REGISTRATION OPENING: August 4th 2023 09:00 am (CET)
DEADLINE FOR APPLICATIONS: September 7th 2023 1:00 pm (CET)

Student Services Area
  PhD Office

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Rector's Decree N. 871/2023
Prot. N. 208462 of 03/08/2023

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THE RECTOR

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HAVING CONSIDERED

- the Statute of the University of Modena and Reggio Emilia, enacted by Rector's Decree no. 3 of February 6th, 2012 and subsequent amendments and additions;

- the Italian Prime Minister's Decree of April 9th, 2001 on *"Uniform treatment regarding the right to higher education"*, in accordance with art. 4 of Law no. 390 of December 2nd, 1991, and subsequent amendments and additions;

- art. 4 of Law no. 210 of July 3rd, 1998 on "*Guidelines for the recruitment of tenured university researchers and professors",* published in the Official Gazette of July 6th, 1998, General Series no. 155, and subsequent amendments and additions;

- Ministerial Decree no. 226 of December 14th, 2021, on *"Regulation on the procedures for the accreditation of seats and PhD programmes and criteria for establishment of the PhD programmes by the accredited institutions"*, published in the Official Gazette of December 29th, 2021, General Series, no. 308;

- Rector's Decree no. 481 of May 12th, 2022, implementing the provisions contained in Ministerial Decree no. 226 of December 14th, 2021, to enact the University Regulations governing PhD studies, and subsequent amendments and additions;

- EU Regulation No. 2021/241 of February 12th, 2021 establishing the Recovery and Resilience Facility;

- the National Recovery and Resilience Plan (NRRP) approved by the ECOFIN Council Decision of July 13th, 2021 and notified to Italy by the General Secretariat of the Council by note LT161/21, dated July 14th, 2021;

- Mission 4, Component 2, Investment 3.1 of the NRRP, which provides for the establishment of an integrated research and innovation infrastructure system;

- EU Regulation 2018/1046 of July 18th, 2018 on the financial rules applicable to the general budget of the Union, amending EU Regulations No. 1296/2013, No. 1301/2013, No. 1303/2013, No. 1304/2013, No. 1309/2013, No. 1316/2013, No. 223/2014, No. 283/2014 and Decision No. 541/2014/EU and repealing Regulation (EU, Euratom) No. 966/2012;

- Article 17 EU Regulation 2020/852 which sets out environmental objectives, including the principle of Do No Significant Harm (DNSH), and EU Commission Communication 2021/C

58/01 on 'Technical guidance on the application of the principle of "Do no significant harm" under the Recovery and Resilience Facility Regulation';

- the cross-cutting principles set out in the NRRP, such as, inter alia, the principle of contributing to the climate and digital objective (so-called tagging), the principle of gender equality and the obligation to protect and empower young people;

- the obligations to ensure the achievement of targets and milestones and the financial objectives set out in the NRRP;

- Ministerial Decree no. 301 of March 22nd, 2022 on "*Guidelines for the accreditation of PhD programmes in accordance with art. 4, paragraph 3, of the Regulation as per Ministerial Decree no. 226 of December 14th, 2021*";

- the Note of the Ministry of University and Research of March 2nd, 2023 which informed that the rules of Ministerial Decree no. 301 of 22 March 22nd, 2021 also apply to the accreditation of courses for the XXXIX cycle;

- Ministerial Decree no. 118 of March 2nd, 2023 which set out for the academic year 2023/2024 the attribution on PNRR, Mission 4, Component 1 *"Strengthening the offer of educational services: from Nursery to University"* – Investment 3.4 *"Didactics and advanced university skills"* and Investment 4.1 *"Extension of the number of the PhD programmes and innovative PhD Programmes for the Public Administration and the Cultural Heritage"* of three-years PhD scholarships for the attendance of PhD courses;

- Ministerial Decree no. 117 of March 2nd, 2023 which set out for the academic year 2023/2024 the attribution on PNRR, Mission 4, Component 2 *"From the research to the enterprise"* - Investment 3.3 *"Introduction of innovative PhD Programmes that meet the innovation needs of the enterprises and promote the recruitment of Researchers by the enterprises"* of three-years PhD scholarships for the attendance of PhD courses;

- the resolutions of the Senate of May 9th, 2023 and of the Executive Boards of March 22nd and May 19th, 2023 which approved the planning and the establishment of PhD programmes, with administrative headquarters at the University of Modena and Reggio Emilia, included the Italian National PhD in Learning Sciences and Digital Technologies;

- the resolutions of the Senate of May 23rd, 2023 and of the Executive Boards of May 26th, 2023 which determined the contribution amounts for access and attendance to PhD courses for the academic year 2023/24;

- the activation and renewal proposals of the PhD programmes submitted by this University to the Ministry of University and Research, included the Italian National PhD in Learning Sciences and Digital Technologies;

DEEMED it necessary to proceed with publication of the call for application for the abovementioned course pending the assessment of the Ministry of University and Research on the activation of this

course, in order to respect the timetable envisaged by the Ministry of University and Research for the publication of the rankings;

D E C R E E S

ARTICLE 1 - Institution

Institution

A selection procedure for admission to the Italian National PhD program in Learning Sciences and Digital Technologies for the XXXIX cycle (Academic Years 2023/2024-2024/2025-2025/2026) is hereby open. With the participation of LUMSA - Libera Università "Maria Santissima Assunta", Free University of Bozen-Bolzano, LUISS - Guido Carli Free International University for Social Studies, University of Eastern Piedmont "Amedeo Avogadro" - Vercelli, "Aldo Moro" University of Bari, University of Bergamo, Alma Mater Studiorum - University of Bologna, University of Camerino, University of Ferrara, University of Florence, University of Foggia, University of Genoa, University of Milan, "Federico II" University of Naples, University of Padua, University of Palermo, University of Parma, University of Perugia, "Sapienza" University of Rome, Tor Vergata University of Rome, University of Salerno, University of Turin, University of Trento, University of Udine, University of Verona, "Suor Orsola Benincasa" University of Naples, University of Pisa, University for Foreigners of Perugia, Marche Polytechnic University, Institute for Educational Technology (CNR-ITD) of Palermo, and INDIRE - National Institute for Documentation, Innovation and Educational Research of Florence, it has administrative office in University of Modena and Reggio Emilia.

Duration

The Italian National PhD program in Learning Sciences and Digital Technologies has a three-year duration (2023/24-2025/2026) starting from November 1st, 2023.

Course description and aims

The PhD is structured into three curricula:

1) e-Teaching & e-Learning, ETEL;
2) Technology Enhanced Learning & Advanced Technologies for Education, TEL-ATE;
3) New Literacies & Digital Citizenship, NELIT.

1) E-TEACHING AND E-LEARNING (ETEL)

Within the framework of the most advanced studies at international level and through the typical methods of digital educational research, this line of research addresses the following topics:

- teaching brain, learning brain: neuroscientific issues related to the teaching work of the teacher/trainer (positive and negative stress, caloric consumption and efficiency in the classroom, implications of caregiving) and to student learning (motivation, attention, memory);

- LMS, e-tutoring, online moderation methods and techniques: characteristics of digital learning environments and social networking systems for formal and informal learning with a focus on e-tutoring and e-moderation strategies aimed at managing the interactions of online educational groups and communities;

- learning by design: macro and microlearning, teaching and learning types, blended and hybrid learning, phygital solutions: educational design, principles and models of Instructional Design and Learning Design, techniques for structuring effective teaching materials and for planning teaching and learning activities according to mixed models in alternating real and digital contexts;

- Assessment and certification of learning: formative and summative assessment, peer evaluation, e-feedback tools, e-assessment, self-assessment and peer assessment, certification of competences, open and digital badges in training courses organised with hybrid, blended and online didactics;

- Faculty Development and the Digital School: e-management, didactic innovation, skills development: professional development and training of teachers in the academic and school spheres on the topics of didactic innovation and the integration of technologies in education processes in schools, universities and companies for the improvement of teaching and learning practices.

2) TECHNOLOGY ENHANCED LEARNING & ADVANCED TECHNOLOGIES FOR EDUCATION (TEL-ATE)

The research line addresses the following topics

- Education Technology: support for learning, inclusion and assistive technologies, technologies and disciplinary didactics: technologies and strategies for classroom management and communicative processes customised for targets also in multilingual and intercultural contexts; technologies and methods to support learning and the realisation of accessible and inclusive didactic paths; theoretical-methodological and strategic-applicative aspects of the use of technologies in disciplinary didactics.

- Media & Video Education: video analysis, audiovisuals in didactics, educational products: implementation of effective multimedia tools and contents in didactics, also for the acquisition of digital skills; video and visual data in research processes for the analysis of social and educational interactions;

- Gaming: exergames, e-sports, gamification, playful learning, serious games: gaming environments/tools for the achievement of specific educational objectives with greater user involvement and in the fields of rehabilitation and physical wellbeing; design, cognitive and relational dimensions of game-based learning;

- Knowledge Architecture: knowledge management, knowledge economy, information retrieval, web ontologies, Open Educational Resources: knowledge management and information retrieval in digital contexts; categorisation of knowledge through web ontologies also in the definition of

constructs in the scientific community; sharing of data and knowledge, technological solutions, paths, resources and teaching practices on the basis of Open Education;

- Data science: machine learning, deep learning, reinforcement learning, analysis of social networks in e-Learning: educational applications of algorithms and AI systems capable of "learning" from data and sensors and defining models with a focus on big data and ethical and social implications.

<u>3) NEW LITERACIES & DIGITAL CITIZENSHIP (NELIT)</u>

The research line addresses the following topics:

- Visual Literacy, Digital Literacy, Data Literacy, Information Literacy, AI Literacy: intelligent systems, artificial communication, generative systems: concept of literacy from an educational, psychological, semiotic and socio-cultural perspective with a focus on visual languages, digital media and technologies, data, 'information, AI technologies;

- social and educational robotics, bots and personal digital assistants, tutoring and feedback, personalisation and scoring, machine-assisted creative processes, computer vision: ethical, psychological and educational implications of robotics; development of tutoring and assessment systems through hardware, software and artificial intelligence; portable technologies and their potential/risks in educational terms and in terms of well-being and pervasiveness;

- big data and analytics: generation, management and use of big data in the educational domain in the broader context of digital citizenship and e-democracy;

- data protection systems, security, network regulation: protection of personal data, right to information and oblivion especially for the education domain and school-age individuals;

- information law and media and information ethics: relevance of privacy by design and privacy by default in the preparation of educational digital content, also in function of the different ages and characteristics of the recipients; new technologies and ethics of access, presence and management of personal data

- digital discrimination and virtual communities: differences in access to and use of digital tools and the Internet due to devices, digital skills, principles of digital citizenship and repercussions in educational, social and professional contexts; mechanisms, environments, relationships and practices in community formation and management.

Brief description of the research areas

The PhD course in "Learning Sciences and Digital Technologies" (https://phd-lesdit.eu/) is designed to investigate the relationships between technologies and social and material contexts in educational processes. PhD students will study the pedagogical and neuroscientific foundations of learning, the main pedagogical-educational theories and digital design with the aim of developing new technologies, analysing large-scale educational data, designing educational and docimological methods.

Particular attention is given to the topic of training of individuals with disabilities and special educational needs in formal, informal or non-formal contexts and to educational and rehabilitation strategies in fragile or disadvantaged social groups. Issues related to legal profiles concerning data management and privacy protection and to the gender perspective, equity and well-being in relations between individuals and within organisations will be addressed. Of relevance is the topic of emerging and innovative technologies and their impact on teaching and learning processes, both from the point of view of application and the development of original solutions and tools.

