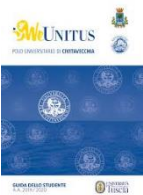




UNIVERSITÀ DEGLI STUDI DELLA TUSCIA



Interactive brochure of the
[Circular Economy Master's Degree](#)



ECONOMICS, ENGINEERING, SOCIETY AND BUSINESS ORGANIZATION



[Coronavirus indications](#)

[Video Of the Chairman of the Course](#)

Master's Degree Circular Economy -- LM-76 Class

CFUs: 120

Circular Economy master's degree programme touches on specific aspects of Circular Economy aiming to provide students with a series of innovative tools to operate in a context of economic and environmental sustainability. Timely and challenging themes on the enhancement of self-sustainability, natural resources, use of secondary and critical raw materials, sustainable management of the value chain as well as the activation of industrial symbiosis will be explored in a cross-sectoral dimension. Students will be surrounded in a multidisciplinary environment, learning the best practices, choices thought for the sustainability strategies and will interact with the most experienced and talented organizations in facing environmental challenges and building the circularity. Equipping the student to operate consciously in different areas, often heterogeneous among them, integrating technological innovation, new skills in activities of productive reconversion and sustainable development.

The structure of the course: [Two Curricula](#)

The course is designed with a common path the 1st year (60 ECTS), oriented to the learning of themes, methods, and tools often used in a circular approach to the economy. At the 2nd year **two alternative paths and each student can opt for one of them:**



[General contents of the course and training objectives](#)

[Structure of the courses and semesters](#)

[OUTCOMES](#)

Students can take all courses online (at distance) or in presence.

[ENTRY REQUIREMENTS](#)



Outcomes

Our graduates have the capability to develop, produce, and support the economic systems toward the transition to the environmental self-sustainability **The main areas of employment** that can potentially be activated by this degree course are numerous and innovative, and concern:

the analysis and management of environmental resources, environmental systems, and the territory;

the management of innovative industrial processes;

the management of the recovery and reuse of agricultural resources and sub-products;

the management of the recovery and reuse of industrial resources and sub-products;

the sustainable management of tourism, with particular attention to the one connected to the sea;

the management of eco-sustainable logistics and port processes;

the management of the marine industry and services with a specific view to eco-sustainability;

the analysis and the study of consumer behavior, with particular attention to green products and services;

the start-up and spin-off development characterized by the eco-sustainability of the products;

the prediction of sustainable future economic scenarios and the impact of eco-sustainable innovations;

interventions on the production of goods and services aimed at applying circular economy in local production contexts;

interventions on the production of goods and services aimed at applying environmental quality improvement;

innovation and sustainability of brokerage activities;

realization and evaluation of environmental impact studies, strategic assessment, and environmental risk, as well as safety and related activities;

monitoring and management of waste recycling and valorization activities;

eco-innovation and eco-design activities;

environmental cost-benefit analysis.

The general contents of the course are those foreseen by the degree program of LM-76 class , which, due to its characteristics, is the most suitable for hosting such a project, with adequate space for economic, business, legal and quantitative disciplines, supplemented by an in-depth analysis on environmental and cultural issues, and on technological, engineering and naturalistic profiles, essential to provide students with a complete picture of the current approach to circular economy.

With regards to the **training objectives**, graduates of the second cycle degree program must:

- be able to analyze, control and manage the value chains of different product sectors;
- have a solid cultural preparation with a systemic focus on the environment and a good methodological mastery;
- have the ability to identify, evaluate and manage industrial symbiosis between related sectors;
- know and be able to develop methods and techniques for the analysis of production systems;
- know the methodologies and use the technologies to favor product service system logics;
- know how to deal with problems related to monitoring, control and management of the environment and the territory;
- have skills for the evaluation of resources and environmental impacts, including the formulation of models and the use of conceptual and methodological tools provided by the economy, law and environmental planning.
- Possess good writing and oral skills in at least one language of the European Union, in addition to Italian.



