

Engineering Management Handbook for Parents

Institut Teknologi Del (IT Del)

Welcome to the Institut Teknologi Del (IT Del) Engineering Management (EM) program. This report outlines the key information presented to parents and during the campus tour, which covers everything from the security gates and academic pathways to the classrooms, laboratories, and student dormitories. This simplified overview is designed to help parents easily understand the academic and daily life of their children for the next four years.

Handbook Authorship & Acknowledgments

- **Author & Key Contributor:** Devis Wawan Saputra.
- **Role:** Primary writer and compiler of the Buku Pedoman (Academic Handbook) for the Undergraduate (S1) Engineering Management Program.

What is Engineering Management?

Engineering Management is a unique study program that combines engineering capabilities with managerial approaches to manage innovation projects.

- The program prepares students to become leaders in a technology-based industrial era.
- Graduates possess the technical competence of an engineer to innovate and design products.
- Graduates also possess the managerial competence to skillfully manage technology, people, and organizations.

Vision and Mission

The program aims to be an outstanding and reputable Engineering Management study program in Indonesia by 2022. The core missions include:

- Organizing high-quality, superior, and sustainable education that benefits the community.
- Conducting research and development to create and disseminate knowledge in the field of Engineering Management.
- Carrying out community service through the dissemination of knowledge and application of technology.

Academic Curriculum and Special Programs

The EM curriculum requires students to complete 144 credits over an 8-semester period, which takes 4 years. The learning domains cover science and engineering, quantitative skills, qualitative conceptual theories, technical function management, and project design. A detailed visual breakdown of the 8-semester course structure can be seen in the curriculum map provided in the official handbook documentation (00.png).

- Students receive academic guidance through a regular mentoring system (perwalian) at least four times a semester.
- The Pra-Master Program is an exclusive collaboration with Universiteit van Amsterdam (UvA).
- Through the Pra-Master Program, students can take courses taught directly by UvA teaching staff at the IT Del campus.
- Successful Pra-Master students have the opportunity to receive a Letter of Acceptance (LoA) to continue their Master's degree at UvA School of Business.

Campus Facilities

During the tour, parents are introduced to the comprehensive facilities that support both academic and personal development:

- **Laboratories:** Facilities include Computer Labs, a Language Center, and a dedicated Production Systems Laboratory. Visual highlights of students participating in industrial field studies and working directly inside the production systems laboratory are featured in the handbook companion materials (01.png).
- **Sports:** The campus provides facilities for basketball, futsal, volleyball, badminton, table tennis, and a jogging track.
- **Arts:** Students have access to musical instruments and actively participate in the internationally recognized North Sumatera International Choir.
- **Dormitories:** All EM students reside in campus dormitories to foster community and discipline.

Campus Life and Regulations

To ensure a comfortable and disciplined environment, IT Del enforces strict campus life regulations:

- The IT Del campus is strictly a smoke-free, drug-free, and alcohol-free environment.
- Students are required to be punctual, highly disciplined, and polite.
- A specific dress code applies, including the mandatory wearing of the Del t-shirt every Friday.

- Students must maintain the cleanliness of their dormitories and participate in scheduled communal cleaning operations (korve).
- Footwear from outside is not allowed inside the dormitory rooms.

Career Prospects

The EM program equips students for a wide variety of professional roles across different industries:

Job Role	Description
Business Development Engineer	Identifies business opportunities, formulates strategies, and leads technical teams in implementing business plans.
Supply Chain Engineer	Analyzes data to improve the performance of supply chains, procurement, and logistics.
Project Supervisor	Prepares, implements, and monitors project plans to ensure compliance and successful handover.
Market Engineer	Analyzes market preferences and competition to develop or modify products and business models.
Technical Function Engineer	Solves operational problems in production systems to improve overall quality and efficiency.