10
CLASSROOM LESSONS	49	392	
APPRENTISHIP	10	250	
FINAL EXAMINATION	1	8	
SELF-STUDY		850	
TOTAL	60	1500	

ART. 5 - AVAILABLE POSITIONS

The programme is open to a maximum of 20 students.

The programme will start only if at least 15 students are admitted.

ART. 6 - ELIGIBILITY REQUIREMENTS FOR SELECTION

The Admission to the Programme is open to graduates, regardless of nationality, holding (ref. to the [Italian university system](#)):

- a degree awarded according to the Italian Ministerial Decree no. 270/2004 (*laurea magistrale*) or
- a degree awarded according to the Italian Ministerial Decree no. 509/1999 (*laurea specialistica*) or
- a degree awarded according to the regulations established before the Italian Ministerial Decree no. 509/1999 (*laurea*)

in Physics, Electronic Engineering, Electrical Engineering, Telecommunications Engineering, Aerospace Engineering, Mechanical Engineering, Mathematics.

The admission is also open to candidates holding an academic qualification (2nd cycle university degree: Master-level) issued by a foreign university recognized as equivalent.

The foreign university degree must be evaluated suitable and equivalent, in terms of duration, level of degree and fields of study to the degree listed above.

The Examination Board will deliberate on equivalence, in compliance with the current legislation in Italy and in the Country where it was issued, and with international treaties or agreements concerning the recognition of qualifications for further studies for the sole purpose of admission to the 2nd level Professional Master's Programme.

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Admission is also open to students who are going to graduate not later than the selection date. These candidates will be admitted with reservation and will submit a certificate (only for degrees obtained abroad) or a self-declaration of their graduation together with a copy of a valid ID. The certificate/self-declaration can be sent to dottoratiemaster@unica.it, or delivered by hand.

If the applicant is evaluated positively to be admitted to the 2nd level Professional Master's Programme but he/she will not be awarded the necessary degree by the above-mentioned date, he/she will lose that suitable position.

ART. 7 - HOW TO APPLY

To participate in the selection, candidates can apply through the online procedure available on the webpage 'Servizi Online' of UniCa website at <https://webstudenti.unica.it/esse3/Start.do> **from the date of the publication of the present Notice of Competition to 11th November 2019 at 12:00 p.m. (local time).**

In the event that, close to the deadline, the number of candidates will be lower than 15, the deadline will be postponed automatically. The new deadline will be published on UniCa website at: https://www.unica.it/unica/it/studenti_s01_ss06.page (News and Deadlines).

Guidelines on how to apply are available at https://www.unica.it/unica/it/studenti_s01_ss06.page. At the following link, you will find a list of computers available for applicants: https://www.unica.it/unica/it/ateneo_s03_ss04.page.

According to Italian Presidential Decree no. 445/2000, art. 46, applicants must provide the following information for the online procedure:

- name and surname, Italian tax identification code (*codice fiscale*) – for candidates applying for the first time, place and date of birth, residence address, telephone number, e-mail and current address where correspondence related to the selection can be sent;
- citizenship;
- exact name of the professional master's programme selected;
- name of University degree, date of graduation, final grade, name of the issuing University;
- to possess the eligibility requirements reported in the call for applications and to be aware of the text of the call;
- to be aware of being subject to penalty if any information provided is later found to be untrue according to Italian Presidential Decree no. 445/2000, art. 76;
- to have read the [notice](#) no. 2016/679 issued according to EU Regulations and the Italian Law in force, about the protection of people regarding the treatment of personal data, as well as on the free circulation of data;
- to give the consent to communicate and disseminate his/her own personal data for the purposes of the present Professional Master's Call.

According to the art. 20 of the Italian Law no. 104/92, applicants with disabilities must specify in their application the required assistance for their needs, including possible requests for additional time for the completion of the tests, by sending an e-mail to the PhD and Professional Master Office, which could involve SIA - UniCa Office for Disability.

The sensitive data reported for this purpose will be kept secret and processed in accordance with the provisions currently in force.

ITALIAN APPLICANTS HOLDING A UNIVERSITY DEGREE ISSUED IN ITALY OR ABROAD AND FOREIGN APPLICANTS HOLDING AN ITALIAN UNIVERSITY DEGREE

Italian and foreign applicants holding a degree issued in Italy, at the end of the online compiling procedure, will have to upload the following documents in PDF format (each file not exceeding 1 MB):

- "Curriculum Vitae" (Qualifications to be evaluated and Curriculum Vitae);

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- “*Dichiarazione sostitutiva di certificazioni del/i titolo/i di accesso con esami e voti*” (Replacement declaration of degree(s) listing exams and marks) - form available at: https://www.unica.it/unica/it/studenti_s01_ss06.page); it can be substituted with a self-declaration downloadable at the webpage of the University issuing the degree (note that CERTIFICATES RELATED TO THE DEGREE CANNOT BE ATTACHED; YOU CAN ONLY ATTACH SELF-DECLARATIONS OR REPLACEMENT (SELF)DECLARATIONS FOR CERTIFICATIONS). Applicants holding a degree issued by the University of Cagliari can download their replacement declaration for certifications from their personal webpage, in the reserved area of the online Students’ services at <https://webstudenti.unica.it/esse3/Start.do>: “*Autodichiarazione Conseguimento Titolo con Esami*”;
- two-sided coloured copy of a valid ID, with a clear photo;
- other documents to be evaluated.

