

Bachelor of Engineering Program in Industrial and Production Engineering
(International Program)
Revised Program 2022

Name of Institution	Mahidol University
Campus/Faculty/Department	Department of Industrial Engineering Faculty of Engineering

General Information

1. Code and Program Title

In Thai : หลักสูตรวิศวกรรมศาสตรบัณฑิต สาขาวิชาวิศวกรรมอุตสาหการและการผลิต (หลักสูตรนานาชาติ)

In English : Bachelor of Engineering Program in Industrial and Production Engineering
(International Program)

2. Degree Offered and Field of Study

In Thai Full Name : วิศวกรรมศาสตรบัณฑิต (วิศวกรรมอุตสาหการและการผลิต)
Abbreviation : วศ.บ. (วิศวกรรมอุตสาหการและการผลิต)

In English Full Name : Bachelor of Engineering (Industrial and Production Engineering)
Abbreviation : B.Eng. (Industrial and Production Engineering)

3. Major Subject (If Applicable)

Dairy and Beverage Engineering

4. Total Credits Required Not less than 148 credits

5. Curriculum Characteristics

5.1 Degree Level Bachelor's Degree, four-year program

5.2 Type of the program Academic program

5.3 Language English

5.4 Admission Thai and International Students

5.5 Collaboration with Other Institutions

This program is a Mahidol University program which is under the collaboration with Dutch Mills Co., Ltd., Tetra Pak (Thailand) Co., Ltd., and Alliance Companies. The program also collaborates with the international education institute, ECAM Lyon, School of Engineering (Lyon, France), for academic and scientific exchange, research activities, and cooperation with companies.

5.6 Degree Offered One degree of one major

6. Career Opportunities after Graduation

The graduates may have careers in

- 1) industrial engineers for all organizations
- 2) quality control and quality assurance engineer
- 3) safety engineer
- 4) maintenance engineer
- 5) product design and development engineer
- 6) production planning and control engineer
- 7) project evaluation and administration engineer
- 8) procurement and sales engineer
- 9) new entrepreneur/business owner

The graduates from this program are able to work in the positions above with dairy and beverage engineering specialty as well as start a new business.

7. Curriculum

7.1 Number of Credits

The required number of credits in total must not be less than 148 credits.

7.2 Curriculum Structure of Bachelor of Engineering Program in Industrial and Production

Engineering (International Program) complies with the Standard of Undergraduate Programs of Study announced by the Ministry of Education 2009.

1) General Education	no less than	30	Credits
1. Social Sciences and Humanities		6	Credits
2. Languages		10	Credits
3. Science and Mathematics		14	Credits
2) Core Courses	no less than	112	Credits
1. Basic courses			
1.1 Mathematics and Science		21	Credits
1.2 Engineering		12	Credits
2. Special Courses			
2.1 Required Specific Courses for Industrial and Production Engineering		39	Credits
2.2 Required Specific Courses for a major of Dairy and Beverage Engineering		30	Credits
2.3 Electives Specific Courses		9	Credits
2.4 Internship		1	Credit
3) Free Electives	no less than	6	Credits