Bachelor of Technology Program in Energy Technology

General Information

Degree Designation: Bachelor of Technology Program in Energy Technology

Total Credits : 138 credits

Graduate : 4 years

Academic Year

The academic calendar mostly consists of two semesters (Two-semester system). Each semester is not less than 15 weeks. The summer session is scheduled to meet the requirements of each

1 st semester : June - September2 nd semester : November - February

Summer semester : March – May

Course Structure

A: General Education Course

B : Major Course

C : Free Elective Course

A: General Education (30 credits)

1. Language and Communication (9 credits)

- Fundamental Course (6 credits):

Course ID	Course name	Credits
1551001	Fundamental English	3(3-0-6)
1551002	English for Communication	3(3-0-6)
- Free Elective	(3 credits):	
1541001	Thai Language Usage Skills	3(3-0-6)
1541002	Language and Communication for Specific Purposes	3(3-0-6)
1561001	Japanese for Communication	3(3-0-6)
1571001	Chinese for Communication	3(3-0-6)
1571002	Fundamental Chinese for Tourism	3(3-0-6)
1661001	Korean for Communication	3(3-0-6)
1691001	Fundamental Burmese	3(3-0-6)
1691002	Burmese for Communication	3(3-0-6)

2. Humanities (6 credits)

Course ID	Course name	Credits
1001003	Human Behavior and Self-Development	3(3-0-6)
1001005	Thinking and Decision Making Skill	3(3-0-6)
1511001	Ethics and Human Beings	3(3-0-6)
1511002	Facts of Life	3(3-0-6)
1521001	Buddhism	3(3-0-6)
1631001	Information for Study and Research	3(3-0-6)
2011001	Aesthetics of Visual Arts	3(3-0-6)
2051001	Aesthetics of Performing Arts	3(3-0-6)
2061001	Music Appreciation	3(3-0-6)
3501001	Leadership Development	3(3-0-6)
3501003	Personality Development and the Arts of Socializin	g 3(3-0-6)

3. Social Sciences (6 credits)

Course ID	Course name	Credits
2501001	History of Thai Society and Culture	3(3-0-6)
2501003	Public Mind and Civic Social Engagement	3(3-0-6)
2501004	Interdisciplinary Social Science for Development	3(3-0-6)
2501005	Kamphaeng Phet Studies	3(2-2-5)
2521001	Globalization and Localization	3(3-0-6)
2521002	ASEAN Studies	3(3-0-6)
2541001	Human Beings, Community, and Environment	3(3-0-6)
2541002	Local Resource Management	3(3-0-6)
2551002	Fundamental Knowledge on Thai Politics and	3(3-0-6)
	Government	
2561001	Introduction to Laws	3(3-0-6)
3501004	Business Initiation	3(3-0-6)
3531001	Finance in Daily Life	3(3-0-6)
3541001	Entrepreneurship	3(3-0-6)
3591002	Sufficiency Economy	3(3-0-6)

4. Mathematics, Science, and Technology (6 credits)

Select courses in subjects 1. - 4. (3 credits)

Course ID	Course name	Credits
1161001	Sports and Recreation for Quality of Life	3(2-2-5)
1161002	Exercise for Health	3(2-2-5)
4001002	Science and Technology for Daily Life	3(3-0-6)
4001003	Environments and Natural Resources Conservation	3(3-0-6)
4071001	Health and Health Care	3(3-0-6)
4091001	Mathematics in Daily Life	3(3-0-6)
4091003	Mathematics and Decision Making	3(3-0-6)
4121001	Computer and Information Technology	3(2-2-5)
4121005	Website Design and Development	3(2-2-5)
4121006	Package Software for Application	3(2-2-5)
5001001	Agriculture in Daily Life	3(3-0-6)
5071001	Food for Health	3(3-0-6)
5501001	Technology in Daily Life	3(3-0-6)

B: Major Course (102 credits)

Major Requirement (36 credits)

Course ID	Course name	Credits
5751101	Renewable Energy	3(2-2-5)
5751102	Instruments and Measurement of Energy	3(2-2-5)
5751103	English for Communication and Search	3(2-2-5)
5751104	Industrial Safety	3(2-2-5)
5751301	Energy and Environmental Impact	3(2-2-5)
5751401	Information Technology	3(2-2-5)
5752201	Energy Conversion	3(2-2-5)
5752202	Energy Storage System	3(2-2-5)
5753104	English for Energy	3(2-2-5)
5753302	Energy Economics	3(2-2-5)
5753303	Community Energy Development	3(2-2-5)
5754305	Research and Development of Energy Technologie	s 3(2-2-5)

Major Elective Course (60 credits)

Course ID	Course name	Credits
5752107	Materials for Energy	3(3-0-6)
5752108	Electrical Apply for Energy Management	3(2-2-5)
5752203	Biomass Energy Technology	3(2-2-5)
5752204	Solar Energy Technology	3(2-2-5)
5752205	Wind and Hydro Energy Technology	3(2-2-5)
5752207	Bio Fuels Energy Technology	3(2-2-5)
5752210	Alternative Energy Technology	3(2-2-5)
5753103	Heat Transfer	3(3-0-6)
5753105	Energy Audit and Energy Conservation	3(2-2-5)
5753106	Basic Research	3(2-2-5)
5753208	Photovoltaic System	3(2-2-5)
5753209	Drying Technology	3(2-2-5)
5753304	Industrial Energy Management	3(2-2-6)
5753306	Energy Management in Agriculture	3(2-2-5)
5753401	Smart Grid Technology	3(2-2-5)
5753402	Computer Aided Design of Energy Systems	3(2-2-5)
5754109	Energy Seminar	3(2-2-5)
5754111	Energy Business	3(2-2-5)
5754307	Fuels Energy Management	3(3-0-6)
5754309	Software Application for Industrial Technology	3(2-2-5)
5754310	Introduction to Electricity and Electronic	3(2-2-5)
5754311	Mathematics for Energy	3(3-0-6)
5754312	Technical Maintenance for Energy	3(2-2-5)

Professional Experience or Cooperative Education (6 credits)

Select a plan

Course name	Credits
Preparation of Training Experience	1(90)
Field Experience	5(450)
Cooperative Education	6(540)
	Preparation of Training Experience Field Experience

C: Free Elective Course (6 credits)

Freely choose any courses provided by the university. The courses chosen must not have been taken before by the student and must not be the compulsory non-credit courses.