According to the art. 40 of the Italian Presidential Decree no. 445/2000, public bodies can no longer receive or request from private citizens certificates issued by other public institutions. Therefore, all qualifications must be provided only through a self-declaration of certifications or a self-declaration affidavit, according to articles 46 and 47 of the Italian Presidential Decree no. 445/2000. Publications and other qualifications issued by private bodies, which cannot be self-declared, must be provided in copy together with a self-declaration affidavit attesting their conformity to the original version, according to the articles 19 and 19-bis of the Italian Presidential Decree no. 445/2000.

Both the form and the documents attached will be acquired by the University at the closing of the online enrolment procedure.

DOCUMENTS CAN BE UPLOADED UNTIL 11th NOVEMBER 2019, 12 P.M. (LOCAL TIME).

FOREIGN APPLICANTS HOLDING A UNIVERSITY DEGREE ISSUED ABROAD

Foreign applicants holding a university degree issued abroad must fill in the online application and upload the following documents in PDF format (each file not exceeding 1 MB):

- certificate attesting the award of a 2nd level foreign degree needed to access a 2nd level Professional Master’s Programme, including exams and marks, with a translation in Italian or English;
- certificate attesting the award of a 1st level foreign degree, including exams and marks, with a translation in Italian or English;
- signed Curriculum Vitae preferably in EU format, in English or Italian;
- additional qualifications, certifications, publications and work experiences, detailed in English or in Italian;
- two-sided coloured copy of a valid ID, with a clear photo.

If the foreign degree has already been declared equivalent to the Italian degree reported in art. 2 by another Italian University, the candidate will report the reference of the University and the number of Rector’s decree of the declaration of equivalence.

Otherwise, if the foreign degree has not been considered equivalent, the Examination Board will deliberate on its equivalence, in compliance with the current legislation in Italy and in the Country where it was issued and with the international treaties or agreements concerning the recognition of qualifications for further studies, for the sole purpose of admission to the Professional Master’s programme.

EU citizens can submit their replacement declarations according to art. 46, 47, 19 and 19is of the Italian Presidential Decree no. 445/2000.

Non-EU citizens, legally resident in Italy, can provide the above-mentioned replacement declarations, only with reference to situations, personal qualities and facts which can be certified or attested by Italian public bodies.

Both the form and all the documents attached will be acquired by the University at the closing of the online enrolment procedure.

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DOCUMENTS CAN BE UPLOADED UNTIL 11th NOVEMBER 2019, 12 P.M. (LOCAL TIME).

NO COMMUNICATION WILL BE SENT TO APPLICANTS ADMITTED TO SELECTION.

All applicants are admitted conditionally to the selection, and can be excluded in any moment, also after the admission tests, for lack of the requirements of this call.

The University will check the truthfulness of candidates' self-declarations/affidavits.

Without prejudice to criminal sanctions under the Penal Code and the related special laws (articles 75 and 76 of Italian Presidential Decree no. 445/2000), if the University administrative offices discover that the information declared by the applicant is mendacious or false, he/she will not be able to enrol.

Applicants should communicate any change of residence or other address used to apply.

The University administration declines all responsibilities in the case of loss of documents, caused by inaccurate information regarding the applicant's permanent or habitual address, the non-communication of a change of address, or postal errors which are not attributable to the University Administration's offices.

ART. 8 - ADMISSION PROCEDURE, COMMITTEE AND SELECTION

An Examination Board will be appointed by the Master's Council to select the candidates on the assessment of their Curriculum Vitae, qualifications, scientific publications and professional experience in the fields taught in the Master's Programme.

