

General Information	
Academic subject	Resource and Waste Management
Degree course	Business Administration
Curriculum	none
ECTS credits	6
Compulsory attendance	No
Language	English

Subject teacher	Name Surname	E-Mail	SSD
	Giovanni Lagioia	giovanni.lagioia@uniba.it	SECS-P/13

ECTS credits details		Scientific Area	Credits
Basic teaching activities		SECS-P/13	6

Class schedule	
Period	Winter semester
Year	III
Type of class	Lecture - workshops

Time management	
Hours	42
Hours of lectures	32
Tutorials and lab	10

Academic calendar	
Class begins	September 2019
Class ends	December 2019

Syllabus	
Prerequisites/requirements	Students need the basic knowledge of business studies.
Expected learning outcomes	<p><i>Knowledge and understanding</i></p> <p>Student has to know main features of commodities (quality indicators), their production processes, uses and markets. He has to understand the following topics:</p> <ul style="list-style-type: none"> - challenges transition from no-renewable to renewable resources; - waste treatment alternatives; - environmental burdens of life cycle of commodities. <p><i>Applying knowledge and understanding</i></p> <p>The knowledge concerning resources and waste topics prepare for professional skills capable of problem solving as regard:</p> <ul style="list-style-type: none"> - natural resources and waste as material basis of economy; - challenges transition from no-renewable to renewable resources; - waste treatment alternatives; - circular economy. <p><i>Making informed judgements and choices</i></p> <p>Students will be capable of gathering and performing data necessary to organize independent assessments on issues concerning natural resources use and waste treatment.</p>

	<p><i>Communicating knowledge and understanding</i> Students has to make a relationship among resources pattern and waste treatment for establishing the transition through circular and sustainable economy.</p> <p><i>Capacities to continue learning</i> The participation at lectures and practical workshops and home study will allow students to know and use independently:</p> <ul style="list-style-type: none"> - quality of natural resources and their use in economy; - waste treatments methods and options; - environmental effects linked to waste treatment; - tools of the environmental accounting (sustainable and circular economy).
<p>Contents</p>	<p>The course aims to provide a comprehensive treatment of management of natural resources together with all aspects of waste disposal and relative management. The course introduces the concept of natural resource, scarcity issues and the circulation and use in economy. The transition from no-renewable resources to renewable ones has been analysed. Furthermore, all the activities concerning the management of waste from its inception to its final disposal is illustrated. These include collection, transport, treatment and disposal pattern of waste. Monitoring tools and regulation are also described. Particularly the course focuses on waste prevention, conversion, re-use and recycling.</p> <ul style="list-style-type: none"> - Description of natural resource; - difference between resource and reserve; - description of analytical tools for highlighting the material basis of economies; - sustainable and circular economy; - no-renewable and renewable resources - bio-economy. - Definition of waste; - waste planning and regulatory framework; - examples of waste prevention (plastics, glass, papers, metals); - environmentally risk of waste treatment including disposal; - disposal pattern (prevention, re-use and recycling); - waste conversion into energy.
<p>Course program</p>	
<p>Bibliography</p>	<p>Lagioia G., Lecture Notes. <i>The course and its supporting materials are posted in e-learning platform (www.schoolology.com). Students have to ask for the access-code to the professor.</i></p> <p>Leoci B., Cicli produttivi e merci, Lecce, Adriatica Editrice Salentina, 1996 (resources and waste chapters). Calabrò G., Merceologia risorse naturali, merci ed ambiente, Messina, Scuderi s.a.s., 1999 (resources and waste chapters).</p>

	<p>Nebbia G., Contabilità monetaria e contabilità ambientale, Lectio Doctoralis in Economia e Commercio, Bari 30 gennaio 1999.</p> <p>Ciraolo L., M. Giaccio, A. Morgante e V. Riganti, Merceologia, Bologna, Monduzzi editore, 1998 (resources and waste chapters).</p>
Notes	===
Teaching methods	Lecture, discussion of case studies and practical exercises.
Assessment methods	Oral presentation with practical applications during the discussion.
Evaluation criteria	<p>Evaluation criteria are the followings:</p> <ul style="list-style-type: none"> - Capacity of description of the material basis of economy; - Illustration of natural resources pattern; - Description of main waste treatments and options; - Explanation and practical application of sustainable indicators as tools through circular economy.
Further information	===