

General Information	
Academic subject	Technology and economics of energy sources
Degree course	Economics and management
Curriculum	
ECTS credits	7
Compulsory attendance	Yes
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Giuseppe Tassielli	giuseppe.tassielli@uniba.it	SECS-P/13

ECTS credits details	Area		CFU/ETCS
Basic teaching activities	business administration		7

Class schedule	
Period	semester
Year	2020/21
Type of class	lessons

Time management	
Hours	175
In-class study hours	63
Out-of-class study hours	112

Academic calendar	
Class begins	28/9/2020
Class ends	18/12/2020

Syllabus	
Prerequisites/requirements	Knowledge of Commodity Science
Expected learning outcomes	<p>Knowledge and understanding on:</p> <p>The student of Technology and economics of energy sources knows how to manage the company also with a view to sustainable development. An indispensable basis will be the knowledge of the methodology for analyzing the company's energy profile. The achievement of these skills will contribute to participation in classroom lessons, exercises in working groups and the commitment of personal study required by the training activities</p> <p>Applying knowledge and understanding on:</p> <p>The student, understanding the strategic context of the company, will be able to understand the current national and international guidelines of energy policy. They will also have to master the energy audit and diagnosis tools. The individual study of the proposed texts and the examination of business</p>

	<p>cases illustrated in the course of the proposed activities contribute to achieving these skills.</p> <p>Making informed judgments and choices:</p> <p>The student will have to acquire the ability to analyze the main energy consumption dynamics of the company, to be able to operate with autonomy and authority, selecting the necessary tools to govern the problems that companies must face to improve their energy and economic profile.</p> <p>Communicating knowledge and understanding</p> <p>The student will be able to effectively communicate ideas and solutions regarding the analysis of the company's energy variable. He will be able to dialogue with collaborators in the business and professional sphere, clearly explaining his conclusions relating to the topics analyzed. Communication skills will be developed during the various activities that involve the presentation of reports by students and as part of the preparation and discussion of the final exam.</p> <p>Capacities to continue learning</p> <p>By participating in classroom activities and laboratories and finally with the preparation of the final exam, the student will have acquired the ability to independently investigate the issues relating to the implementation of an energy management system in the company and to use of economic tools for the development of energy efficiency projects.</p>
Contents	<p>The dimension of the energy problem. Elements of energy economics and technology of the various energy systems. The economic laws of energy. World energy supply and demand. The Italian energy situation. Uses of energy in the various economic sectors. National energy balance. Future energy needs and forecast models. National energy plans. Energy, territory and environment. Energy management. Energy efficiency. Energy audit and diagnosis. Energy management systems.</p>
Course program	
Bibliography	<p>G. Nebbia, "Lezioni di merceologia", pagg. 61-145 A. Clo', "Il rebus energetico", Il Mulino, 2008</p>
Notes	To study both the texts
Teaching methods	Lessons
Assessment methods	Oral examination

<p>Evaluation criteria</p>	<ul style="list-style-type: none"> • Knowledge and understanding The student knows how to manage the company also with a view to sustainable development and masters the methodology of analyzing the company's energy profile. Learning level: Sufficient: basic knowledge Good: thorough knowledge Great: complete knowledge • Applied knowledge and understanding The student understands the current national and international guidelines of energy policy and masters the tools of energy audit and diagnosis. Learning level: Sufficient: basic knowledge Good: thorough knowledge Great: complete knowledge • Autonomy of judgment The student has acquired the ability to analyze the main energy consumption dynamics of the company and is able to select the tools necessary to govern the problems that companies must face in order to improve their energy and economic profile. Learning level: Sufficient: basic knowledge Good: thorough knowledge Great: complete knowledge • Communication skills The student will be able to effectively communicate ideas and solutions regarding the analysis of the company's energy variable. Learning level: Sufficient: basic knowledge Good: thorough knowledge Great: complete knowledge • Capacities to continue learning The student will have acquired the ability to independently investigate issues relating to the implementation of an energy management system in the company and the use of economic tools for the development of energy efficiency projects with a critical approach. Learning level: Sufficient: basic knowledge Good: thorough knowledge Great: complete knowledge
<p>Further information</p>	<p>//</p>