



ANNEX A

PH.D. PROGRAMME IN RESEARCH METHODS IN SCIENCE AND TECHNOLOGY Academic year 2023/2024 – XXXIX cycle			
Administrative Department	Department of Pure and Applied Sciences (DISPEA)		
Coordinator	Prof. Alessandro BOGLIOLO		
Duration of the programme	3 years		
Available positions	Scholarships funded by the University of Urbino	n. 7	
	Scholarships funded by the University of Urbino reserved to candidates holding a foreign degree	n. 2	(Eligible candidates who want to compete also for these positions must specify it in the online procedure)
	PNRR funded thematic scholarships (Ministerial Decree 118/2023) Mission 4, Component 1 - Investment 3.4 T1 "Assignment of new three-year doctorates in programs dedicated to digital and environmental transitions" CUP:H54D23001140006	n. 1	Restricted research topic 1: Finite elements models of the ground-coupled heat exchange in closed-loop systems for renewable energy production with geothermal heat pumps.
	PNRR funded thematic scholarships (Ministerial Decree 118/2023) Mission 4, Component 1 - Investment 4.1 "Extension of the number of research doctorates and innovative doctorates for public administration and cultural heritage"	PNRR generic n. 4	Restricted research topic 2: Low environmental impact multicomponent reactions: a sustainable tool for the synthesis of new heteroatomic systems. Restricted research topic 3: Additive manufacturing technologies for the development of advanced drug delivery systems Restricted research topic 4: Enhancing protection and preservation of nature, biodiversity, and mitigating various forms of pollution: analysis of the emerging pollutants, eutrophication and microbial load in vulnerable sites and risk for the biodiversity



			<p>Restricted research topic 5: Crystals for the realization of the Einstein Telescope the third-generation gravitational wave detector.</p> <p>CUP 54D23001760006</p>
		PNRR P.A. n. 2	<p>Restricted research topic 6: Privacy-preserving digital platforms for monitoring and promoting the co-creation of social value.</p> <p>Restricted research topic 7: Policies in scientific research. How to evaluate the fruitfulness of a research program in theoretical physics.</p> <p>CUP H54D23001780006</p>
	PNRR funded thematic scholarships (Ministerial Decree 117/2023) Mission 4, Component 2, Investment 3.3 "Introduction of innovative doctorates that respond to the innovation needs of companies and promote the recruitment of researchers from companies"	n. 2	<p>Restricted research topic 8: Liquid Electron Ionisation ("LEI") and Chemical Ionisation ("CI") technology to address capability gaps in active ingredient ("AI") measurement to support crop protection development and registration. (Syngenta Limited) CUP: H54D23001110007</p> <p>Restricted research topic 9: New methodologies for the monitoring and analysis of landslides. (Nhazca S.r.l.) CUP: H54D23001100007</p>
	Positions without scholarship	n. 1	
Topics covered in the interview	CHIM/01; CHIM/03; CHIM/08; CHIM/09; FIS/01; GEO/02; GEO/08; INF/01; ING-INF/05; MAT/05; M-FIL/02		
How to apply	The application must be submitted exclusively via the online procedure available at: https://pica.cineca.it/uniurb/dottorato39 by and no later than June 29th, 2023, h 11:00 am (Italian time).		
Selection procedure	Evaluation of qualifications (including the research project) + oral exam via Zoom		



