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SHEET D

DOCTORAL COURSE IN “ECONOMICS AND FINANCE OF TERRITORIAL SUSTAINABILITY AND WELL-BEING”

Course: XXXVIII

Estimated starting date of the course: 1/11/2022

Coordinator: Professor Roberto Leonardo Rana (PO) – Area 13 SSD SECS-P/13 – University of Foggia

Science fields of study: SECS-P/01 (area CUN 13A1); SECS-P/11 (area CUN13B4); IUS/01 (area CUN 12A1); SECS-P/06 (area CUN 13A4); AGR/01 (area CUN 07A1); SECS-P/13 (area CUN 13B5); M-GGR/02 (area CUN 11B1); SECS-S/01 (area CUN 13D1).

Administrative headquarters: DEPARTMENT OF ECONOMICS – UNIVERSITY OF FOGGIA

Length: 3 years

Curricula: NO

Total number of positions available No. **9** of which:

- No. 2 positions through scholarships granted by the university;
- No. 1 position through scholarship granted by Ministerial Decree No. 351/2022:
Within the scope of: public administration;
- No. 4 positions through scholarships granted by Ministerial Decree No. 352/2022:
No. 1 grant co-financed by: ARACE LABORATORI s.r.l.;
No. 1 grant co-financed by: AGRICOLTURA È VITA s.r.l.;
No. 1 grant co-financed by: MARZOTTO VENTURE ACCELERATOR S.R.L.;
No. 1 grant co-financed by: VIGNAIOLI PUGLIESI s.r.l.
- NO. 2 positions without scholarship.

Short description of the research projects:

Production systems and territories are called upon to respond to historic events such as climate change, the loss of biodiversity, the excessive consumption of natural resources, the increasing need for supplies from renewable energy sources, the excessive production of waste materials, robotization, mass migrations, etc., which impose inevitable transition paths both locally and globally. The growing complexity of these phenomena poses increasingly difficult challenges that require multidisciplinary approaches capable of providing adequate tools that take into account the social, environmental and economic dimensions of territorial systems. Likewise, the dynamics of these systemic dimensions and the related interconnections depend on the internal and external balance that is the foundation of the sustainability concept, an essential requirement for preserving the future of the territories and guaranteeing their survival. The problems highlighted above are severely compromising the sustainability of the systems and bring out the urgent need for interventions aimed at making territorial systems resilient, a basic feature to make a continuous and constant redefinition of social, environmental and economic balance over time and space. This means that the social and economic actors, who determine the fate of these systems through their choices, must be able to promptly and comprehensively undertake adaptation paths to activate measures aimed at mitigating risks and to react to unexpected external shocks. In response to these scenarios, the European Commission, alongside the 2021-2027 Multiannual Financial Framework, has designated an extraordinary and ambitious plan called NextGenerationEU which allocates about 800 billion euros and intends to launch a process, within the European territory, characterized by an economic growth decoupled from the consumption of resources and with a low environmental impact. Almost all of the resources are channeled to the Member States through the “Recovery and Resilience Facility” plan, interpreted at national level with the National Recovery and Resilience Plans – I Piani Nazionali di Ripresa



e Resilienza (PNRR). These are based on guidelines which, regardless of the type of territorial / sector system, impose paths aimed at territorial convergence and the so-called twin transitions: environmental and digital. In this regard, this research doctorate (CdDR) aims to develop highly qualified skills at the service of the implementation of the Italian PNRR, and in line with the National Research Program (PNR) 2021-2027, with a specific focus on economic sustainability-financial systems and territories. This is an educational offer developed on two main themes. The first relates to the development of multidisciplinary skills aimed at analyzing the social, environmental, economic-financial and legal sustainability of these systems / territories. The objective is to provide, in compliance with internal and community regulatory sources, as well as constitutional principles and international treaties, solutions for the implementation of sustainable development through the use of territorial / sector models and quantitative approaches that best approach the various transitions. On the other hand, the second one focuses on strengthening those skills aimed at developing quantitative mathematical-statistical as well as economic policy methods and tools, which serve to facilitate the real implementation of territorial development models envisaged in the first part of the educational offer. Both themes are, therefore, complementary and reciprocal. This reciprocity is to the benefit of the interdisciplinarity recalled in the PNR 2021-2027. Leveraging the latter, another transversal element concerns the type of research projects, proposed by the doctoral students, which will be approved. In fact, they will be in line with the Mission-Oriented Research and Innovation Policy (MOIP) approach, whose assumption is that they are oriented towards the pursuit of innovative processes which will not be measured only in intensity but also in the direction pursued. It must be guided by the ambitious missions outlined by the European macro-policies (e.g. Green Deal, Horizon Europe missions, EU's digital strategy, etc.) and by the 17 Sustainable Development Goals (SDGs) framed in the United Nations 2030 Agenda. This strategic structure allows for a synergistic interconnection of the objectives of horizontal policies, such as research and innovation, training, skills, apprenticeship, with the vertical ones, such as environment, energy, work, etc.