The Green curriculum is focused on industrial production in a circular vision, where each process is characterized by a sustainable approach through the minor use of traditional raw materials, the use of new forms of energy, recovery, and recycling, the use of natural substances and reuse of waste from other sectors, and it is therefore called the "green economy". [Watch at the structure of the courses](#)

The Blue curriculum is oriented towards a circular approach to the economy of the sea, in all its forms, tourism, nature, logistics, trade, and therefore called the blue economy '.

[Watch at the structure of the courses](#)



Structure and Courses

Students can take all courses online (at distance) or in presence.

The Green



Course	Professor	Year	Semester
CONSUMER BEHAVIOUR IN THE CIRCULAR ECONOMY	contratto	1	1
CORPORATE SOCIAL AND ENVIRONMENTAL RESPONSIBILITY	contratto	2	2
TECHNOLOGY INNOVATION FOR A CIRCULAR ECONOMY	Enrico M. Mosconi	1	2
RESOURCES, WASTE AND ENVIRONMENTAL MANAGEMENT	Alessandro Ruggieri	2	2
POLITICAL ECONOMY OF NATURAL RESOURCES AND ENVIRONMENT	Giacomo Branca	1	1
MICRO AND MACROECONOMICS OF THE CIRCULAR ECONOMY	contratto	1	2
ECONOMETRIC PERSPECTIVES ON CIRCULAR ECONOMY	contratto	1	2
ENVIRONMENTAL LAW	contratto alta qualificazione	2	2
BIOECONOMY AND AGRI-FOOD SYSTEM	Alessandro Sorrentino	1	2
HISTORY OF SUSTAINABLE ECONOMICS AND DEVELOPMENT	contratto	1	1
DESIGN FOR CIRCULAR ECONOMY	Marco Marconi	2	1
SUSTAINABLE AGRICULTURE AND WASTE REUSE	Danilo Monarca	2	1
GREEN CHEMISTRY	Non attivato	2	1
ENERGY AND ENVIRONMENTAL SUSTAINABILITY OF PRODUCTS AND PROCESSES	Marco Barbanera	2	1

The Blue



INSEGNAMENTI	Professor	Year	Semester
CONSUMER BEHAVIOUR IN THE CIRCULAR ECONOMY	contratto	1	1
MARKETING FOR MARITIME ACTIVITIES	contratto	2	2
TECHNOLOGY INNOVATION FOR A CIRCULAR ECONOMY	Enrico M. Mosconi	1	2
MANAGEMENT OF PORT ACTIVITIES	contratto alta qualificazione	2	2
MANAGEMENT OF TOURISM SUSTAINABLE ORGANIZATIONS	di ruolo	2	2
POLITICAL ECONOMICS OF NATURAL RESOURCES AND ENVIRONMENT	Giacomo Branca	1	1
MICRO AND MACROECONOMICS OF THE CIRCULAR ECONOMY	contratto	1	2
ECONOMETRIC PERSPECTIVES ON CIRCULAR ECONOMY	contratto	1	2
ENVIRONMENTAL LAW – 2 modules	contratto alta qualificazione	2	2
INTERNATIONAL LAW OF THE SEA	contratto	1	1
BIOECONOMY AND AGRI-FOOD SYSTEM	Alessandro Sorrentino	1	2
HISTORY OF SUSTAINABLE ECONOMICS AND DEVELOPMENT	contratto	1	1
DESIGN FOR CIRCULAR ECONOMY	Marco Marconi	2	1
Geography of tourism	contratto	2	1
MARINE ENERGY	Non attivato	2	1

Technology and Innovation for a circular economy

[Prof. Enrico Maria Mosconi](#)

Technology and processes organization has incalculable potential to enable the circularity. The course aims to provide the basic concepts of operational management of production in view of the principles of circularity of processes. Techniques and processes of management and optimization are dealt with in terms of maintaining the added value generated and managing environmental aspects. The course explains elements of deep understanding of the challenge of circularity and provides the keys for a strategic vision of technologies and tools for evaluating possible implementation and development options in processes in economic and sustainability terms.