Scores for the evaluation of qualifications and the oral exam	<p>Points for qualifications (including research project): up to 20 Points for the oral exam (including the knowledge of the English language): up to 60 Candidates who obtain a minimum score of 10 points out of 20 for the evaluation of qualifications, will be admitted to the oral exam. Minimum final score 50/80</p>	
Criteria for the evaluation of qualifications	<p>Curriculum vitae et studiorum: up to 10 points Master's thesis: up to 4 points Research project: up to 8 points Scientific publications: up to 2 points Reference letters: up to 1 point Additional documentation: up to 1 point</p>	
Compulsory documentation to be attached to the application and criteria for the evaluation of qualifications	Curriculum vitae et studiorum (up to 4 points)	<p>The CV form is available at: https://www.uniurb.it/international/regular-students/phd-programs/admission-information</p> <p>The following aspects will be evaluated if detailed in the CV: - academic qualifications higher than those requested for admission; - experiences abroad; - research experience gained in the sectors covered by the Ph.D. programme; - linguistic certifications.</p>
	Master's thesis (up to 4 points)	<p>Title and abstract of the Master's thesis</p> <p>Candidates who have not yet achieved their Master's Degree can present a summary (no longer than 4 pages) of the project of their Master's thesis, signed by his/her supervisor.</p> <p>To be uploaded under "Publications" in the section "Documents to be submitted with the application form" of the online application procedure.</p>
	Research project (up to 8 points)	<p>Three-year research project proposal, written in English, length between 4000 and 7000 characters (spaces included), indicating the thematic area and the ERC sector chosen amongst those indicated in the content description of the Ph.D. Programme (https://www.uniurb.it/research-methods-in-science-and-technology) and with the following structure: a) state of art b) objectives c) methodology d) expected results.</p> <p>Guidelines for Research Project Proposal available here: https://www.uniurb.it/international/regular-students/phd-programs/admission-information</p> <p>Candidates applying to the restricted research topic scholarships (DM 117-118/2023) must refer to the relevant illustrative sheet and use the dedicated form provided in the "Official documentation" section of the page https://www.uniurb.it/research-methods-in-science-and-technology</p>



		<p>The research project will be evaluated for admission purposes solely and will not be binding for the definition of the dissertation work in case of admission to the Ph.D. Programme with the exception of the PNRR scholarships.</p> <p>Candidates applying for the positions referred to the restricted research topic (DM 117-118/2023) will in any case strictly depend on the link that can be inferred from the project with the illustrative sheet in the "official documentation" section of the site course website Guidelines for Research Project Proposal available here: https://www.uniurb.it/research-methods-in-science-and-technology</p>
	Optional documentation	
	Scientific publications (up to 2 points)	Attach a list of publications and workshop communications/posters as well as a PDF copy of them. Up to 3, published within the last 3 years.
	Reference letters (up to 1 point)	Up to 2 reference letters issued by Italian or foreign Professors/Researchers
	Additional documentation (up to 1 point)	Other scientific and cultural titles, such as: - prizes and awards achieved in the sectors covered by the Ph.D. programme; - certification of skills in the sectors covered by the Ph.D. programme.
Publication of the results of the evaluation of qualifications	The results of the evaluation of the qualifications will be published by July 17th, 2023 in the "Official documentation" section of the webpage: https://www.uniurb.it/research-methods-in-science-and-technology	
Informations on the oral exam	Oral exam: it will be held in English and will mainly focus on the curriculum of the studies, on the objectives that the candidate intends to pursue during the Ph.D. programme. For the evaluation of the oral exam, the following aspects will be considered: clarity and linearity of presentation, argumentative ability, theoretical and methodological knowledge, and congruence of study interests and research objectives with the research topics of the Ph.D. programme.	
Calendar of interviews and Zoom link	<p>Interviews, for candidates admitted to the oral exam, will take place from July 18th, 2023 at 9:30 CEST by videoconference.</p> <p>In case of a high number of candidates to be examined, the commission reserves the right to distribute the interviews over several days and time slots.</p> <p>The calendar of interviews and the Zoom link for the interviews will be indicated in the file "CALENDARIO PROVA ORALE /CALENDAR OF INTERVIEWS" which will be published in the "Official documentation" section of the webpage: https://www.uniurb.it/research-methods-in-science-and-technology</p> <p>Any changes will be published at the same link.</p>	
Final merit ranking	The final merit ranking will be published in the "Official documentation" section of the webpage: https://www.uniurb.it/research-methods-in-science-and-technology	
Information on the activities of the Ph.D. Programme	https://www.uniurb.it/research-methods-in-science-and-technology	
For information requests	Prof. Alessandro Bogliolo, tel +39 0722 304410 Email: alessandro.bogliolo@uniurb.it	



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<p>regarding scientific aspects of the Programme</p>	<p>Please indicate "Ph.D. in RESEARCH METHODS IN SCIENCE AND TECHNOLOGY. XXXIX cycle" in the email subject</p>
<p>For information requests regarding administrative aspects and support with the online application procedure</p>	<p>Ph.D. Office: dottorato@uniurb.it</p> <p>Please indicate "Ph.D. in RESEARCH METHODS IN SCIENCE AND TECHNOLOGY. XXXIX cycle" in the email subject</p>