



Engineering Faculty

Second-Cycle Degree Course in Management Engineering

The Degree Course

The Second-cycle degree Course in Management Engineering is aimed at training professional profiles able of to play an effective role in strategic and technical-operation decision-making (in particular: design and management of business models and of organizational structures, design the development of new products/services, implementing financial policies promoting development etc...) having an impact on the competitiveness level of businesses and organizations operating in rapidly innovating contexts as well as in contexts characterized by a high technological and market complexity. The Second-Cycle Degree Course in Management Engineering is structured on three different study paths: "Management of Industrial Processes", "Energy Systems" and "Industry 4.0". The first path meets the needs expressed by the market and linked to the drive towards technological development, innovation and the globalization of the economy. The second-cycle graduate in Management Engineering will be equipped with a solid background expertise which is, at the same time, highly specialized both in the economic-managerial area and in the production systems area while paying particular attention to the management and control of highly innovating processes. The second path, instead, meets the bigger and bigger demand of the market for specialized profiles able to control, manage and maximize the various energy systems. Consequently, this study program matches a set of specialized knowledge definitely linked to industrial and management engineering with those decidedly linked to energy disciplines.

The third path, Industry 4.0, meets the needs of the labor market as regards the need for professionals specialized in the technologies and models that have lately been developing with the so-called Fourth Industrial Revolution. Therefore, this study path includes modules that illustrate the technologies 4.0 (Big Data, Internet of Things, Cloud Computing, Artificial Intelligence, Advanced Manufacturing, 3D Printing) from a methodological and applicative perspective. In addition, it also comprises modules that illustrate new business, innovation and business organization models aimed at supporting the transition towards a model of digital company that characterizes the Industry 4.0.

Study Program

Second-Cycle Degree Course in Management Engineering

Path: **Industry 4.0**

I YEAR

- Numerical methods
- Business law
- Organization Dynamics and Behavior
- Innovative materials and techniques
- Innovation economy
- Digital innovation
- Advanced manufacturing

II YEAR

- Modeling of Production and Logistic Systems
- Advanced production systems and processes
- Design and simulation digital environments
- Digital technologies for Industry 4.0
- Free-choice exams
- Final exam

Path: **Management of Industrial Processes**

I YEAR

- Numerical Methods
- Business Law
- Organization Dynamics and Behavior
- Innovation Economics
- Innovative Materials and Technologies
- Automation of Industrial Processes
- Energy Systems Management

II YEAR

- Modeling of Production and Logistic Systems
- Advanced Production Systems and Processes
- Management of Mechanical Systems
- Economics and Business Finance
- Free-choice exams
- Final exam

Path: **Energy Systems**

I YEAR

- Numerical Methods
- Business Law
- Organization Dynamics and Behavior
- Innovation Economics
- Innovative Materials and Technologies
- Energy Systems Management
- Modeling of Production and Logistic Systems

II YEAR

- Management of Energy Systems
- Advanced Production Systems and Processes
- Trial Measures and Standards
- Environmental Impact of Energy Systems
- Free-choice Exams
- Final Exam

How to enrol

Enrolment can only be made on the Internet in the area devoted to the Administrative Secretariat of the portal www.uninettunouniversity.net.

Payments can be made online by credit card or through bank transfer or postal service.



Videolesson of Prof. Emilio Paolucci



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