



**PhD IN
CIRCULAR ECONOMY
OVERVIEW**

IN BRIEF

Lines of research

CURRICULUM: Economics & Circular Economy

- 1 Circular Economy
- 2 Resource And Environmental Economics
- 3 Inter And Intra-Generational Conflicts And Resource Use
- 4 Economic Evaluation Of Externalities And Environmental Damage
- 5 Willingness To Pay
- 6 Energy Economics, With Special Reference To Renewable Energy Sources
- 7 Sustainable Mobility, Decarbonizing Transport
- 8 Impact Of Green Deal On The Industrial System
- 9 Effectiveness Of Fiscal Policies (Optimal Thresholds For Public Debt And Spending) In Presence Of Non-Renewable Resources
- 10 Sustainable Agri-Food System And Food Waste

CURRICULUM: Circular Business Models

- 1 Sustainable Strategies
- 2 Innovability
- 3 Circular Business Model
- 4 Supply Chain Sustainability
- 5 Environmental, Social, Governance Scores (ESG)
- 6 Non-Financial Disclosure
- 7 GRI Standards
- 8 Mindful And Sustainable Consumption
- 9 Integrated Reporting
- 10 Green Advertising

CURRICULUM: Statistical and Quantitative Methods for Sustainability and Risk Assessment

- 1 Fair Pricing Of Life And Non-Life Insurance Contracts
- 2 Mortality Modelling
- 3 Catastrophe, Climate And Environmental Risk Modelling
- 4 Insurance De-Risking
- 5 Responsible Investing And ESG Portfolios
- 6 Statistical Models For The Analysis Of Climate And Weather Events
- 7 Multivariate Dependence Modelling Of Extremes In Environmental Applications
- 8 Supervised And Unsupervised Statistical Learning Techniques For Environmental Risk Assessment And Management

	9	Statistical Methods For Investigating Sustainable Energy Systems
	10	Sustainability Indicators
Administrative location	University of Trieste	
Organizing Department	Department of Economic, Business, Mathematical and Statistical Sciences	
Duration	3 years	
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	0 – 18	
Official language	English	
Subject Areas (in alphabetical code order)	07	AGRICULTURAL AND VETERINARY SCIENCES
	09	INDUSTRIAL AND INFORMATION ENGINEERING
	13	ECONOMICS AND STATISTICS
Macro Research Fields (in alphabetical code order)	07/A	AGRICULTURAL ECONOMICS AND APPRAISAL
	09/E	ELECTRICAL AND ELECTRONIC ENGINEERING AND MEASUREMENTS
	13/A	ECONOMICS
	13/B	BUSINESS ADMINISTRATION AND MANAGEMENT
	13/D	STATISTICS AND MATHEMATICAL METHODS FOR DECISIONS
Scientific Disciplinary Sectors (in alphabetical code order)	AGR/01	AGRICULTURAL ECONOMICS AND RURAL APPRAISAL
	ING-IND/31	ELECTRICAL ENGINEERING
	SECS-P/01	ECONOMICS
	SECS-P/02	ECONOMIC POLICY
	SECS-P/06	APPLIED ECONOMICS
	SECS-P/07	BUSINESS ADMINISTRATION AND ACCOUNTING STUDIES
	SECS-P/08	MANAGEMENT
	SECS-P/09	CORPORATE FINANCE
	SECS-P/10	ORGANIZATION AND HUMAN RESOURCE MANAGEMENT
	SECS-P/11	FINANCIAL MARKETS AND INSTITUTIONS
	SECS-S/01	STATISTICS
	SECS-S/05	SOCIAL STATISTICS
	SECS-S/06	MATHEMATICAL METHODS OF ECONOMICS, FINANCE AND ACTUARIAL SCIENCES
Domain European Research Council	SH	SOCIAL SCIENCES AND HUMANITIES
ERC Panels	SH1	INDIVIDUALS, INSTITUTIONS AND MARKETS: ECONOMICS, FINANCE AND MANAGEMENT

WHO'S WHO

Chair	Prof. Guido Bortoluzzi - Department of Economic, Business, Mathematical and Statistical Sciences - University of Trieste - phone +39 040 5583130; email guido.bortoluzzi@deams.units.it
Vice	Prof. Pietro Millosovich - Department of Economic, Business, Mathematical and Statistical Sciences - University of Trieste - phone +39 040 5588016; email PIETRO.MILLOSSOVICH@deams.units.it
Advisor curriculum Economics & Circular	Prof. Francesco Magris - Department of Economic, Business, Mathematical and Statistical Sciences - University of Trieste - email francesco.magris@deams.units.it

Economy	
Advisor curriculum Circular Business Models	Prof. Paola Rossi - Department of Economic, Business, Mathematical and Statistical Sciences - University of Trieste - email prossi@units.it
Advisor curriculum Statistical and Quantitative Methods for Sustainability and Risk Assessment	Prof. Pietro Millossovich - Department of Economic, Business, Mathematical and Statistical Sciences - University of Trieste - phone +39 040 5588016; email PIETRO.MILLOSVOVICH@deams.units.it
PhD Academic Board	List of members
Web site	https://web.units.it/dottorato/circulareconomy/
Email	phd.circulareconomy@units.it
Course description and objectives	<p>The PhD course in Circular Economy UniTS (CE.TS) is a newly activated three-year doctorate, entirely organized in English. It aims to create experts who contribute to the advancement of scientific knowledge in various sectors and disciplinary areas through the correct use of methodologies and methods of economic and social research. The sectors and disciplinary areas are joint by a common denominator: the Circular Economy paradigm.</p> <p>The doctorate is organized in three curricula: an economics curriculum (Economics & Circular Economy), a managerial curriculum (Circular Business Models) and a statistical-actuarial curriculum (Statistical and Quantitative Methods for Sustainability and Risk Assessment). The PhD is organized as follows: in the first part that is common to the three curricula students receive epistemological and methodological education with the aim to develop solid methodological and research design foundations. Students then start following different paths according to the curriculum they belong to. Within each curriculum, students first receive education about the theoretical groundings of each disciplinary area with the aim to consolidate their knowledge about the theories, the models and the main paradigms that are proper of their disciplines. Once such "horizontal" training has been completed, each student will be able to complete his/her training in a "vertical" and modular way by adding additional courses around his/her specific research areas and research topics. The CE.TS PhD program is endowed with a particularly innovative training structure and a strong openness to the territorial stakeholders (companies, public bodies and associations, research centers) from which it intends to be supported through doctoral scholarships (including industrial scholarships) and with whom it intends to establish long-lasting relationships of mutual satisfaction. While relying on this "local" network, the CE.TS PhD course is also an open and international doctorate: for the language used, for the board of lecturers and for the participants.</p>
Job placement opportunities	The PhD course in Circular Economy UniTS (CE.TS) aims to train experts who can contribute to the development of the scientific debate but also to contribute to public policies and corporate strategies related to the paradigm of the circular economy. In particular, students who are more oriented towards an academic career will find in the CE.TS doctorate a suitable vehicle for accelerating their academic career at an international level. This in order to be hired by universities of high standing at the global level. The students who are more oriented towards a business career (including students from an industrial PhD course) will find in the CE.TS PhD a place that will provide them with solid methodological and theoretical foundations needed to take strategic decisions or to define support policies which are scientifically grounded.
Main cooperating international Universities and Research Institutions	<ol style="list-style-type: none"> 1 University of Ljubljana - School of Economics and Business, Slovenia 2 Adam Smith Business School, United Kingdom 3 Brunel University, United Kingdom 4 The Business School (formerly Cass), United Kingdom 5 University of Orleans, France