CURRICULUM

1ST YEAR

- Mathematics IA
- Elementary Physics IA
- Basic Chemistry IA
- Introduction to Engineering and Design
- Scientific Writing in Bahasa Indonesia
- Sports
- Mathematics IIA
- Elementary Physics IIA
- Basic Chemistry IIA
- Introduction to Industrial Technology B
- Academic English: Reading, Speaking, & Writing
- Engineering Drawing

2ND YEAR

- Fundamentals of Engineering Management
- Statistics I
- Industrial Electronics
- Cost Estimation
- Engineering Economics
- Elementary Thermodynamics B
- Engineering Mechanics
- Matrices and Vector Spaces
- Statistics II
- Quantitative Modeling
- Manufacturing Process
- Planning Theory and Methodology
- Creativity and Innovation
- Managerial Economics
- Engineering Management Practice 1
- Mathematics III

3RD YEAR

- Quantitative Method
- Fundamentals of Human Factors Engineering
- Marketing Research
- Management of Technology
- Product Planning and Development
- Value Chain System
- Engineering Management Practice 2
- Business Process and Organization Design
- Quality Engineering
- Project Management
- Engineering Management Practice 3

4TH YEAR

- Interdisciplinary Engineering Project
- Engineering Management Internship
- Occupational Health, Safety and Environment
- Risk Analysis and Project Financing
- Data Science and Machine Learning
- Information System Planning
- Final Project I
- Engineering Management Practice 4
- Final Project II
- Religion and Ethics
- Pancasila and Civic Education

TECHNICAL CONCENTRATION

- MANUFACTURE
- CHEMICAL PROCESS

CAREER OPPORTUNITIES

Graduates of Engineering Management will be prepared for a broad range of positions and careers in Technical & Management positions in all industry sectors, which includes jobs in:

- CXO (Chief Executive Officer, Chief Operating Officer, Chief Technology Officer, Chief Marketing Officer)
- Entrepreneur/Founder
- Business/Financial/Data Analyst
- Project/Program Manager
- Product Manager
- Cost Systems Analyst
- Systems Engineer/Architect
- Consultant (general, technical)
- Applications/Sales Engineer
- Design Engineer

Contact us:

Engineering Management
Undergraduate Program

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ENGINEERING MANAGEMENT

INNOVATION DISTINGUISHES BETWEEN LEADER AND FOLLOWERS

ABET

ENGINEERING MANAGEMENT

JUMP START YOUR CAREER!

Our world has changed significantly in the last decade and it will certainly change even more in the next decade. Technology now touches our lives almost every moment of every day. From the moment we wake up, to the moment we settle down to sleep—and almost every hour in between—technology is a part of almost every moment of our lives. That's why the Bachelor of Engineering Management is so important

Are you prepared to be the tech savvy leader that boardrooms across the world are looking for?

QUICKFACTS

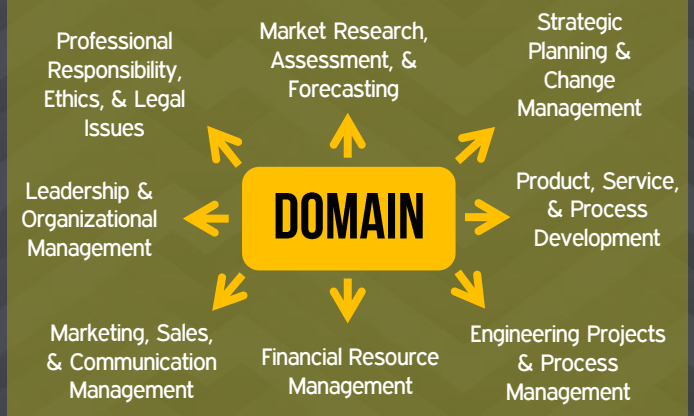
2010
Year of EM program establishment in ITB

1ST
Engineering Management major in Indonesia

200+
EM program graduates who work in different industrial sectors by the end of 2018

79%
Alumni who acknowledge that EM program is relevant with their work and industry sector

ENGINEERING MANAGEMENT DOMAIN



An Engineering Managers can act as a project manager, technical sales people & lead system engineers that involves the process of defining, designing, integrating, marketing, and testing complex systems that are loaded with technology and information

EM DIFFERENCES WITH IE

	INDUSTRIAL ENGINEERING (IE)	VS	ENGINEERING MANAGEMENT (EM)
CORE COMPETENCE	Design, Improve, Install of Production System		Design, Improve, Install of Engineering Projects
KEY CONTRIBUTION	Efficiency, Productivity, Quality		Competitiveness, Value Added
APPROACH	System Approach, Engineering Method		

EM Program was established to answer the need for strengthening Indonesian industries through excellence in management of engineering activities, in particular the upper-stream engineering activities which are critical to agility of the industries in adapting to the dynamic changes. The EM and IE Program both are complementary to each other in accomplishing an end-to-end technology life cycle. The difference is EM Program focuses more on the engineering stages of innovation, while IE Program concentrates more on the stages of production or operation.

AN ENGINEERING MANAGER MAKES AN "INVENTION" BECOMES AN "INNOVATION"