

ANNEX 1/a				
PhD program: CITIES AND LANDSCAPES: ARCHITECTURE, ARCHAEOLOGY, CULTURAL HERITAGE, HISTORY AND RESOURCES				
XXXVIII CYCLE – a.y. 2022-2023				
Department	Department of European and Mediterranean Cultures: Architecture, Environment, Cultural Heritages (DICEM) - Matera			
Coordinator	Prof.ssa Antonella Grazia Maria Immacolata Romana GUIDA e-mail: antonella.guida@unibas.it			
Duration	3 years			
Web site	http://dicem.unibas.it/site/home/ricerca/dottorati-di-ricerca.html			
Curricula	Not provided			
Aims and topics	<p>The primary objective is the acquisition of an appropriate knowledge and of the effective theoretical and methodological tools that allow to operate with specific skills and disciplinary specializations and with a real multi - and interdisciplinary capability, in an aware dialogue between humanistic and technical-scientific knowledge for the study, the analysis and the interpretation of the phenomenon of cities and landscapes, with the use of innovative technologies and the design of interventions aimed at their sustainable development:</p> <ul style="list-style-type: none"> • Analysis, interpretation, diagnostics, protection, recovery, enhancement and enjoyment of the architectural, environmental, heritage, historical, cultural, artistic and archaeological assets and of the tangible and intangible heritages and related administrative functions. • Stratigraphic analysis of urban and rural contexts according to the methods of the total history and the global archeology of the landscapes . • Study of natural, energy, water resources and effects of climate change, environmental quality and adaptation strategies for natural, rural and urban systems. • Analysis of the evolutionary processes and the organizational models of the environment to small and large spatial and temporal scale, and projects for urban and landscape regeneration. • Process analysis of land instability, natural hazards, environmental and soil protection, and planning of urban, rural and coastal landscapes. • Analysis of rural and urban greening space, conservation of plant species in the natural environment and in the city. • Use of innovative technologies. 			
Admission requirements	<p>a) University degree obtained under the previous educational systems (ex ante D.M. 509/99, whose legal course has at least a four-year term);</p> <p>b) Laurea specialistica/magistrale (D.M. 509/99 and D.M. 270/2004);</p> <p>c) Academic title obtained abroad and eligible for access to the PhD program, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call.</p>			
Available positions	11	With scholarship	Without scholarship	Supernumeraries Art. 23 Regulations of University of Basilicata
		7	2	2

<p>Type of scholarships (Description awarding entity and research topic)</p>	<p>D.M. 351/2022 M4C1-INV.4.1</p>	<p><u>1 Scholarship "PNRR-Research"</u></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1) Hydromorphic sustainability of urbanized systems, new approaches for the equilibrium analysis of the urban and territorial transformations. 2) The architecture of military airports between the two Wars. Knowledge, recovery and valorization. <p><u>1 Scholarship "Public administration"</u></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1) Social housing for the sustainable city. Digitalisation models for the management of the real estate of the ATER of Potenza and for its redevelopment. 2) Legal configuration and implementation of participatory instruments such as green communities and energy communities as part of a strategy for the development of unitary models and harmonisation with the objectives of current national and European policies on ecological and energy transition. <p><u>1 Scholarship "Cultural heritage"</u></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1) Historical memories and intangible heritage: the places of memory of the twentieth century 2) Integrated approaches to the knowledge, musealization and enhancement of the pre-Hispanic archaeological heritage: towards a territorial museum of ancient cultures of the South Coast of Peru <p>A period in the company or research center or public administration and abroad is mandatory.</p>
	<p>D.M. 352/2022</p>	<p><u>1 scholarship in collaboration with the company "AGRIBIOSANA SRL [San Giorgio di Pietragalla (PZ)]"</u></p> <p>Topic: "Use of polymers having soil amendmet action able to improve yields and reduce the environmental impact of the herbaceous crops"</p> <p><u>1 scholarship in collaboration with the company "LEONARDO SOLUTIONS [Legnano (MI)]"</u></p> <p>Topic: "Innovative tools and methods for preventive maintenance and evaluation of the effectiveness and durability of conservation interventions of the built heritage through experimentation on case studies with the application of CNT® (Charge Neutralization Technology) for the restoration of walls from rising capillary"</p> <p>A period in the company and abroad is mandatory.</p>

