PHD PROGRAM IN
ECONOMICS, MANAGEMENT AND QUANTITATIVE METHODS

Coordinator	Prof. Giulio Guarini
Departments	Department of Economics, Engineering, Society and Business Organization in collaboration with the Department of Agriculture and Forest Sciences and the Department for Innovation in Biological, Agro-Food and Forest Systems
Program duration	3 years: 1st November 2024 – 31st October 2027 Thesis Defence: within December 2027
Program objectives	The PhD program offers a path of advanced training in the economic, business, and mathematical-statistical areas for profiles capable of understanding the challenges affecting today's economy: socio-environmental sustainability of economic development and the use of natural resources; transformation of production, consumption, labour market, and markets as a consequence of innovation. The PhD program brings together the knowledge of the College's teachers on 3 curricula: 1) Agri-food economics and policy. The curriculum specializes in the economic analysis of agri-food systems, the policies aimed at them and the interdependencies with overall economic development at a global and local level. The sectoral characterization of the curriculum is motivated by the role that the agri-food sector plays in responding to some strategic problems of our societies such as those of the security of food supplies and food quality, of territorial governance in land use, of the ecological transition and of the development of rural areas. 2) Management. The curriculum intends to offer a multidisciplinary training path linked to managerial studies which includes a wide range of research areas such as: corporate governance and strategy, models of excellence for global competition, environmental, ethical and social corporate responsibility, technological innovation, digital transformation, new circular business models, quality management. The objective of the curriculum is to develop theoretical and methodological skills necessary to manage and understand the various business phenomena and the new challenges that companies are facing. 3) Economics and statistics. The curriculum is specialized in the study and analysis, through economic and statistical-econometric theories, models and methods, of socio-economic and monetary-financial phenomena, at a macro-, meso- and micro-economic level. The topics, addressed with a plurality of approaches and relevant not only for academia but also for institutions, the productive world and civil society, take into account the great challenges of contemporary economies, including sustainable development, in its various declinations, social inclusion and innovation, also in policy implications. The 3 curricula are based on interdisciplinary training on frontier economic theories, in the common use of quantitative methods as a tool for analyzing

	and interpreting data functional to the carrying out of research and the solution of economic, business and economic policy problems.		
No. of positions	**Total positions**	12	
	A) Position with PNRR DM 629/2024 scholarship	1	M4C1 Inv. 4.1 PA
	B) Position with PNRR DM 630/2024 scholarship	1	M4C2 Inv. 3.3
	C) Position with scholarship co-financed by CREA - Agricultural Policies and Bioeconomy	1	
	D) Positions with scholarship co-financed by public and private bodies and University	6	
	E) Positions reserved for employees of companies which perform research and development activities	2	Industrial PhD reserved to Universal Copy Srl and Golden Moments Worldwide LTD employees
	F) Position reserved reserved for a staff unit of Hanoi University	1	
Curricula (In the application form the candidate must specify the curriculum of interest)	**"Agri-food economics and policy" Curriculum** n. 3 positions with scholarship		
	"Management" Curriculum n. 7 positions with scholarship		
	"Economics and statistics" Curriculum n. 2 positions with scholarship		
Position with PNRR PA DM 629/2024 scholarship	M4C1- Inv. 4.1 "Research Doctorates for Public Administration" n. 1 scholarship financed with PNRR funds – DM 629/2024. **"Management" Curriculum** Research topic: "Government by algorithm: challenges for the "intelligent" use of digital transformation and AI algorithms in the implementation of Public financial management (PFM) tools for the creation of public value" Advisor: Prof. Vincenzo Sforza		
Position with PNRR DM 630/2023 scholarship	M4C2 – Inv. 3.3 "Innovative doctorates aimed at strengthening the demand of innovation of enterprises and promoting the employment of researchers by enterprises" n. 1 scholarship financed with PNRR funds – DM 630/2024. **"Management" Curriculum** Research topic: "Enhancement, innovation and sustainability of the use of biomass waste." Co-funding company: Gentoxchem S.r.l., Viterbo Advisor: Prof. Alessandro Ruggieri		
	Please note that the acceptance of a PNRR scholarship implies obligations additional to those of a regular scholarship: see art. 16 of this Call.		
No. 1 scholarship co-financed by CREA - Agricultural Policies and Bioeconomy	N. 1 scholarship co-financed by CREA-PB: **"Agri-food economics and policy" Curriculum** Research topic: "Innovation for sustainability in European agricultural policies" Advisor: Prof. Alessandro Sorrentino		