Those enrolled in the PhD course in 'Learning Sciences and Digital Technologies' will be able to explore the use of technologies for solving complex problems by conducting theoretical and empirical studies. They will develop specialist knowledge through participation in relevant research projects involving both the academic and industrial/professional communities. In fact, participation in research projects conducted within the laboratories and research centres belonging to the proposing universities and institutes, the laboratories of affiliated institutions (industry, schools, hospitals, clinical centres-IRCCS) and public and/or private research institutes will be promoted. This will enable them to address, through research, issues that have important repercussions on the wellbeing of individuals and on active participation in a variety of contexts; it will also enable them to develop skills in the construction of research projects and in the use of the results obtained for the implementation of interventions and good practices capable of transforming training actions also from an inclusive perspective.

Students will thus be able to apply the outcomes of theoretical or application/technical work in technology-mediated innovation aimed at promoting educational experiences that enhance the quality of life of children, adolescents, adults and the elderly in differentiated settings. At the same time, doctoral students will have the opportunity to identify solutions for employing the potential of digital technologies in the creation and management of bonds, relationships and forms of participatory sociality in learning, social and organisational contexts.

The course has been constructed with the awareness that design, social and contextual variables of learning, educational sciences, neuroscience, cognitive and developmental psychology and special pedagogy are fundamental elements in rethinking education in real and virtual environments and in special educational contexts.

Each student will work on an application project in the technological area on topics such as: programming, digital animation, simulation, robotics, interaction design, serious games, tangible interfaces, application of AI modules for learning environments, development of applications to foster learning processes in clinical and atypical populations, augmented reality, digital and data literacy.

The PhD is divided into 3 curricula: e-Teaching & e-Learning, ETEL; Technology Enhanced Learning & Advanced Technologies for Education, TEL-ATE; New Literacies & Digital Citizenship, NELIT. Without losing the interdisciplinary character of the course, they focus on different areas of

study, such as, in brief: (1) teaching procedures, (2) technological innovations, (3) ethics, citizenship and digital skills.

The training plan will be built in the constant dialogue between theory and practice to promote students' creativity in the constant confrontation with real problems. Cross-curriculum training activities will cover research methodology, scientific communication, entrepreneurship and competitive bidding. Workshop experiences will bring together disciplinary knowledge on specific problems.

The training will be delivered in a blended mode (online max. 40%); the collaboration of lecturers from international universities and research centres will be encouraged in the delivery of teaching activities, which will be delivered in English up to a maximum of 70% of the entire curriculum.

Brief description of the research areas referred to in the PNRR (M.D. 117 and M.D. 118 of 2023):

The PhD in "Learning Sciences and Digital Technologies" aims to train the next generation of researchers and experts in the field of design of new learning environments and new teaching and learning methodologies.

The doctoral course will focus on educational innovation in formal, informal and non-formal contexts: from school, to industry, to leisure, with a specific focus on lifelong learning. The PhD aims to represent a national and international reference point in the field of application, through a network of laboratories located in the main Italian universities. Characteristic of the doctorate lies in its multi and transdisciplinary connotation with contaminations from the hard sciences and humanities. The board of teachers will be composed of members from the fields of psychology, pedagogy, law, neuroscience, computer science and engineering.

The PhD course proposal is consistent with the specific PNRR objectives of the call in question: the reference is to the strengthening of research and dissemination of innovative models for basic and applied research conducted in synergy between universities and businesses; in fact, by decree, the new innovative doctorates are intended to increase the effectiveness of the actions of public administrations, which are below the average of the main European partners, affecting the share of staff with high specialisations in STEM subjects (Science, Technology, Engineering and Mathematics), which is significantly lower than humanities and law subjects.

The doctorate in "Learning Sciences and Digital Technologies" is consistent with "M4C1.4 REFORM AND STRENGTHENING OF DOCTORATES", with particular regard to Investment 4.1: "Extension of the number of doctorates and innovative doctorates for public administration and cultural heritage" and Investment 3.3: "Introduction of innovative doctorates that respond to the innovation needs of companies and promote the recruitment of researchers from companies".

Consistency is particularly expressed in the promotion of new professional figures based on high-profile skills required in the labour market. The proposal of the doctoral route is to promote

innovative and frontier figures, with the ability to actively collaborate with specialists from different fields, thanks to high-profile knowledge of different materials. The background and focus remain learning enhancement, with specialists able to design, implement and evaluate innovative learning and teaching environments, using new technologies in a coherent and conscious process starting from well-situated methodologies. Compared to the NRP measure referred to in the paragraph, the proposal clearly captures one of the 'Key Enabling Technologies' and in particular Artificial Intelligence (AI). This KET is part of the curriculum 'Educational AI: intelligent systems, social and educational robotics, machine learning, bots and personal digital assistants' that specifically refers to the application of AI in educational settings and the well-focused use of new technologies in education and teaching. In addition to the specific focus of the call, the PhD may have a transversal impact on PNRR Mission 4 'Education and Research'.

The doctorate will train new employees capable of designing, managing, updating and evaluating the deficiencies of learning environments.

In addition to the specific investment of the call, the doctorate can have a transversal impact on PNRR Mission 4 'Education and Research'.

The doctorate will train new staff members able to design, manage, update and evaluate the deficiencies of learning environments, particularly with regard to the application of digital technologies, bridging existing gaps and applying sustainable solutions. Specifically, the figures have a direct impact on M4-C1.2 "Improving teacher recruitment and training processes" as it activates professionals able to promote the development of digital competences of school staff to foster an accessible, inclusive and intelligent approach to digital education, through the design of learning environments, starting from the DigiCompEdu framework. Similarly, the impact is also evident in M4-C1.3 'Expanding skills and enhancing infrastructures' in that it proposes professionals who are able to do advanced training in teacher education in universities with a view to improving digital and STEM skills as proposed by the investment "New skills and new languages".

The PhDs will support School 4.0 through the transformation of school spaces in the direction of connected learning environments and the management and design of technologically advanced laboratories. Finally, the focus of the course will be on highlighting, addressing and countering the dimensions of gender difference and stigmatisation in the organisation of study, teaching, work and service provision.

Places available, grants and locations

The total number of places available is 45, distributed as follows:

➤ 3 positions with PNRR not renounceable scholarship ex MD 117/2023, Investment 3.3 (scholarships co-funded by Companies);

➤ 4 positions with not renounceable PNRR scholarship ex MD 118/2023, Investment 3.4 (Digital and Environmental Transition);

> ➤ 11 positions with not renounceable PNRR scholarship ex MD 118/2023, Investment 4.1 (Generic);
> ➤ 18 positions with not renounceable PNRR scholarship ex MD 118/2023, Investment 4.1 (Public Administration);
> ➤ 5 positions with a scholarship financed with funds from the proposing University/Entity;
> ➤ 4 positions without scholarship.

The PhD in "Learning Sciences and Digital Technologies" awards **41 positions with scholarship**, which are distributed as follows across the three curricula and locations involved:

	Number of scholarships funded	CURRICULA			of which MD 117	of which DM 118
		e-Teaching & e-Learning, ETEL	Technology Enhanced Learning & Advanced Technologies for Education, TEL-ATE	New Literacies & Digital Citizenship, NELIT		
University of MODENA and REGGIO EMILIA	5	X	X	X		3
LUMSA - Libera Università "Maria Santissima Assunta"	1	X			1	
Free University of BOZEN-BOLZANO	1	X				1
LUISS - Guido Carli Free International University for Social Studies	3			X		3
University of EASTERN PIEDMONT "Amedeo Avogadro" - Vercelli	1		X			1
"Aldo Moro" University of BARI	1		X			
University of BERGAMO	1	X	X			1
Alma Mater Studiorum - University of BOLOGNA	1	X		X		1
University of CAMERINO	1		X		1	
University of FERRARA	1		X			1
University of FLORENCE	2	X				2
University of FOGGIA	1		X			1
University of GENOA	1	X				1
University of MILAN	1	X	X			1
"Federico II" University of NAPLES	1			X		1

	Number of scholarships funded	CURRICULA			of which MD 117	of which DM 118
		e-Teaching & e-Learning, ETEL	Technology Enhanced Learning & Advanced Technologies for Education, TEL-ATE	New Literacies & Digital Citizenship, NELIT		
University of PADUA	1	X		X		1
University of PALERMO	1	X	X			1
University of PARMA	2		X	X		2
University of PERUGIA	1		X	X		1
"La Sapienza" University of ROME	1	X				1
Tor Vergata University of ROME	1	X				1
University of SALERNO	1		X			1
University of TURIN	2		X			2
University of TRENTO	1			X		1
University of UDINE	1	X				1
University of VERONA	1			X		1
"Suor Orsola Benincasa" University of NAPLES	1	X				1
University of PISA	1		X			1
University for Foreigners of PERUGIA	1		X		1	
MARCHE Polytechnic University	1		X			1
Institute for Educational Technology (CNR-ITD) of PALERMO	1		X			
INDIRE - National Institute for Documentation, Innovation and Educational Research of FLORENCE	1	X				
Aggregate	*41*				*3*	*33*

(Table 1)

The types of scholarships available are as follows:

Type 1 - Scholarships ex M.D. 118/2023

- Investment 3.4: Digital and environmental transitions

- Investment 4.1: PNRR Research (generic)
- Investment 4.1: Public Administration

The scholarships referred to in this paragraph provide for:

a) periods of study and research in companies, public administrations or research centres, including museums, Institutes and Training Institutions of the Ministry of Culture, archives, libraries from a minimum of six (6) months to a maximum of twelve (12) months, even if not continuous and even at more than one Institution, within the three-year period;

b) periods of study and research abroad, even if not continuous and even at more than one institution, from a minimum of six (6) months to a maximum of twelve (12) months over the three-year period, extendable to eighteen (18) months in the case of co-supervised theses; with the exception of doctoral scholarships pursuant to Ministerial Decree 118/23 relating to doctoral programmes relating to PNRR (generic) PhD programmes, for which only the period of study and research abroad is compulsory, from a minimum of six (6) to a maximum of twelve (12) months over the three-year period, extendable to eighteen (18) months in the case of co-supervised theses. The periods of study and research referred to in (a) and (b), where both are envisaged, are distinct and must be carried out at separate entities.

c) a tied research topic consistent with the specific project within the framework of the M.D. 118/23;

d) the drafting, through the appropriate online platform (http://dottorati.mur.gov.it) of a six-monthly report indicating the time commitment (broken down into months in the company/institution if envisaged, on site, abroad) and a summary of the main activities carried out, validated by the PhD course coordinator.

Type 2 - Scholarships ex M.D. 117/2023 Investment 3.3: PNRR

a) The scholarships referred to in this paragraph provide for: a) periods of study and research in the enterprise from a minimum of six (6) months to a maximum of eighteen (18) months, also non-continuous and also at more than one Entity, over the three-year period

b) periods of study and research abroad, also non-continuous and also at more than one Entity, from a minimum of six (6) months to a maximum of twelve (12) months over the three-year period, extendable to eighteen (18) in the case of co-supervised theses. The periods of study and research referred to in points a) and b) are distinct and must be carried out at separate entities;

c) a tied research theme consistent with the specific project within the framework of M.D. 117/23; d) the drafting, through the appropriate online platform (http://dottorati.mur.gov.it) of a six-monthly report indicating the time commitment (divided into months at the company, on site, abroad) and a summary of the main activities carried out, validated by the PhD course coordinator.

Type 3 - Scholarships fully funded by a University or Research Institution affiliated to the Doctorate of National Interest

The Italian National PhD in "Learning Sciences and Digital Technologies" also provides for 4 positions without a scholarship.

The PhD student, regardless of the type of position, must continuously carry out - under the supervision of a tutor assigned by the Board of teachers - research and training activities at the assigned location, under penalty of revocation of the scholarship.