10-Week Course

Course curriculum and program

Circular Economy and its challenges: Understanding the importance of circularity as strategic factor for competitiveness in production – The Co-economy, emerging markets and digital technology for the circular economy- Strategic management and entrepreneurship in the circular economy and innovation management - Competitive Advantage and the Lean principles for the Circular economy across the value-chain of industry and services.

Strategic orientation for Circular innovation in the Organizations: Technology cycle, biological cycle, and industrial cycle - Technologies: new technologies and their impact - Innovation strategies make or buy: the protection of innovation and Open Source, forms of technology transfer, Evaluation of technologies, valorization methods.

Circularity practices and sustainable production: design and economic performance- Circular design approach, lifespan and Industrial performance measurement- Product End of life Management Planning - Efficiency and profitability of the production factors:-Management of production towards the zero waste, bio-economy – The transition of the main industrial production processes to the economy Circular: technological, economic, managerial and environmental aspects; design and selection of processes in services.

Production Management: Closed-loop and open-cycle management systems – Circular manufacturing and lean thinking - The processes of converting waste into new materials - E-Lean Tools: operational tools for value optimization through the internalization (Lean tools, E-VSM and IQFD) –

Learning instruments of Corporate social responsibility for a Circularity-oriented management system: Methodologies, techniques, and quality certification - Introduction to the standard of the main standards - Introduction to the standard Circular BS 8001, ISO 9001 and B-Corp TC ISO 323 Circular Economy - The Industrial and the social cost.

Practical sessions

The circular approach implies working closely with Academic and non-academic organizations .The structure of the course provides workshops , seminars as well as hands on training sessions on the Lean Principles applied to the circularity in order to train the practical side of the Technology and operation management and strengthen the transfer and exploitation of knowledge.

[Back to the structure of courses](#)

PROFESSORS AND STAFF

Professors and Researchers

[Enrico M. Mosconi](#)

[Alessandro Ruggieri](#)

[Danilo Monarca](#)

[Alessandro Sorrentino](#)

[Paola Naddeo](#)

[Giacomo Branca](#)

[Marco Marconi](#)

[M. Vittoria Albini](#)

[Emilio Errigo](#)

[Diego Vaiano](#)

[Marco Barbanera](#)

[Luca Secondi](#)

[Alessandro Frasca](#)

[Andrea Colantoni](#)

[Francesco G. Truglia](#)

[Elisa Iandiorio](#)

[Emy Zecca](#)

Administrative STAFF

Maria Stella Ranieri

Paola Giganti

Gianni Moretti

Mauro Fracassa

Luciano Moretti

Caterina Ripa



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About University Center of La Tuscia at Civitavecchia (UCTC) - Italy

Combining world-class academic excellence with a special approach to education and social responsibility, The [University Consortium of La Tuscia at Civitavecchia](#) is much more than a University Center; it is a multidisciplinary environment that encourages forward-thinking and facilitates significant achievements.

Deeply Understanding the Management, Biological Sciences and "Engineer the Circular Economy" is both the promise and the mission, which propels our students forward and leads them to set an example of excellence amongst their peers and throughout the european continent and beyond.

The center is located at Civitavecchia , a continuously growing body of over 500 students and four different tracks, both on Biological science and Economics and Management , and will always be a pioneering academic powerhouse.

