THE RECTOR

HAVING CONSIDERED the Statute of the University of Sassari, published on the Italian Official Journal no. 298 dated 23 December 2011;

HAVING CONSIDERED art. 4 of Law no. 210 dated 3 July 1998, providing that Universities are entitled to implement internal regulations for the management of PhD Programmes;

HAVING CONSIDERED the Regulations on PhD Programmes of this University approved by Rector's Decree no. 1413 dated 03/05/2019;


HAVING CONSIDERED Italian Law no. 240 dated 30 December 2012, and in particular art. 19;

HAVING CONSIDERED Ministerial Decree no. 45 dated 08/02/2013, published on the Italian Official Journal no. 104 dated 06/05/2013;

HAVING CONSIDERED the resolutions on University fees published on 13 and 19 June 2007 by the Academic Senate and the Board of Trustees of this University, respectively;

HAVING CONSIDERED Ministerial Decree dated 25 January 2018 on the Annual gross increase for PhD grants;

HAVING CONSIDERED the proposals to launch the XXXV PhD cycle at the University of Sassari, submitted by the research units;
HAVING CONSIDERED MIUR Memo no. 6623 dated 27/02/2019, dictating the operational guidelines for the accreditation procedures of Graduate Schools and Programmes for the 2019/2020 academic year, and setting April 1st, 2019, then postponed to April 24th, 2019, as the deadline for the submission of applications via the national Graduate Education web portal, limited to already accredited Programmes;

HAVING CONSIDERED the successful results of the evaluation process carried out by ANVUR on the PhD Programmes submitted for accreditation, requiring the submission of no additional;

HAVING CONSIDERED the resolutions of the Academic Senate and the Board of Directors dated 11 June 2019, regarding the launch of the XXXV PhD Programmes cycle at the University of Sassari

HAVING CONSIDERED the call published by the Autonomous Region of Sardinia on June 10, 2016, for the funding of PhD grants - Year 2016, and its Annexes A), B) and C) - ROP ESF 2014/2020;

HAVING CONSIDERED the launch of a second call for the submission of project proposals for the funding of PhD grants in the framework of the call mentioned above, published by the Autonomous Region of Sardinia with Resolution no. 135, reg. no. 2776 dated 11/03/2019;

HAVING CONSIDERED the project proposal submitted to the Autonomous Region of Sardinia for the funding of PhD grants for the XXXV cycle by the University of Sassari on 05/04/2019;

HAVING CONSIDERED the memo issued by the Autonomous Region of Sardinia - Department of Education, Culture, Entertainment and Sports - Directorate-General of Education - University and Youth Policy Service, Reg. no. 3757 dated 16 July 2019, by which the approval of the project proposal submitted by the University on 05/04/2019 was confirmed;

HAVING CONSIDERED the financial agreement no. 5 reg. no. 5459 dated 20/06/2019, between the Autonomous Region of Sardinia - Department of Education, Culture, Information, Entertainment and Sports - Directorate General of Education - University and Youth Policy Service and the University of Sassari;

HAVING CONSIDERED the Agreement signed with the University of Cagliari, on 5 April 2018 for the launch of the PhD Programme in "Chemical science and technology" for the XXXIV, XXXV and XXXVI cycles;
HAVING CONSIDERED that additional resources will be allocated by INPS to fund grants in the fields of: Industry 4.0; sustainable development; welfare and well-being; statistical and actuarial science; and that therefore, other grants could be made available in addition to those referred to in this notice for the 2019/2020 cycle PhD Programmes having administrative headquarters at the University of Sassari;

HAVING CONSIDERED possible increases of resources or the availability of different financial resources, which cannot currently be confirmed;

DOES HEREBY DECREE AS FOLLOWS:

ART. 1 – Announcement

The University of Sassari does hereby announce the XXXV call for PhD Programmes.

Calls based on qualifications and examinations are open for the admission to the PhD Programmes listed below and reporting the number of positions available, the number and type of grants, the qualifications which will be subject to evaluation by the Selection Board, the research topics and the date, time, venue and type of oral examination.

The grants funded with ROP ESF Sardegna 2014/2020 resources, are intended to help boost higher education, ensuring its consistency with the needs of the regional productive system and the Smart Specialisation Strategy 2014/2020 of the Autonomous Region of Sardinia, through the education and training identified in priority III – thematic objective 10 "Investing in education, training and vocational training for skills and lifelong learning" - Investment priorities 10ii) "Improving the quality and efficiency of higher education and of an equivalent level and access to it in order to increase the participation and success rates especially for disadvantaged groups" - Specific objective 10.5 "Raising of skills levels, educational participation and success in higher education and/or equivalent education" - Action of the partnership agreement 10.5.12 "Actions for the strengthening of higher education or equivalent degree, aimed at promoting the link between education, the industry, research institutions, with particular reference to PhD programmes in collaboration with businesses and/or research bodies in scientific fields consistent with the strategic guidelines of the National Research Program (NRP) and the Regional Smart Specialisation plan" under D.G.R. no. 47/14 dated 29 September 2015. The grants funded with ROP ESF Sardegna 2014-2020 must be consistent with the strategic guidelines of the NRP and the Smart Specialisation plan of the Autonomous Region of Sardinia relating to the areas of specialization (AdS) referred to in the Decree of the Regional Committee no. 43/12 dated 1 September 2015, as reported in the sections dedicated to the PhD Programmes.
The grants funded under this piece of legislation are intended for applicants who meet the requirements for admission described in art. 2, according to the position awarded in the ranking lists published by the Selection Board to fill vacancies, which are residents in Sardinia at the date of enrolment in the PhD Programme.

Available grants are as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>PhD Programme in</th>
<th>ROP ESF 2014/2020</th>
<th>Only for applicants having graduated at foreign universities</th>
<th>Self-funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Archaeology, History and Human Sciences</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Architecture and Environment (in agreement with the University of Karabuk)</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Culture, Literature, Tourism and Territory</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Life Sciences and Biotechnologies</td>
<td>4</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Agricultural sciences</td>
<td>4</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Biomedical sciences</td>
<td>3</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Chemical science and technology (in agreement with the University of Cagliari)</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>Juridical sciences</td>
<td>2</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>Veterinary Science (in agreement with the Chungnam National University and the Universitat Autònoma de Barcelona)</td>
<td>3</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>25</strong></td>
<td><strong>9</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

If additional grants are funded and made available by the National Institute for Social Security (INPS) or PON RI 2014/2020, including after the end of the examination procedure, such grants will be assigned to the PhD Programme.
Programmes based at the University of Sassari for the academic year 2019/2020. The additional grants will be assigned based on the criteria set out in this notice and established by the calls published by INPS for the Universities or by MIUR. The grants funded by the resources mentioned above are permanently assigned to the universities following the verifications carried out by the National Institute of Social Security (INPS) or by Ministero dell'Istruzione, dell'Università e della Ricerca.
PhD Programme in Archaeology, History and Human Sciences

**PhD Administrative headquarters:** Department of History, Human science and Education

Coordinator: Prof. Raimondo Zucca – tel. 3478859948- e-mail: momoz1967@gmail.com

**Aims and Objectives:** The Programme aims to train highly qualified PhDs who can meet, in particular, the scientific demand of the Italian Ministry of Education and the Italian NRC, with reference to technologies applied to cultural heritage, protection, preservation, enhancement of cultural heritage, use and management of innovative technologies, such as Virtual Archaeology, the development of interactive 3D software in the fields of archaeological national and international cultural heritage, in the framework of central and local departments of the Ministry of Culture, within public and private cultural sites (focus on archaeology).

