

PhD Course in "Sustainability and ESG agenda"

Coordinator: Professor Alessandra Micozzi - SSD SECS-P/06

Administrative Office: Piazza Mattei, no. 10 - Rome (RM) 00186

Expected course start date: 01 December 2023

Duration: 3 years

CUN Areas: 07 - Agricultural and Veterinary Sciences, 08 - Civil Engineering and Architecture, 09 - Industrial and Information Engineering, 11 - Historical, Philosophical, Pedagogical and Psychological Sciences, 12 - Legal Sciences, 13 - Economics and Statistics, 14 - Political and social sciences.

Curricula:

- ESG strategies and reporting
- Circular economy and technological innovation
- Territorial systems and ESG

Places: n . 16 Total places, of which: 12 with scholarship, 4 without scholarship.

DETAILS OF TOPICS IN THE COMPETITION

- **N. 2 scholarships funded by *Universitas Mercatorum***

Theme of the project: the projects will have to concern the sustainability declined in the economic, social and environmental. Specifically, projects that address impact analysis and sustainable communication will be evaluated; the circular economy with its different declinations (reuse and recycling of materials, sharing economy, the enhancement of the end of life of products); food sustainability; energy efficiency; the design and innovative recovery of structures; the preservation of terrestrial and marine ecosystems; public policies for sustainable development.

Research activities: periods of study and research at the University/ Company/ Public Body/ Research Centers, etc... (divided into the 3 years of the course) ; study and research periods abroad (6 months).

- **N. 1 scholarship for the resources of the PNRR, pursuant to D.M. 117/2023, M4C2 - Inv. 3.3, co-financed by the "*Parco Nazionale d'Abruzzo Lazio e Molise*"**

Project theme: the selected projects will be aimed at training skills related to ESG qualification in the territories of fragile areas of the country, with particular reference to protected natural areas. The research will develop around the competences of territorial analysis in order to identify useful tools of an economic and institutional nature for the qualification of these territories. Particular attention will be paid to the identification of successful and unsuccessful cases in respect of which the results of the research described above can be applied.

Research activities: periods of study and research at the Company (18 months in 3 years); study and research periods abroad (6 months).

- **N. 1 scholarship for the resources of the PNRR, pursuant to D.M. 117/2023, M4C2 - Inv. 3.3, co-financed by the "*TIM Spa*"**

Project theme: the selected projects will be aimed at the implementation of a transition plan and the development of methodologies aimed at measuring Scope 3. Specifically, the projects will involve the reduction of emissions upstream and downstream supply of telecommunications



groups (Scope 3), and mainly concern the supply of products and services, capital goods and equipment, in order to follow a program of progressive decarbonisation of the activities of the production chain, of efficiency of energy consumption of assets, increasing use of renewable energy sources, including self-produced, and the promotion of circular models to reduce waste and exploit resources.

Research activities: periods of study and research at the Company (12 months in 3 years); study and research periods abroad (6 months).

- **N. 1 scholarship for the resources of the PNRR, pursuant to D.M. 118/2023, M4C1 - Inv. 3.4 in "Digital and environmental transitions"**

Project theme: Projects related to the digital transition in terms of sustainability and ESG impacts will be selected. In particular, projects should focus on digital technologies to support organisations in the transition to the ESG sustainability objectives, measuring and assessing how the use of digital technologies can contribute to increasing the sustainability of economic activities in different ways: the transition to more sustainable mobility and energy models, the reduction of waste along the supply chains, efficient (circular) management of process resources.

Research activities: periods of study and research in enterprises or research centers (min. 6 max. 12 months in 3 years); study and research periods abroad (6 months).

- **N. 2 scholarships for the resources of the PNRR, pursuant to D.M. 118/2023, M4C1 - Inv. 4.1 in "PNRR research"**

Project theme: The projects submitted should cover green transition, smart, sustainable and inclusive growth, protection of water and marine resources, transition to a circular economy, waste reduction and recycling, energy efficiency, sustainable network and mobility, pollution prevention, protection and restoration of healthy ecosystems, sustainable agriculture. Particular attention will be paid to projects that aim to exploit research results on the market, in line with Mission 4.

Research activities: periods of study and research at the headquarters of Universitas Mercatorum; study and research periods abroad (6 months).