No. 6 scholarships co-financed public and private bodies and University	No. 6 co-financed scholarships: **"Management" Curriculum** Research topic: "Circular Economy models for integrated supply chains and logistics infrastructures" co-financed by Sogesid SpA, Rome Advisor: Prof. E.M. Mosconi **"Economics and statistics" Curriculum** Research topic: "A compreHensive Analysis for promoting evidenCe-based policies to tackle and alleVIAte transport poverty: HAC VIA (PRIN 2022)" Advisor: Prof. L. Secondi **"Agri-food economics and policy" Curriculum** Research topic: "Economic analysis relating to agri-food production practices aimed at supporting sustainability" Advisor: Prof. S. Severini **"Economics and statistics" Curriculum** Research topic: "Macro and Firm-specific News impact over stock market: Portfolio allocation schemes and the mitigation role of the CSR" co-financed by Marzotto Venture Accelerator Srl RM and by Resilience Srl RM. Advisor: Prof. G. Galloppo **"Management" Curriculum** Research topic: "Innovation, quality and sustainability for the competitiveness of the olive oil supply chain." Advisor: Prof. A. Ruggieri **"Management" Curriculum** Research topic: "Circular Economy and Integrated Management Systems: inter-relationships for new circular business model" co-financed by DIMAR Group S.p.A., Valentano VT. Advisor: Prof. A. Ruggieri
No. 2 positions allocated to the Industrial PhD Programme	**"Management" Curriculum** no. 1 position reserved for employees of the **Universal Copy Srl** for research project on topic related to "The study, research and implementation of new businesses in the field of office automation to complement the company's core business and possible development of a new social sustainability certification." Advisor: Prof. A. Ruggieri **"Management" Curriculum** no. 1 position reserved for employees of the **Golden Moments Worldwide LTD (UK)** for research project on topic related to "Use and development of

	the Lean Management Model in Services and Tourism". Advisor: Prof. A. Ruggieri
Position reserved for academic/administrative staff or fellows from Hanoi University	**"Agri-food economics and policy" Curriculum** Research topic: "Prospects and evolution of the agri-food sector in Vietnam" Advisors: Prof. S. Severini and Prof. B. Pancino
Admission requirements	Admission is open to candidates of any nationality and age who have one of the following requirements by the deadline of the call for application: ▪ Italian degree "Laurea Vecchio Ordinamento" ▪ Italian degree "Laurea Specialistica" or "Magistrale" ▪ International academic qualification (degree) awarded in a foreign University or in the context of inter-university cooperation and mobility agreements. Admission is also open to students will obtain their degree within October, 31st 2024. The candidate, together with the admission application, must indicate the curriculum for which he/she is applying and submit research project (max 8000 characters) on a topic of his/her interest to be discussed in the oral exam.
Evaluation of candidates (maximum score: 80 out of 80)	Evaluation of academic qualification. Oral examination and verification of knowledge of English language. The evaluation of the academic qualifications is preliminary to the oral exam. The oral exam will be carried out in presence at the Department's rooms or online, where appropriately justified, and will cover: a) the discussion of the research project submitted by the candidate; b) the verification of knowledge in the subjects of the curriculum chosen by the candidate; c) the discussion of the curriculum submitted by the candidate, aimed at assessing the motivation and aptitude for scientific research in the topic related to the PhD Program. During the oral exam, knowledge of the foreign language (English) will also be evaluated. The final ranking will be based on the sum of the scores reported in the evaluation of academic qualifications and oral exam. The overall results of the evaluation, with the partial and final scores, will be published on the Ph.D web page.
Evaluation of academic qualification (maximum score: 24 out of 80)	Topic and contents of the master's degree thesis (or single-cycle degree): up to a maximum of 6 points. University career (exams and degree grade): up to a maximum of 6 points. Scientific publications concerning the fields of the PhD program: up to a maximum of 6 points. Professional experience and other qualifications held by the candidate: up to a maximum of 6 points.
Evaluation of the oral exam (maximum score: 56 out of 80)	Oral exam: maximum score 56 out of 80 points Minimum score, acquired in the evaluation of qualifications, to access the oral exam: 8/80.
Topics of the oral examination	The interview, in addition to providing motivational elements on the choice of this PhD program, will focus on a discussion of the research project

	presented and on theoretical notions and concepts in the subjects relevant to the themes of the three doctoral curricula.
	More specifically:
	"Agri-food economics and policy" curriculum. The oral exam will cover two of the following subjects chosen by the candidate: Political economy, Economic policy, Economics and politics of the agri-food sector, Economics and management of agricultural companies, Agri-food systems and supply chains, Agriculture and economic development, Economics and politics of environment and natural resources, bioeconomy, economic statistics/econometrics.
	"Management" curriculum. The oral exam will cover the following subjects: business sciences with particular reference to corporate governance and strategy, models of excellence for global competition, environmental responsibility, ethics and corporate social responsibility, technological innovation, digital transformation, new circular business models, management of quality.
	"Economics and Statistics" curriculum. The oral exam will cover the following subjects: Political Economy, Economic Policy, Applied Economics, Statistics, Economic Statistics and Econometrics with particular reference to the different aspects of sustainable development, social inclusion and innovation.
Exam dates and location	The exams will be held by 12 September 2024. The schedule of the oral exam will be published on the Ph.D web page by the deadline of the application call.
Contact details for information	Prof. Giulio Guarini (Coordinator), e-mail: giulioguarini@unitus.it Prof. Barbara Pancino (vice coordinator), e-mail: bpancino@unitus.it Prof. Simone Severini (curriculum coordinator "Agri-Food Economics and Politics"), e-mail: severini@unitus.it Prof. Alessandro Ruggieri (curriculum coordinator "Management"), e-mail: ruggieri@unitus.it Prof. Luca Secondi (curriculum coordinator "Economics and Statistics"), e-mail: secondi@unitus.it