	Ateneo	1 scholarship on a topic chosen from those already indicated for the DD.MM. 351/2022 e 352/2022. A period in the company or research center or public administration and abroad is mandatory.	
	CREA S.p.A.	1 scholarship Topic: "Safeguard of agrobiodiversity and evaluation of olive plant's response to biotic and abiotic stresses following the ongoing climate change" A period in the CREA S.p.A. and abroad is mandatory.	
Supernumeraries positions Art. 23 Regulations of University of Basilicata	2 positions	Candidates will have to present a research project related to the pilot theme "Knowledge, arts and innovative technologies for the preservation and enhancement of heritage and identity landscapes in the globalized world" A period abroad is mandatory.	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Positions without scholarship	2		
Admission procedure	The admission procedure is conducted through the: a) evaluation of qualifications b) evaluation, as part of the interview, of a research project , drawn up in Italian and English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022, Ministerial Decree 352/2022, another specific topic and, for only supernumerary posts, pilot theme of the doctorate) c) interview		
Evaluation criteria	a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points b) interview: up to a maximum of 75 points the interview is passed for a score not less than 45 points Minimum total score: 60 out of 100.		
Assessable qualifications	Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)	Up to 5 points	
	Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated)	Up to 10 points	
	Scientific publications (Articles in national and international scientific journals , proceedings of scientific conferences, books or book chapters)	Up to 5 points	

	Other titles (University degrees or Master Specialization, Research Grants, Scholarships, Erasmus scholarships and periods of activity abroad, ...)	Up to 5 points
Interview program	<p>The interview, which can be held in Italian, Spanish or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>	
Foreign language	English (knowledge of a foreign language will be assessed during the interview)	
Schedule of the admission tests	<p>Evaluation of qualifications: results will be available from <u>September 7, 2022</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the interview: <u>September 12, 2022 - 9:30 a.m.</u> Aula Magna - Campus di via Lanera, 20 – Matera</p>	

ANNEX 1/b	
PhD program: ENGINEERING FOR INNOVATION AND SUSTAINABLE DEVELOPMENT	
XXXVIII CYCLE – a.y. 2022-2023	
Department	Engineering School (SI-UniBas) - Potenza
Coordinator	Prof.ssa Aurelia SOLE e-mail: aurelia.sole@unibas.it
Duration	3 years
Web site	http://ingegneria.unibas.it/site/home/offerta-formativa/dottorati-di-ricerca/articolo64.html
Curricula	<ol style="list-style-type: none"> 1. Methods and Technologies for Environmental Monitoring and Protection 1. Analysis and prevention of natural risks (seismic and landslide risks) 2. Industrial Engineering and Information Technologies
Aims and topics	<p>The IISS PhD program aims to provide the doctoral students with strong scientific basis, and to help them in developing the ability to carry out pure and applied research, as well as to contribute to the elaboration and implementation of innovative, efficient, eco-compatible and socially sustainable development models. The students will acquire special skills in one of the following areas: methods and strategies for monitoring, protection and sustainability of the environment; methods of analysis of natural hazard (in particular seismic and landslide) and risk mitigation; management of raw materials, energy systems and industrial production; territorial planning, methods and systems for the processing and transmission of information. Furthermore, they are expected to acquire transversal skills in the field of sensors, modelling and analysis of complex interacting systems and of technologies of general interest. The doctoral students are also formed to be able to operate in high education sectors, as well as to carry out highly qualified activities related to research, development and management in private companies and public institutions and entities. The three curricula include activities consistent with the objectives of the National Recovery and Resilience Plan (PNRR).</p> <p>Curriculum "Methods and Technologies for Environmental Monitoring and Protection": Topics: Sensors and sensing technologies of environmental parameters; Integration and analysis of environmental data; Modelling monitoring, protection and preservation of the environment; Development of strategies and actions for prevention and resolution of environmental problems; Energy saving and distributed micro-generation; Data processing and applications with particular reference to COPERNICUS for environmental monitoring The curriculum aims to train researchers with a high scientific qualification level able to understand, apply and develop innovation in the fields of: (a) investigation methodologies, (b) analysis and modelling of environmental problems, (c) mathematical models for the scenarios development in the territorial planning as well as in the risk analysis and prevention areas, (d) sensors and also (e) the adoption and development of interventions strategies aimed at their prevention, mitigation and resolution. Moreover, attention is paid to the economic aspects of sustainable development issues, mainly concerning both social and environmental reporting themes, also in the form of integrated reports as well as the management and policy of the agri-food system. A further focus deals with the theme of the sustainable business model, from both the public and private sector perspective.</p> <p>Curriculum "Analysis and prevention of natural risks (seismic and landslide risks)": Topics: Numerical and experimental approaches for the assessment of seismic vulnerability of structures; Methods and techniques for the mitigation and management of seismic risk; Theoretical and experimental analyses of geotechnical problems; Slope stability and landslide risk reduction; Non-linear analysis of structures; Data processing and applications with particular reference to COPERNICUS for environmental monitoring. The curriculum aims to provide the doctoral students with the skills for operating in the fields of seismic and hydrogeological risks (for the latter, in particular, landslide risk), structural engineering, and geotechnical engineering. Strong physical-mathematical basis and knowledge of fundamental seismology are required. The students are supposed to</p>