The Historical-Geographical Programme also aims to train highly qualified PhDs in humanities, both in historical, geographical, in the philological-literary fields, and in human sciences (philosophical, social, educational, etc.) to meet the scientific needs of universities and research centres, but also in the public and private sectors, where top managers in hard science fields, are required to have a good knowledge of humanities. During the three-year programme, a PhD candidate will acquire the scientific method and skills necessary to work in public and private centres operating in the fields of research, university teaching, the implementation of new technologies to the humanities, and the dissemination of research results according to international standards. The Programme pursues internationalization through the launch of agreements with foreign universities and it promotes the acquisition of qualifications recognized at the European and the international levels.

**Duration:** 3 years

**Positions**

<table>
<thead>
<tr>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 positions funded with ROP ESF 2014/2020 resources</td>
</tr>
<tr>
<td>1 position available to applicants having graduated at the University of the Republic of Tunisia</td>
</tr>
<tr>
<td>1 position funded by Diocese of Alghero-Bosa</td>
</tr>
<tr>
<td>1 zero-grant position</td>
</tr>
</tbody>
</table>

**Topics for the drafting of a research project:**

Topic 1: Maritime trade archaeology (a case study).

Topic 2: Funerary archaeology (a case study).

Topic 3: Religious aspects of indigenous cultures and romanization: a case study.

Topic 4: Institutional aspects of a town in ancient times or in the Middle Ages: a case study.

Topic 5: Gender at school in ancient times, the Middle Ages, the Modern Age, the contemporary period.
Topic 6: Republican and imperial Latin literature: philological, artistic, cultural instances

Topic 7: Late Latin literature and classical models.

Topic 8: The philology of Italians.

Topic 9: The relations between faith and cultural landscape. Cartographic and document analysis of how the presence of religious monuments, however not available anymore, may have had in the typification of landscapes, with particular reference to the geographical areas of north-western Sardinia.

Topic 10: Geography, faith, culture, landscape. Methodological approaches for the definition of the influence that religious centres (churches, basilicas, monasteries, etc.) have played in organizing the historical and contemporary landscapes, including through the incidence of "local centrality" and reflected on the territory.

Position available to applicants having graduated at the University of the Republic of Tunisia

Archaeology in Tunisia (a case study).

Useful publications for the assessment of qualifications are as follows:

Relevant scientific publications to the research areas of the PhD programme.

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Tourism and Cultural Heritage – ICT – Aerospace.
PhD Programme in Architecture and Environmental studies

PhD Administrative headquarters: Department of Architecture, Design and City Planning
Coordinator: Prof. Vincenzo Pascucci – tel. +39 079 228685- e-mail: pascucci@uniss.it

Aims and Objectives:

Environmental issues require to rethink, in a sustainable manner, ways of inhabiting our towns, our organisation of public spaces and territories, the management of biotic and abiotic ecosystem resources, the way we manage, energy, land and water, sustainable planning, the philosophy of architecture and project development, urban recovery and regeneration and the design of objects and communication.

The PhD Programme is open to students from different disciplinary fields who wish to understand and analyse the relationship between the built environment and the ecosystems in order to design, plan and manage its transformations. This requires a multidisciplinary approach to the system: the boundaries of disciplines and their theories do not address the issue of sustainability in an integrated manner.

Interdisciplinary PhD Programme is topic-specific and interdisciplinary, but it is consistent in contents, objectives and methodological approach. It focuses on architecture and the environmental design of space, starting from naturalistic know-how.

The goal is to make sustainability pragmatic by dealing with tangible and intangible objects in connection with ecosystem functions and facilities, but also to redevelop, recover, restore, rethink, reuse, recycle, reduce it.

Rethinking and recap History, rework it, relive it; redesigning the city and its territory, the landscape and the environment, its shape and its objects with a sense of limits, saving, equity and solidarity.

Duration: 3 years

Positions

| 2 positions funded with ROP ESF 2014/2020 resources |
| 1 position available to applicants having graduated at foreign universities |
| 2 positions (based on an agreement signed by this University and a company) available to staff employed by companies engaged in highly qualified activities or employed by institutions and public research centres engaged in highly qualified activities (salary paid by employer) |

Topics for the drafting of a research project:

Topic 1: Living the Environment
Topic 2: Tourism and cultural heritage
Topic 3: Aerospace and remote monitoring systems
Topic 4: Intelligent networks and new technologies applied to the proper management of the environment

Topic 5: Spatial planning, cities, natural resources and ecosystems

Topic 6: Sustainable design, recovery and urban regeneration

Topic 7: Object and communication design


Topic 9: Sedimentology, stratigraphy, Geology and Marine Ecology as tools for climate change monitoring

Topic 10: Architectural philosophy and project development methodology.

Position available to staff employed by companies or institutions and public research centres

Promotion and Management of the Regional Natural Park of Molentargius-Saline

For the drafting of the research project, max. 5,000 characters, spaces included (approx. 2 A4 pages). The project must indicate:

1. Research topic consistent with the PhD field of expertise
2. Objectives and feasibility
3. Methodologies
4. Expected results

Useful publications for the assessment of qualifications are as follows:

The publications relevant to the assessment of qualifications are as follows: monographs, articles on A-class journals, articles in scientific journals (ANVUR or Class B), book chapters with peer review, papers on journals with peer review. Publications contained in the Scopus and/or Web of Science databases. Summaries of communications during scientific conferences, thematic maps.

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Smart networks – ICT - Tourism and Cultural heritage - Aerospace
PhD Programme in  
Cultures, Literatures, Tourism and Territory  

PhD Administrative headquarters: Department of Humanities and Social science  
Coordinator: Prof. Massimo Onofri – tel. +39 079 229716 – e-mail: monofri@uniss.it

Aims and Objectives:  
The strengths of the Programme are, on the one hand, the adoption of an interdisciplinary perspective based on international comparison, and on the other hand, the harmonization of local and global dimensions. As part of the Programme, language-related aspects, perceptual psychology, literature, the arts and visuality connect to the study of land and landscape in an anthropic and historical-geographic perspective. The aim is to develop the skills and research methods in function of tourism and landscape science.  
PhD candidates are required to:  
• develop a theoretical-critical tools which are suitable to address the complex cultural and social scenario generated by globalisation, going back to its cultural and language roots  
• critically examine the transnational dynamics of the current knowledge society and, at the same time, combat the uncritical standardization of contemporary reality, fostering the rich cultural heritage of the territory and the memory of the past, also in connection with companies and institutions in the local territory and communities  
• improve their language, anthropological, sociological and literary skills with a view to broadening the horizons of research and international mobility  
• address the fields of language, literature, arts, geographic and socio-cultural fields, adopting a comparative approach, understood both in international and trans-medial direction  
• extend the knowledge of the specific features of the territory  

Duration: 3 years

Positions

2 positions funded with ROP ESF 2014/2020 resources  
1 position available to applicants having graduated at foreign universities  
3 positions (based on an agreement signed by this University and a company) available to staff employed by companies engaged in highly qualified activities or employed by institutions and public research centres engaged in highly qualified activities (salary paid by employer)

Topics for the drafting of a research project:

Topic 1: Territory, jurisdiction and landscape science  
Topic 2: Philology, linguistics, languages and literatures  
Topic 3: Cultures and visuality sciences  
Topic 4: Literature, Ecology and Geography
For the drafting of the research project, max. 4,500 characters, spaces included.