In detail, the list of places available, with and without scholarship, with is as follows:

VENUE: Ancona - Polytechnic University of Marche

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Theme/area of research: Use of deep learning for reconstructing students' learning mechanisms and for personalised content delivery

Reference Curriculum: TEL-ATE

VENUE: Bari - 'Aldo Moro' University

1 position with scholarship on University funds

Research topic/area

Serious games and gamification in the context of formative assessment and STEM education

Reference Curriculum: TEL-ATE

VENUE: Bergamo - University of Bergamo

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research)

Topic/area of research

Research on creative learning and innovative teaching with a focus on functional mechanisms of motivation, learning and memory; multidisciplinary research on human-computer interactions (HCI) and examination of HCI issues through neuro-physiological tools and devices (e.g., EEG, and eye-trackers)

Curriculum reference: ETEL, TEL-ATE

VENUE: Bologna - Alma Mater University of Bologna

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Research topics/areas

- New Literacies

- AI in Education

- Heritage Education

- Innovation for Higher Education

Reference Curriculum: ETEL, NELIT

VENUE: Bozen/Bolzano - Free University of Bozen/Bolzano

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Research topics/areas

- Light and friendly digitisation in primary schools

- CBT and large-scale assessment in primary schools

- Inclusion in STEM classroom discourse

Reference Curriculum: ETEL

VENUE: Camerino - University of Camerino

1 position with scholarship on PNRR MD117//2023 funds (M4C1, Inv. 3.3)

Research topics/areas

Digital innovation in didactics, online learning environments enhanced by artificial intelligence and machine learning systems.

Gamification for experimental science in interactive 3D environments and escape rooms.

Curriculum reference: TEL-ATE

Partner: Amicucci Formazione s.r.l. - Civitanova Marche (Ancona)

VENUE: Ferrara - University of Ferrara

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

Definition of evaluation indexes and design models for learning-teaching processes with integration of virtual reality, immersive reality and mixed reality

Reference Curriculum: TEL-ATE

VENUE: Florence - University of Florence

2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research)

Research topics/areas

Digital competences for inclusive didactics. From the theoretical framework of reference to the design of a whole school oriented curriculum.

The school psychologist as an active promoter of mental health and school well-being, with particular reference to the promotion of new literacies skills to support the teaching and student body in facing the challenges of an increasingly digital society

Reference Curriculum: ETEL

VENUE: Florence - INDIRE

1 position on Institution funds

Theme/area of research

Artificial Intelligence for teachers' professional development and educational and training innovation

Reference Curriculum: ETEL

VENUE: Foggia - University of Foggia

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 3.4, Digital and environmental transition)

Topic/area of research

Artificial Intelligence and Learning Analytics for Higher Education/Industry/Health

Reference Curriculum: TEL-ATE

VENUE: Genoa - University of Genoa

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

Formative assessment at higher education level through Podcast.

We will analyse tools and strategies to implement the interaction between summative and formative assessment. The research will be carried out in several bachelor and master degrees and in different subjects: engineering, economics, chemistry, etc.

Reference Curriculum: ETEL

VENUE: Milan - University of Milan

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Research topics/areas

- Faculty Development,

- Digital School,

- Educational Innovation,

- Learning by design,

- Blended and hybrid learning,

- Phygital solutions for teaching,

- LMS and learning environments

- Education Technology, Machine learning, Deep learning, Serious games, Immersive learning.

Reference Curriculum: ETEL, TEL-ATE

VENUE: Reggio Emilia - University of Modena and Reggio Emilia

8 positions:

- 2 positions with scholarship funded on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research)

- 2 positions with scholarship financed on University funds

- 3 positions without scholarship

- 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR / Public Administration on a specific topic)

Research topics/areas

- Learning Analytics and Computational Approaches for Big Data Analysis in Education

- Teaching and Learning approaches in Digital Education

- Professional Education in Medicine

- Experimental Educational and Social Robotics

- Training in minimally invasive and robotic surgery

- Digital Technologies for inclusion and DIgital Technologies in Early Childhood Education

- Technological tools to assess social networks

- Digital tools to support learning disabilities

- Digital Citizenship and New Literacies

- Data protection, privacy, ethics, law in Digital Education

Specific topic for the position PNRR / Public Administration

Digital transition and learning processes: transformations in the world of education and the role of public policies (Partner: Emilia-Romagna Region)

Reference Curriculum: ETEL, TEL-ATE, NELIT

VENUE: Naples – "Federico II" University

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

Interactions, dynamics and social opportunities in the interdependence between virtual environments and physical contexts

Curriculum reference: NELIT

VENUE: Naples – "Suor Orsola Benincasa" University

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

Interactions, dynamics and social opportunities in the interdependence between virtual environments and physical contexts.

Digitisation of the school and design of phygital learning environments to enhance the acquisition of basic skills, also with specific reference to students with Special Educational Needs.

Faculty Development and potential of digital technologies to improve the quality of university education and enhance connections with the world of work.

Reference Curriculum: ETEL

VENUE: Padua - University of Padua

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

- Use and abuse of technologies in the age of development; well-being and clinical use of technologies and social-networks; development of e-health apps in adolescence

- Artificial intelligence in education and professional agentivity of educators (L19)

- Datafication, platforms, AI and universities: faculty development / curriculum development perspectives in the areas of education

- Analytics of learning and assessment in universities: perspectives of faculty development

- Motivation and emotions in learning

- What is Information Technology, what it brings, what are its consequences on societies: the phenomenon of digital enveloping.

Reference Curriculum: ETEL, NELIT

VENUE: Palermo - University of Palermo

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Public Administration)

Topic/area of research

Artificial Intelligence in Education

Reference Curriculum: TEL-ATE, ETEL

VENUE: Palermo - CNR, Institute for Educational Technology

1 position on Institution funds

Topic/area of research

Generative AI and Education: Analysis and comparison of generative AI mechanisms with human creativity processes. Impact of generative AI systems in learning and teaching processes. Definition of guidelines for the use of such systems in educational contexts.

Reference Curriculum: TEL-ATE

VENUE: Parma - University of Parma

2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Research)

Topic/area of research

Predictive Analysis and Natural Language Processing for E-Learning;

Inclusiveness and accessibility in e-learning from a linguistic-educational perspective

Reference Curriculum: TEL-ATE, NELIT

VENUE: Perugia - University of Perugia

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Digital and Environmental Transition

Topic/area of research

- AI Technologies for Education

- Learning Analytics in Education

- Inclusive Technologies for Education

- Data protection, privacy, ethics, law in Digital Technologies for Education

Reference Curriculum: TEL-ATE, NELIT

VENUE: Perugia - University for Foreigners of Perugia

1 position with scholarship on PNRR MD117/2023 funds (M4C1, Inv. 3.3)

Topic/area of research

Artificial Intelligence systems for industrial training

Reference Curriculum: TEL-ATE

Partner: Angelantoni Test Technologies s.r.l. - Massa Martana (Perugia)

VENUE: Alessandria – "Amedeo Avogadro" University of Eastern Piedmont

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Digital and Environmental Transition)

Topic/area of research

- The use of digital technologies for the teaching-learning of mathematics at university level and in teacher training.

- Exploration and support of teaching-learning processes in universities through data collection and analysis based on digital platforms.

Reference Curriculum: TEL-ATE

LOCATION: Pisa - University of Pisa

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

- Mathematics teaching-learning with digital technologies.

- Design of curricular activities and resources for the teaching-learning of mathematics with digital technologies.

- Models and tools for teacher training on the use of digital technologies for the teaching-learning of mathematics.

Reference Curriculum: TEL-ATE

VENUE: Rome - Libera Università Maria Santissima dell'Assunta (LUMSA)

1 position with scholarship on PNRR MD117/2023 funds (Investment 3.3)

Topic/area of research

Training for new professions: Artificial Intelligence and Emotioanl Engagement for the Human Economy

Reference Curriculum: ETEL

Partner: ITS Foundation for New Life Technologies - Rome

LOCATION: ROME – "Guido Carli" Free International University for Social Studies (LUISS)

3 positions:

- 1 PNRR scholarship "Research Topics PNRR" M4C1 - Inv. 4.1;

- 2 PNRR scholarship "Public Administration" M4C1 - Inv. 4.1.

<u>Theme/area of research</u>

Theme 1 (for the PNRR research topic scholarship): Training individuals in the age of artificial intelligence. How should training systems evolve?

Theme 2 (for the 2 scholarships on Public Administration thematic): Education with poverty and equity in mind. A focus on the educational needs of students in conditions of socio-economic fragility:

<u>Reference Curriculum</u>: NELIT

VENUE: Rome – "La Sapienza" University of Rome

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

<u>Topic/area of research</u>

- Technologies for educational innovation, virtual reality and learning;

- Technologies for inclusion and collaborative learning

<u>Reference Curriculum</u>: ETEL

VENUE: Rome – "Tor Vergata" University

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

<u>Topic/area of research</u>

LMS and virtual environment for heritage education: designing and validating e-learning paths for the promotion of individual and social well-being through the enjoyment of heritage

<u>Reference Curriculum</u>: ETEL

VENUE: Salerno - University of Salerno

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Research)

<u>Topic/area of research</u>

Mathematics teaching-learning in digital environments at university level and in the school-university transition

<u>Reference Curriculum</u>: TEL-ATE

VENUE: Turin - University of Turin

2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

<u>Research topics/areas</u>

- Intercomprehension and VR: immersive serious games to develop plurilingual competences

- How Artificial Intelligence may change the learning experience: the case of classical languages

<u>Reference Curriculum</u>: TEL-ATE

VENUE: Trento - University of Trento

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

Topic/area of research

Innovative teaching methodologies for teaching computational literacy and computational thinking in formal and informal contexts, in interdisciplinary mode (STEAM).

Reference Curriculum: NELIT

VENUE: Udine - University of Udine

2 positions:

- 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

- 1 position without scholarship

Topic/area of research

Learning processes and digital innovation in multilingual, inclusive and intercultural educational contexts

Curriculum reference: ETEL

VENUE: Verona - University of Verona

1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research/Generics)

Topic/area of research

Educational innovation to promote a new literacy of active citizenship in the post-digital age through a dialogue between LifeComp and DigComp

Reference Curriculum: NELIT

Conditions

The activation of the course and the enrolments are subject to the approval by the Ministry of University and Research upon positive opinion expressed by the National Agency for the Evaluation of the University System and Research (ANVUR), as indicated in the Ministerial Decree no. 301 of March 22nd, 2022, *"Guidelines for the accreditation of PhD programmes" in accordance with art. 4, paragraph 3, of the Regulation as per Ministerial Decree no. 226 of December 14th, 2021"*.

PhD scholarships awarded by the funds of M.D. no. 117/2023 and M.D. no. 118/2023 are subject to the verification of eligibility and evaluation of the Ministry of University and Research.

Additional scholarships and positions may become available, even in the event that funding is provided by public or private bodies subsequent to the publication of this call for applications, but not after the publication date of the final rankings.

Those candidates who are awarded scholarships will be required to carry out the research projects assigned to them by the Teachers' Board, with the exception of any changes as set by the same Board.

The PhD candidate will carry out his or her research activities at the affiliated institution to which the scholarship awarded on the basis of the competition results relates.

The recipients of PhD scholarships awarded by the founding of M.D. no. 117/2023 and M.D. no. 118/2023, which provide the development of a specific research theme, are bound to conduct this activity.

Applicants who have been awarded a scholarship funded under the PNRR projects pursuant to Ministerial Decree 117/2023 or pursuant to Ministerial Decree 118/2023 may not renounce their scholarship and, at the same time, continue their doctoral studies. Therefore, the candidate may not continue his/her doctoral programme if he/she finds him/herself in a situation of incompatibility entailing the suspension and/or renunciation of the doctoral grant, unless otherwise provided for by ministerial provisions.

The research activities financed by MD 117/2023 provide for study and research periods abroad of a minimum of six to a maximum of twelve, or eighteen months in the case of joint PhD, and a period in enterprises of a minimum of six to a maximum of eighteen months.

