



Admission Requirement

A candidate must hold a four-year bachelor's degree or equivalent in an appropriate area of specialization to be eligible for admission to the master's, diploma or certificate programs. For admission to the doctoral program, a master's degree and good academic credentials with evidence of research ability are required. For professional master's program a minimum of three years relevant work experience is required.

Financial Assistance: The institute financial aid is available on a competitive basis in forms of scholarships, fellowships, and assistantships. Only applicants for doctoral and regular master's programs are eligible to receive the financial awards.

RTG fellowships, awarded by Royal Thai Government, are also available for qualified Thai applicants of the aforementioned two programs.

Important Dates

Intake Semester	Dateline for Applications	
	For requesting AIT Financial Aid	For External Non-AIT Funding
January	August 31	November 30
August	March 31	June 30

How to Apply: Application form can be downloaded at <http://ime.ait.ac.th/admissions/forms.pdf>

Please send your application document to:

Industrial & Manufacturing Engineering
 School of Engineering & Technology
 Asian Institute of Technology
 P.O. Box 4, Klong Luang
 Pathumthani, 12120
 THAILAND

AIT Overview

Since its establishment in 1959, AIT has promoted technological change and sustainable development in the Asian-Pacific region through higher education, research and outreach. With records of success and achievement in serving the region through human resource development, AIT has been recognized as a leading regional postgraduate institution, and has been actively working with public and private sector partners throughout the region and with many top universities worldwide.

A truly international institute, AIT students come from about forty countries. They learn and live together in an excellent learning environment on a campus, located at 42 kilometers north of Bangkok. Presently, AIT offers advanced education in engineering, sciences, and management at the masters and doctoral levels.



For further information, please contact:

Industrial & Manufacturing Engineering
 School of Engineering & Technology
 Asian Institute of Technology
 Tel: (662) 524-6601
 Fax: (662) 524-5697
 Email: ime@ait.ac.th

<http://ime.ait.ac.th>

Graduate Program in Industrial & Manufacturing Engineering



School of Engineering and Technology



AIT
 ASIAN INSTITUTE OF TECHNOLOGY

Introduction

Since its inception in the early 1970's, the Industrial Engineering program at AIT has committed to prepare qualified engineers with high-tech knowledge to support sustainable industrial development of the region. Starting as Systems Engineering in the early days and becoming Industrial & Manufacturing Engineering today, our focus has always been on responding to current needs and future trends for industry to be competitive, and we have achieved it by providing a high quality graduate education program with emphasis on

- Teaching excellence through research activities,
- Strong relationship with private and public sectors, and
- Partnership with various manufacturing and service industries.

Degree Offered

- Doctoral degree program
- Master's degree program
- Professional master's degree program*
- Diploma and certificate

The credit requirements of the regular and non-thesis professional master's programs are 49 credits and 33 credits, respectively. The credit requirement of the doctoral degree is 84 credits of which 66 credits are for research dissertation. IME also offers diploma and certificate programs toward master's degrees.

* Three years of relevant experience is required.

Research Area

- Optimization
- Simulation
- Design for X
- Molds & Dies Design
- Multi-Axis Machine Tools
- Production Management
- Supply Chain Management
- Maintenance Management
- Packaging Design & Technology
- Operation Research & Management
- Rapid Prototyping & Reverse Engineering
- Sensing & Control for Manufacturing Processes & Systems



Areas of specializations

Industrial Engineering & Management (IE&M) prepares students for management and decision support positions in manufacturing and service industry as well as public sector, by equipping them with a broad range of decision making skills for a variety of applications.

Supply Chain & Logistics Management (SCLM) emphasizes the operational and managerial aspects of supply chain systems, including warehouse management, material handling system, location analysis, and transportation management.

Rapid Product Development (RPD) focuses on important activities of design, manufacturing, and integration that lead to rapid realization of innovative products to differentiate from those offered by the competitors.

Automotive Manufacturing Engineering (AME) focuses on knowledge, and technology required by automotive component industry in the region.

Courses Offered

- Production & Operations Management
- Inventory and Logistics Management
- Warehouse Operations Management
- Quality Control and Management
- Modeling & Simulation of Discrete Event Systems
- Statistical Models and Design of Experiments
- Product Design and Development
- Rapid Prototyping & Manufacturing
- CAE/ CAM for Product Development
- Advanced Material Science for Design & Manufacturing
- Industrial Packaging Design & Technology
- Multi-Axis Machine Tools
- Molds & Dies Design
- Deterministic Optimization Models
- Stochastic Decision Models
- Scheduling and Sequencing
- Reliability Theory and Maintenance
- Information Technology for Supply Chain Management
- Eco-design & Manufacturing System

Laboratory & Facilities

Computer Integrated Manufacturing (CIM) Laboratory is equipped with Production and Training CNC Machines, including MAHO 5 - Axis machine, Mondiale Lathe, EMCO Lathe, Vertical Machining Center & Training System, Battenfeld Injection Molding Machine, LVD Press Brake & Waterjet Cutting machines, and KUKA Robot; and software including Unigraphics NX, Master CAM, Magics, SolidWork, ANSYS, ADAMS, and LabVIEW.

Metrology Laboratory is equipped with measuring Instruments, including Zeiss Co-ordinate Measuring machine, Zoller Tool Presetting System, Mitutoyo Profile Projector, and Hobson Surface Roughness Tester.

Simulation Laboratory is equipped with network of PCs for class and training. Simulation software such as ARENA and AutoMOD are available. In addition, a high performance computer facility with parallel cluster is also available for research use.

Professional Master's Degree Programs

Industrial & Manufacturing Engineering at AIT now offers a two-year professional master's degree program for full-time working professionals. The program is designed to allow engineers and managers to gain advanced knowledge and earn a master degree without leaving their jobs. Two options are being offered:

- Supply Chain and Logistics Management
- Industrial and Manufacturing Engineering

The curriculum consists of 24-27 credits of coursework and a project of 6 to 9 credits for a total of 33 credits. Regular course load is two courses during regular semester and one course during the break. All classes are taught on Saturday. A field trip to visit world-class enterprises and universities overseas is an integrated part of the curriculum.

*Build new competence and earn a degree
without a career interruption*

Saturday classes only

*Prepare yourself for management position
with international experience*

*Applications are now accepted for
the program starting in August 2008.*

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Certificate Program

in

Rapid Product Realization

This seven-month certificate program is at a graduate level, and designed for professional engineers and lecturers who are interested or are involved in product research and development. The program covers the activities of design, manufacturing and their integration to bring product rapidly to the market. This is a 15-credit master-track program, comprising the following 5 courses:

- Product Design and Development
- Rapid Prototyping & Manufacturing
- CAE/ CAM for Product Development
- Modeling & Simulation of Discrete Event Systems
- Industrial Project

***Reinforce your competence
and earn a degree without a career interruption***

Saturday classes only

Within 7 months

Earn credits toward Master Degree at AIT

***“ Come to realize your creativity
and expand your horizon ”***

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