	<p>acquire deep knowledge of: structural engineering, seismic engineering, geotechnical and foundation engineering, slope stability, all the types of monitoring systems, evaluation and mitigation of landslide and seismic risks (from the single construction or single slope scale to large areas scale). Within these subjects, original and innovative research must be developed, possibly in the view of green and sustainable solutions.</p> <p>Curriculum "Industrial Engineering and Information Technologies": Topics: Mechanical engineering design and applied mechanics, Mechanical technologies and industrial plants, Energy conversion systems, Engineering Thermodynamics and fluid flow machinery, Electromagnetism, Devices and systems for telecommunications, Automation and Mechatronics, Applied Physics. The research project aims to train valuable researchers that are capable of proposing innovative approaches and strategies for the development of efficient and sustainable energy, propulsion and industrial production systems, as well as developing methodologies and technologies suitable to create and integrate highly complex interacting systems. Particular attention is paid to the generation and management of energy provided from alternative and conventional sources with innovative approaches and methodologies, to the design of propulsion systems and, more generally, to the problems of driving and operating machines. From the point of view of industrial production, the topics are focused on robotics, sensors, unconventional technologies for processing materials, on methods of experimental characterization of materials and mechanical structures, on the design and management of integrated production systems and of the related plants, on logistics, on the design of mechanical systems with innovative approaches also based on vibratory and tribological phenomena. From the point of view of information technologies, the topics are focused on the applications of electromagnetism and propagation, on autonomous systems, on electronics for biometric applications and on telecommunication systems.</p>		
<p>Admission requirements</p>	<p>a) University degree obtained under the previous educational systems (ex ante D.M. 509/99, whose legal course has at least a four-year term); b) Laurea specialistica/magistrale (D.M. 509/99 and Dm 270/2004); c) Academic title obtained abroad and eligible for access to the PhD program, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call.</p>		
<p>Available positions</p>	<p>12 including 2 reserved positions</p>	<p>With scholarship 10</p>	<p>Without scholarship 0</p>
<p>Type of scholarships (Description awarding entity and research topic)</p>	<p>D.M. 351/2022 M4C1-INV.4.1</p> <p>1 Scholarship "PNRR-Research" on one of the following topics:</p> <ol style="list-style-type: none"> 1) Enabling Circular Economy and Sustainability by optimising services and logistics in Remanufacturing systems; 2) "Innovative systems and techniques for 3D ultrasound images acquisition and processing for medical diagnostic and biometric recognition applications"; 3) Design of eco-sustainable systems of landslide risk considering climate change; 4) Influence of structural degradation on the seismic performance of concrete structures <p>1 Scholarship "Public administration" Topic: "Identification and assessment of innovative governance tools for the integrated development of the territory" A period in the company or research center or public administration and abroad is mandatory</p>		

