ENGINEERING
CHIANG MAI UNIVERSITY

FACULTY OF ENGINEERING

CHIANG MAI UNIVERSITY

Bachelor of Engineering in Mechanical Engineering and Engineering Project Management
(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.

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BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING AND ENGINEERING PROJECT MANAGEMENT

(International Program)

FACULTY OF ENGINEERING CHIANG MAI UNIVERSITY

STUDY PLAN

Year 1

First Semester	Total 20 credits	*Second Semester*	Total 20 credits
001101 Fundamental English 1	3	001102 Fundamental English 2	3
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
		207106 Physics for Engineering and Agro-Industry Students 2	3
259103 Engineering Materials	3	207116 Physics Laboratory for Engineering and Agro-Industry Students 2	1
259104 Engineering Drawing	3		
259191 Principle of Being Professional	1	259107 Engineering Mechanics 1	3
204100 Information Tech and Modern Life	3	140104 Citizenship	3

Year 2

First Semester	Total 19 credits	*Second Semester*	Total 19 credits
001201 Critical Reading and Effective Writing	3	254207 Modeling and Graphics for Mechanical Engineering Design	3
206261 Calculus for Engineering 3	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
254254 Prime Mover Laboratory	1	254271 Material Property Laboratory for Machine Design Application	1
254265 Fundamentals of Mechatronics for Mechanical Engineers	3		
		259201 Computer Programming for Engineers	3
		206362 Applied Differential Equation for Engineers	3

Year 3 (Regular Plan)

First Semester	Total 19 credits	*Second Semester*	Total 17 credits
208263 Elementary Statistics	3	001225 English in Science and Technology Context	3
254302 Computational Methods for Engineers	4	254334 Heat Transfer	3
254325 Machine Design 1	3	254362 Manufacturing Processes for Mechanical Engineering	3
254333 Fluid Mechanics	3	254371 Mechanical Engineering Laboratory 1	1
254372 Computer-Based Instrumentation	3	254373 System Analysis and Control	3
255230 Industrial Organization and Management	3	259195 Managing Activities for Development	1
		Innovative Co-creator	3
Summer Session	**Total 3 credits**		
254493 Industrial Internship	3		

Year 4 (Regular Plan)

First Semester	Total 13 credits	*Second Semester*	Total 16 credits
254421 Mechanical Vibration	3	254491 Capstone Design Project in Mechanical Engineering	3
254444 Design of Thermal Systems	3	259192 Skills for Professionalism and Entrepreneurship	1
254451 Power Plant Engineering	3	General Education Electives	6
254490 Special Study for Project Planning	1	Free Elective	6
Major Elective	3		

Cooperative Plan

Year 3 (Cooperative Plan)

First Semester	Total 19 credits	*Second Semester*	Total 20 credits
208263 Elementary Statistics	3	001225 English in Science and Technology Context	3
254302 Computational Methods for Engineers	4	254334 Heat Transfer	3
254325 Machine Design 1	3	254362 Manufacturing Processes for Mechanical Engineering	3
254333 Fluid Mechanics	3	254371 Mechanical Engineering Laboratory 1	1
254372 Computer-Based Instrumentation	3	254373 System Analysis and Control	3
255230 Industrial Organization and Management	3	259195 Managing Activities for Development	1
		Innovative Co-creator	3
Summer Session	**Total 1 credits**	Free Elective	3
254390 Preliminary Study for Mechanical Engineering Project 1			

Year 4 (Cooperative Plan)

First Semester	Total 6 credits	*Second Semester*	Total 22 credits
254498 Co-Operative Education	6	254421 Mechanical Vibration	3
		254444 Design of Thermal System	3
		254451 Power Plant Engineering	3
		259192 Skills for Professionalism and Entrepreneurship	1
		Major Elective	3
		General Education Electives	6
		Free Elective	3

ABOUT THE PROGRAM

The MEPM 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, project management skills, 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, capstone design project, Summer internship, and specially devised activities throughout.

CAREER OPPORTUNITIES

Graduates from the MEPM program 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 FEES

Thai nationality:
50,000 THB per semester
Other nationalities:
70,000 THB (~ 2,300 USD) per semester

FOR MORE DETAIL

Chiang Mai International Engineering School,
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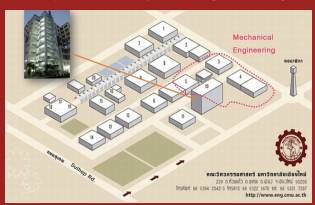
Map of Faculty of Engineering



More information (about admission)

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