



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.

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING AND ENGINEERING PROJECT MANAGEMENT

(International Program)

FACULTY OF ENGINEERING
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STUDY PLAN

Year 1

First Semester

Total 20 credits

001101 Fundamental English 1	3
206161 Calculus for Engineering 1	3
207105 Physics for Engineering and Agro-Industry Students 3	3
207115 Physics Laboratory for Engineering and Agro-Industry Students 1	1
259103 Engineering Materials	3
259104 Engineering Drawing	3
259191 Principle of Being Professional	1
204100 Information Tech and Modern Life	3

Second Semester

Total 20 credits

001102 Fundamental English 2	3
203162 General Chemistry for Engineering Students	3
203167 General Chemistry Laboratory for Engineering Students 1	1
208162 Calculus for Engineering 2	3
207106 Physics for Engineering and Agro-Industry Students 3	3
207116 Physics Laboratory for Engineering and Agro-Industry Students 2	1
259107 Engineering Mechanics 1	3
140104 Citizenship	3

Year 2

First Semester

Total 19 credits

001201 Critical Reading and Effective Writing	3
206261 Calculus for Engineering 3	3
254206 Engineering Dynamics 1	3
254215 Mechanics of Solids 1	3
254231 Engineering Thermodynamics 1	3
254254 Prime Mover Laboratory	1
254265 Fundamentals of Mechanotronics for Mechanical Engineers	3

Second Semester

Total 19 credits

254207 Modeling and Graphics for Mechanical Engineering Design	3
254216 Mechanics of Solids 2	3
254222 Mechanics of Machinery 1	3
254232 Engineering Thermodynamics 2	3
254271 Material Property Laboratory for Machine Design Application	1
256201 Computer Programming for Engineers	3
208362 Applied Differential Equation for Engineers	3

Year 3 (Regular Plan)

First Semester

Total 19 credits

208263 Elementary Statistics	3
254302 Computational Methods for Engineers	3
254325 Machine Design 1	3
254333 Fluid Mechanics	3
254372 Computer-Based Instrumentation	3
255230 Industrial Organization and Management	3

Second Semester

Total 17 credits

001225 English in Science and Technology Context	3
254334 Heat Transfer	3
254362 Manufacturing Processes for Mechanical Engineering 3	3
254371 Mechanical Engineering Laboratory 1	1
254373 System Analysis and Control	3
259195 Managing Activities for Development	1
xxxxxx Innovative Co-creator	3

Summer Session

Total 3 credits

254493 Industrial Internship	3
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Year 4 (Regular Plan)

First Semester

Total 13 credits

254421 Mechanical Vibration	3
254444 Design of Thermal Systems	3
254451 Power Plant Engineering	3
254490 Special Study for Project Planning	1
xxxxxx Major Elective	3

Second Semester

Total 16 credits

254491 Capstone Design Project in Mechanical Engineering 3	3
259192 Skills for Professionalism and Entrepreneurship	1
xxxxxx General Education Electives	6
xxxxxx Free Elective	6

Cooperative Plan

Year 3 (Cooperative Plan)

First Semester

Total 19 credits

208263 Elementary Statistics	3
254302 Computational Methods for Engineers	3
254325 Machine Design 1	3
254333 Fluid Mechanics	3
254372 Computer-Based Instrumentation	3
255230 Industrial Organization and Management	3

Second Semester

Total 20 credits

001225 English in Science and Technology Context	3
254334 Heat Transfer	3
254362 Manufacturing Processes for Mechanical Engineering 3	3
254371 Mechanical Engineering Laboratory 1	1
254373 System Analysis and Control	3
259195 Managing Activities for Development	1
xxxxxx General Education	3
xxxxxx Free Elective	3

Summer Session

Total 1 credits

254390 Preliminary Study for Mechanical Engineering Project 1	1
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Year 4 (Cooperative Plan)

First Semester

Total 6 credits

254498 Co-Operative Education	6
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Second Semester

Total 22 credits

254421 Mechanical Vibration	3
254444 Design of Thermal System	3
254451 Power Plant Engineering	3
259192 Skills for Professionalism and Entrepreneurship	1
xxxxxx Major Elective	3
xxxxxx General Education	6
xxxxxx 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
- 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,
The Faculty of Engineering, Chiang Mai University
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More information (about admission)

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