Useful publications for the assessment of qualifications are as follows:
monographs, articles in scientific journals, articles published on ANVUR or class B journals, or book chapters

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Tourism and cultural heritage - ICT
**PhD Programme in**

**Life Sciences and Biotechnologies**

**PhD Administrative headquarters:** Department of Biomedical Sciences  
Coordinator: Prof. Leonardo A. Sechi – tel. +39 079 228462 – e-mail: sechila@uniss.it

**Aims and Objectives:**

The PhD Programme in Life Sciences and Biotechnologies aims at providing advanced training to young graduate students from Italian and international Universities, based on the following goals: offering high quality scientific preparation both on applied and academic research; developing the approach towards scientific cooperation in Italy and abroad; promoting students’ ability to develop research projects independently, for what concerns the scientific knowledge but also the technological applications in selected research areas. Training activities are based on a three-year duration Programme, including frontal training activities and interdisciplinary research projects, with the aim to share and exchange expertise related to the most advanced scientific areas of the current biological and scientific world. The PhD Programme fosters training activities based on the practical and experimental approach and several projects in cooperation with Italian and International Labs. The most important subject-areas are: animal biology, molecular basis of physiological and pathological processes, human and animal medicine, infection and autoimmunity, food technology and pharmaceutical production, agriculture and farming development, environmental protection and bioarchaeology. The multidisciplinary preparation in the reference sectors of the PhD Programme and the acquisition of a sound preparation in the field of molecular and evolutionary biology provides high flexibility of PhD students such as to ensure a profitable insertion in different working environments.

<table>
<thead>
<tr>
<th>Duration: 3 years</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 positions funded with ROP ESF 2014/2020 resources</td>
<td></td>
</tr>
<tr>
<td>1 position funded by the Department</td>
<td></td>
</tr>
<tr>
<td>1 position available to applicants having graduated at foreign universities</td>
<td></td>
</tr>
<tr>
<td>1 position available to foreign grant beneficiaries from Shantou University</td>
<td></td>
</tr>
<tr>
<td>1 position available to foreign grant beneficiaries from Teheran University</td>
<td></td>
</tr>
</tbody>
</table>

**Topics for the drafting of a research project:**

- **Topic 1:** Endemic genomic variation and adaptation in natural populations of large mammals  
- **Topic 2:** Evaluation of population size and structure, occupancy models and activity rhythms of large mammals  
- **Topic 3:** Biomarkers of oxidative and inflammatory stress in tumours, chronic diseases and during aging  
- **Topic 4:** Metaproteogenomic development of analysis for microbiological diagnostics
Positions available to applicants from foreign universities and grant beneficiaries from other countries

Experimental approaches to investigate on infection and inflammation related to chronic and autoimmune diseases and cancer

For the drafting of the research project, max. 6,000 characters, spaces included.

Useful publications for the assessment of qualifications are as follows:

national and international publications, and poster presentations at national and international conferences

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Biomedicine – Aerospace – Agri-food – ICT
**PhD Programme in Agricultural science**

**PhD Administrative headquarters:** Department of Agriculture

Coordinator: Prof. Ignazio Floris – tel. +39 079 229360 – 320 9225542 – e-mail: ifloris@uniss.it

**Aims and Objectives:** The Programme aims at training highly qualified PhDs who can meet the scientific, development and high professional qualification needs in the fields of agrometeorology and plant ecophysiology; productivity of agricultural crops; the management and protection of agricultural and forest production systems; conservation, protection and enhancement of natural resources; biotechnology focusing on the production needs of regional, national and international scenarios; breeding and reproduction, nutrition and feeding techniques, applied genetics and selection of livestock animals even with the use of molecular biology techniques, quality and safety techniques related to food products of animal origin.

During the three-year Programme, PhD students will acquire knowledge of the experimental scientific method and related expertise in planning experimental designs, conducting laboratory and field trials, mathematical and statistical processing of data, developing statistical and experimental inferences and disseminating research results according to international standards. The Programme pursues internationalization through the support of agreements with foreign universities and it promotes the acquisition of qualifications recognized at European and international levels.

**Duration:** 3 years

<table>
<thead>
<tr>
<th>Curricula</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agrometeorology and ecophysiology of agricultural and forest systems</strong></td>
<td>1 position funded with ROP ESF 2014/2020 resources</td>
</tr>
<tr>
<td></td>
<td>1 zero-grant position</td>
</tr>
<tr>
<td></td>
<td>1 position available to foreign grant beneficiaries from Lebanese University</td>
</tr>
<tr>
<td><strong>Agricultural and food microbial biotechnology</strong></td>
<td>1 position funded by the Department</td>
</tr>
<tr>
<td></td>
<td>1 position available to applicants having graduated at foreign universities</td>
</tr>
<tr>
<td></td>
<td>2 positions available to foreign grant beneficiaries from Lebanese University</td>
</tr>
<tr>
<td>1 zero-grant position</td>
<td></td>
</tr>
<tr>
<td><strong>Monitoring and control of forest ecosystems in Mediterranean environments</strong></td>
<td>1 position funded with ROP ESF 2014/2020 resources</td>
</tr>
<tr>
<td></td>
<td>1 position funded by the Department</td>
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<tr>
<td></td>
<td>1 position available to foreign grant beneficiaries from Lebanese University</td>
</tr>
<tr>
<td></td>
<td>1 zero-grant position</td>
</tr>
<tr>
<td><strong>Productivity of cultivated plants</strong></td>
<td>1 position funded by the Department</td>
</tr>
<tr>
<td></td>
<td>1 position funded with ROP ESF 2014/2020 resources</td>
</tr>
<tr>
<td></td>
<td>1 position available to foreign grant beneficiaries from Lebanese University</td>
</tr>
<tr>
<td></td>
<td>1 zero-grant position</td>
</tr>
</tbody>
</table>
Livestock sciences and technologies

1 position funded by the Department
1 position funded with ROP ESF 2014/2020 resources
1 position available to foreign grant beneficiaries from Lebanese University
1 zero-grant position

Topics for the drafting of a research project:

**Agrometeorology and ecophysiology of agricultural and forest ecosystems**

Topic 1: Assessment of the impacts of climate change on agricultural and forest systems, and estimates of the effects of adaptation measures.

Topic 2: Evaluation and maintenance of ecosystem services in natural areas and semi-natural areas in climate change condition.

Topic 3: (for the position available to foreign grant beneficiaries from Lebanese University): Plant biodiversity in Lebanon and the potential to climate change adaptation measures.

**Curriculum - Agricultural and food microbial biotechnology**

Topic 1: Mycotoxigenic fungi: biology, epidemiology, functional genomics and control.

Topic 2: (for the position available to applicants having graduated at foreign universities) Use of extracts from olive industry by-products for the production of fortified functional foods.

Topic 3: Use of bioactive and functional substances obtained from the waste of the artichoke and myrtle processing industry for the enrichment of foodstuffs.

Topic 4: (for the positions available to foreign applicants having graduated at the Lebanese University) Use and biomolecular mechanism of essential oils and their derivatives with antimicrobial activity against bacteria and fungi.