The research activities financed by MD 118/2023 "Digital and Environmental Transitions" provide for study and research periods abroad of a minimum of six to a maximum of twelve, or eighteen months in the case of joint PhD, and a period in enterprises or research centres of a minimum of six to a maximum of twelve months.

The research activities financed by MD 118/2023 "PNRR" provide for study and research periods abroad of a minimum of six to a maximum of twelve, or eighteen months in the case of joint PhD.

The research activities financed by MD 118/2023 "Public Administration" provide for study and research periods abroad of a minimum of six to a maximum of twelve, or eighteen months in the case of joint PhD, and a period in Public Administrations, enterprises or research centres of a minimum of six to a maximum of twelve months.

Notifications

This call is equivalent to notification to all intents and purposes. Any changes, updates or additions to the content of this call will be announced, exclusively, on the following website: https://www.unimore.it/bandi/StuLau-Sdott.html and on the online University notice board (https://wss.unimore.it/public/albo/). Other information published on www.dottoratinazionali.it or http://phd-lesdit.eu/ are for general information only and do not constitute notice for any legal purposes, whether or not they refer to this website of the administrative office.

ARTICLE 2 - Admission requirements
Age, citizenship and titles

The competition is open to any candidate, regardless of age or nationality, who as of October 31st, 2023, holds an Italian degree obtained prior to M.D. 509/99 or an Italian second level degree

(laurea specialistica, under D.M. 509/99 or laurea magistrale, under M.D. 270/04), or an equivalent academic qualification from a foreign Universities (provided it is comparable in duration and level to the abovementioned Italian titles), that has to be validated by the Selection Committee, following the legislation in force both in Italy and in the Country where the qualification was issued and within the international treaties or agreements on the recognition of international qualifications.

Foreign titles

Candidates who have a foreign academic qualification must submit any relevant documents useful for verifying equivalency: their degree certificate with a list of exams taken, along with an Italian or English translation, an authentication, and:

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by the CINEA, as a ENIC_NARIC center

- for degrees obtained in countries outside the European Union: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or diplomatic representative for the country, or certificate of comparability and verification issued by the CINEA, as an ENIC_NARIC center.

If not yet available, candidates must fill in the description of the degree with a list of exams passed, by using Annex D2, attaching the documents to the application for admission using the online procedure described in Art. 3.

Titles in the process of achievement

Candidates who complete their degree after the deadline for this call must submit a Degree certificate or the form in Annex D2 (in case of degree awarded by a foreign institution) or a self-certification to prove that the degree has been conferred (using the form in Annex D1, in case of degree awarded by an Italian University):

- in case of degree obtained before enrolment: by enclosing the form with the enrolment application form,

- in case of degree not yet obtained when enrolling in the PhD Program: by submitting the form to the PhD Office, by and no later than, October 31st, 2023, via e-mail to the address segr.dottorati@unimore.it .

For the purposes of admission to the PhD course, in any case, Italian and foreigners citizens holding a foreign academic qualification must submit to the PhD Office, by and no later than, December 31st, 2023, via e-mail to the address segr.dottorati@unimore.it, their degree certificate with a list of exams taken, along with an Italian or English translation, an authentication, and

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by the CINEA, as an ENIC_NARIC center;

- for degrees obtained in countries outside the European Union: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or diplomatic

representative for the country, or certificate of comparability and verification issued by the CINEA, as an ENIC_NARIC center.

The administrative office shall provide for the exclusion of any candidate who has not submitted the required documents by the deadline cited above without a justified reason.

Verification

The competent offices will be checked the information sent by candidates in order to verify correctness.

All candidates are admitted to the selection conditional upon verification of the aforementioned requirements.

The University Administration reserves the right to exclude, at any time, candidates who have not the requirements for admission.

ARTICLE 3 – Admission application

Application deadline

The application for admission to the selection procedure and any required attachments must be submitted following the online procedure by the final deadline of **September 7th, 2023, at 1:00 p.m.** (CET), when the competition closes. Candidates failing to comply will not be considered.

Choice of Assignment Venue

ATTENTION: Candidates must indicate, in their research project (Table 2 of Attachment no. 1), up to **5** venue preferences, ordered by priority, identified from among the Universities and partner institutions listed above (Art. 1), specifying the type of position with scholarship or without scholarship where provided by the venue. ***The first venue preference expressed by the candidate is binding (and not revocable) for enrolment purposes***, the other (optional) preferences will be considerate for the purposes of the sliding of the general ranking list.

Assignments will be made on the basis of the highest overall score achieved; the successful candidates with the best ranking in the final merit list (Art. 6) will be given preference in their choice among the places offered in the competition.

The Commission of selection will verify the possession of basic linguistic and disciplinary knowledge as well as competence in the research topics envisaged by the theme associated with the PhD scholarship(s) indicated as a priority by the candidate.

Admission application

The admission applications and any required attachments (academic qualifications, documents and publications considered useful for competition purposes) must be submitted to this Administration before the final deadline for the competition, using the following method only:

- by Internet, on the University website https://www.esse3.unimore.it/Home.do (new users must register by selecting "Menu", top right, and then "Registration"; those who have already

registered should select "Menu", and then "Login" with the credentials received following registration or with their SPID (Public Digital Identity System) credentials and proceed with the following steps: insert username and password, and then, select "Menu" – "Student Area/Registered Area" - "Admission" – "Admission Exams" – "Ph. D.").

All academic qualifications, documents and publications considered useful for the application procedure must be attached in .pdf or .rtf file form with a maximum size of 20 MB. Attachments larger than 20 MB must be divided into smaller files.

Contribution for application

The application require the payment of € 25.00, non-refundable under any circumstances, to cover administrative costs.

Payment must be made using the following method:

Access Esse3, by connecting to the University website at https://www.esse3.unimore.it/Home.do with your credentials, and under the menu item "Taxes" proceed with the payment through the PAGO PA circuit that allows to pay online (by choosing your Payment Service Provider – PSP) or alternatively to print the payment notice to be delivered personally to Banks and ATMS, SISAL, Lottomatica and ITB stores. From your personal Esse3 page, under the menu item "Taxes", you can print the payment receipt. With the PagoPa circuit, the payment acquisition times in Esse3 are normally comparable to those of the credit card.

The payment of € 25.00 must be made by **September 7th, 2023**.

Candidates must keep the receipt for the payment of € 25.00; only and exclusively those who will be enrolling in the first year of the PhD Course (within the deadline and according to the procedures set out in art. 7) must include it as an attachment during the enrolment procedure

Formal closure and acceptance of the application

The application is considered to have been correctly submitted only when the data ("Save data") is saved after the "explicit confirmation of the validity of the application" given by the applicant at the end of the above-mentioned computer procedure.

Before the data saving ("Save the data") that follows the "Explicit confirmation of the validity of the application", and prior to the deadline for the competition, candidates may add, change or remove attached academic qualifications, documents and publications using the abovementioned website. The procedure is as follows: select "Menu", "Login", insert username, password, and then, in the Student area, select "Admission").

After the data saving ("Save the data") that follows the "Explicit confirmation of the validity of the application", in the case of errors or incomplete insertion of attachments using the online procedure, candidates can send an email to the PhD Office (segr.dottorati@unimore.it) within the peremptory deadline of the call deadline (September 7h, 2023, 1.00 pm CET) for requesting the reopening of the online procedure by attaching a scanned copy of an identity document. The

candidate must make the corrections / additions he deems appropriate within the same deadline (September 7th, 2023, 1.00 pm CET). In this case, please note that the candidate will have to save the "Save data" data again following the explicit confirmation of the application.

At the end of the admission procedure a reminder summary of the application form is generated for each candidate. Candidates must keep this document, which must not be passed on to anyone.

Submission of the application and its attachments by e-mail or fax is not permitted.

The University Administration reserves the right to exclude, at any time, candidates who have not paid the fee of € 25.00 referred to in this Article.

The administration is not liable in the event that the candidate makes mistakes in the choice of a selection.

Any communications to candidates concerning this call are made by e-mail. For this purpose, it will be used the e-mail address indicated by the candidate during the registration procedure referred in Art. 3. Candidates, whose email addresses are already present in the database, are asked to update data if necessary.

In the event of any technical and/or operating difficulties, please write to the following e-mail address: webhelp@unimore.it.

Admission applications, submitted in accordance with the indications given above, will be considered valid only if they reach this Administration before the final deadline.

Therefore, any applications arriving after the deadline, or not submitted in accordance with above requirements, will not be considered.

Required declarations during the application

As part of the procedural information in making the application, the candidate takes personal responsibility for declarations in relation to:

a) name and surname;
b) place and date of birth;
c) residential address, telephone/cell number, elected domicile for the purposes of this competition, and e-mail address;
d) tax identification number ("codice fiscale"- if candidates have one. Candidates who do not have a tax identification number need only to confirm the one that will automatically be assigned to them by the system);
e) citizenship;
f) possession of a secondary school qualification;
g) possession of an Italian old ordinance degree or second level degree (laurea specialistica or laurea magistrale), or an equivalent academic qualification issued by a foreign University;
h) research project (using *Annex 1*);
i) the preferences concerning the chosen locations (using *Annex 1*);

j)   curriculum vitae (using *Annex C*);

k)   academic qualifications and any other documents;

l)   publications;

m)   in the case of candidates with disabilities, in accordance with Law no. 104 of February 5th, 1992 or with diagnosis of SLD, in accordance with Law no.170 of October 8th, 2010, any accommodations required for taking the examinations. The same request for assistive devices to take the examinations must be sent by mail to: disabilita@unimore.it and segr.dottorati@unimore.it. (subsequently the candidate will be contacted by the *Welcome Office for Students with Disability* to agree on the methods of transmission of the relative medical certification).

Undertakings signed with the application

By submitting the application, the candidate agrees:

1)   to attend the PhD program on a full-time basis, in accordance with the conditions established by the Teaching Committee;

2)   to reside permanently at the chosen venue for the entire duration of the Course (except for study and research periods previously authorised by the Teachers' Board);

3) to notify the University immediately of any changes in residence or address;

4) in the case of Italian nationals or foreign citizens holding a foreign degree, to send the degree certificate, with a list of exams taken, along with an Italian or English translation, an authentication and "declaration of validity" issued by a competent Italian diplomatic-consular representative for the country, or Diploma supplement or certificate of comparability and verification issued by the Cimea as a ENIC_NARIC center, in accordance with the regulations governing the admission of foreign students to Italian university degree courses, by the final deadline of December 31st, 2023;

5) in the case of candidates who complete their degree after the deadline for this call, but before October 31st, 2023, to send their degree certificate or facsimile attachment D2 (if awarded by a foreign university) or a self-certification to prove that the degree has been conferred (if awarded by an Italian university, please use form in Annex D1), by the final deadline and in accordance with the conditions indicated in art. 2 of this competition. Candidates failing to comply will not be considered.

The administration may at any time, by its own reasoned decision, order exclusion from the selection.

Responsibility

Admission applications and or related attachments will not be considered for any of the following reasons: submission or receipt of applications after the deadline or non-compliance with the procedural requirements of the competition.

The Administration cannot be held responsible for any loss of correspondence due to the following situations: incorrect contact details, failure or delay in notification of a change in address, technical errors, negligence of third parties, or a *force majeure.* Furthermore, the Administration shall assume no responsibility for attachments not received as a result of third-party involvement, faulty attachment of documents by the candidate, or any type of network failure.