Evaluation criteria are established by the Examination Board, having a total of 50 points, distributed as follows

FINAL GRADE (DEGREE)	UP TO A MAXIMUM OF 10 POINTS
	- 110/110 CUM LAUDE 10 POINTS
	- 110/110 8 POINTS
	- FROM 109 TO 106/110 6 POINTS
	- FROM 105 TO 100 4 POINTS
	- FROM 99 TO 95 2 POINTS
	- LESS THAN 94 0 POINTS
CURRICULUM VITAE	UP TO A MAXIMUM OF 40 POINTS
PROFESSIONAL EXPERIENCES	- UP TO A MAXIMUM OF 20 POINTS
PHD. DEGREE OR CERTIFIED SCIENTIFIC ACTIVITY	- UP TO A MAXIMUM OF 20 POINTS DEFINED AS FOLLOWS: <ul style="list-style-type: none"> ▪ PHD DEGREE – OR EQUIVALENT – IN PHYSICS, ELECTRONIC ENGINEERING, ELECTRICAL ENGINEERING, TELECOMMUNICATIONS ENGINEERING, AEROSPACE ENGINEERING, MECHANICAL ENGINEERING, MATHEMATICS: 20 POINTS ▪ EACH SCIENTIFIC PAPER ON THE TOPICS OF THE PROFESSIONAL MASTER'S PROGRAMME, PUBLISHED ON INTERNATIONAL PEER-REVIEWED JOURNALS: 4 POINTS ▪ EACH SCIENTIFIC PAPER ON THE TOPICS OF THE PROFESSIONAL MASTER'S PROGRAMME, PUBLISHED ON INTERNATIONAL CONFERENCE PROCEEDINGS: 2 POINTS



DATES AND LOCATIONS OF SELECTIONS AND ANY VARIATION WILL BE PUBLISHED ON THE WEBPAGE
https://www.unica.it/unica/it/studenti_s01_ss06.page (*Avvisi e scadenze*).

ART. 9 - RANKING LIST

The Examination Board will draw up the ranking list, on the basis of the applicants' comparative evaluation, in accordance with the criteria set out for the admission to the 2nd level Professional Master's Programme, taking into consideration the total scores of each candidate. In case of candidates obtaining the same ranking position, the younger will prevail.

The ranking lists will be published at: https://www.unica.it/unica/it/avvisi_e_scadenze.page

NO COMMUNICATION WILL BE SENT TO SELECTED CANDIDATES.

ART. 10 - INCOMPATIBILITY

The enrolment in a 2nd level Professional Master's Programme is incompatible with the enrolment in other undergraduate, PhD, specialization courses, professional master's or non-medical specialization schools at the University of Cagliari or other Italian and foreign universities.

ART. 11 - ENROLMENT

In order to enrol, successful candidates must first fill in the enrolment form available at the website <https://webstudenti.unica.it/esse3/Start.do>, uploading a recent passport-size photo in digital format (bitmap or jpeg) and a copy of a valid ID, **within five days starting from the day of the ranking list publication.**

In order to complete their enrolment, candidates must pay a revenue tax of EUR 16.00 and the tuition fee, using an electronic bank MAv (*Mediante Avviso*), which can be downloaded at the end of the online enrolment procedure, within 4 days from the date of your enrolment application (ref. to the following link for further information about how to pay the MAv: https://www.unica.it/unica/en/studenti_s02_ss01.page (*Payment Instructions*)).

Applicants living abroad, who can't pay the MAv, within 4 days from the date of the enrolment application, must pay the EUR 16.00 revenue tax and the tuition fee by bank transfer to: Università degli Studi di Cagliari, via Università 40, 09124 CAGLIARI - Tesoreria universitaria Banco di Sardegna - IBAN IT51T0101504800000000043280, SWIFT: BPMOIT22XXX **NO CHARGES TO THE BENEFICIARY** (purpose: *Immatricolazione al Master Space Optical Design and Remote Sensing*, applicant's name and surname). The payment receipt must be sent by e-mail to dottoratiemaster@unica.it.

The revenue tax and the tuition fee can be paid from the date of submission of your enrolment application.

ENROLMENT OF CANDIDATES HOLDING A FOREIGN ACADEMIC DEGREE

Applicants holding a foreign academic degree, well-placed on the ranking list, at their arrival in Cagliari, must submit to *Settore Dottorati e Master - Segreteria Post Lauream*, via San Giorgio no. 12, 09124 Cagliari, on Monday, Wednesday and Friday, from 9:00 a.m. to 12:00 p.m., the following documents:

- 1 original or certified copy of your 2nd level degree;
- 2 original legalized translation into Italian of your degree;
- 3 original statement of value (*Dichiarazione di valore in loco*) of the foreign degree issued by the competent Italian diplomatic representative in the Country where the academic qualification has been issued (<http://www.miur.gov.it/web/guest/dichiarazione-di-valore> - <http://www.cimea.it/it/servizi/procedure-di-riconoscimento-dei-titoli/glossario.aspx>), or a Diploma Supplement in original;
- 4 original or certified copy of your 1st level degree.

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THE ABOVE DOCUMENTS MUST BE PREVIOUSLY SENT BY E-MAIL TO dottoratiemaster@unica.it WITHIN FOUR DAYS AFTER THE SUBMISSION OF YOUR ENROLMENT APPLICATION.