- **N. 3 scholarships on the resources of the PNRR, pursuant to D.M. 118/2023, M4C1 - Inv. 4.1 in "Public administration"**

Project theme: The projects must be concerned with environmental, economic and social sustainability, on the assumption that it is a fundamental public good, as a *sine qua non* condition for the effective and lasting pursuit of all other public goods. Projects should therefore address environmental issues (energy transformation, sustainable mobility) but also gender and income equalities. One aspect that will be given relevance is the measurement and evaluation of policy impacts.

Research activities: periods of study and research at public administrations, companies or research centers (min. 6 max. 12 months in 3 years); study and research periods abroad (6 months).

- **N. 2 scholarships on the resources of the PNRR, pursuant to D.M. 118/2023, M4C1 - Inv. 4.1 in "Cultural heritage"**

Project theme: projects should address the assessment of how culture and cultural heritage can contribute to achieving inclusive and sustainable development; the regeneration of cities and regions through cultural heritage; the promotion and reuse of heritage buildings; maintaining the right balance between the need to encourage tourism and the need to preserve cultural heritage. In this sense, programmes relating to access to cultural heritage with sustainable cultural tourism will be enhanced.

Research activities: periods of study and research in companies, research centers or public administrations, including museums, institutes and training institutions of the Ministry of Culture, archives, libraries, (min. 6 max. 12 months in 3 years); study and research periods abroad



(6 months).

- **N. 4 places without scholarship**

Theme of the project: free.

Research activities: periods of study and research at the University/ Company/ Public Body/ Research Centers, etc... (divided into the 3 years of the course) ; study and research periods abroad (6 months).

Admission requirements: Possession, by 31.10.2023, of one of the following master's degrees or corresponding degree obtained according to previous legislation:

- LMG/01 Class of master's degrees in law
- LM-1 Cultural Anthropology and Ethnology
- LM-2 Archaeology
- LM-3 Architecture of the landscape
- LM-4 Architecture and Building Engineering-Architecture
- LM-4 c.u. Architecture and construction engineering-architecture (five years)
- LM-6 Biology
- LM-7 Agricultural Biotechnology
- LM-8 Industrial biotechnology
- LM-9 Medical, Veterinary and Pharmaceutical Biotechnology
- LM-10 Conservation of architectural and environmental heritage
- LM-11 Sciences for the conservation of cultural heritage
- LM-12 Design
- LM-13 Pharmacy and industrial pharmacy
- LM-13. Pharmacy and industrial pharmacy
- LM-16 Finance
- LM-17 Physics
- LM-18 Informatics
- LM-20 Aerospace and Astronautical Engineering
- LM-21 Biomedical Engineering
- LM-22 Chemical Engineering
- LM-23 Civil Engineering
- LM-24 Building Systems Engineering
- LM-25 Engineering of Automation
- LM-26 Safety Engineering
- LM-27 Engineering of Telecommunications
- LM-28 Electrical Engineering
- LM-29 Electronic Engineering
- LM-30 Energy and Nuclear Engineering
- LM-31 Management Engineering
- LM-32 Computer Engineering
- LM-33 Mechanical Engineering
- LM-34 Marine Engineering
- LM-35 Engineering for the environment and the territory
- LM-44 Mathematical-physical modelling for engineering
- LM-48 Urban and environmental spatial planning
- LM-49 Design and management of tourist systems
- LM-51 Psychology
- LM-53 Materials Science and Engineering
- LM-54 Chemical Sciences
- LM-56 Sciences of Economics
- LM-58 Sciences of the Universe
- LM-59 Public, Business and Advertising Communication Sciences