Submission of the documentation for the evaluation

Candidates must attach the following certificates, documents and publications:

1) (for candidates holding an Italian degree) a self-certification to prove to meet the requirements (using the form in Annex D1) in accordance with articles 46 and 47 of the Presidential Decree 445/2000;

2) (for candidates holding a foreign degree) degree certificate with a list of exams taken, along with an Italian translation, an authentication, and a "declaration of validity" "dichiarazione di valore in loco" issued by the competent Italian consular or diplomatic representative for the country, or Diploma supplement or certificate of comparability and verification issued by the Cimea as an ENIC_NARIC center. If not yet available, candidates have to attach the description of the degree with a list of exams taken together with a statement of truth of the certificates attached, by means of a self-certification in accordance with Articles 46 and 47 of the Presidential Decree 445/2000 using Annex D2;

3) scanned copy of a valid identity card or passport and residency status;

4) curriculum vitae of their scientific and teaching activities (using *Annex C*);

5) a digital copy of the thesis of Italian second level degree ("Laurea Magistrale", "Laurea Specialistica" or degree obtained prior to M.D. 509/99), or equivalent in the case of a degree obtained abroad; or an abstract thereof;

6) binding preferences for study venues (using *Annex 1*);

7) one's own research project that demonstrates the ability to articulate the stages and timeframe of a PhD course: it must be articulated in a scientific concept - a description of the state of the art - a presentation of the sources and tools for the study - the timeframe and stages of realisation articulated by deliverables - the research centres outside Italy considered suitable for the research (using *Annex 1*);

8) a motivational letter, of no more than two pages and written in English, illustrating the candidate's motivations for attending the Course, the description of his/her specific research interests as well as the reasons for any preference;

9) any certification of proficiency in English (TOEFL, CAE/Proficiency or others) or other foreign languages (indicating the level);

10) academic qualification certificates and documents considered useful for the purposes of evaluation with corresponding list;

11) scientific publications with list. Publications in languages other than Italian, English, French, German and Spanish, or which do not include a summary in one of the above languages, must be produced in original language and translated into Italian.

For the information of candidates, please note that pursuant to article 15 of Law no. 183 of November 12th, 2011, certificates regarding personal qualities, status and facts issued by the public administration can be only used for private purposes. Self-certification, under articles 46 and 47 of Presidential Decree 445/2000, can replace attested declarations for public administration or public services purposes.

Certificates issued by the competent authorities of the foreign candidate's country of citizenship must comply with the provisions in force in the same country. Certificates in a language other than Italian, English, French, German or Spanish, must also be translated and authenticated by the competent Italian diplomatic or consular authorities.

An Italian translation must be attached to all documents written in a language other than English, French, Portuguese, German or Spanish, and must be certified as conforming to the foreign text by a competent Italian diplomatic authority or an official translator.

ARTICLE 4 – Selection Committee

The commission in charge of evaluating the candidates shall be appointed by decree of the Rector. It shall be composed of five full members and one or more substitutes, chosen from among full university professors and researchers, to which may be added no more than two experts, including foreigners, chosen from public and private research bodies and structures.

One administrative staff member may act as secretary to the minutes.

ARTICLE 5 – Admission procedures
Selection aims

The admission examination consists of a specific test aimed at ensuring an appropriate comparative assessment and ascertaining the candidates' aptitude for scientific research.

The selection is carried out through the evaluation of qualifications and through an interview via videoconference. Therefore, the admission procedure consists of

- evaluation of qualifications (publications, curriculum vitae, etc.);

- evaluation of the proposed "research project" - the research project must be attached to the application (*Annex 1*);

- oral exam on research topics related to the PhD programme, with assessment of knowledge of the English language. At the request of individual candidates, the interview could be entirely in English.

PLEASE NOTE: Operational indications or eventual communications will be provided to candidates close to the established date and, in any case, at least 2 days in advance by means of

a notice posted on the online University Notice Board and published on the University website at the following link https://www.unimore.it/didattica/dottorato.html?ID=1140.

The University of Modena and Reggio Emilia declines any responsibility in the event that technical reasons prevent the connection from being established for the smooth running of the interview or in the event that the candidate is not available at the time of the call for interview.

The scores for the different tests are awarded as follows:

- Titles score: up to a maximum of 20 points;
- Research project score: up to a maximum of 40 points, with a minimum score for admission to the oral test of 27/40;
- Oral test score: up to a maximum of 60 points (including the English language proficiency test), with a minimum score of 41/60.

The maximum score achievable, given by the sum of the points from the above-mentioned tests, is therefore 120 points.

At the end of the examination tests, the selection board will draw up an overall ranking list on the basis of the scores obtained by the candidates.

Evaluation of candidate qualifications

A total score of 20 points will be attributed to the qualifications. The categories of qualifications that will be subject to assessment, provided that they are relevant to the disciplines of the PhD course in "Learning Sciences and Digital Technologies", with the maximum score attributable to each of them being the following:

A) Degree mark up to a maximum of 10 points as follows:

- up to 100 - 0 points;
- 101/104 - 4 points
- 105/107 - 6 points;
- 108/110 - 8 points;
- 110 cum laude - 10 points.

For undergraduates, the degree mark will be calculated on the weighted average of the marks of all the examinations taken on the expiry date of this notice.

In the event that the candidate holds more than one degree related to the Course for which he intends to compete, he must indicate the degree to be taken into consideration for the purposes of evaluation by the Selection Committee.

B) Scientific qualifications, relevant to the subjects of the PhD Course for which the candidate is applying, up to a maximum of 4 points for: scientific publications (monographs with national ISBN, articles in scientific journals, proceedings of conferences with national and international distribution, specific contributions in volumes, etc.) and patents.

C) Academic qualifications and studies, relevant to the subjects covered by the PhD Course, up to a maximum of 4 points for Additional Bachelor's or Master's degree; PhD; first- or second-

level university master's degree; Postgraduate specialisation courses; Postgraduate diplomas; Postgraduate training courses (e.g. summer school) on the topics of the PhD.

Up to a maximum of 2 points for documented research activities at qualified Italian and foreign institutes relating to the topics covered by the PhD course for which you are applying and participation in European projects.

The assessment of qualifications will be made before to the assessment of the project and the interview.

Evaluation of research project

The proposed research projects shall be assessed by the Selection Committee which, should it deem it appropriate, may call upon the assistance of the respective PhD Teachers' Board. The project must be drawn up in accordance with *Annex 1* and will be evaluated on the basis of the criteria detailed in *Annex 2* of this notice. The Selection Committee shall draw up the lists of candidates admitted to the oral test.

Candidates obtaining a minimum of 27 points will be admitted to interview. The list of candidates admitted to the interview and any variations in the methods and terms of the selection procedure will be announced publicly in a date between September 14th and 15st, 2023 on the University website at https://www.unimore.it/didattica/doctorates.html in the section relating to the National PhD Program in Learning Sciences and Digital Technologies.

Evaluation of the interview

The selection committee may award a maximum of 60 points for the evaluation of the interview. If the candidate has obtained a mark of not less than 41/60, he/she will have passed the test.

At the end of each session of the oral test, the Commission will draw up lists of the candidates examined, indicating the marks obtained by each one. The list of candidates assessed in the oral examination will be published on the PhD web page: https://www.unimore.it/didattica/doctorates.html .

The oral test will be conducted via videoconference for all candidates. The e-mail address indicated by the candidate will be used to set up the platform and the relative virtual rooms for connection.

The test will be held in Italian or English. Candidates will be admitted to the tests upon presentation of a valid identity document.

The topics covered by the tests will relate to the disciplinary-scientific sectors of reference of the PhD Course.

At the end of the examination tests, the Selection Board will draw up the general ranking list on the basis of the marks obtained by the candidates.

Exam schedule

The interview will be held remotely, via Google Meet, on **September 20th 2023, starting at 9.00 a.m. CET**. Should the number of candidates require it, the interviews will also take place on 21 September 2023, from 9.00 a.m. CET, continuing, if necessary, on the following days, always starting at 9.00 a.m. CET.

The operational indications on how to conduct the interview via Google Meet will be communicated at the time of publication of candidates admitted to the interview. The link to the interview will be provided by the committee.

ARTICLE 6 – Ranking

At the end of the selection processes, the committee will draw up the final ranking list (one for each curriculum), indicating for each candidate his/her venue preferences expressed in *Annex 1*. The final ranking list will be approved by a Rector's Decree, once all documentation has been declared valid.

Candidates will be admitted to the Course according to the order of the final rankings and up to the number of available places. ***Successful candidates will be asked to formalise their enrolment at the first venue chosen from the list in Annex 1***. Should the first chosen venue no longer be available, successful candidates, on the basis of the highest overall score in the ranking list, will be offered the opportunity to enrol at the other locations indicated in *Annex 1* on the basis of the places still available.

The PhD Office shall proceed with the call of candidates eligible for enrolment as follows:

- The first 5 candidates in the ranking list (from 1st to 5th position) will be contacted by e-mail in order to formalise their enrolment on the first venue chosen in *Annex 1*. These candidates must enrol within 1 day of the forwarding of the aforementioned e-mail. If the first location chosen by the candidate is no longer available, he/she will be asked to formalise his/her enrolment on one of the other seats indicated in *Annex 1*. In the event that none of the locations chosen by the candidate in *Annex 1* is still available, the PhD Office shall invite the candidate to enrol at one of the other locations still available;

- Following the registrations referred to in the previous point, the PhD Office shall contact the next five candidates (from 6th to 10th position in the ranking list) in order to formalise the registration on the first location chosen in *Annex 1*. These candidates must enrol within 1 day from the forwarding of the aforementioned e-mail. If the first venue chosen by the candidate is no longer available, he/she will be asked to formalise his/her enrolment on one of the other locations indicated in *Annex 1*. In the event that none of the locations chosen by the candidate in *Annex 1* is still available, the PhD Office shall invite the candidate to enrol at one of the other venues still available;

- Following the registrations referred to above, the PhD Office will proceed in the manner described above, in groups of 5 candidates at a time (from 11th to 15th position, then from 16th to 20th position and so on), up to 45th place in the rank list;
- In the event of the renunciation of the candidate entitled to enrolment, whether explicit (formalised by replying to the above-mentioned email) or implicit (the candidate does not formalise enrolment by the deadline), the vacant place will be made available to the first candidate in the next position on the rank list, thus guaranteeing the best possible option in relation to the available places;
- Should there still be unassigned places at the end of the aforementioned procedures, the PhD Office shall proceed with contacting the candidates in a useful position in the ranking list starting from the 46th position, proceeding until the number of available places has been filled.

The final rankings of candidates will be announced publicly exclusively by:
- publication on the University website at https://www.unimore.it, under: ("Academic programs"/"Doctorate Programs"), within the tab dedicated to the PhD course in "Learning Sciences and Digital Technologies";
- publication on the online University notice board (https://wss.unimore.it/public/albo/).

Enrolment in more than one study course is permitted in accordance with the provisions of Law of April 12th, 2022 no. 33 and MD 930/2022.

ARTICLE 7 – Enrolment

Under penalty of forfeiture, within the mandatory term of one day, which shall begin from the day following the forwarding by the PhD Office of the e-mail referred to in the preceding article, resulting from the publication of the final ranking list, candidates must register for the first year of the PhD Programme exclusively in accordance with the following procedure:

connect to the University website https://www.esse3.unimore.it/Home.do (new users must register by selecting "Menu", top right, and then "Registration"; those who have already registered should select "Menu", and then "Login" with the credentials received following registration or with their SPID (Public Digital Identity System) credentials, follow the instructions: "Student Area" - "Enrolment" – "Enrolment according to ranking"; if an applicant has forgotten his/her username and password, assistance is available via email at webhelp@unimore.it).

The sliding of the ranking list will proceed until all available places have been allocated with enrolment.