At UCTC, the Circular Economy studies goes way beyond the academic framework; it is a way of thinking, analyzing and solving fundamental questions that design the way people live their lives. Driven by a vision of outstanding education and social responsibility, UCTC is committed to the pursuit of excellence, innovation, and promoting all communities. [Watch at the structure of UCTC](#)



The guide



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Glance –
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UCTC at Glance

The University Centre of La Tuscia at Civitavecchia (UCTC) is located at Civitavecchia Italy 15 min from Viterbo and 40 min From Rome . It has 500 students and more than 1.000 alumni. Established in 2001, the college offers B.Sc. and M.Sc.Business Economics : curriculum Maritime Economics and International Trade ,Circular Economy, Environmental Science,Environmental Science and Europlanning and competitive finance

It promotes excellence in research and teaching and collaborates with industry, international institutions and the scientific community. Our graduates are creative and ambitious professionals driven by a desire to innovate and meet the growing demand for highly educated managers and scholars strongly focussing on the Environmental dimension and with an entrepreneurial outlook.



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ENTRY REQUIREMENTS

The enrollment in the Master's degree course in Circular Economy requires a Bachelor's degree in the classes L-18 Business Economics or L-33 Economics Sciences. Alternatively, enrollment is possible through the possession of other Italian or non-Italian, recognized, Bachelor's degrees. In this case, students must have acquired 48 CFU equal to a number of single courses that are present in basic or characterizing academic disciplines of the classes of L-18 Business Economics and /or L-33 Economics Sciences and in the single academic disciplines of MAT/01 – MAT/09 (Mathematics), INF/01, ING-INF/05 (information science), ING-IND/17 (Industrial mechanical plants), ING-IND/35 (Business and management engineering).

Students who graduated in the L-18 Bachelor's courses offered by the University of Tuscia, automatically have the access requirements. For the other students, it is necessary to plug any gaps before enrollment. For this reason, students with curriculum gaps can attend single courses offered by the University of Tuscia through a specific enrollment. Any information and verification of prerequisites can be asked to the university student office (Segreteria Unica di Ateneo, Via Santa Maria in Gradi n. 4, 01100 Viterbo) and Department student office (deim@unitus.it or phone +39 0761/357716).

PROFESSORS AND STAFF

TECHNOLOGY INNOVATION FOR A CIRCULAR ECONOMY

Prof. Enrico Maria Mosconi Chairman

enrico.mosconi@unitus.it



Prof Enrico Maria Mosconi

Chairman of the Master's degree in Circular Economy at La Tuscia University

Full Professor of Technology and Management of production he is actively involved in Technology Innovation applied to the Circular Economy strand at the international level. He has a long experience on Technology Evaluation and he is Member of international teams providing strategic advice on a wide range of climate change, environment and sustainable development issues and operations management.

He is National Member of the for the Standard Development Board of UNI/CT057: CEN/ISO ISO TC 323 "Circular economy" – (ISO WD 59004 - 20)

Member of the Executive team of the International Center for Science and Commercial Diplomacy. He has been Director, and member of the board of Interuniversity Research centers promoting International scientific cooperation research activity for technology transfer and supporting the innovation of Italian academies and firms.

Member of the scientific PhD board in Science, Technology and Biotechnology for Sustainability at "La Tuscia University. External, independent Expert and Vice Chair in managing teams of international Experts and Scholars at the European Commission. Author of more than 100 publications on Technology, Production, Environmental issues and Circular Economy.

Detailed info - Link to:

https://moodle.unitus.it/moodle/libretti/dettagli_docente.php?iddocente=540#

Media

<https://www.raiplay.it/video/2020/11/Unidea-circolare-per-leconomia-96102d0d-f957-4e57-9d42-6e4ad79d8237.html>

https://webtv.senato.it/4621?video_evento=81401

<https://youtu.be/Ho5kscgmHFI?t=6490>

<https://temi.camera.it/leg18/post/OCD15-14042/le-audizioni-sul-pacchetto-economia-circolare.html>

<http://www.rai.it/dl/RaiTV/programmi/media/ContentItem-eb51b1e1-78e8-4f54-8cbd-2e20684777c2.html#p=>

<http://www.laprovincia.tv/index.php/video/3025/economia-circolare-focus-sulle-professioni-del-futuro/>

Letter from the Founder [Prof. Alessandro Ruggieri](#)