LM-60 Sciences of Nature
LM-61 Sciences of Human Nutrition
LM-62 Science of Politics
LM-63 Public Administration Sciences
LM-69 Agricultural Sciences and Technologies
LM-70 Food Science and Technology
LM-71 Science and Technology of Industrial Chemistry
LM-72 Navigation Science and Technology
LM-73 Forest and Environmental Science and Technology
LM-74 Geological Sciences and Technologies
LM-75 Sciences and technologies for the environment and the territory
LM-76 Economics for the Environment and Culture
LM-77 Economics and Business Sciences
LM-79 Geophysical sciences
LM-80 Geographical Sciences
LM-81 Sciences for Development Cooperation
LM-82 Statistical Sciences
LM-83 Actuarial and Financial Statistics
LM-88 Sociology and Social Research
LM-91 Techniques and methods for the information society
LM-92 Theories of Communication
MRL/02 Conservation and restoration of cultural heritage
LM/GASTR Economic and social sciences of gastronomy
LM/SC-GIUR Legal Sciences
LM Sc. Mat. Materials Science
LM Data Data science
LM-53. Materials Engineering
1/S (specializing in cultural anthropology and ethnology)
2/S (specialised in archaeology)
3/S (specialist in landscape architecture)
4/S (specialized in architecture and building engineering)
5/S (specializing in archiving and librarianship)
6/S (specialized in biology)
7/S (specialists in agricultural biotechnology)
8/S (specialists in industrial biotechnology)
10/S (specialized in architectural and environmental conservation)
11/S (specialized in conservation of scientific assets and industrial civilization)
12/S (specialized in conservation and restoration of the historical-artistic heritage)
13/S (specialized in publishing, multimedia communication and journalism)
19/S (specialized in finance)
20/S (specialist in physics)
21/S (specialist in geography)
22/S (specialist in jurisprudence)
23/S (specialists in computer science)
25/S (specialist in aerospace and astronautical engineering)
26/S (specialist in biomedical engineering)
27/S (specialized in chemical engineering)
28/S (specialised in civil engineering)
29/S (specialists in automation engineering)
30/S (specialist in telecommunications engineering)
31/S (specialist in electrical engineering)
32/S (specialist in electronic engineering)
33/S (specialists in energy and nuclear engineering)
34/S (specialized in management engineering)
35/S (specialist in computer engineering)
36/S (mechanical engineering specialists)



- 37/S (specialist in naval engineering)
- 38/S (specialized in engineering for the environment and the territory)
- 48/S (specialized in methods for evaluating complex systems)
- 49/S (specializing in methods for empirical research in the social sciences)
- 50/S (specialized in mathematical-physical modelling for engineering)
- 54/S (specialised in urban and environmental spatial planning)
- 55/S (specialists in tourism system design and management)
- 58/S (specialized in psychology)
- 59/S (specialized in advertising and business communication)
- 60/S (specialist in international relations)
- 61/S (specialist in materials science and engineering)
- 62/S (specialist in chemical sciences)
- 63/S (specialist in cognitive sciences)
- 64/S (specializing in economics)
- 66/S (specializing in universe sciences)
- 67/S (specializing in social and institutional communication sciences)
- 68/S (specialist in nature sciences)
- 69/S (specialist in the sciences of human nutrition)
- 70/S (specializing in political science)
- 71/S (specialist in public administration sciences)
- 74/S (specialist in science and management of rural and forest resources)
- 77/S (specializing in agricultural sciences and technologies)
- 78/S (specializing in agro-food sciences and technologies)
- 79/S (specialized in agricultural sciences and technologies)
- 80/S (specializing in science and technology of navigation systems)
- 81/S (specializing in sciences and technologies of industrial chemistry)
- 82/S (specialized in sciences and technologies for the environment and the territory)
- 83/S (specializing in economics for the environment and culture)
- 84/S (specializing in business studies)
- 85/S (specialist in geophysical sciences)
- 86/S (specialist in geological sciences)
- 88/S (specialist in science for development cooperation)
- 89/S (specializing in sociology)
- 90/S (specialized in demographic and social statistics)
- 91/S (specialists in economic, financial and actuarial statistics)
- 92/S (specialized in statistics for experimental research)
- 100/S (specialized in techniques and methods for the information society)
- 101/S (specialized in communication theory)
- 102/S (specialized in theory and techniques of standardization and legal information)
- 103/S (specialized in industrial design theories and methods)
- LMG/01 CASE LAW)
- MRL/02 Conservation and restoration of cultural heritage)

In the case of a qualification obtained abroad, the assessment of the requirement will be carried out by the Selection Board.

Other requirements for foreign students:

- qualification obtained abroad recognized as equivalent to the Italian title for the purposes of enrolling in the doctorate;
- certified knowledge of the Italian language (level B1).

How to select:

- **Evaluation of qualifications**, including the compulsory submission of a research project prepared according to the indications of the competition;
- **Interview** that will be carried out in the manner indicated by art. 6 of the notice of competition;



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- **Language proficiency:** English language. For foreign candidates will also be evaluated the knowledge of the Italian language.

Procedures and timing of tests:

will be published in the dedicated web page <https://www.unimercatorum.it/iscriversi-a-un-dottorato>

Web page of the PhD:

<https://www.unimercatorum.it/dottorato-di-ricerca-in-big-data-e-intelligenza-artificiale>

Useful contacts: dottorati@unimercatorum.it