

INFORMATION ABOUT OUR DEPARTMENT

Our department was founded in 1990. Education and research activities are performed by 3 professors, 4 associate professors, 3 assistant professors, 2 lecturers, 10 research assistants and part-time instructors from related sectors by year 2015.

- First undergraduate students were graduated in 1994.
- One undergraduate program (Industrial Engineering), 3 master's programs (Industrial Engineering, Engineering Management, Management Information Systems and Engineering) and 2 PhD programs (Industrial Engineering, Engineering Management)
- Graduate numbers in recent years: 2010 (54), 2011 (55), 2012 (47), 2013 (49), 2014 (69).
- Some of the companies in which our graduates work are as follows:
 - ❖ Companies they work in engineer position: World Bank, Funnie Mae, Fortis, TÜBİTAK, WestLB, Freddi Mac, Migros, YapıKredi, SAP, Unilever, Süttaş, Doğa Koleji
 - ❖ Schools they work in academic position: Chicago Graduate School of Business, Georgetown Business School, Marmara University, Gaziantep University, Kırıkkale University.

RELATIONS WITH INDUSTRY

- 2 summer practices
- Graduation projects
- Factory visits
- Career and presentation meetings/ seminars
- Industrial Engineering Club (MIES) activities



STUDENT-INSTRUCTOR RELATIONSHIPS

- Open door policy
- Office hours
- Announcements by Information Management System
- Student recommendations mechanism
- Student representatives

WHY MARMARA UNIVERSITY INDUSTRIAL ENGINEERING DEPARTMENT?

- ➔ Powerful, dynamic academic staff from different disciplines with international experience
- ➔ 100% English education
- ➔ Up-to-date and standard syllabus
- ➔ Easily job finding opportunity in outstanding companies from different sectors
- ➔ Academic career opportunity in various areas in top-line universities
- ➔ Opportunity to see the top-line universities in Europe by ERASMUS program
- ➔ Common opportunities for summer practice in Turkey and abroad
- ➔ Double major and minor programs
- ➔ Central location and easy transportation
- ➔ Social and cultural activities
- ➔ Rectorate and special scholarships



If you wonder,

- ★ How stocks are balanced in supermarkets in which thousands of goods are sold, how needed goods are provided,
- ★ How quality and competitive prices are reached in factories in which parts are manufactured,
- ★ How millions of phone lines are directed to the true number in a few seconds,
- ★ How millions of flights and billions of passengers are organized daily in airports,

Industrial Engineering is for you and you are at the right place to take this education.

CONTACT INFORMATION

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MARMARA UNIVERSITY FACULTY OF ENGINEERING

INDUSTRIAL ENGINEERING DEPARTMENT



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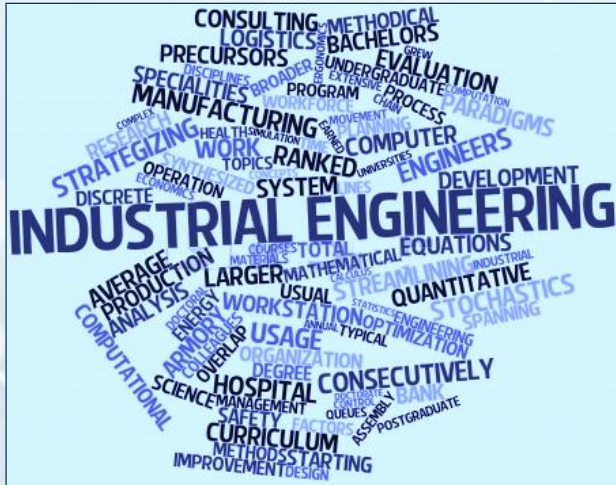
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WHAT IS INDUSTRIAL ENGINEERING?

Industrial Engineering is the engineering branch that supplies the design as a system, development and effective use of **human, materials, machine, energy, money, technology and information resources** with the aim of increasing the efficiency and quality of the companies in production and service sectors.

Industrial Engineering uses engineering analysis and design methods and mathematics, computer, social and science knowledge to develop efficient production and service systems.

Industrial Engineers work on the design, planning, enhancement and control of efficient production/service systems that can supply the solution of complex problems.



DIFFERENCES OF INDUSTRIAL ENGINEERING

- Industrial Engineering considers **human** factor in addition to equipment and materials.
- Industrial Engineering considers the “**whole photograph**” within the view of “**systems approach**”.
- The application area of Industrial Engineering is extensive.
- Industrial Engineering acts as a **bridge** between basic operation activities and management levels.

TALENTS REQUIRED TO BECOME AN INDUSTRIAL ENGINEER

- Inquiry
- Abstraction
- Ability to express analytically
- Ability to apply optimization, probability and statistics concepts to decision process

THE SKILLS THAT INDUSTRIAL ENGINEERING EDUCATION BRINGS

- Problem solving
- Creativeness
- Team work
- System design
- Mathematical modeling and analysis
- Effective resource management
- Human resources management
- Computer supported study
- Benchmarking...



An Industrial Engineer that graduated from our department is educated to have the abilities mentioned above and performs the following tasks successfully:

- Designs production and service systems by considering quality, efficiency, flexibility, and cost factors.
- Aims to optimize current systems continuously.
- Tries to increase the quality of working environment and life in addition to increase the company profits.
- Acts as a bridge between production units and management levels.

WORKING AREAS

- Production
- Logistics
- Information
- Automotive
- Health
- Food
- Iron-Steel
- Finance-Banking
- Consultancy
- Tourism
- Defense
- Public
- Textile
- Aviation
- Telecommunication



CORE INDUSTRIAL ENGINEERING COURSES

- Operations Research
- Production Planning and Control
- Management Information Systems
- Engineering Economy
- Computer Programming
- Project Management
- Decision Analysis
- Simulation
- Quality Management
- Probability
- Statistics