	D.M. 352/2022	<p><u>1 scholarship in collaboration with the company "GEOCART SpA (Potenza)"</u> Topic: "Integration of sensors and electro-mechanical systems for innovative remote sensing aerial platforms"</p> <p><u>1 scholarship in collaboration with the company "F4 INGEGNERIA SRL (Potenza)"</u> Topic: "Assessing the impact of renewable energy sources on Landscape, Land Take, and Ecosystem Services for producing sustainable Scenarios."</p> <p><u>1 scholarship in collaboration with the company "APPERÒ SRL (Potenza)"</u> Topic: "Innovative methods and technologies for hydro-pluviometric monitoring and early warning under climate change"</p> <p><u>1 scholarship in collaboration with the company "HYDROLAB SRL [Ferrandina (MT)]"</u> Topic: "Unconventional methods and technologies for the analysis of contaminated matrices and the assessment of health-environmental risk"</p> <p>A period in the company and abroad is mandatory.</p>	
	Ateneo	<p><u>2 scholarship</u></p> <p>on a topic chosen from those already indicated for the DD.MM. 351/2022 e 352/2022.</p> <p>A period in the company or research center or public administration and abroad is mandatory.</p>	
	Regione Basilicata	<p><u>1 scholarship</u></p> <p>Topic: "Use of CPT system data to monitor and assess the social responsibility of territorial public entities"</p> <p>A period abroad is mandatory.</p>	
	CNR IMAA [Tito Scalo (PZ)]	<p><u>1 scholarship</u></p> <p>Topic: "Energy systems analysis and development of decision support tools for energy-environmental planning and policy assessment"</p> <p>A period in the CNR-IMAA and abroad is mandatory.</p>	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Positions reserved for partners	Provincia di Potenza	<p><u>1 position</u> reserved for company employees</p> <p>A period abroad is mandatory.</p>	
	Protos SpA (Roma)	<p><u>1 position</u> reserved for company employees</p> <p>A period abroad is mandatory.</p>	

Admission procedure	<p>The admission procedure is conducted through the:</p> <p>a) evaluation of qualifications</p> <p>b) evaluation, as part of the interview, of a research project, drawn up in Italian and English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022, Ministerial Decree 352/2022, another specific topic)</p> <p>c) interview</p>	
Evaluation criteria	<p>a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points</p> <p>b) interview: up to a maximum of 75 points the interview is passed for a score not less than 45 points</p> <p>Minimum total score: 60 out of 100</p>	
Assessable qualifications	<p>Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)</p>	Up to 5 points
	<p>Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated)</p>	Up to 16 points
	<p>Scientific publications (Articles in national and international scientific journals , proceedings of scientific conferences, books or book chapters)</p>	Up to 2 points
	<p>Other titles (University degrees or Master Specialization, Research Grants, Scholarships, Erasmus scholarships and periods of activity abroad, ...)</p>	Up to 2 points
Interview program	<p>The interview, which can be held in Italian or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>	
Foreign language	English (knowledge of a foreign language will be assessed during the interview)	
Schedule of the admission tests	<p>Evaluation of qualifications: results will be available from <u>September 7, 2022</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the interview: <u>September 13, 2022 - 9:30 a.m.</u></p> <p><u>Room</u> G2, II piano – School of Engineering – Macchia Romana Campus, 85100 Potenza</p>	

