FACULTY OF ENGINEERING

CHIANG MAI UNIVERSITY

Bachelor of Engineering in Mechanical Engineering (International Program)

PROGRAM EDUCATIONAL OBJECTIVES:

Students will be able to/are

1. successfully **apply** knowledge, theories, methods, and modern tools to solve **engineering problems** while considering ethics and the impact in societal and environmental contexts
2. effectively **communicate** with a range of audiences, can build and maintain good **human relationship**, and can function effectively on a team
3. have **leadership skills** and understandings in **engineering professions** and responsibilities for a successful career
4. familiar with **life-long learning**, as a basic important skill to continue further education

KEY FEATURES:

- Qualified staffs with diverse engineering expertise
- Small class size, up to 30 students per year
- Teaching laboratories and workshop for hands-on learning
- Students' makerspace and access to CNC machines
- Students' clubs such as Formula 1
- Dedicated Engineering library
- Research laboratories for various areas such as renewable energy, thermal systems, robotics, mechanics of materials, agricultural engineering, and medical devices.

SCHOLARSHIP:

Full scholarship (Tuition fee) for a freshman with the highest admission exam score in each academic year.

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BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

(International Program)

FACULTY OF ENGINEERING
CHIANG MAI UNIVERSITY

STUDY PLAN

Year 1

First Semester	Total 20 credits	*Second Semester*	Total 20 credits
206161 Calculus for Engineering 1	3	203162 General Chemistry for Engineering Students	3
207105 Physics for Engineering and Agro-Industry Students	3	203167 General Chemistry Laboratory for Engineering Students	1
207115 Physics Laboratory for Engineering and Agro-Industry Students 1	1	206162 Calculus for Engineering 2	3
259103 Engineering Materials	3	207106 Physics for Engineering and Agro-Industry Students 2	3
259104 Engineering Drawing	3	207116 Physics Laboratory for Engineering and Agro-Industry Students 2	1
259191 Principle of Being Professional Language & Communication	1 3	259107 Engineering Mechanics 1	3
204100 Information Tech and Modern Life	3	Language & Communication	3
		140104 Citizenship	3

Year 2

First Semester	Total 19 credits	*Second Semester*	Total 20 credits
206261 Calculus for Engineering 3	3	254207 Modeling and Graphics for Mechanical Engineering Design	3
254206 Engineering Dynamics 1	3	254216 Mechanics of Solids 2	3
254215 Mechanics of Solids 1	3	254222 Mechanics of Machinery 1	3
254231 Engineering Thermodynamics 1	3	254232 Engineering Thermodynamics 2	3
252285 Fundamentals of Electrical Engineering for Mechanical Engineers	3	254271 Material Property Laboratory for Machine Design Application	1
252286 Fundamentals of Electrical Engineering Laboratory for Mechanical Engineers	1	259201 Computer Programming for Engineers	3
Language & Communication	3	Language & Communication	3
		259195 Managing Activities for Development	1

Year 3

First Semester	Total 19 credits	*Second Semester*	Total 19 credits
206362 Applied Differential Equation for Engineers	3	254334 Heat Transfer	3
254302 Computational Methods for Engineers	4	254362 Manufacturing Processes for Mechanical Engineering	3
254325 Machine Design 1	3	254371 Mechanical Engineering Laboratory 1	1
254333 Fluid Mechanics	3	254373 System Analysis and Control	3
254372 Computer-Based Instrumentation	3	254435 Combustion	3
GE elective	3	GE elective	3
		Free Elective	3

Summer Session	Total 3 credits
254398 Special Study for Cooperative Education	3

Year 4

First Semester	Total 6 credits	*Second Semester*	Total 19 credits
254498 Co-Operative Education	6	254421 Mechanical Vibration	3
		254441 Refrigeration	3
		GE elective	3
		Major Elective	6
		259192 Skills for Professionalism and Entrepreneurship	1
		Free Elective	3

ABOUT THE PROGRAM

The ME curriculum is accredited by the Professional Engineering Council of Thailand. The program is designed to help students gain knowledge, develop skills, and build characters of a professional mechanical engineer. Special emphasis is given to practical problem solving, communication skills, as well as experiences of international and multi-cultural environments. These are achieved through co-operative education with a selected engineering company, overseas placement opportunities, and specially devised activities throughout.

CAREER OPPORTUNITIES

Mechanical engineering graduates are in high demand by employers in all industries such as automotive, food and agriculture, energy, and medical industries. Their key work responsibilities are such as research and development, design and manufacturing, maintenance of machines or mechanical systems, and management.

TUITION FEE

Thai-national students:
50,000 THB per semester

Foreign-national students:
70,000 THB (~ 2,300 USD)
per semester

FOR MORE DETAIL

Department of Mechanical Engineering,
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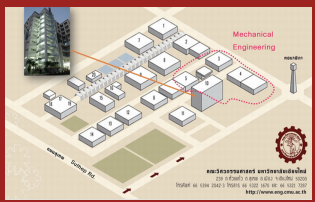
Map of Faculty of Engineering



More information (about admission)

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