

FACULTY OF ENGINEERING CHIANG MAI UNIVERSITY

Bachelor of Engineering Program in Electrical Engineering and Smart Grid Technology

ABOUT THE PROGRAM:

Electrical Engineering and Smart Grid Technology is a program that focuses on theory and practice that complies with digital information and control technology to improve the reliability and efficiency of the electric grid.

INTERNATIONAL PARTNERSHIPS:



Muroran Institute of Technology Mie University Montpellier University

Sigma Clermont



Chung Aug University Hanbat National University

Institute Pertanian Bogor University



University of Michigan University of South Carolina



National Taipei University of Technology

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BACHELOR OF ENGINEERING PROGRAM In Electrical Engineering and Smart Grid Technology

Total 19 credits

Total 17 credits

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(International Program)

FACULTY OF ENGINEERING CHIANG MAI UNIVERSITY

STUDY PLAN

Year 1

First Semester	Total 21	credits	
001101 Fundamental English 1		3	
203162 General Chemistry for Engin	eering Stude	nts 3	
203167 General Chemistry Laborator Engineering Students	ry for	1	
206161 Calculus for Engineering 1		3	
207105 Physics for Engineering and Agro-Industry Students 1		3	
207115 Physics Laboratory for Engin Agro-Industry Students 1	eering and	1	
259104 Engineering Drawing		3	
259103 Engineering Materials		3	
259191 Principle of Being Profession	al	1	

Second Semester	Total 20 credits
001102 Fundamental English 2	3
140104 Citizenship	3
206162 Calculus for Engineering 2	3
207106 Physics for Engineering and Agro-Industry Students 2	1 3
207116 Physics Laboratory for Engi Agro-Industry Students 2	neering and 1
259107 Engineering Mechanics 1	3
259106 Workshop Technology	1
259201 Computer Programming for	Engineers 3

001225 English in Science and Technology Context 206362 Applied Differential Equation for Engineers 252210 Basic Electrical Engineering Laboratory 252201 Electrical Measurements and Instruments

Second Semester

252222 Electrical Machines 252311 Electromagnetic Fields and Waves 252317 Signal Analysis

Year 2

First Semester	Total 21	credits
001201 Critical Reading and Effe		3
206261 Calculus for Engineering	3	3
208150 Probability and Statistics		3
252202 Mathematics and Compu- for Electrical Engineering	9 -	3
252213 Electric Circuits Analysis	3	3
252236 Electronic Engineering		3
Innovative Co-creator		3

Year 3			
First Semester To	otal 19 credits	Second Semester	Total 17 cre
252301 Engineering Stochastic Process 252325 Power Generation, Transmissic and Distribution 252330 Electronic Engineering Laborate 252342 Principles of Communication S 252336 Digital Electronics and Microco 252353 Control Systems 261111 Internet and Online Community	on 3 ory 1 ystems 3 ntroller 3 3	252429 Electrical System Design 252435 Power Electronics 252340 Basic Communication Er 252350 Basic Calectrical Power E Major Elective General Education Electi Free Elective	igineering Laboratory ngineering Laboratory

Year 4 (Capstone Design Project Plan)

First Semester	Total 15 cred	lits
252475 Distributed Generation 252423 Electrical Power System 252491 Preliminary Study for Pr 252340 Basic Communication El 252350 Basic Electrical Power 6 General Education Elect Major Elective	n Analysis oject Planning ngineering Laboratory Engineering Laboratory	3 1 1 1 3 4

Year 4 (Cooperative Plan)

First Semester	Total 19 cree	dits
252423 Electrical Power System A	nalysis	3
252475 Distributed Generation Tec		3
252491 Preliminary Study for Proje	ect Planning	1
259192 Skills for Professionalism and Entrepreneurship		1
252340 Basic Communication Engl	neering Laboratory	1 } or
252350 Basic Electrical Power Eng	ineering Laboratory	1
Major Elective		4
General Education Elective	Courses	3
Free Elective		3

Second Semester	Total 6 credits
252488 Cooperative Education	in Electrical Engineering 6

ABOUT THE PROGRAM

The program enhances courses on smart grid technology, electric vehicles, applications of the Internet of Things (IoT) and artificial intelligence (AI) through teaching, operations and extracurricular activities relating to academics, profession, social and service, and others. In accordance with the objectives of the curriculum, to provide students with knowledge and understanding that will benefit the application of electrical engineering for solving engineering problems.

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ENGINEERING

The Faculty of Engineering has a group of personnel with expertise in various fields and has close cooperation with the electrical authorities of Authority Authority (MEA), and the Provincial Electricity Authority (MEA).

CAREER OPPORTUNIITIES

Electrical Engineer in Power System Operator, Power Generation and Energy Management, Electrical Project Engineer, Electrical Asset Engineer, Electrical System Design Engineer, Electrical Field Engineer, Electrical Maintenance Engineer



TUITION FEES

Thai nationality: 50,000 baht per semester Other nationalities 70,000 baht per semester

CONTACT US

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