ANNEX 1/c		
PhD program: SCIENCE		
XXXVIII CYCLE – a.y. 2022-2023		
Department	Department of Sciences - Potenza	
Coordinator	Prof.ssa Patrizia FALABELLA e-mail: patrizia.falabella@unibas.it	
Duration	3 years	
Web site	http://scienze.unibas.it/site/home/didattica/offerta-post-laurea.html	
Curricula	<ol style="list-style-type: none"> 1. Applied Biology 2. Geo-Sciences 3. Chemical Sciences 	
Aims and topics	<p>The Ph.D. "Science" brings together the educational and research experiences already gained, in the field of tertiary education, within the Department of Science. The course fits into the interdisciplinary field of chemical, geological, biological, pharmaceutical and natural sciences and is intended to provide students with tools for applied research in animal, plant, microbial and environmental biology, also through a One Health approach. The Ph.D. in "Science," incorporating the principles of the Program for a "Zero Waste Europe," aims to provide Ph.D. students with the basic concepts for the proper use of natural resources, green chemistry and the circular economy, i.e., an industrial economy in which any innovation in the production cycle must aspire to zero residue, aiming to reuse any material already used in the process, the development of new green technologies and processes and the design of new eco-friendly products. The course aims to provide the skills needed to carry out, at universities, research centers, public institutions or private entities, highly qualified research activities while contributing to the realization of the European Higher Education Area and the European Research Area and to the professional training of PhDs in line with the requirements of the recruitment policies of the National Recovery and Resilience Plan. The aim is to provide students with a solid preparation in both scientific knowledge and applied solutions (scientific method, ability to write and manage research projects, patenting skills, etc.), in order to conduct advanced research and experimentation and to know how to evaluate and exploit the results. In particular, the course aims to provide the tools to work in the fields of biology and chemistry, both basic and applied, as well as in the fields of environmental control and monitoring, control and use of resources and geo-resources, and the study of systems of geological interest.</p>	
Admission requirements	<ol style="list-style-type: none"> a) University degree obtained under the previous educational systems (ex ante D.M. 509/99, whose legal course has at least a four-year term); b) Laurea specialistica/magistrale (D.M. 509/99 and Dm 270/2004); c) Academic title obtained abroad and eligible for access to the PhD programme, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call. 	
Available positions	12	With scholarship
		Without scholarship
		12
		0

<p>Type of scholarships (Description awarding entity and research topic)</p>	<p>D.M. 351/2022 M4C1-INV.4.1</p>	<p><u>3 Scholarship "PNRR-Research"</u></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1) "Bioactive molecules from insects and their applications" (curriculum Applied Biology) 2) "Development of precision anticancer therapies through the use of molecules capable of inhibiting or reprogramming the activity of new and specific molecular targets" (curriculum Applied Biology) 3) "Identification and evaluation of gender-specific biomarkers in chronic diseases" (curriculum Applied Biology) 4) "New technologies for the purification of wastewater and polluted water" (curriculum Geo-Sciences) 5) "Climate change and landscape vulnerability inland of the Ionian coast" (curriculum Geo-Sciences) 6) "Development of novel approaches for the assignment of the absolute stereochemistry of natural molecules of pharmaceutical and agrochemical interest" (curriculum Chemical Sciences) 7) "Starting material" / "Biomimetic and/or eco-friendly syntheses of biologically active products using natural metabolites as starting material" (curriculum Chemical Sciences) 8) "Synthesis of silver and gold complexes stabilized by N-heterocyclic carbene ligands: application in catalytically sustainable processes and primary evaluation of their pharmacological activity" (curriculum Chemical Sciences) <p>A period abroad is mandatory.</p>
	<p>Borse D.M. 352/2022</p>	<p><u>1 scholarship in collaboration with the company "LAB- INSTRUMENTS SRL [Castellana Grotte (MT)]"</u></p> <p>Topic: "New Methods for the Multi-Residue Analyses of Polar Pesticides in Food Matrices" (curriculum Geo-Sciences)</p> <p><u>2 scholarships in collaboration with the company "TotalEnergies EP Italia SpA (Milano)"</u></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1) "Insect-mediated bioconversion of by-products of the agri-food chain into valuable products, with particular attention to the lipid component" (curriculum Applied Biology) 2) "Insect cell lines: a sustainable source of novel food" (curriculum Applied Biology)

