



ITS
Institut
Teknologi
Sepuluh Nopember



INDUSTRIAL ENGINEERING DEPARTMENT



Engineers make things,
Industrial Engineers
make things better

About Us

The Department of Industrial Engineering (IE) at Institut Teknologi Sepuluh Nopember (ITS) is an ideal place to enhance student's abilities to build a career path in a wide range of sectors, including manufacturing, services, banking, and government organizations. The integrative and comprehensive knowledge combined with classroom and practice approaches have characterized the educational process since the early days. Our department was established in 1985, offering an undergraduate program of IE. In 1996, we began to open a master program and in 2009 the doctoral program was first offered.

As continuous endeavors towards good quality education, our department has been granted national and international accreditation and certification. We have been accredited (A) by the Board of National Accreditation for Higher Education (BAN-PT) of Indonesia and ASEAN University Network Quality Assurance (AUN-QA). In 2016, our department has fully accredited by the Accreditation Board for Engineering and Technology (ABET) for its high standard of educational provision including the international class that has been running since 2011.

Our International Programs

Industrial Engineering Department has consistently ranked as **the most progressive department with international collaboration** at the university. We have been working closely with many prominent overseas universities. Our international programs includes:

- A joint degree master program and faculty exchanges with National Taiwan University and Technology (NTUST)
- Inbound and outbound students and teaching mobility under Erasmus+ Programs
- Inbound and outbound students exchange program with Universiti Teknikal Malaysia Melaka (UTeM) Malaysia
- Doctoral mobility program with Mahidol University Thailand
- Outbound students exchange program to Anadolu University of Turkey
- Inbound students exchange program from Syddansk Universitet (University of Southern Denmark)
- Inbound and outbound students exchange program from Saxion University (Netherlands)



Research Area

Research areas in our department are grouped into laboratories. There are 5 laboratories as follows:

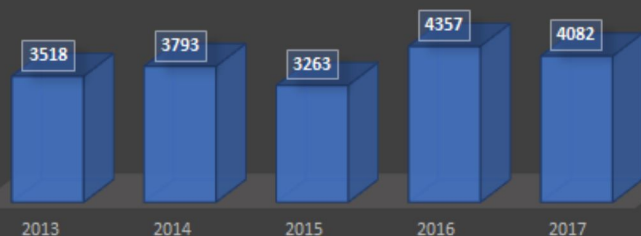
1. Ergonomics and Work System Design
2. Manufacturing System
3. Design of Industrial System and Management
4. Logistics and Supply Chain Management
5. Quantitative Modeling and Industrial Policy Analysis

Career Opportunities

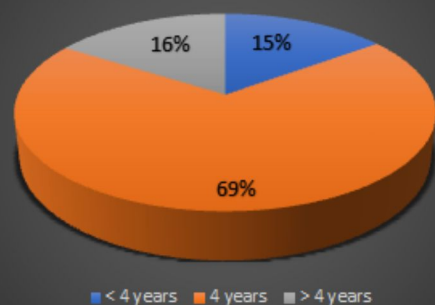
IE-ITS graduates cover a broad range of professions, as an engineer, planner, system analysts, managers, entrepreneurs, bankers and researchers and faculty. Nowadays, alumni of IE-ITS are dedicating themselves inside and outside the country, working in government and private agencies.



Applicants by Year



Length of Study



3 months

average range from graduation to first job commencement of our alumni.

Semester 1	Credits	Semester 2	Credits
Religion Study	2	English	2
Indonesian	2	Physics II	3
Physics I	4	Mathematics II	3
Civics	2	Engineering Drawing	2
Chemistry I	3	Pancasila	2
Mathematics I	3	Engineering Material	3
Introduction to Industrial & System Engineering	2	Engineering Statistics	3

Semester 3	Credits	Semester 4	Credits
Cost Analysis & Estimation	3	Algorithm & Computer Programming	3
Ergonomics	3	Engineering Economy	3
Operations Research I	3	Operations Research II	3
Introduction to Economics	3	Industrial Automation	3
Manufacturing Process	3	Manufacturing System	3
Engineering Statistics II	3	Method Engineering & Work Measurement	3

Semester 5	Credits	Semester 6	Credits
Basic Engineering Mechanics	3	Maintenance & Reliability Engineering	3
Organization & Human Resource Management	3	System Modeling	3
Product Design & Development	3	Facility Design	3
Production Planning & Inventory Control	3	Logistics System	3
Discrete Event Simulation	3	Elective Course I	3
Quality Control Techniques	3	Elective Course II	3

Semester 7	Credits	Semester 8	Credits
Industrial Ecology	2	Practical Work (Internship)	2
Supply Chain Management	3	Project Management	2
Concept of Technology	3	Technopreneurship	2
Industrial Design	4	Business Information System Design	3
Elective Course III	3	Elective Course IV	3
Enrichment Course*	3	Final Project	6

*Enrichment Course is a course taken from other department

Available Elective Courses (3 credits each) are:

- Concurrent Engineering
- Performance Management
- Game Theory
- Computer Integrated Manufacturing
- Macro Ergonomics
- Occupational Health and Safety
- Corporate Risk Management
- Management of Industrial Environment
- Multi Criteria Decision Making
- Agent Based Modeling
- Sustainable Manufacturing
- Data Mining
- Metaheuristics
- Quality Management
- Etc.



Contact Us

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