Topic 5: (for the positions available to foreign applicants having graduated at the Lebanese University) Multi-strategy approach to nutritional and sensory improvement of baked products.

**Curriculum - Monitoring and control of forest ecosystems in Mediterranean environments**

Topic 1: Biodiversity and eco-systemic services in Mediterranean agricultural, forest and livestock farming systems.

Topic 2: (for the positions available to foreign applicants having graduated at the Lebanese University) Development and evaluation of biologically based pest management strategies for the protection of crops and the environment.

Topic 3: Use of remotely controlled vehicles for monitoring, control and protection of crops and the environment

**Curriculum - Productivity of cultivated plants**

Topic 1: Genomic and phenotypic evolution to adapt to new environments in species of agricultural interest

Topic 2: Sustainable agronomic management of Mediterranean livestock-farming systems.
Topic 3: Analysis of the biodiversity of species of agricultural and forest interest through genomic approaches.

Topic 4: (for the positions available to foreign applicants having graduated at the Lebanese University) Precision irrigation management in the open field focusing on crop adaptation to climate change in the Mediterranean environment.

Curriculum - Livestock sciences and technologies

Topic 1: Mediterranean agricultural, forest and breeding systems.

Topic 2: Development of nutritional models for the evaluation of nutrient needs and input in small ruminants.

Topic 3: Study of foetal programming and the effects of maternal nutrition on offspring performance in ruminants.

Topic 4: Modelling of digestive processes in dairy ruminants.

Topic 5: (for the positions available to foreign applicants having graduated at the Lebanese University) New technical and operational solutions for the use of drones in Agriculture 4.0.

You can apply for one specialization only

Useful publications for the assessment of qualifications are as follows:

relevant scientific publications on the research topic

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Agri-food – ICT - Smart networks for efficient energy management – Aerospace.
PhD Programme in Biomedical Sciences

PhD Administrative headquarters: Department of Biomedical Sciences

Coordinator: Prof. Andrea Piana – tel. +39 079 229091 – e-mail: piana@uniss.it

Aims and Objectives: The PhD Programme in Biomedical Sciences proposes the overall objective to train highly qualified researchers in extensive scientific and methodological areas of great importance for basic and applied research in the field of biomedical sciences. The training and research activities are characterized by a multidisciplinary approach that allows the execution of thematic proposals under the following curricula:

- Medical physiopathology
- Medical genetics
- Adult and child gender-specific medicine
- Neuroscience
- Molecular oncology
- Public health

The educational goal will be achieved in collaboration with other Italian or foreign universities or as a result of agreements with public and private institutions to meet the requirements of high cultural and scientific qualifications, as well as of adequate staff, facilities and equipment.

Duration: 3 years

<table>
<thead>
<tr>
<th>Curricula</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender Medicine</td>
<td>1 position funded by the Department</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>2 positions funded with ROP ESF 2014/2020 resources&lt;br&gt;1 position funded by the Department</td>
</tr>
<tr>
<td>Molecular oncology</td>
<td>2 zero-grant positions</td>
</tr>
<tr>
<td>Public health</td>
<td>1 position funded with ROP ESF 2014/2020 resources&lt;br&gt;1 position available to applicants having graduated at foreign universities&lt;br&gt;3 positions available (as a result of an agreement entered into with the University) to employees of companies engaged in highly qualified activities or employees of institutions and public research centres engaged in highly qualified activities (salary paid by employer)</td>
</tr>
</tbody>
</table>
Topics for the drafting of a research project:

**Specialization in Gender Medicine**

Gender medicine in uro-gynecological pathologies.

**Specialization in Neuroscience:**

Topic 1: Experimental approaches to the study of neurodegenerative diseases in neuronal cell models, with a focus on Parkinson's disease.

Topic 2: Motion Analysis via wearable sensors.


**Specialization in Molecular Oncology:**

Functional evaluation of miRNA involved in liver carcinogenesis.

**Specialization in Public health:**

The research project must focus on issues connected to the specialization title.

**Position available to applicants having graduated at foreign universities:** Study of natural products with anti-inflammatory and antimicrobial property

**Position available to employees of companies or institutions and public research centres:**

Economic-analytical evaluation of a production process in interventional health care

Epidemiology, prevention and management of infectious diseases related to cancer

The paper may not exceed 3 pages and it may not include more than 10 bibliographical references (font: Times, size 12)

You can apply for one curriculum only
Useful publications for the assessment of qualifications are as follows:
cover-to-cover abstracts and publications, relevant to the topics of interest of the curricula in national and international scientific journals.

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Biomedicine – Aerospace - Agri-food - ICT
PhD Programme in
Chemical science and technologies

PhD Administrative headquarters: Department of chemistry and pharmacy
Coordinator: Prof. Stefano Enzo – tel. +39 079 229557 - e-mail: enzo@uniss.it

Aims and Objectives:

The PhD Programme is a basic programme aiming at increasing and strengthening the PhD student's skills to join an interdisciplinary team, relate on issues not strictly included in the field of expertise. In addition to the acquisition of scientific expertise in the areas of scientific excellence and innovation, the basic training of the PhD applicant includes an excellent knowledge on the general methodological aspects of scientific approach and essential communication skills.

The student is encouraged to discuss the data obtained critically, models and propose solutions to given issues (problem-solving). Through the training process, the Programme generates competitive and highly qualified technical and specialized skills and expertise that can meet the needs of a labour market that increasingly requires specialized professionals in strategic sectors of the economy and development of the region.

As also reported in the most recent documents published by Federchimica, in the knowledge economy, the competitiveness of companies can only be secured by including PhDs in their staff. The need for PhD programs is shared by enterprises, as long as the Programmes provide appropriate skills and research facilities, and have an international profile.

The issues connected to the employment PhDs in the industries is tangible and current. As pointed out in the analysis published by Federchimica, the current scenario is characterized by a largely insufficient range of job opportunities in the labour market due to a lack of connection between the professionalism of PhDs and industry needs.

The list of research topics of highly specialized professionals published in the framework of the Strategy of Smart Specialization in Sardinia, pursuant to Resolution 43/12 dated 01/09/15, includes technological areas of specialization, namely ICT, Smart networks for efficient energy management, Biomedicine, Tourism and cultural and environmental heritage.

The skills required in these areas are fully consistent with the training received by PhDs in Science and Chemical Technology. This is evidenced by the fact that the PhD training includes several research topics which are considered priorities in the short and medium term by the European Union, national and regional governments, and industrial research associations.

Duration: 3 years

Positions
3 positions funded with ROP ESF 2014/2020 resources
3 positions funded by the University of Cagliari (with ROP ESF 2014/2020 resources)
1 position available to applicants having graduated at foreign universities
2 zero-grant positions

Topics for the drafting of a research project:

Topic 1: Innovative nanostructured materials. Synthesis and characterization of new materials for applications (such as, catalytic, magnetic, optical, electrical and biological).

Topic 2: Physical chemistry of biological systems Experimental and theoretical study of complex biological systems and implementation of specialized techniques (NMR, diffraction, environmental microscopy).

Topic 3: Modelling and computational chemistry: Development of simulation techniques, computational studies of complex system of chemical interest.