		<p><u>1 scholarship in collaboration with the company "NUTRACEUTICA SRL [Monterenzio (BO)]"</u></p> <p>Topic: 'Phytochemical profile and cytoprotective activity of <i>Malus domestica</i> extracts' (curriculum Applied Biology)</p> <p>A period in the company and abroad is mandatory.</p>	
	Ateneo	<p><u>4 scholarships</u> on a topic chosen from those already indicated for the DD.MM. 351/2022 e 352/2022.</p> <p>A period in the company and abroad is mandatory.</p>	
	Department of Sciences	<p><u>1 scholarship</u></p> <p>Topic: "Detailed geological mapping and structural analysis of an area falling on the 489 sheet "Muro Lucano" of the 1:50.000 geological map of Italy, according to the standards used for the CARG project (geological and geothematic cartography)" (curriculum Geo-Sciences).</p> <p>A period abroad is mandatory.</p>	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Admission procedure	<p>The admission procedure is conducted through the:</p> <p>a) evaluation of qualifications</p> <p>b) evaluation, as part of the interview, of a research project, drawn up in Italian and English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022, Ministerial Decree 352/2022, another specific topic)</p> <p>c) video conference interview using google meet</p>		
Evaluation criteria	<p>a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points</p> <p>b) interview: up to a maximum of 75 points the interview is passed for a score not less than 45 points</p> <p>Minimum total score: 60 out of 100</p>		
Assessable qualifications	Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)		Up to 5 points
	Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated)		Up to 16 points

	Scientific publications (Articles in national and international scientific journals, proceedings of scientific conferences, books or book chapters)	Up to 2 points
	Other titles (University degrees or Master Specialization, Research Grants, Scholarships, Erasmus scholarships and periods of activity abroad)	Up to 2 points
Interview program	<p>The interview, which can be held in Italian or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>	
Foreign language	English (knowledge of a foreign language will be assessed during the interview)	
Schedule of the admission tests	<p>Evaluation of qualifications: results will be available from <u>September 8, 2022</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the video conference interview: <u>September 13, 2022 - 10:00 a.m.</u></p>	

ANNEX 1/d			
PhD program: AGRICULTURAL, FOREST AND FOOD SCIENCES ASSOCIATED WITH SALERNO UNIVERSITY			
XXXVIII CYCLE – a.y. 2022-2023			
Department	School of Agriculture, Forest, Food and Environmental Sciences (SAFE) - Potenza		
Coordinator	Prof. Giovanni Carlo DI RENZO e-mail: dottoratosafe@unibas.it		
Duration	3 years		
Web site	https://sites.google.com/unibas.it/safe-phd/		
Curricula	<ol style="list-style-type: none"> 1. Agricultural, Forest and Environmental Science 2. Food Sciences and Engineering 		
Aims and topics	<p>The objective of PhD course is to provide to the PhD students a solid preparation, in terms of both knowledge and skills of basic aspects (e.g. scientific method, ability in expression and presentation, ability to manage research projects and working groups, teaching skills) and applications (e.g. transfer and evaluation of scientific-technological innovations), in order to carry out research and management activities at qualitatively high levels.</p> <p>Specifically, the preparation of doctoral students will be focused to train figures able to:</p> <ol style="list-style-type: none"> a) develop and propose research projects to local, national or international institutions, as well as to private industries; b) identify the needs of research according to their scientific, social and economic impact; c) carry out research in one or more specific sectors of PhD course at high quality levels (including bibliographic research, planning and development of experimental activities, data analysis); d) communicate and disseminate the results of research to scientific and non-scientific community (oral communications, publications on high-impact journals); e) transfer knowledge through teaching activities to academic institutions, industries, non-scientific communities; f) transfer the results of research in public and private sectors (knowing the issues related to Intellectual Property Rights, designing spin-offs and start-ups). 		
Admission requirements	<ol style="list-style-type: none"> a) University degree obtained under the previous educational systems (ex ante D.M. 509/99, whose legal course has at least a four-year term); b) Laurea specialistica/magistrale (D.M. 509/99 and Dm 270/2004); c) Academic title obtained abroad and eligible for access to the PhD program, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call. 		
Available positions	9	With scholarship	Without scholarship
		7	2
Type of scholarships (Description awarding entity and research topic)	D.M. 351/2022 Basilicata University	M4C1-INV. 3.4 <u>1 scholarship</u> "Digital and environmental transitions" Topic: "Prevention and mitigation of climate change impact on the territory; sustainable management and forest planning; environmental monitoring and desertification processes; forest ecology and silviculture; forest fire protection; protection and exploitation of forests and natural resources in protected areas; wood technology; wood industry and its derivatives; forest harvesting".	