If unable to respect the abovementioned deadline, candidates holding a degree issued abroad should deliver the requested documents within a new deadline set in accordance with the PhD and Professional Master office. NO EXTENSION OF THE UPDATED DEADLINE WILL BE ALLOWED.

Foreign candidates must respect the “Requirements for the admission of international students to Italian higher education programmes for the academic year 2019/2020” (<http://www.studiare-in-italia.it/studentistranieri/>; <http://www.university.it/index.php/public/percorsi>).

ENTRY VISA PROCEDURES FOR FOREIGN SUCCESSFUL CANDIDATES WILL BE PROCESSED BY THE OFFICE FOR INTERNATIONAL RESEARCHERS’ COOPERATION AND MOBILITY PROGRAMMES OF THE UNIVERSITY OF CAGLIARI. APPLICANTS SHOULD REFER TO: Tiziana Cubeddu, person in charge of the Office, tel. +390706758442, email tcubeddu@unica.it; euraxess@unica.it, webpage https://www.unica.it/unica/it/ateneo_s07_ss05_sss02.page.

The enrolment procedure will be completed when the PhD and Professional Master office of the University of Cagliari will have verified the completeness and accuracy of the application and the required documents, as well as the payment receipt of EUR 16.00, within the deadline above.

Successful candidates not complying with the requirements for their enrolment, will automatically be considered as withdrawn and the next candidate(s) in the ranking list will take their place; the University office will inform by e-mail the next ranked candidates and invite them to enrol within a deadline specified in the email.

ART. 12 - TUITION FEE

The tuition fee - to be paid at the moment of the enrolment, following the instructions available at https://www.unica.it/unica/en/studenti_s02_ss01.page - is EUR 12,000.00 + EUR 16.00 (revenue tax).

ART. 13 - SCHOLARSHIPS

For the Professional Master’s Programme in *Space optical design and remote sensing* no. 3 scholarships funded by Regione Autonoma della Sardegna and reserved to candidates resident in Sardinia, are available. A scholarship funded by Agenzia Spaziale Italiana (ASI) is also available.

Scholarships will be awarded on the basis of the ranking lists drawn up by the Examination Board, to candidates not benefiting from other scholarships.

ART. 14 - MANDATORY ATTENDANCE AND FINAL EXAMINATION

The Programme implies that candidates attend all courses as full-time students, for at least the 80% of the scheduled hours of the educational activities. At the end of the Programme, each candidate will defend a Master’s thesis.

ART. 15 - FINAL DEGREE

The Rector of the University of Cagliari will award the 2nd level Professional Master’s in **SPACE OPTICAL DESIGN AND REMOTE SENSING** to participants completing the activities scheduled in the programme and a final examination.

ART. 16 - MASTER’S AUTHORITIES AND ORGANIZATION OF ACTIVITIES

The Director and the Organizational Technical and Scientific Committee are Master’s authorities. The Organizational Technical and Scientific Committee, chaired by the Director, coordinates the educational activities. The Director represents the educational structure, convenes the Organizational Technical and

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Scientific Committee and control the proper functioning of the course, takes the management responsibility, and, at its conclusion, submits a report on the activities to the Director of the Department.

ART. 17 - MEMBERS OF THE AUTHORITIES

The Director of the Master's Programme is Dr. Giovanna Mura.

The Organizational Technical and Scientific Committee includes the Director of the Professional Master's Programme, and the following members: Prof. Giuseppe Mazzarella, Prof. Daniele Giusto and Prof. Massimo Vanzi (UniCa), Dr. Alessandra Ciapponi, Dr. Paolo Corradi and Dr. Luca Maresi (ESA).

ART. 18 - PERSONAL DATA TREATMENT

The University of Cagliari is the controller for the personal data treatment, according to the EU Regulations 2016/679 about the protection of individuals with regard to the treatment of personal data, as well as the free circulation of these data and the Italian law currently in force. The notice on data treatment for the category 'citizens' is available at https://www.unica.it/unica/it/utility_privacy.page.

ART. 19 - FURTHER INFORMATION

For any information on the organization of the Programme, candidates are invited to send an email to masterspaceoptics@unica.it.

ART. 20 - PERSON RESPONSIBLE FOR ADMINISTRATIVE PROCEDURES

According to the art. 5 of the Italian Law no. 241, issued on 7th August 1990, the responsible for the administrative procedures is Ms. Monica Melis, person in charge of the PhD and Professional Master Office, tel. +390706756494, e-mail dottoratiemaster@unica.it.

ART. 21 - PUBLICITY

The present announcement will be published on the website of the University of Cagliari.

Signed
The Rector
Maria Del Zompo