Topic 4: Industrial catalytic processes. Process chemical technologies. Study of catalytic processes (preparation, stability, regeneration);

Topic 5: Industrial biotechnologies. Enzymatic catalysis processes; chemical and physical immobilization methods; industrial applications;

Topic 6: Analytical chemistry and technology of surfaces Study of the reactivity of thin layers of metallic oxide materials with technological applications (e.g. corrosion, heterogeneous catalysis, tribology and biocompatible material); reactivity of mineral surfaces, asbestos and particulate air pollution in biotic and abiotic environment;

Topic 7: Surfactants and nanotechnological applications. Systems based on nanostructured surfactants; applications in the field of preformulations. (NMR studies of local structure, SAXS morphological properties);

Topic 8: Conventional and extraction technologies using supercritical fluids. Technologies based on the use of fluids under supercritical conditions; extraction and separation of plant active ingredients and in technological treatments.

Topic 9: Synthesis and reactivity of organic molecules. Study of reactions promoted by metals to the synthesis of diastereo- and enantio, regioselective in molecules having biological activity and natural products;


Topic 11: Synthesis, characterization, properties, and reactivity of novel inorganic or organometallic compounds. Structural, spectroscopic, computational characterization and catalytic properties, application of biological and pharmacological compounds;

Topic 12: Precursors and Molecular materials. Organic and inorganic synthesis of molecules rich in sulphur and/or intrinsic interest and applicative selenium (extraction of precious metals, anticarcinogenic agents) and which are precursors of materials of interest in optics and electronics. Synthesis and development of molecular
rescence sensors and redox for metallic ions and inorganic anions. Reactivity studies, molecular spectroscopies, solution equilibria and calculation methods, solid state;


Topic 14: Design, synthesis and biological evaluation of small molecules. Synthesis, characterization and biological evaluation of new chemical structures with potential pharmacological activity;

Topic 15: Chemistry and pharmaceutical technology. Design and development of nanosystems for site-specific delivery of bioactive molecules and for diagnostics/theranostics. Design and testing of innovative platforms for the delivery of drugs across the routes of administration;

Topic 16: Pharmaceutical chemical and toxicological analysis. Validation of analytical methods for the determination of drugs, designer drugs and metabolites in biological matrices;

Topic 17: Cultural heritage and innovative strategies for storage using the kinetic control of mineralogical and inhibition processes. Application of in-site modern portable diagnostics

For the submission of the research project the following applies: max 12-min presentation in PPT format, incl. via conference call (i.e. Skype).

Useful publications for the assessment of qualifications are as follows:

Relevant scientific publications in the field of Chemical Science and Technology of WOS and SCOPUS accredited journals.

Language level required, B2 or higher (up to 4 points): English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: ICT, Smart grids for efficient energy management, Biomedicine, tourism and cultural and environmental heritage.
PhD Programme in Legal studies

Contact details: Department of Law
Coordinator: Prof. Michele Maria Comenale Pinto – tel. +39 079 228933 – e-mail: dottoratosg@uniss.it

Aims and Objectives:
The objective of the PhD programme is to further advance higher education in the field of law, with particular emphasis to be placed on the two curricula being considered, which meet needs of particular importance in the territory where the Programme is carried out. The Programme is intended to become a magnet for scholars from other national and foreign regions, building up on the successful experience of the previous PhD School in Law and Economics of Production Systems of the University of Sassari, that has served as the academic and scientific basis for the development of this Programme (confirming what already happened during the first edition of this Programme). Based on the experience gained within the PhD School of Law and Economics of Production Systems, the Programme devotes special attention to the interrelation between law and the economic world and the desire to stimulate cooperation among researchers, overcoming the individualistic approach that tends to characterize research in the field of law. The PhD Programme aims to provide the tools necessary to learn appropriate research methodologies through the organization of seminars, conferences and external collaborations. The objective is to train scholars who have shown a certain level of experience through the publication of a monograph which brings an original scientific contribution to research in the field of Law and in the areas of specific interest for the Programme:

Transport and navigation, enterprise and production systems law

Law and Culture

Duration: 3 years

Positions

2 positions funded with ROP ESF 2014/2020 resources
1 position available to applicants having graduated at foreign universities
6 positions available (as a result of an agreement entered into with the University) to employees of companies engaged in highly qualified activities or employees of institutions and public research centres engaged in highly qualified activities (salary paid by employer)
2 zero-grant positions

Topics for the drafting of a research project:

Topic 1: Transport and navigation, enterprise and production systems law.

Topic 2: Law and Culture.
Useful publications for the assessment of qualifications are as follows:
monographs and publications in scientific journals of Area 12, according to ANVUR classification

Language level required, B2 or higher (up to 4 points): English, French, Spanish German, Portuguese

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: ICT - Aerospace -Tourism and cultural heritage
**RESEARCH GRADUATE SCHOOL in**
**Veterinary sciences**

**PhD Administrative headquarters:** Department of Veterinary Medicine

Coordinator: Prof. Fiammetta Berlinguer – tel. +39 079 229904 e-mail: berling@uniss.it

**Aims and Objectives:** The PhD Programme aims at training qualified researchers in Veterinary Science through a multidisciplinary scientific and cultural training, also secured by highly specialized Programmes. Consistently with the two curricula, namely "Reproduction, pathology, breeding and animal welfare" and "Production, Quality and Food Safety", the specific learning objectives of the Programme are:

- have a thorough and up-to-date knowledge of the mechanisms which underpin the processes related to productive and reproductive biology, and animal welfare conditions, in order to improve reproductive performance and the profitability of livestock farms;
- acquire technical knowledge and experience in animal production, in order to improve their quality through the careful management of resources and production processes;
- develop specific knowledge for the study of animal diseases and parasitosis, also in order to fine-tune all the control measures that, through the reduction of pharmacological interventions, may allow improved quality and quantity of production;
- deepen the newer surgical, obstetric and internal medicine techniques in order to improve and update the veterinary clinical practice;
- develop specific expertise in the fields of pharmacology and toxicology, food microbiology, control of abiotic contaminants, methods required to attain the corporate quality system certification and quality marks recognized within the EU in order to enhance the animal products and develop innovative processing techniques.

**Duration:** 3 years

<table>
<thead>
<tr>
<th>Curricula</th>
<th>Positions</th>
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<tr>
<td>Reproduction, Breeding Pathology and Animal Welfare</td>
<td>2 positions funded with ROP ESF 2014/2020 resources</td>
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<td>1 position funded by Istituto Zooprofilattico Sperimentale della Sardegna</td>
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<td>1 position funded with PRIN - Year 2017 resources</td>
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<td></td>
<td>1 position available to foreign grant beneficiaries from Lebanese University</td>
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<tr>
<td>Production, quality and food safety</td>
<td>1 position funded with ROP ESF 2014/2020 resources</td>
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<td></td>
<td>1 position available to applicants having graduated at foreign universities</td>
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<td></td>
<td>1 position available to foreign grant beneficiaries from Lebanese University</td>
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The research project may be presented in Italian or English

**Topics for the drafting of a research project:**

**Specialization in Reproduction, Pathology, Breeding and Animal Welfare**

**Topic 1:** Investigation on the mammary microenvironment of sheep mastitis conditions

**Topic 2:** Study of biomarkers involved in improving reproductive and productive efficiency of livestock species
1 position available to foreign grant beneficiaries from Lebanese University

- Pathological and histopathological studies on swine diseases

**Specialization in Production, quality and food safety**

Innovative approaches for the improvement of production and food safety in animal production chains

**Position available to foreign grant beneficiaries from Lebanese University**

Alternative and sustainable feed sources for farm monogastric animals

For the drafting of the research project, please break down the paper into the following sections, paying attention to not exceeding the maximum number of characters: 1. State of the art - max. 5,000 characters; 2. Aims - max. 2,500 characters; 3. Methods - max. 3,000 characters; 4. Results and impacts - max. 3,000 characters.