Short description of the research projects referred to in the PNRR (Ministerial Decrees 351 and 352 of 2022):

The course offers a real and tangible answer to the various missions, vertical and horizontal, of the PNRR. In fact, through the research projects proposed by the doctoral students, we intend to: a) identify the factors that activate these missions; b) implement models to achieve them; c) and propose analytical tools and policy configuration to facilitate them. In addition, thanks to the PhDs who will earn the title, it will be possible to provide support for the actions financed by the PNRR and to allow for the transmission of the research results to the territorial productive pattern.

More specifically, the course intends to support the following vertical missions:

- ✓ *Mission 1* (Digitalization, Innovation, Competitiveness, Culture and Tourism), with a specific focus on the M1C2 component (Digitalization, Innovation and Competitiveness in the Production System). The skills useful to strengthen the competitiveness and sustainability of the territories will be enhanced through the use of the most recent digital technologies. In particular, issues relating to the technological and social innovation of the territories will be addressed, a fundamental tool for guiding these areas towards objectives of sustainability and common well-being.
- ✓ *Mission 2* (Green revolution and ecological transition), with a focus on the M2C1 (Sustainable and circular agriculture), M2C2 (Energy transition and sustainable mobility) and M2C4 (Protection of the territory and water resource) components. Training and research courses will be developed to help implement the paradigm of the circular economy and energy autonomy through a transformation of the production system, greater protection of environmental resources and careful and conscious risk management. At this stage, the implementation processes that take into account internal, European and international regulatory sources will also be identified.
- ✓ *Mission 4* (Education and research), with a focus on the M4C2 component (From research to business). The doctoral course will, in fact, be in the form of an industrial doctorate and will have among its main institutional objectives the strengthening of technology transfer mechanisms as well as greater interaction between research and business, with the due study of proper legal, contractual and corporate instruments suitable for the purpose. Furthermore, specific training courses will be provided to promote the entrepreneurial attitudes of doctoral students in order to support the creation of highly innovative start-ups in the area.
- ✓ *Mission 5* (Inclusion and cohesion), in particular the M5C1 (Labor policies) and M5C3 (Special interventions for territorial cohesion) components. The course intends to promote the employment



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of high-profile professionals within the territorial production system, necessary to guide the transitions towards sustainability and well-being objectives. In this way, it also intends to reduce the existing technological gap, especially in the southern regions of the country, between labor supply and demand, thus favouring the absorption of the most advanced human capital. A further objective of the course will be to design the economic and social development policies necessary to strengthen territorial cohesion. Finally, the doctoral course will aim to contribute to the reduction of gender, age and territories inequalities. The reduction of these inequalities is, in fact, an essential condition for achieving full sustainability and common well-being of the territories.

Admission prerequisites:

All Master's Degrees or the corresponding Postgraduate Degrees or the corresponding Degrees obtained according to the system prior to Ministerial Decree 509/99 or the corresponding equivalent qualifications.

Admission procedures:

The selection will be based on the assessment of qualifications, research project and oral exam.

During the oral exam, the research project presented by the candidate at the time of the application will also be discussed and the knowledge of the English language will be ascertained.

The assessment will take place pursuant to art. 6 of the selection notice.

Test completion methods for foreign candidates:

Foreign candidates can choose to take the admission test in English.

Admission test calendar and venue:

Oral test: 19 September 2022 at 11.00.

Test venue: the oral test will take place online for all candidates. The email address provided by the candidate will be used to arrange the platform and the related *virtual rooms* for connection.

For further information please visit:

<https://www.unifg.it/it/studiare/post-lauream/dottorati-di-ricerca>