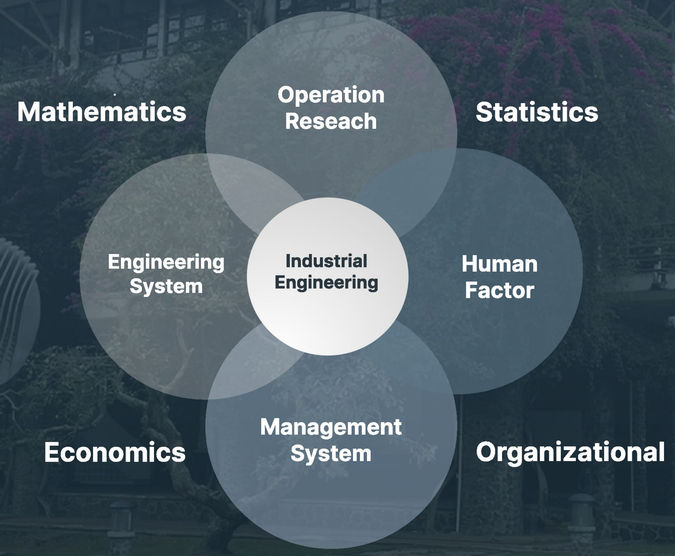
Get to know

INDUSTRIAL ENGINEERING

What is Industrial Engineering?

*Industrial engineering is a field of engineering that focuses on **optimizing complex systems** and processes in order to **improve the efficiency and productivity** of businesses and organizations. Industrial engineers use various tools and techniques to **analyze operations, identify areas for improvement**, and **implement solutions** to increase efficiency.*



Body of Knowledge

Main Focus:

1. **Optimizing Perfomance** in an effective, efficient, and productive way.
2. Implemented in **various industry** (manufactur, hospitals, tech-company, etc)
3. **End-to-end Knowledge** form technical to management level

More Information

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Kabupaten Cirebon, Jawa Barat 45162

Quick Facts

IE combines **technical and management skills**

The need for IE graduates in industry increase 10% till 2026 (US Survey)

IE ITB is the 1st IE Program in Indonesia (starting 1971)

IE ITB is the 1st internationally accredited IE Program in Indonesia

IE is among **top 5 most favorite** programs in ITB

Career Prospects

1. Production Engineer
2. Quality Engineer
3. Safety Engineer
4. Systems Analyst
5. Business Development & Analyst
6. Data Scientist
7. Organization & Human Capital Specialist
8. Project Manager
9. Corporate Planning Specialist
10. Consultant
11. Marketing System Specialist
12. Logistics & Procurement Specialist
13. User Experience & Interface Specialist
14. Human Factors & Ergonomics Specialist
15. Product Developer
16. etc.

Admission

1. **Regular - Ganesha**
2. **International - Ganesha**
3. **Regular - Cirebon**

for detail information :

admission.itb.ac.id

Research Group

- *Ergonomics, Work Engineering & Occupational Safety*
- *Manufacturing System*
- *Industrial Management*
- *Industrial System & Techno Economics*
- *Decision & Information System*

Curriculum

Year	Course Content
First Year: Foundation	Basic science, liberal arts, & principles of general engineering
Second Year: Basic Skill	Basic science, liberal arts, & principles of general engineering
Third Year: Study Program	More advanced industrial engineering subjects
Fourth Year: Final	Capstone project & engineering design

Partner Universities

TUHH Hamburg University of Technology
TU Delft
UTM Universiti Teknologi Malaysia
Tokyo Tech
서울대학교 Seoul National University
Taiwan Tech National Taiwan University of Science and Technology

and 100+ partner universities in all around the globe through

- SEA (Semester Exchange Abroad)
- GE3 (Global Engineering Education Exchange)
- IISMA (International Indonesian Students Mobility Award)
- and other internationalization schemes

bit.ly/ITBSemExchange

*for international students