		<p>M4C1-INV. 4.1</p> <p><u>2 scholarship</u> "PNRR-Research"</p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1. Biology, morpho-physiology and pathology of crop and forest plants, farm and wild animals, insects. Integrated management of plant insects and diseases 2. Methods for assessment of environmental sustainability of territories and/or agricultural productions and livestock systems and improvement of food safety 3. Agri-food system sustainability analysis and economic, social and environmental impact evaluation of technological change in production processes; economic and environmental sustainability evaluation in the use of end-of-cycle outputs and models for innovation adoption for agriculture and rural development policies definition; ecosystem services models for enhancing agro-forestry chains in marginal areas; well-being evaluation models for socio-economic development strategies in rural areas and inequalities reduction in marginal areas 4. Study and exploitation of microbial communities to improve quality and sustainability of food production; biorefineries or the sustainable production of ingredients for foods, chemical and pharmaceutical industries through the use of microorganisms; innovative processes for the production of nutraceutical and functional foods 5. Plants, machinery and sustainable technologies for the agricultural, forestry and food sector. Development of innovative systems for the industrial plants and processes automation and control, for energy saving and food quality. Non-destructive analysis of vegetable and food materials in the field and during the processing steps. Innovative technological solutions and precision technologies in the field, in the farm and in the food-industry. <p>A period in the company or research center and abroad is mandatory.</p>
	<p>D.M. 351/2022 Salerno University</p>	<p>M4C1-INV. 4.1</p> <p><u>1 scholarship</u> "PNRR-Research"</p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> 1. Sustainable agro-systems resilient to climate change: monitoring and management of entomes of agricultural interest; molecular-genetic approaches for studying the response of plants to stress and the development of resilient varieties to climate change 2. Precision and Digital Agriculture. Methods of investigation with AUVs and biogeophysical tools for the definition of sustainable agricultural systems

		1 scholarship "PNRR-Research"	
		Topic: "New models of circular economy and sustainability in agriculture through the enhancement and recycling of wastes, co-products and by-products from the primary and agro-industrial sector for the development of health products"	
		A period abroad is mandatory.	
	Ateneo	2 scholarship	
		on a topic chosen from those already indicated for the D.M. 351/2022 Basilicata University.	
		A period abroad is mandatory.	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Positions without scholarship	2 positions		
Admission procedure	<p>The admission procedure is conducted through the:</p> <ul style="list-style-type: none"> a) evaluation of qualifications b) evaluation, as part of the interview, of a research project, drawn up in Italian and English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022) c) video conference interview using google meet 		
Evaluation criteria	<ul style="list-style-type: none"> a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points b) interview: up to a maximum of 75 points the interview is passed for a score not less than 45 points <p>Minimum total score: 60 out/100.</p>		
Assessable qualifications	Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)	max 16 points	
	Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated)	max 5 points	
	Scientific publications (Articles in national and international scientific journals, proceedings of scientific conferences, books or book chapters)	max 3 points	
	Other titles (University degrees or Master Specialization)	max 1 point	

<p>Interview program</p>	<p>The interview, which can be held in Italian or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>
<p>Foreign language</p>	<p>English (knowledge of a foreign language will be assessed during the interview)</p>
<p>Schedule of the admission tests</p>	<p>Evaluation of qualifications: results will be available from <u>September 8, 2022</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the video conference interview: <u>September 14 and 15, 2022</u></p>