Formatting: spacing 1.5, Times New Roman font size 11.

**You can apply for one curriculum only**

**Eligible publications** for the assessment of qualifications are: publications consistent with the topics of each specialization.

**Language level required, B2 or higher (up to 4 points):** English

The grants funded with ROP ESF 2014/2020 resources are allocated per specialization area pursuant to D.G.R. no. 43/12 dated 1 September 2015: Biomedicine – Agri-food
ART. 2 – Minimum admission requirements

All applicants are required to be in possession of a valid Masters’ Degree certificate or an equivalent academic degree pursuant to M.D. no. 509 of 3 November 1999, and M.D. no. 270 of 22 October 2004, or a degree obtained under the previous university system (prior to D.M. no. 509 of 3 November 1999) or other equivalent qualification obtained abroad.

Applicants benefiting from ROP ESF 2014/2020 grants, must be permanent residents in Sardinia at the time of enrolment to the PhD Programme.

For admission purposes, foreign citizens, whose qualifications are yet to be validated, shall formally request validation to the PhD Programme Council when submitting their application form and attach any document that may be necessary to the Board to issue an equivalence report, pursuant to art. 5 provisions. Any original document written in a language other than Italian must be translated into Italian and stamped by the Italian consulate or diplomatic authority based in the applicant’s country of origin or residence, in compliance with current Italian regulations on foreign student admission to Italian universities.

Foreign applicants who do not have any document translated into Italian, may submit a self-certification stating their compliance with the relevant requirements. Applicants shall then be admitted *sub condicione* and, should they be selected, they shall be required to submit the above documentation *by 31/10/2019*, under penalty of exclusion.

For the foreign applicants having a foreign academic qualification yet to be validated as equivalent to an Italian laurea degree, the same provisions apply.

The enrolment in the PhD Programme above is not compatible with any other enrolment at any EQF 6, 7 or 8 level Programme of this or other university.

Attendance to joint medical specialization Programme and the PhD curse is governed by art. 7 of Ministerial Decree no. 45 dated 8 February 2013.

Applicants applying for foreign student grants shall be admitted to the PhD Programme if they successfully pass the selection procedure referred to in art. 6 and 7 of this call.

All applicants shall submit their application according to the procedure described in Articles 4 and 5 of this call.

Applicants shall be required to have obtained the necessary qualification for eligibility purposes by the deadline set for the submission procedure.

Applicants may be admitted *sub condicione*, including for the assignment of dedicated grants as specified in the following art. 3, if such missing qualification is acquired before the *31 October 2019*.
If selected, a sub condizione applicant applying for any type of position, will be required to submit to Ufficio Alta Formazione a self-certification regarding the award of their access qualification no later than 31/10/2019.

Failure to submit the relevant documentation by the set deadlines or incomplete, incorrect applications submitted by means not included in this call, shall not be awarded any position.

ART. 3 – Positions available to applicants from foreign universities and grant beneficiaries from other countries

For each PhD programme, one position is available to applicants who have obtained their access qualifications for the PhD programme at a foreign university. Applicants who wish to apply for such positions are required to explicitly select this option in the application form. The position will be assigned to those applicants selected in accordance with the provisions of the following Articles 6 and 7.

Selected applicants who are assigned grants available to foreign applicants only, must submit to the Ufficio Alta Formazione the documents certifying their status no later than 31/10/2019.

ART. 4 – Application procedure

The attached application form must be prepared according to the methods and by the deadlines described in art. 5.

The application form must contain the following information, on pain of exclusion.

A. last name and first name, date and place of birth and permanent address;

B. citizenship;

C. degree awarded, date of issue of the degree and awarding University, or the equivalent certification issued by a foreign university;

D. the selection of the sub-conditions option in the call, with an indication of the University to be issuing the qualification and the name of the qualification;

E. the contact address for the purposes of the call. EU citizens and foreigner must indicate an Italian physical address or the details of the Embassy of their country in Italy, selected as reference address; Any change in the address must be communicated in a timely fashion to the Ufficio Alta Formazione, by e-mail by writing to helpesse3@uniss.it and rzallu@uniss.it.
The application must also include a copy of the applicant's ID (front and back) featuring a visible picture allowing the identification of the applicant.

On penalty of exclusion from the call, together with the application form, applicants must submit a research project on the topics highlighted for each position applied to, pursuant to art. 1. For this purpose, applicants can use the form included in Annex B to this call published on www.uniss.it.

The following qualifications attached by the applicant to the application form by deadline set by this call or in any case within the time limits and modes provided for under art. 5, will be assessed:

1. a copy of the publications relevant to the Programme subject;

2. a self-certification, pursuant to arts. 46 and 47 of DPR 445/2000, concerning other university degrees such as 2nd level Master's degrees, Postgraduate Programmes, Research grants, postgraduate qualifications equivalent to those listed, documented research contracts with foreign universities or research institutions, research grants, patents.

Applicants may also attach their CV's to the application form.

This will not, in any case, be awarded any point by the Selection Board and failure to do so will not hinder the applicants' participation in this competition.

Both the ID (front and back) and the research project, and any additional qualification and Curriculum Vitae must be submitted in PDF format in accordance with the procedures reported in the "Guidelines for applicants to public calls" published on the same page of the University of Sassari website where this call is published.

Pursuant to art. 15 of Law No. 183 of 12/11/2011, as of 01/01/2012 it is not possible to request or accept certificates issued by the public administration attesting the status, personal skill of, or facts regarding natural persons. Therefore, any statement referred to in letters A, B, C, and D of this article, shall be submitted in the application for the admission test pursuant to artt. 46 e 47 of PRD 445/2000.

Applicants with special needs are entitled to assistance as well as extra time for the completion of their exams if they require so (articles 16 and 20, Bill no. 104, 5th February 1992, and amends as per Bill no. 17 of 28th January 1999).

The Administration reserves the right to admit applicants sub conditione to the selection procedure and the right, at any time, to exclude applicants who are not in possession of the qualifications and requirements set forth in this notice.
This call serves as an invitation to take part in the examination procedure for all those applicants having submitted the documents according to call provisions: no additional communication shall be sent to applicants and all communications shall be published only on www.uniss.it.

Any amendment/addition to this call shall be published on the official website www.uniss.it by the deadline set by this call.

ART. 5 – How to apply

Applications must be submitted, on penalty of exclusion, by 1 pm of 23 July 2019 (UTC +2) only by connecting to https://uniss.esse3.cineca.it and logging in the personal area (or registering if the UNISS web service is used for the first time).

Applications must be submitted to the modes provided by the “How to submit an application” document published on the same page of the UNISS website where the call is published.

In this regard, please refer to the separate Tutorial available at https://www.uniss.it/ateneo/documenti-di-ateneo/tutorial-immatricolazione.

The applications filed, for any reason, after the terms and/or in ways other than those set forth in this call, will not be accepted.

Applicants are required to upload a duplex copy of their ID/Passport (in PDF format only).

