



INDUSTRIAL ENGINEERING

International Program (Bachelor of Engineering)



General Description

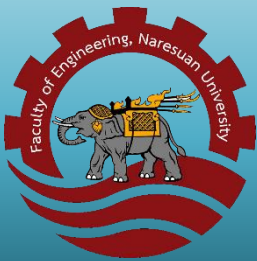
The Bachelor Program of Engineering (Industrial Engineering) is designed for focus on building quality graduates that have high skills for practicing and applying of industrial engineering knowledge for supporting factory's activities as well as fulfilling with entrepreneurial spirits. This aims to properly manage manufacturing resources i.e. labor, machine, raw material, money, information, technology and innovation in order to create efficiency, effectiveness and economic values of manufacturing processes in industries. Graduates will be able to integrate industrial engineering knowledge with advanced technology and innovation to increasing industrial competitiveness for sustainability and continuous growth. The keys objectives of our program in

Objectives of the Curriculum

1. To produce graduates which have know-how and able to adapt themselves for multidisciplinary team working and communicating
2. To produce graduates which have morality and ethics for industrial engineering practicing
3. To produce graduates which are fulfilled with knowledge of sciences and engineering, and practicing on industrial engineering that support for being professional industrial engineers in the future
4. To produce graduates which have creative thinking, innovative thinking, critical thinking, rational thinking, and problem solving skill for using appropriate tools and techniques of industrial engineering
5. To produce graduates which are able to integrate industrial engineering knowledge with others for solving problems, improving and managing work systems in industries
6. To produce graduates which can conduct research and development (R&D) on industrial engineering field for solving industries' problems.

Career Opportunities

The students graduated from this program can work in a variety of areas including: Software development: mobile app developers, software engineers, etc. Infrastructure engineering: network engineers, database admins, etc. Other jobs: robotics engineers, data scientists, embedded system engineers, etc. The graduates from this program can work in various organizations not only government agencies, and state enterprises, such as EGAT, Royal Thai Police, hospitals, agencies under various ministries, but also, private companies, both domestic and international, such as Thai Airways, Microsoft Corp., commercial banks, etc .



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Curriculum Structure

Requirements	Credits
1. General Education Courses	30
2. Specialized Courses:	108
2.1 Core Courses	93
2.2 Major Elective Courses	6
2.3 Undergraduate Thesis	3
2.4 Non-Credit Courses	6
3. Free Elective Courses	6
Total	144

General Education Courses

Students has to take General Education Courses of 30 credits.

Core Courses

: choose 93 credits from the following courses

Technopreneur, Engineering Economics, Quality Control, Tool Engineering, Industrial Work Study, Operations Research, Safety Engineering, Production Planning and Control, Industrial Plant Design, Engineering Management, Industrial Cost Analysis, Maintenance Engineering, Computer Application in Industrial Engineering, Industrial Engineering Laboratory, etc

Major elective courses

: choose 6 credits from the following courses

Industrial Laws, Quality Management, Project Management, Value Engineering, Supply Chain Management, Enterprise Resource Planning, Automated Manufacturing Systems, Computer Aided Design and Manufacturing for Industrial Engineering, Industrial Psychology in Factory, Ergonomics, Selected Topics in Industrial Engineering, Special Problems in Industrial Engineering, etc.

Non-Credit Courses

Students have to take 7 credits or not less than 270 hours from Training in Industrial Engineering.

Free Elective Courses

Students can take Electives of 6 credits from any faculty in Naresuan University.

Degree Information

- Duration: 4 Years (8 Semesters)
- Tuition Fee: 16,000 Bath/Semester