Required documents during the enrolment procedure

During the online procedure, candidates must upload the following documents:

a) digital passport photo: a colour passport photo, showing a frontal view of your face, with a neutral or uniform background (in JPEG or BITMAP format);

b) scanned copy an identity document, duly signed;

c) scanned copy of the tax identification card;

d) scanned copy of the receipt for the payment of € 25.00 required for participation in the competition, in accordance with art. 3;

e) self-certification to prove the possession of a university degree (using the form in *Annex D1* for Italian degrees or the form in *Annex D2* for foreign degrees), in case of degree already awarded;

f) *Annex F* "Accompanying declarations for scholarship holders" (using the form attached to the notice);

g) *Annex G* "Accompanying Declarations to be completed only by applicants without scholarships" (using the form attached to the notice)

h) *Annex H* "Choice of research location" (using the form attached to the notice)

The mere completion of the online procedure does not finalise enrolment. The payment of the single instalment referred to in Article 9 must be made within the same deadline indicated in the enrolment request of the Doctoral Office, under penalty of forfeiture. The payment can be made at the end of the enrolment procedure exclusively by the following method:

Access Esse3, by connecting to the University website at https://www.esse3.unimore.it/Home.do with your credentials, and under the menu item "Taxes" proceed with the payment through the PAGO PA circuit that allows to pay online (by choosing your Payment Service Provider – PSP) or alternatively to print the payment notice to be delivered personally to Banks and ATMS, SISAL, Lottomatica and ITB stores. From your personal Esse3 page, under the menu item "Taxes", you can print the payment receipt. With the PagoPa circuit, the payment acquisition times in Esse3 are normally comparable to those of the credit card.

The print copy of the enrolment application and receipt of payment must be kept by the applicant and not submitted to the Office.

Candidates gaining their academic qualification after the date of enrolment must send to the PhD Office (Via Università n.4, 41121 - Modena) via e-mail to the address segr.dottorati@unimore.it *the Annex D1 (*if the qualification is conferred in Italy) or the *Annex D2* (if the qualification is conferred abroad) no later than October 31st, 2023.

Obligations of winners with foreign titles

Italian and foreigners citizens holding a foreign academic qualification must present to the PhD Office (Via Università 4, 41121 Modena), no later than December 31st, 2023, via e-mail to the address segr.dottorati@unimore.it, their degree certificates with a list of exams taken, along with an Italian or English translation, an authentication, and

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by ENIC_NARIC centers;

- for degrees obtained in non-EU countries: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or diplomatic representative for the country, or certificate of comparability and verification issued by the Cimea as a ENIC_NARIC center.

Failure to submit the above documentation may result, at the sole discretion of this Administration, in the non-payment of the grant until it is submitted. Should the aforementioned documentation, once submitted, show a lack of eligibility requirements, the PhD candidate will be excluded.

Social security obligations

As soon as the registration procedure has been completed, all recipients of scholarships must register with the I.N.P.S. Separate Management Fund ("Gestione Separata") and forward a self-certification to prove registration (using *Annex E* "Self-certification of subscription to Gestione Separata Inps") to the Salaries Office ("Ufficio Stipendi") by October 31st, 2023, by sending a scanned copy via e-mail to ufficiostipendi@unimore.it. If PhD students are already registered with the I.N.P.S (Italian Social Security Institute) Separate Management Fund as a result of previous collaboration with other institutions, they merely need to forward the self-certification confirming the registration with the I.N.P.S (in the same way as indicated above).

Foreign citizens who do not yet have a tax identification number must apply to the "Agenzia delle entrate" (Italian Revenue Agency) after their arrival in Italy, and must forward a copy of the card issued by the Agency before October 31st, 2023, to the PhD Office, by sending a scanned copy via mail to segr.dottorati@unimore.it.

Foreign citizens assistance

For information and assistance concerning the Tax ID code, housing, residence permit, entry visa, registration with the I.N.P.S. Separate Management Fund ("Gestione Separata"), foreign citizens may submit a request to the International Welcome Desk Office, at: internationalwelcomedesk@unimore.it .

Default waiver

Any candidates who have not completed their enrolment in accordance with the terms and conditions indicated above will be considered as withdrawn.

In the case of, from the documentation presented by the candidate, false or misleading declarations are found, relevant for the purposes of enrolment, without prejudice to the penal sanctions referred to in Article 76 of the D.P.R. n.445 dated 28/12/2000 and subsequent modifications, the candidate automatically expired from any enrollment and the fees paid by the interested party will not be refunded.

The university administration reserves the right to ask enrolled students to complete the enrolment documentation if incomplete and/or to provide payment receipt of the single or first instalment.

ARTICLE 8 - Scholarships

The number of scholarships assigned is indicated in art. 1; these scholarships will be awarded according to the positioning of candidates on the final ranking list.

In the event of equal scores, priority will be given to the candidate with the least favourable financial situation, determined in accordance with the Italian Prime Minister's Decree of April 30th, 1997 and subsequent amendments. Candidates with equal score will be requested by e-mail to submit for the purposes of evaluating their financial situation:

- Receipt of submission of the "Dichiarazione Sostitutiva Unica" (Single Sworn Declaration) for calculating the ISEE bracket (DSU); this must be forwarded within the final deadline of two days starting from the day after the day on which the e-mail was sent. Failure to comply will result in loss of the right to admission.
- The formal I.S.E.E. (Indication of Equivalent Financial Situation) by I.N.P.S.; this must be forwarded within the final deadline of five days from the day after the day the e-mail was sent. Failure to comply will result in loss of the right to admission.

With the same ISEE indicator, the youngest candidate will be given precedence.

Amount and payment method of the scholarships

The annual amount of a study scholarship is € 16.243,00 (barring subsequent regulatory amendments) and is subject to the I.N.P.S. social security contribution under the separate management fund.

Study scholarships will be paid in monthly deferred instalments.

PhD scholarships cannot be combined with other scholarships or other forms of financial assistance paid by the University and/or the State, with the exception of those designed to be integrated with PhD student research activities, for periods spent abroad.

Confirmation and increase of the scholarships

Study scholarships are automatically renewed when PhD students continue in the following year, unless a motivated ruling to the contrary is made by the Teaching Committee.

Scholarship amounts will be increased by 50% for periods spent abroad of no longer than 12 months. This period may be extended up to a maximum of 18 months for doctoral students under joint guidance or Double Degree program with foreign institutions.

Starting from the first year, to every PhD student is guaranteed a budget for research activities in Italy and abroad amounting to 20% of the annual amount of the scholarship.

ARTICLE 9 - Fees for PhD Programs

Enrolment fee

Fee for Italian PhD program in "Learning Sciences and Digital Technologies" which must be paid in one instalment to the enrolment by those who enrol is € 159.67 (the amount of the payment slip that can be downloaded online includes the regional tax, the stamp duty and the insurance coverage).

Right to study

The measures for the right to study also provided for PhD candidates, if they meet requirements, are:

- Scholarship (financial support to the study, with admission by ranking list) incompatible with other types of scholarships awarded for any purpose;
- Accommodation facilities, (with admission by ranking list) for non-resident students "Fuorisede" enrolled to PhD;
- Subsidies for catering service.
- Contributions for international mobility;
- Peer tutoring collaborations in favor of disabled students or students with Specific Learning Disabilities.

Therefore, anyone intending to apply for one of the aforementioned benefits must exclusively refer to the Announcement and to the Application procedure of the Regional Agency for the Right to Higher Education – District headquarters of Modena and Reggio Emilia for the 2023/2024 academic year, that will be available at www.er-go.it (selecting "Servizi" – "Diritto allo studio") starting from July 2023. With regard to deadlines and requirements to benefit from these services, it will be necessary to refer exclusively to this notice.

To request interventions for the right to study it is necessary to be in possession of the ISEE Certification 2023 for subsidized services for the right to university study and of the digital identity system SPID.

International students, to request interventions for the right of study, must be in possession of the documentation referred to at the link: https://www.er-go.it?id=6545.

Applications can be submitted even if not yet enrolled on a PhD Program. Therefore, applications can be submitted even if the final rankings of candidates for admission to PhD Programs have not yet been announced publicly.

For information and advice exclusively in completing the online application contact:

- "Parla con ER.GO" 051.19907580 or 051.0185268 – available every day from Monday to Friday - from 9.30 am to 4.00 pm

The amounts, and the deadlines for the contribution for the following years will be determined from year to year and will be notified on the web page http://www.unimore.it/didattica/dottorati.html (approximately towards the end of July).

ARTICLE 10 - Rights and Responsibilities of PhD Students

PhD Programs require a full-time and exclusive commitment. PhD students may accept forms of employment, pending authorization from the PhD Program Teaching Committee, related to work activities useful for the acquisition of skills pertaining to the PhD research area, after evaluation of compatibility of those activities with the fruitful development of the educational, didactic and research activities of the PhD course.

PhD students are required to perform the research projects assigned to them and to be involved in related study, further research, periods abroad, teaching, as well as any internships affiliated with public or private bodies, in accordance with the requirements set by the competent Teaching Committee. Students who fail to comply may be withdrawn from the program.

The provisions in art.15 regulate the other responsibilities and rights of doctoral students, including incompatibility, exemption from the obligation to attend, and the conditions of exclusion, as well as the procedure for awarding the PhD of this competition.

Further specific obligations may be assigned to the recipients of PhD scholarships awarded by the founding of MD no. 117/2023 and MD no. 118/2023, which may be notified by the Ministry of University and Research. In particular, they must report their activities every six months in the ministerial database. Failure to do so may result in the University requesting the return of the PhD scholarships awarded in the last year in progress.

ARTICLE 11 – Public employees

In accordance with the law, public employees admitted to PhD courses are placed on special leave for study purposes without allowance for the duration of the course and are entitled to a scholarship if the required conditions are met. In the event of admission to a PhD course without a scholarship, or if the scholarship is renounced (if envisaged by the type of scholarship awarded), the person on leave retains the salary, social security and pension benefits enjoyed by the public administration with which the employment relationship is established.

 If, after obtaining the PhD, the employment relationship with the public administration is interrupted at the employee's request within the following two years, the sums paid pursuant to the second sentence shall be reimbursed.

A civil servant who has already obtained a doctoral degree or has been enrolled on PhD courses for at least one year, benefiting from the leave, shall not be entitled to extraordinary leave with or without pay.

The period of special leave is useful for the purposes of career progression, retirement and social security.

ARTICLE 12 – Awarding of the PhD

The PhD is awarded upon completion of the PhD Program, when students pass their final examination that consists in the presentation of a PhD Thesis on an original research, carried out

meticulously and where results are adequately and scientifically relevant. Should the assessment be negative, the final examination cannot be repeated.

Thesis defence will take place before an Examination Board appointed in compliance with the University PhD Research Program Regulations.

The Rector awards the title of PhD. The issue of the above title is dependent upon the candidate's submission to the competent office of the copy of the final thesis in digital format, which will be guaranteed to be kept and publicly accessible in the special open access archive of the University, as well as to be deposited in the ministerial database, in compliance with the regulations in force concerning thesis embargo and copyright.

Upon completion of the PhD program, graduates will be invited to fill out a "Questionnaire on the opinions of program attendees" for the AlmaLaurea database. This will enable the AlmaLaurea Inter-University Consortium to monitor the training of PhD students.

ARTICLE 13 – Handling of personal data

The University Administration, in accordance with EU Regulation 2016/679 and Legislative Decree 196/03, as amended by Legislative Decree 101/2018, will use the applicant's personal data solely for the fulfilment of the selection procedures and for administrative purposes.

In accordance with the principles to mentioned rules, by participating in the competition, the candidate authorizes the University of Modena and Reggio Emilia to publish his/her personal data as well as information relating to the admissions examinations on the University website.

The University of Modena and Reggio Emilia adopts equal opportunity principles in its selection procedures and rejects any type of discrimination based on sex, gender identity, nationality, ethnicity, religious belief, sexual orientation, state of health, and any other status or quality that is not strictly relevant to the call outlined in this document.

ARTICLE 14 – Publication

This call is equivalent to notification to all intents and purposes. It will be published on the online University notice board (https://wss.unimore.it/public/albo/), on the website of the University https://www.unimore.it/bandi/StuLau-Sdott.html, and on the Website of the Ministry of University and Research: http://bandi.miur.it/doctorate.php/public/cercaFellowship.