Applicants with special needs or learning disabilities (pursuant to Law n, 104 of February 5, 1992 a.a.s. and Law 170 of October 8, 2010, based on their specific needs, may request assistance as well as extra time for the completion of their exams if they require so, in addition to other measures safeguarding equal opportunities during the test phase. Their condition must be proved by medical certificates issued by competent medical authorities. If the "I require specialized assistance and/or tutoring services" option is selected in the on-line enrolment procedure, the applicant is required to send an email including a specific request for such additional service (i.e. Annex A form) in accordance with the procedure set out below. If the level of disability is not entered in the on-line application form, or the applicant fails to send the email to request the additional service, the University may not guarantee such additional service during examination procedure.

Applicants are kindly requested to fill the Annex A form published on the same page of this call, on the website of the University of Sassari, to:

- select how the interview should be conducted: either on-site or via Skype;
- select a foreign language; language skills will be verified during the interview;

- sub-conditione application (only for candidates yet to obtain the qualification required for the admission to the Programme; however, such qualification must be earned by 31/10/2019);

- only applicants with disabilities or learning disabilities may request assistance by attaching the mandatory medical certificate referred to above.

ANNEX A must be printed, filled in, signed, scanned and sent to helpesse3@uniss.it and rzallu@uniss.it by the same deadline reported for the submission on applications.

To complete the application procedure, the applicant is required to pay a EUR 10.00 fee by 23 July 2019, via electronic payments systems approved by pagoPA (https://www.agid.gov.it/it/piattaforme/pagopa).

Helpdesk for on line services

Help for online services for students is available via e-mail to helpesse3@uniss.it

ART. 6 – Exam

The examination procedure to the PhD Programmes will include an evaluation of previous qualifications, the research project and an interview. The mark will be expressed in points out of 100 (30+20+50). The evaluation is intended to assess the experience and expertise of the applicant, his/her bent for scientific research and his/her proficiency in a language other than Italian, as expressly requested by the PhD Programme.

Entry exams may be held in Italian or English or other EU language, upon request of the applicant and upon approval of the Board, during the examination session.

The date, time and type of interview, including the venue where the interview will take place, and the list of eligible applicants, will be published by 9 August 2019 on www.uniss.it.

Applicants shall be granted access to the examination premises upon submission of a valid ID, passport, driving license, post card, gun license, personal identification card issued by public authorities, submitted together with the application form. Failure to provide such documents will result in the exclusion from the examination procedure.

The interview will be conducted, as requested by the applicant in the ANNEX A form, at the premises indicated for each Programme in art. 1 or via Skype call, within the times reported for each Programme in art. 1.

Applicants who opt for the Skype interview must connect with the designated Skype contact within the scheduled time that will be published on www.uniss.it, in such a way that the examination Board has enough
time to complete the necessary procedures for the recognition of the applicant. Applicants who fail to connect to the scheduled conference call will be excluded.

Just like the one made on site, this method of participation is also public.

Applicants who opt for the conference call must be aware of the risks connected to technical issues.

The final ranking list shall be drafted based on the results of the oral examination, including the research project and qualification evaluation, and shall be published on www.uniss.it.

ART. 7 – The Selection Boards and their requirements

The Selection Board of each Programme shall be summoned pursuant to the University set of rules and regulations on PhD Programmes.

The Board may award up to 100 points for the evaluation of each applicant, broken up as follows:

- up to a maximum of 30 points for the valuation of qualifications;
- up to a maximum of 20 points for the valuation of the research project;
- up to a maximum of 50 points for the interview;

The 30 points for the valuation of qualifications are defined as follows:

- Final mark (out of /110, up to a maximum of 11 points, as an alternative to the final mark out of /10):
  
  up to 100  – 0 points;
  between 100 and 104 – 2 points;
  between 105 and 107 – 4 points;
  between 108 and 109 – 6 points;
  110/110  – 8 points;
  110/110 cum laude  – 11 points;

- Final mark (out of /10, up to a maximum of 11 points, as an alternative to the final mark out of /10):
up to 8.4  – 0 points;
between 8.5 and 8.8  – 2 points;
between 8.9 and 9.1  – 4 points;
between 9.2 and 9.3  – 6 points;
9.4  – 8 points;
between 9.5 and 10  – 11 points;

• Average mark of passed exams (up to a maximum of 11 points, only for sub condizione applicants, as an alternative to the degree mark):
  
  up to 25.25  – 0 points;
  between 25.50 and 26.50  – 2 points;
  between 26.75 and 27.25  – 4 points;
  between 27.50 and 27.75  – 6 points;
  28.00  – 8 points;
  between 28.25 and 29.00  – 11 points;

• Publications (up to a maximum of 10 points): a maximum of 5 publications can be attached, with research topics related to the PhD Programme chosen by the applicant. The type of publication that will be evaluated by the Selection Board is provided in the specific chart of each PhD programme in art. 1 of this call.

• Other qualifications (up to a maximum of 5 points): the applicant may indicate only one qualification among the Master’s degree, specialization diplomas, research grants, postgraduate qualifications equivalent to those listed, documented research contracts with universities or research institutes, both Italian and foreign, research grants, patents. The qualification so identified by the applicant must be consistent with the research areas of the PhD Programme he/she intends to apply to. Only qualifications obtained starting from 2014 are considered valid.
• Certification attesting to knowledge of a foreign language, level B2 or higher (4 points): as reported in each of the PhD Programmes sections in Art. 1.

The score assigned to each of the applicants admitted sub conditione will not be revised if the applicant successfully passes the selection procedure.

The research project must obtain a result of at least 12/20 to be admitted to the interview.

The list of selected applicants will be signed the President and published on www.uniss.it by 9 August 2019 along with the date, time, place and the Skype contact person to connect to during the interview.

The interview is successfully passed if the applicant gets a mark higher than 30/50. During the interview, language proficiency in a foreign language will be verified, without attribution of any score.

At the end of each interview sessions, the Selection Board will draft the list of interviewed applicants with their marks. The list will be signed by the President and the Secretary of the Selection Board, affixed on the same day at the Departmental facility where the interview is taken. This list is not to be considered as the official appointment of the winners. The final list will be published on the www.uniss.it website upon approval of the competition reports.

**ART. 8 – Registration**

After the completion of the examination phases, the Board shall establish the ranking of merit on the basis of the sum of the points awarded to each applicant in the evaluation of qualifications, the research project and the interview.

Selected applicants are admitted to the PhD programme on the basis of the merit list until the full assignment of available positions. The list may be either a single list or divided by specialization, according to Programme provisions, as reported in this call.

In case of failure or late acceptance by the beneficiaries, the following applicant on the merit list will take over, provided a month has not passed since the beginning of the Programme.

In case of a tie, the grand or the position will be awarded to applicants according to the provisions of the “DPCM del 9 aprile 2001” decree (artt. 4 and 5).

However, in case of a tie, zero-grant positions will be awarded to the youngest applicant.

**ART. 9 – Matriculation**
Enrolment applications must be filed by the selected applicants by the deadlines set in the call, under penalty of loss of entitlement to the PhD grant, and in such a way as required by the call published on the University institutional website www.uniss.it when the results of the selection procedure are published.

In this regard, you can refer to the separate Tutorial available at https://www.uniss.it/ateneo/documenti-di-ateneo/tutorial-immatricolazione.

**ART. 10 – Attendance**

All applicants are required to attend and participate in the PhD Programme activities as full-time students, as specified in the Programme requirements approved by the PhD Board.