ANNEX 1/e			
PhD program: HISTORY, CULTURE AND KNOWLEDGES OF MEDITERRANEAN EUROPE FROM ANTIQUITY TO CONTEMPORARY AGE			
XXXVIII CYCLE – a.y. 2022-2023			
Department	Department of Human Sciences (DiSU) - Potenza		
Coordinator	Prof. Michele BANDINI e-mail: michele.bandini@unibas.it		
Duration	3 years		
Web site	Dottorato DiSU (unibas.it)		
Curricula	<ol style="list-style-type: none"> 1. Mediterranean civilizations, institutions and territory 2. Literatures, languages, cultures and knowledge in Mediterranean Europe 		
Aims and topics	<p>The PhD course aims at providing PhD students with the skills required to high quality research, as a result of a strong integration between "knowledge" and "know-how". The planned three-year course focuses on a plurality of themes, from the theoretical debate to the history of mentalities and thought, literary history, social-economic as well as political-institutional history. The course will enable PhD students to conduct original research at a high scientific level, with a special concern for the analysis of the relations between Southern Italy and other countries and/or areas of European countries in the Mediterranean basin. The interest for the historical dynamics will be accompanied by a special focus on the artistic, linguistic, literary, philosophical, and generally cultural experience. Within both <i>curricula</i>, the PhD student will get, on one hand, the ability to exploit all possible sources for historical reconstruction (historical, archaeological, linguistic, literary, artistic, philosophical, as well as audiovisual documents); moreover, he will learn to consider the intellectual expressions in their historical dimension.</p>		
Admission requirements	<p>Degree/Master in one of the following classes of degrees: LM-2, LM-11, LM-14, LM-15, LM-19, LM-37, LM-39, LM-43, LM-49, LM-62, LM-63, LM-65, LM-78, LM-84, LM-85, LM-85 bis, LM-89, LM-90, LM-92, 2/S, 15/S, 16/S, 17/S, 18/S, 24/S, 42/S, 44/S, 55/S, 70/S, 93/S, 94/S, 95/S, 96/S, 97/S, 98/S, 99/S, 101/S.</p> <p>Old system Degrees treated in the same classes or master degrees above according to Ministerial Decree 9th July 2009.</p> <p>Academic title obtained abroad and eligible for access to the PhD program, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call.</p>		
Available positions	5	With scholarship	Without scholarship
		4	1
Type of scholarships (Description awarding entity and research topic)	D.M. 351/2022 M4C1-INV. 4.1	<p><u>1 scholarship</u> "PNRR-Research"</p> <p>Topic: "Study and valorisation of the literary, artistic and archaeological heritage with a view to digital transition"</p> <p><u>1 scholarship</u> "Public administration"</p> <p>Topic: "Study and valorisation of historical, philosophical and educational heritage with a view to digital transition"</p> <p>A period in the company or research center or public administration and abroad and aboard is mandatory.</p>	

	Ateneo	<u>2 scholarship</u> on a topic chosen from those already indicated for the D.M. 351/2022. A period in the company or research center or public administration and abroad and aboard is mandatory.	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Positions without scholarship	<u>1 position</u>		
Admission procedure	<p>The admission procedure is conducted through the:</p> <p>a) evaluation of qualifications</p> <p>b) evaluation, as part of the interview, of a research project, drawn up in Italian and English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022)</p> <p>c) interview</p>		
Evaluation criteria	<p>a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points</p> <p>b) interview: up to a maximum of 75 points The interview is passed for a score not less than 45 points</p> <p>Minimum total score: 60 out/100.</p>		
Assessable qualifications	Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)		max 8 points
	Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated).		max 8 points
	Reference letters (attach two letters of presentation from university professors, at least one of which is external to the University of Basilicata)		max 2 points
	Scientific publications and Other titles (University degrees or Master Specialization, Research Grants, Scholarships, Erasmus scholarships and periods of activity abroad, ...)		max 7 points
Interview program	<p>The interview, which can be held in Italian or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>		
Foreign language	English or French or German or Spanish (knowledge of a foreign language will be assessed during the interview)		

Schedule of the admission tests	<p>Evaluation of qualifications: results will be available from <u>September 9, 2022</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the interview: <u>September 15, 2022 - 9:00</u></p> <p>Meeting room - Department of Human Sciences (DiSU) – Via Nazario Sauro, 85, 85100 Potenza</p>
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