Any changes, updates or additions to the content of this call will be announced, exclusively, on the online University notice board (https://wss.unimore.it/public/albo/) and on the following website: https://www.unimore.it/bandi/StuLau-Sdott.html.

ARTICLE 15 – Additional Regulations and Responsible for the present administrative procedure

For matters not explicitly covered in this application procedure, refer to the provisions contained in art. 4 of Law no. 210 of July 3rd, 1998, art. 19 of Law no. 240 of December 30th, 2010,

Ministerial Decree no. 226 of December 14th, 2021, to the University regulations in force governing PhD Programs, to the Teaching Regulations of the University of Modena and Reggio Emilia, and to the Regulations of the Italian National PhD Program in Religious Studies.

The Responsible for the present administrative procedure is the Representative of the PhD Office (Dr. Filippo Cavazzuti - Via Università, 4 – Modena - e-mail: segr.dottorati@unimore.it).

For further information, candidates may contact the PhD Office - Via Università 4, 41121 Modena - phone +39 059/2056423 - e-mail: segr.dottorati@unimore.it.

Modena, 03/08/2023

THE RECTOR

(Prof. Carlo Adolfo Porro)

Project Format (Annex 1)
Research project proposal
Italian National PhD (XXXIX Cycle) in
"Learning Sciences and Digital Technologies"

Candidate: …………………………………

Title: …………………………………………

Research Area Option

The candidate MUST indicate the research area that most characterises his/her project proposal:

        □ pedagogical-didactic area

        □ psychological area

        □ engineering/technological/scientific area

        □ legal/economic/statistical area

        □ communicative

        □ other: specify.........................

PhD Venue Option

The candidate MUST indicate up to **5** preferred study venues, chosen from those indicated in Table 1 in art.1 (under the heading "Places available, Scholarships and locations") of the Announcement, specifying the type of location (with scholarship or without scholarship), in descending order of preference (from most to least preferred, it is optional to indicate, in the case of a position with scholarship, the type of scholarship if the location provides more than one).

I, the undersigned _____, born at _____ on _____, express my interest in attending the PhD at one of the venues listed below (please indicate the order of priority with the numbers **1-binding**, 2, 3, 4 and 5):

Order of priority: please enter your preferred number inside the box	VENUES / TYPE OF POSITION OR SCHOLARSHIP
☐	**Ancona – Marche Polytechnic University** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Bari – "Aldo Moro" University of Bari** 1 position with scholarship on University funds

☐	**Bologna - Alma Mater University of Bologna** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Bozen/Bolzano - Free University of Bozen/Bolzano** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Bergamo - University of Bergamo** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research)
☐	**Camerino - University of Camerino** 1 position with scholarship on PNRR MD117//2023 funds (M4C1, Inv. 3.3)
☐	**Ferrara - University of Ferrara** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Florence - University of Florence** 2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research)
☐	**Florence - INDIRE** 1 position on Institution funds
☐	**Foggia - University of Foggia** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 3.4, Digital and environmental transition)
☐	**Genoa - University of Genoa** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Milan - University of Milan** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Reggio Emilia - University of Modena and Reggio Emilia** ☐ 2 posizioni con borsa su fondi PNRR DM118/2023 (M4C1, Inv. 4.1, PNRR Ricerca). _{Indicate your preference, if any, by placing an 'X' in the box provided}

	Reggio Emilia - University of Modena and Reggio Emilia ☐ 1 posizione con borsa su fondi PNRR DM118/2023 (M4C1, Inv. 4.1, PNRR/Pubblica Amministrazione su tema vincolato). Indicate your preference, if any, by placing an 'X' in the box provided
	Reggio Emilia - University of Modena and Reggio Emilia ☐ 2 posizioni con borsa finanziata su fondi di Ateneo. Indicate your preference, if any, by placing an 'X' in the box provided
	Reggio Emilia - University of Modena and Reggio Emilia ☐ 3 posizioni senza borsa. Indicate your preference, if any, by placing an 'X' in the box provided
☐	**Naples – "Federico II" University** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Naples – "Suor Orsola Benincasa" University** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Padua - University of Padua** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Palermo - University of Palermo** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Public Administration)
☐	**Palermo - CNR, Institute for Educational Technology** 1 position on Institution funds
☐	**Parma - University of Parma** 2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Research)
☐	**Perugia - University of Perugia** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Digital and Environmental Transition
☐	**Perugia - University for Foreigners of Perugia** 1 position with scholarship on PNRR MD117/2023 funds (M4C1, Inv. 3.3)

☐	**Alessandria – "Amedeo Avogadro" University of Eastern Piedmont** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Digital and Environmental Transition)
☐	**Pisa - University of Pisa** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Rome - Libera Università Maria Santissima dell'Assunta (LUMSA)** 1 position with scholarship on PNRR MD117/2023 funds (Investment 3.3)
☐	**Rome – "Guido Carli" Free International University for Social Studies (LUISS)** ☐ 1 PNRR scholarship "Research Topics PNRR" M4C1 - Inv. 4.1 Indicate your preference, if any, by placing an 'X' in the box provided
	Rome – "Guido Carli" Free International University for Social Studies (LUISS) ☐ 2 PNRR scholarship "Public Administration" M4C1 - Inv. 4.1 Esprimere l'eventuale preferenza sulla tipologia di borsa con una "X" nell'apposito riquadro
☐	**Rome – "La Sapienza" University of Rome** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Rome – "Tor Vergata" University** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Salerno - University of Salerno** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR/Research)
☐	**Turin - University of Turin** 2 positions with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)
☐	**Trento - University of Trento** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, Public Administration)

☐	**Udine - University of Udine**
	   ☐ 1 position with scholarship on PNRR MD118/2023 funds
	      (M4C1, Inv. 4.1, Public Administration)
	Indicate your preference, if any, by placing an 'X' in the box provided

	Udine - University of Udine ☐ 1 position without scholarship Indicate your preference, if any, by placing an 'X' in the box provided
☐	**Verona - University of Verona** 1 position with scholarship on PNRR MD118/2023 funds (M4C1, Inv. 4.1, PNRR Research/Generics)

(Table 2)

Abstract (max 500 characters)

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Key words (n. 3)

N. 1 _____

N. 2 _____

N. 3 _____

Context (max 1000 characters)

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Definition of the research problem and theoretical framework (max 2000 characters)

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Targets and results (max 1000 characters)

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Metodology (max 1000 characters)

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Project deliverables

Deliverable Number	Deliverable's name	Typology	Quarterly release
D1	…	…	…
D2	…	…	…
D3	…	…	…
D…	…		…
D…	Yearly monitoring	Report	...

Table 3 - Planned Deliverables per Work Package (WP)

Bibliography (max 20 references)

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Evaluation criteria for project proposals (Annex 2)

Italian National PhD (XXXIX cycle)

in *"Learning Sciences and Digital Technologies"*

Originality	To be understood as the level at which the product introduces a new way of thinking and/or interpreting in relation to the scientific object of the research, and stands out and innovates compared to previous approaches on the same object	From 0 to 10 points
Methodological rigour	To be understood as the level at which the product clearly presents the objectives of the research and the state of the art in the literature, adopts a methodology appropriate to the object of the research and demonstrates that the objectives have been achieved	From 0 to 15 points
Impact	To be understood as the level at which the product exerts, or is likely to exert, an influence on the international scientific community or, for disciplines where it is appropriate, on the national scientific community	From 0 to 15 points

Maximum score 40 points.

Annex C (CURRICULUM VITAE FAC-SIMILE)

CURRICULUM VITAE ET STUDIORUM

Submitted for admission to Italian National PhD Program in Learning Sciences and Digital Technologies (XXXIX cycle)

PERSONAL DATA

Name and surname

Date of birth

Nationality

Address

Telephone number and e-mail

EDUCATION

Period

Institution

Country where the qualification was awarded

Qualification awarded

Final mark

WORK EXPERIENCE

Period

Type of employment

Sector

Employment grade and duties

PARTICIPATION IN RESEARCH PROJECTS

Period

Title of the project

Disciplinary area

Tasks performed as part of the project

LANGUAGE SKILLS (Specify for each language the level of knowledge on the basis of the following scale, as laid down in the Common European Framework of the Council of Europe. Reference should also be made to any certification awarded to the candidate, such as TOEFL, etc.)

LANGUAGE…………..

A1 (BEGINNER)

A2 (ELEMENTARY)

B1 (PRE INTERMEDIATE)

B2 (POST INTERMEDIATE)

C1 (ADVANCED)

C2 (PROFICIENCY)

ANALYTICAL SKILLS (Please specify, where applicable, analytical skills in relation to the research activity: statistical software, informatic instruments or database)

LIST OF PUBLICATIONS (WHERE APPLICABLE)

Date and place

Signature

Annex D1 (for candidates holding degrees awarded in Italy only)
Self-certification as substitute for attested declarations under articles 46 and 47, Presidential decree 445/2000

WARNING

The following self-certification complies with the dispositions of Presidential decree 445 of the 28th December 2000: "LEGISLATIVE DISPOSITIONS AND RULES FOR ADMINISTRATIVE FORMS". In particular:
- Details provided by candidates have to be considered as substitute for attested declaration under articles 46-47; following article 76 candidates who provide mendacious information can incur in administrative and criminal penalties.
- Following article 39 the self-certification does not require official stamps.
- Under articles 71 and 72 the relevant University office will verify the information provided.
- The information requested in this self-certification follow article 16 is strictly necessary for the selection procedures and will be kept confidential following the Legislative decree 196 of the 30th June 2003 on personal data protection.

DEGREE DESCRIPTION
**Italian second level degree "laurea magistrale" (under D.M. 270/04)
or Italian second level degree "laurea specialistica" (under D.M. 509/1999)
or Italian degree (prior to D.M. 509/1999)**

Aware of the provisions on criminal consequences for false declarations, under art. 76 of Presidential decree 445/2000 the undersigned

Surname_____

Name_____

Place of birth _____

Date of birth (dd/mm/yyyy) _____

Citizenship _____

E-mail for correspondence _____

DECLARES TO HOLD THE FOLLOWING DEGREE CERTIFICATE

(Tick only one of the three options)

□ Italian second level degree "Laurea magistrale" (under D.M. 270/04) in

_____

Degree class of _____

□ Italian second level degree "Laurea specialistica" (under D.M. 509/1999) in

_____

Degree class of _____

□ Italian degree (prior to D.M. 509/1999) in

_____

Degree awarded by the University of _____

on the (dd/mm/yyyy) _____

Final mark _____

AND DECLARES

that, in accordance with articles 46 and 47 of Presidential decree 445/2000, the information included in all the copies attached to the admission form is correct.

_____
Date and place

_____
Signature (legible and in full)

Annex D2 (for candidates holding foreign degrees only)
Self-certification as substitute for attested declarations under articles 46 and 47, Presidential decree 445/2000

WARNING

The following self-certification complies with the dispositions of Presidential decree 445 of the 28th December 2000: "LEGISLATIVE DISPOSITIONS AND RULES FOR ADMINISTRATIVE FORMS". In particular:

- Details provided by candidates have to be considered as substitute for attested declaration under articles 46-47; following article 76 candidates who provide mendacious information can incur in administrative and criminal penalties.
- Following article 39 the self-certification does not require official stamps.
- Under articles 71 and 72 the relevant University office will verify the information provided.
- The information requested in this self-certification follow article 16 is strictly necessary for the selection procedures and will be kept confidential following the Legislative decree 196 of the 30th June 2003 on personal data protection.

