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UNIVERSITY OF NAPLES
"PARTHENOPE"

Department of Engineering



COURSE LEADER

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WHERE WE ARE

Department of
ENGINEERING

Centro Direzionale-Isola C4-
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UNIVERSITY OF NAPLES
"PARTHENOPE"



GUIDANCE AND TUTORING

Department of
ENGINEERING

Master's Degree

Management Engineering
(Class LM-31 & LM-33)

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COURSE OVERVIEW

The Master's Degree in Management Engineering aims to create highly qualified professionals able to bring together tools and methods of planning, organisation and management, with skills in disciplines pertaining to the production, transformation and use of energy.

CAREER PROSPECTS

Graduates holding a Masters Degree in Management Engineering are trained to work in various sectors either as self-employed or with manufacturing or service/consulting companies as well as in the public administration. They typically find employment in the areas of management control, marketing, finance, strategy consulting, ICT management, supply chain management and production processes, logistics and technological-production planning. Graduates with this master's degree can also find employment with firms and bodies for the production, conversion and management of energy; with plant design enterprises; with manufacturing companies in general for the production, installation and testing, maintenance and management of thermal machines and propeller systems, of auxiliary systems for the management and conversion of energy, of lines and production department in the manufacturing sectors of energetic engineering and complex systems; with mechanic, electro-mechanical and electric industries. Graduates can be also considered as industrial engineers expert in process management and after sitting for the professional examinations, they can enrol in section A of the Professional Register of Engineers - Industrial sector.

SYLLABUS

The Degree Course in Management Engineering aims to train professionals able to work in the field of industrial and service management, especially skilled in solving issues connected with the operating management of plants for the production, distribution and use of energy, of heat and air conditioning systems, their components and civil and industrial thermo-technical systems. Graduates can also work as energy managers in companies and bodies where such professional figures are required.

The course involves a balanced set of activities needed to complete specific studies in the core areas of management engineering and mechanical engineering complemented by a number of related cultural areas. Students are trained in subjects related to management engineering, such as industrial production management, technological management and streamlining of industrial services, business and management control, industrial automation, logistics, industrial quality management and security; to mechanic engineering through an in-depth acquisition of theoretical and practical knowledge concerning the processes of industrial transformation, energetics, thermo-fluid dynamics, heat transfer, energy conversion systems, renewable energy; together with disciplines in related areas, such as electric systems for energy, data bases, business information networks, industrial tools for the quantitative evaluation of product and process parameters. The course concludes with an important project activity, usually within the context of production or services, to be written up in such a way as to demonstrate the candidate's full understanding of the subject and the ability to work independently, showing his or her communication and relational skills, as well as the capacity to see all technical, management, organisational and economic aspects related to this professional field.

SYLLABUS

Year I	ECTS
Industrial Automation	9
Management of Energetic Systems	9
Industrial Services Management	9
Production and Quality Management	9
Supply Chain Management	9
Energy Management	9
Elective module	6
Year II	
Heat, Ventilation and Air Conditioning Devices	12
Automatic Controls	9
Energy Systems Management	9
Electric Measurement and Security	12
Sustainable Energetic Technologies	9
Elective module	6
Final Exam	12
Elective Modules - II Year	
Industrial Electronics	6
ICE	6
Thermo-technical Systems for Industry	6
Innovation and Project Management	6
Numerical Models for Engineering	9
Machinery Management	6
Principles of Automatic Systems	9
Principles of Electrical Systems	6