



Università
degli Studi
di Palermo



M.Sc. Management Engineering

EDUCATIONAL OBJECTIVES

Thought as a tech-MBA and specifically designed for students with a Bachelor Degree in Engineering, the MSc in Management Engineering of the University of Palermo allow complementing the in-depth knowledge and the way of thinking of the engineering background with the ability to take strategic decisions and tackle management issues. Management engineers are managers with advanced quantitative problem-solving skills and able to manage companies that operate in increasingly complex, international and technologically advanced environments.

The programme is inherently multidisciplinary and integrates high-level management skills with in-depth technical competences in several areas as operations and supply chain, finance, economics, project management, innovation, strategy, logistics and technology management.

The educational model of the programme is strongly based on the active learning and the courses are taught with several teaching methods: lectures, practical sessions, case studies, flipped classroom, and in-class discussion. Students are involved in practical-based labs and project works developed in team where they can experience real challenges and apply the skills, methods and knowledge acquired.

The programme is entirely taught in English and is divided into three discipline blocks:

- Methodological disciplines include the methodological basis of the second level management engineer such as advanced statistical methods and tools for management engineering, business process modeling techniques, project management methodology and software;
- Core disciplines study the main business functions of every company, such as marketing, corporate finance, strategy, operations and supply chain, technological innovation and human resources;
- Advanced Management (focus) disciplines relate to more specific topic such as sustainable technologies, public sector economics, industrial safety, technology analysis, smart manufacturing.

PROFESSIONAL OPPORTUNITIES

The programme opens rewarding and exciting career opportunities for its students. The multiple business function's skills of the management engineer allow her/him to find a job very quickly (official statistics report that in 2019, 97.7% of graduate students found an employment within one year from graduation). Management Engineering find employment in any kind of industry (Automotive, Agrofood, Oil and Gas, Textile and Fashion, Business Consulting, Banks, Healthcare, Public administration, etc.) for different positions in a variety of business function (Operations and Supply Chain, Marketing, Corporate Finance, R&D, Controlling, etc.).

LIST OF SUBJECTS

1ST year

Advanced statistical methods for management engineering

Business process management

Project management

Marketing

Corporate Finance

Innovation management

Free choice subject

2nd year

Service quality management

Industrial organisation & Strategy and Business Game

Supply chain management

Human resources management

Elective subject (chose 1 of the following)

- *Sustainable manufacturing*
- *Technology analysis & strategic management*
- *SMART FACTORY: Research and Innovation*

Seminars and traineeship

Final Thesis dissertation

COURSE COORDINATOR

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