

## PhD Programme Outline (English version)

(Annex 1 al “Bando di concorso per l’ammissione al Dottorato di Ricerca XXXVIII Ciclo – A.A. 2022/2023, in Digital Transition, Innovation and Health Services”)

PhD Course	Digital Transition, Innovation and Health Service
<b>Coordinator</b>	Prof. Arcangelo MERLA email: dottorato@unidav.it
<b>Duration</b>	3 years - Starting date: November 1 <sup>st</sup> , 2022
<b>Disciplines</b>	SH1_3 Development economics, health economics, education economics SH1_10 Management; marketing; organizational behavior; operations management SH1_10 Management; marketing; organizational behavior; operations management SH3_9 Health, aging and society SH3_13 Digital social research SH3_14 Science and technology studies PE1_21 Applied Mathematics for industry and society PE6_5 Cryptology, security, protection of personal data (privacy), quantum cryptology PE6_6 Algorithms, distributed / parallel algorithms, network algorithms, algorithmic game theory PE6_6 Algorithms, distributed / parallel algorithms, network algorithms, algorithmic game theory

	<p>PE6_7 Artificial intelligence, intelligent systems, multi-agent systems</p> <p>PE6_10 Web and information systems, database systems, information retrieval and digital libraries, data fusion</p> <p>PE6_11 Machine learning, data processing with statistical and application methods that use signal processing (eg, speech, images, video)</p> <p>PE7_11 Components and systems for applications (eg: in medicine, biology, environment)</p> <p>PE8_13 Industrial bioengineering</p> <p>LS2_12 Bioinformatics</p> <p>LS2_13 Computational biology</p> <p>LS2_14 Biostatistics</p> <p>LS7_10 Health services, health care research, medical ethics</p>
<p><b>PhD Programme description</b></p>	<p>The PhD course in Digital Transition, Innovation and Health Service, thanks to a highly interdisciplinary vocation, through a methodological approach oriented towards scientific rigor and application transposition, will provide students with the fundamental tools of knowledge and skills, both specific and transversal, which are necessary to elaborate original research questions and formulate hypotheses and applicative projects in the context of the digital transition applied to innovative health services.</p> <p>The Doctoral Course is activated by means of a specific agreement between the Leonardo da Vinci Telematic University and the G. d'Annunzio University of Chieti-Pescara, by virtue of which it benefits from research and educational services and infrastructures provided by the G. d'Annunzio University of Chieti-Pescara.</p> <p>The Doctoral Course also includes an industrial-type scholarship in collaboration with Digital Platforms Group and three positions (without scholarship) reserved for employees of the Local Health Authority n.2 LANCIANO-VASTO-CHIETI.</p> <p>Specifically, the application projects will focus on issues related to the creation, organization and management of processes and services related to the digital transition and digital innovation for advanced health services, in terms of health, telemedicine and tele-assistance, personalized medicine, continuity, digital twin health and computerization of the health record. The PhD course will also deal with communication in medicine and public health in the age of digitalization.</p>

	<p>The PhD course in Digital Transition, Innovation and Health Service aims to train experienced researchers and professionals of digital transition and innovation, capable of influencing, both programmatically and concretely, on policies and on the implementation of programs and processes, related to the digital transition, both in the public and in the private sector.</p> <p>The aim of the course is to provide PhD students with an overview of the issue of digital transition, on the one hand, and, on the other, a particular view on specific areas of research and application of interest to the student.</p> <p>At the end of the PhD program, the student will have the skills and knowledge, multidisciplinary and transversal, to participate consciously, direct, govern, implement the research processes of interest in the sector.</p> <p>The course aims to foster and stimulate the student's research and proposition capacity, aimed at identifying new lines of research or application, demonstrating their practicability, and evaluating their impact, both on a technical level and on that of socio-sustainability. economic and environmental, from the point of view of the "do no Significant Harm" (DNSH) principle.</p> <p>There is an obligation for doctoral students to complete training periods in training and research institutions of international importance abroad in accordance with the regulations in force.</p>
<b>Available positions</b>	<b>n.11 positions</b> of which:
	<b>n. 6 positions with scholarship</b> (4 funded by NextGener for the Online University Leonardo da Vinci; 2 funded by the Università degli Studi G. d'Annunzio di Chieti-Pescara)
	<b>n. 1 position with scholarship</b> funded by the <b>DM 352</b> , on the topic: "Cybersecurity and IoT : Development and Transitions".
	<b>n. 3 positions</b> reserved to employees (maintaining their salary) of the Azienda Sanitaria Locale n.2 LANCIANO-VASTO-CHIETI involved in high qualification activities pertaining the Ph.D. programme
	<b>n. 1 position without scholarship</b>
	<b>In the application form, candidates must indicate whether they intend to compete for positions with a scholarship, the position on a restricted topic funded by Ministerial Decree 352, or for the doctoral positions reserved for ASL employees.</b>
<b>Admission requirements</b>	See art. 2 Ph.D. Call 38 <sup>th</sup> cycle - Academic Year 2022/2023.

<b>Language/s</b>	Knowledge of English language is required
<b>Documentation in PDF format to be attached on line</b>	<ol style="list-style-type: none"> <li>1. CV (European format), limited to academic and / or scientific and / or professional qualifications consistent with the themes of the doctorate (max 10,000 characters);</li> <li>2. diploma supplement or self-certification of the exam marks taken during the course of study, as well as graduation marks;</li> <li>3. research project (max 10,000 characters).</li> <li>4. Any other relevant qualifications (scientific publications, awards, or other)</li> </ol>
<b>Selection procedures and criteria</b>	<p>FOR QUALIFICATION AND INTERVIEW.</p> <p>The selection will be made through:</p> <ul style="list-style-type: none"> <li>- evaluation of curriculum and qualifications (40/100 points)</li> <li>- evaluation of the research project (points 20/100);</li> <li>- oral exam (40/100 points).</li> </ul> <p><b>The minimum score to be eligible for the positions is 60/100.</b></p> <p>Candidates who applied for the position with the restricted theme scholarship, will take, if eligible in the general ranking, an extra oral test (max 40/100 points).</p> <p>The interview consists of (a) the discussion of the degree thesis; (b) in the discussion of the research project; (c) in the assessment of knowledge of the English language (conducted by submitting a piece drawn from an adequate number of pieces prepared by the Commission);</p> <p>(d) in the discussion of the related topic (supplementary test, if the position with the restricted theme scholarship has been chosen by the candidate).</p> <p>Candidates residing abroad who request to sit the oral exam remotely are contacted by email by the Commission to define the date and time of the interview.</p>

<b>Exam Date</b>	<p>The oral exam takes place on 22 September 2022, 09:00 at the "Palazzetto dei Veneziani", Chieti, (CH) (classroom to be defined). Indications will be available on the Doctoral website (<a href="http://www.unidav.it/dottorato">www.unidav.it/dottorato</a>).</p> <p>In the case of students residing abroad, the test can be taken electronically.</p> <p>If it is not possible to carry out the exam in person due to the Covid-19 emergency, the test will take place electronically on a platform that will be indicated later.</p>
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