DESCRIPTION OF THE QUALIFICATION
(Degree, Master of Science or equivalent)

INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

Surname _____

Name _____

Place of birth _____

Date of birth (dd/mm/yyyy) _____

Citizenship _____

E-mail for correspondence _____

INFORMATION IDENTIFYING THE QUALIFICATION

Level of Qualification (Degree, Master of Science or other) _____

_____

Qualification in _____

Qualification awarded at the University of _____

Qualification awarded on (dd/mm/yyyy) _____

Final degree mark /grade _____

Main Field(s) of Study for the Qualification _____

Language(s) of Instruction/Examination _____

Official Length of Program (years) _____

Access Requirement(s) to Program _____

INFORMATION ON THE EXAMINATIONS AND RESULTS GAINED FOR THE QUALIFICATION (Examination and individual grades/marks/credits obtained)

DATE	EXAMINATION	GRADE	MARK	CREDITS OBTAINED

Useful additional information about examinations and results _____

_____

_____

_____

INFORMATION ON THE FUNCTION OF THE QUALIFICATION IN THE COUNTRY WHERE THE QUALIFICATION WAS AWARDED

Does the title described above, in the country where it has been awarded, enable application to

University PhD programs? (Tick only one of the two options)

□ Yes   □ No

ADDITIONAL DECLARATION

In accordance with articles 46 and 47 of Presidential decree 445/2000, the information included in all the copies attached to the admission form is correct.

_____
Date and place

_____
Signature (legible and in full)

ANNEX E
Form "Self-certification of subscription to Gestione Separata Inps"

To
Payroll Office – Finance Directorate
Università degli Studi di Modena e Reggio Emilia
Via Università, 4 - 41121 Modena
E-mail: ufficiostipendi@unimore.it

<div align="center">

Autocertificazione di iscrizione alla Gestione Separata Inps
di cui all'art. 2, comma 26, L. 335/1995
(resa ai sensi del D.P.R. 28 dicembre 2000, n.445 e s.m.i.)

</div>

Il sottoscritto _____

natoa _____ il _____

Codice Fiscale_____

<div align="center">

Titolare di (barrare la relativa opzione):

</div>

☐ Assegno di ricerca ☐ Collaborazione coordinata e continuativa

☐ Dottorato di ricerca ☐ Docenza a contratto

☐ Borsa di Specializzazione Medica ☐ Prestazione d'opera occasionale (redditi > € 5.000,00)

<div align="center">

DICHIARA:

</div>

di essere iscritto alla data odierna ed in seguito a conferma INPS, o che provvederà nei termini all'iscrizione, alla Gestione Separata Inps*:

☐ "ALTRA CASSA - aliquota MINIMA"[1] in quanto iscritto presso la seguente cassa pensionistica: *(specificare quale)* ………………………………………………….……….

☐ "CASSA UNICA - aliquota MASSIMA"[2] in quanto non iscritto presso alcuna cassa pensionistica obbligatoria

---

*L'iscrizione alla Gestione Separata INPS, da effettuarsi in via telematica entro la fine del primo mese di attività, è un adempimento a totale carico del percettore. UniMoRe declina ogni responsabilità connessa alla mancata iscrizione.

<div align="center">

FIRMA
…………………………………………………………………

</div>

Il sottoscritto dichiara, inoltre, di essere consapevole delle sanzioni penali, nel caso di dichiarazioni mendaci, richiamate dall'art. 76 del D.P.R. 445/2000 e dall'art. 495 del C.P. e *si impegna a comunicare, prima della liquidazione del compenso, qualsiasi modifica di quanto dichiarato*.

Modena,……………….   FIRMA

<div align="center">

…………………………………………………………………

</div>

Si allega alla presente fotocopia del documento di identità del sottoscrittore e, possibilmente, tessera sanitaria o tessera codice fiscale

---

[1] Dall'anno 2016: 24,00%. Iscrizione che presuppone il versamento di contributi previdenziali ad altra cassa pensionistica obbligatoria, quali, ad esempio: Inps gestione dipendenti, artigiani, commercianti, Casse e Ordini professionali.
[2] Dall'anno 2022: 35,03%.

ANNEX F (Part 1) - Form "Accompanying declaration for scholarship holders"

DECLARATION TO BE ATTACHED FOR PhD STUDENTS HOLDING SCHOLARSHIPS IN THE PROCEDURE FOR APPLICATION FOR ENROLMENT ON PhD PROGRAM IN "Learning Sciences and Digital Technologies" A. Y. 2023/2024, XXXIX cycle

To be completed only by holders of scholarships

I, the undersigned Surname_____ First name _____

DECLARE TO BE FULLY AWARE THAT:

a) the grant to which this declaration relates cannot be accumulated with any other study grants, regardless of their title, with the exception of grants awarded by national or foreign institutions which are available to support, with periods of study abroad, the grant holder's training or research activities (art. 6, para 1, of Law 30.11.1989, n. 398);

b) students who have previously held a grant cannot hold a second grant with the same title (art. 6, para 2, of Law 30.11.1989, n. 398);

c) art. 1, sub-para a), of Law 315/98 states that, from the date 01.01.99, the MIUR (Ministry for Education, Further Education and Research) is required to guarantee the application of study grants to pursue research doctorates as per the regulations laid down by art 2, para 26, first part of Law No.335/95, and also art. 59, para 16, of Law No.449/97, as amended (compulsory general insurance with INPS – Italian Social Security Institute);

d) state employees who hold grants to which this declaration relates may request special leave without pay for study purposes, as provided by art. 2 of Law No.476/1984 (art. 6, para 7, Law 398/89).

I, the undersigned, in accordance with articles 46 and 47 of D.P.R. No.445 of 28.12.2000, aware of the liability incurred in the event of a false declaration,
DECLARE

a) **not to hold**, for the entire duration of the doctorate, other study grants of any title whatsoever, with the exception of grants awarded by national or foreign institutions which are available to support, with periods of study abroad, the grant holder's training or research activities (art. 6, para 1, of Law No.398 of 30.11.1989);

b) **not to have held**, even if only for one year, another study grant to pursue postgraduate courses (art. 6, para 2, Law 398/89);

c) **not to hold** a grant for collaboration in a research activity under art. 51, para 6, Law 449/97 and D.M. Il.02.1998

d) to be aware of the rights and obligations of graduates, as specified in the notices of competitions for admission to PhD Programs, XXXIX cycle – A.Y. 2023/2024, published on the internet site of the University of Modena and Reggio Emilia;

e) to have read and fully understood the regulatory provisions governing research doctorates, as published on the internet site of the University of Modena and Reggio Emilia.

f) to hereby provide consent to their personal data being held, including sensitive information, in accordance with EU Regulation 2016/679 and Legislative Decree No.196/2003, modified by Legislative Decree No. 101/2018, and to be aware that the databank is the property of the University of Modena and Reggio Emilia.

Italian and foreign citizens holding an academic degree awarded abroad are reminded they have to submit their academic transcript of records, together with its legalized Italian translation and the "declaration of equal value" issued by the Italian consular office of the country where the degree was awarded, if it is not already enclosed with the online application form, or certificate of comparability and verification issued by CIMEA as ENIC_NARIC centre, or Diploma supplement for academic degrees awarded in European Union.

Please note that citizens of States which do not belong to the European Union must provide documentation certifying insurance cover for medical treatment and hospitalization, together with a valid residence permit.

Date _____   _____
                                                                                Signature

ANNEX F (Part 2) - Form "Accompanying declaration for scholarship holders"

**DECLARATION ACCOMPANYING APPLICATION FOR ENROLMENT ON PhD
PROGRAM IN "Learning Sciences and Digital Technologies"
A.Y. 2023/2024, XXXIX cycle**

To be completed only by holders of scholarships

With full knowledge of the liability incurred in the event of a false declaration, in accordance with articles 46 and 47 of D.P.R. No. 445 of 28.12.2000, I the undersigned

Surname _____ First name _____

Tax code _____ Acquired surname _____

Born in _____ province of _____ on the _____

Resident at (street) _____ No.____ Town/city_____

Post code _____Province/State/County_____ Tel._____

MOBILE PHONE _____ E-mail _____

Domiciled (if different from above) at _____ No._____

Town/City _____ Post code_____ Province/State/County_____

REQUEST that the sum relating to the scholarship

is paid into the current account of _____ (payment can only be made to an account in the name of the grant holder; <u>the account may be in the name of more than one person inclusive of the grant holder – in this case specify all co-holders</u>) with IBAN _____. The International Bank Account Number consists of 27 characters: IT, 2 international code numbers, 1 national code letter (CIN), 5 numbers for the ABI code, 5 numbers for the CAB code, 12 alphanumerical characters for the current account number.

Important note: to avoid errors in the payment of sums due, the above-indicated fields must be completed fully and correctly. If in any doubt, please contact your own bank.

Please note that <u>any bank charges arising from the bank transfer are the responsibility of the recipient of the monies</u>.

I, the undersigned undertake to register promptly with the "INPS gestione separata" (by internet through the website at www.inps.it –searching "Iscrizione dei lavoratori parasubordinati alla Gestione Separata"– "Utilizza il Servizio", or through the INPS Contact Centre at www.inps.it) and send via e-mail a ufficiostipendi@unimore.it the affidavit to prove the registration (using the form "Autocertificazione di iscrizione alla Gestione Separata Inps") to the Ufficio Contabilità e Stipendi of the Università di Modena e Reggio Emilia, Via Università n. 4, Modena, by October 31, 2023 (*if the graduate is already subscribed to the " INPS gestione separata" as a result of previous collaborations with other clients, it is only necessary to provide the affidavit confirming the registration with the INPS*).

The payment of the grant is made in monthly instalments with fixed currency on 25th of the following month. The related coupons ("cedolini") will be exclusively available on-line, at the following link: https://unimore.u-web.cineca.it/

In the event that facts are ascertained during the course of the year which vary from those declared, the undersigned undertakes to <u>immediately communicate the relevant facts in writing</u>, exonerating the University of Modena and Reggio Emilia from any responsibility whatsoever concerning the same.

Information in accordance with Legislative Decree of 30th June 2003, No.196

The personal data contained on this form is gathered by the University for the sole pur pose of fulfilling all of its administrative, accounting, financial and social security obligations under the law. The personal data gathered will, in observance of the aforementioned legislative obligations, be communicated to the Ministero delle Finanze (Ministry of Finance), the INPS office (Italian Social Security Institute), and to any other public bodies, to permit the same to carry out the respective institutional functions, within the boundaries established by the law and regulations.

Date _____ (Signature) _____

ANNEX G - Form "Declaration to be completed only by applicants without scholarships"

DECLARATION ACCOMPANYING APPLICATION FOR ENROLMENT ON PhD PROGRAMME
IN "Learning Sciences and Digital Technologies"
A.Y. 2023/2024, XXXIX cycle

I, the undersigned _____

DECLARE

a) that I am aware of the rights and obligations of graduates, specified in the notice of competition for admission to PhD Programmes, XXXIX cycle – A.Y. 2023/2024, on the internet site of the University of Modena and Reggio Emilia: *www.unimore.it*;
b) to have read and fully understood the rules and regulations governing research doctorates, as published on the internet site of the University of Modena and Reggio Emilia: *www.unimore.it*.
c) to hereby provide consent to their personal data being held, including sensitive information, in accordance with EU Regulation 2016/679 and Legislative Decree No.196/2003 as modified by Legislative Decree No. 101/2018, and to be aware that the databank is the property of the University of Modena and Reggio Emilia.

Italian and foreign citizens holding an academic degree awarded abroad are reminded they have to submit their academic transcript of records, together with its legalized Italian translation and the "declaration of equal value" issued by the Italian consular office of the country where the degree was awarded, if it is not already enclosed with the online application form, or certificate of comparability and verification issued by CIMEA as ENIC_NARIC centre, or Diploma supplement for academic degrees awarded in European Union.

Please note that citizens of States that do not belong to the European Union must provide documentation certifying insurance cover for medical treatment and hospitalization, together with a valid residence permit.

Date _____   _____
                                                              Signature