At the end of each academic year, students will be required to file a detailed report of the research work carried out and their results. The PhD Board will retain the reports, evaluate the regular attendance and productivity of each candidate and recommend the Rector to approve or reject the continuation of the ongoing programme.

The qualification of “Dottore di Ricerca” (or PhD) will be awarded to candidates successfully completing the Programme and whose doctoral dissertation is positively evaluated by the PhD Board.

**ART. 11 – Grant rejection or withdrawal**

Applicants who fail to enrol by the afore-mentioned deadline will not be admitted to the Programmes. False statements are punished in accordance with current applicable regulations.

If no applicant is selected for one or more Programmes, or eligible applicants withdraw their application, the Board will redistribute available grants.

**ART. 12 – Grants**

The grants, the number of which is reported for each PhD Programme in art. 1, are assigned by the Selection Boards, following a comparative assessment of merit and according to the order defined in each ranking list, the latter being either a single list or specific list for each specialisation, if applicable.

The annual amount of the grant, which is determined in accordance with art. 1 of D.M. 25/01/2018 amounts to € 15,343.28 gross of employee benefit expenses borne by the recipient.

In case of a tie, the provisions of art. 8 shall apply.
The grants available to applicants having graduated at a foreign university, which are not assigned to any applicant, may be reassigned pursuant to the Regulations governing the University PhD Programmes.

The grants have a duration of one year and are renewed upon completion of yearly Programme activities, verification according to the procedures laid down in the PhD Programme. If the activities are successfully verified, the University will pay the grant to the candidate.

A candidate is eligible to receive the PhD grant if his or her gross annual personal income does not exceed €15,000.00, during the calendar year when the grant is paid.

Unless reassigned, the PhD grant starts from 01/11/2019 and is not compatible with other research grants of grants of any other type, with the exception of the grants awarded by national or foreign institutions for the purpose of research stays abroad.

Subject to fund availability, the amount of each grant may be increased by 50% for research stays abroad.

The request for additional funds must be addressed to the attention of the Rector, will be subject to the Programme Coordinator’s authorization for the stay abroad, for a period of time not exceeding six months, or by the PhD Board for a period of time exceeding six months.

The study grant payment is made on a deferred monthly basis.

The grants funded with ROP Sardegna ESF 2014-2020 will be awarded only to applicants who are selected and reside in Sardinia at the date of enrolment to the PhD Programme.

The beneficiary of a grant funded with ROP Sardegna ESF 2014/-2020 must formally commit to carry out the study and research stay abroad for at least 6 months during the three-year Programme, and must formally declare to be aware that failure to do so will result in the revocation of the full grant.

A candidate who is awarded a PhD grant may not be awarded a PhD grant for a second time.

ART. 13 – Tuition fees

The fees to access and attend a PhD Programme set by the academic bodies of the University amount to €494.23 for the first year (including the University's contribution, stamp duty and insurance coverage against accidents and civil liability) and to €338.23 for each of the following two years (including the University's contribution, insurance against accidents and civil liability, and the regional fee for university studies) and €478.23 for each of the following two years (including the University's contribution, insurance against accidents and civil liability, and the regional fee for university studies).

Tuition fees for the first year of enrolment must be paid via the electronic payment pagoPA channel (https://www.agid.gov.it/it/piattaforme/pagopa/) within the time frame set for the matriculation process, that
will be published at the same time as the evaluation results. In case of late payment, penalties for late payment will be applied.

For this purpose, the Tutorial is available at https://www.uniss.it/files/tutorialpagopapdf.

The fees for the following years must be paid via electronic channels as provided for by pagoPA by 31 December of each year. If the payment is made after 31 December, penalties for late payment will be applied.

Exemption from the payment of the University contribution, but not of the insurance, stamp duty and the regional fee for the right to university study, is granted to students with special needs with a disability degree equal to or greater than 66%, which must be declared upon registration.

ART. 14 – Person responsible for the proceeding

Pursuant to art. 4 of Italian Law No 241 of 7 August 1990 and following amendments (“Nuove norme in materia di procedimento amministrativo e di diritto di accesso ai documenti amministrativi”), Dr. Anna Paola Vargiu, Head of the Post Graduate Education Bureau, shall stand in her capacity as the person responsible for the proceeding.

Applicants are entitled to exercise the right of get access to all the documents in the procedure in the manner provided or on the website https://www.uniss.it/urp.

ART. 15 - Privacy

The personal data provided by applicants in the application form for the selection process will be processed, stored and archived by the University of Sassari, in accordance with Article 13 of Regulation (EU) 2016/679, for the operating, administrative, accounting procedures and/or of other nature related to the management of this procedure and the requirements connected with legal obligations and the start of the academic career.

Providing this information is mandatory in order to assess participation requirements, under penalty of exclusion from the selection process.

The data controller is the University of Sassari, which guarantees to the parties concerned, pursuant to arts. 15-18 of Regulation (EC) 2016/679, the right to access, rectify and delete personal data in the manner prescribed by the Regulation (EU). Applicants are granted the rights to access their personal information, to request correction and integration as well as restrict its processing, by filing a request to the Università degli Studi di Sassari, via email to: stud.privacy@uniss.it. For further details, see https://www.uniss.it/protezione-privacy.

With regard to grants financed by the ROP ESF 2014/2020 resources, the University of Sassari is the data controller under Article 24 of GDPR, with reference to the activities performed and the goals it pursues according to the specifications provided articles 4 and 5 of the Convention, and it has full responsibility for
compliance with GDPR requirements and, specifically, by providing for the collection of data from the beneficiaries, it is responsible for the protection of their rights, and it must provide, through the processing of the information to be published by a notice or a public call, the information referred to in articles 13 and 14 of the GDPR. This information is necessary to carry out the activities and pursue the goals mentioned in the Convention, the content of which must be provided to the persons concerned. The data controller is responsible for the publication of public notices on privacy, to be made available to the persons concerned.

The Region of Sardinia is allowed to process personal data under Article 24 of the GDPR for the monitoring, verification and control required by the Convention, by the MA Guidelines used by Action Managers Version 4.0 and the Management and Control System (SI.GE.CO.) ROP ESF 2014-2020 version 4.0.

**ART. 16 – Reference regulations**

For any other specification, please refer to art. 19 of Law No. 240 of 30/12/2010, M.D. No. 45 of 8 February 2013 on "Regolamento recante modalità di accreditamento delle sedi e dei corsi di dottorato e criteri per la istituzione dei corsi di dottorato da parte degli enti accreditati", R.D. No. 1413 of 03/05/2019, to the "Regolamento d’Ateneo sui Corsi di Dottorato di ricerca".

As for the grants funded with ROP Sardegna ESF 2014-2020, please refer to the call for funding for "Borse di Dottorato - Anno 2016 - P.O.R. FSE 2014- 2020 - nell’ASSE III “Istruzione e Formazione” - Obiettivo Tematico 10, Priorità d’investimento 10ii), Obiettivo Specifico 10.5, Azione dell’accordo di Partenariato 10.5.12", published by the Autonomous Region of Sardinia on 10 June 2016, regarding the funding agreement signed on 18/07/2019 between the Autonomous Region of Sardinia-Department of education, culture, information, entertainment and sports-Directorat-General of Education – University and youth policy and the University of Sassari.

The Rector

apv/PP

*(signed Prof. Massimo Carpinelli)*