

Bachelor of Technology Program in Electrical Engineering Technology

General Information

Degree Designation : Bachelor of Technology Program in Electrical Engineering Technology

Total Credits : 135 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 - September
- 2 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 Socializing	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 Government	3(3-0-6)
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 (99 credits)

Major Requirement (77 credits)

Course ID	Course name	Credits
5711101	Engineering Mathematics 1	3(3-0-6)
5711102	Engineering Mathematics 2	3(3-0-6)
5711103	Fundamental Science for Engineers	4(3-3-7)
5711104	Computer Programming	3(2-2-5)
5711105	Direct Current Circuits Analysis	3(2-2-5)
5711106	Electrical Engineering Operations and Safety	3(0-6-3)
5711107	Engineering Drawing	3(2-2-5)
5711108	Digital Circuits	3(2-2-5)
5711109	Electrical Engineering Materials	3(3-0-6)
5712101	Alternating Current Circuits Analysis	3(2-2-5)
5712102	Electrical Engineering Mathematics	3(3-0-6)
5712103	Electromagnetic Fields	3(3-0-6)
5712104	Electrical Instruments and Measurements	3(2-2-5)
5712105	Engineering Electronics	3(2-2-5)
5712106	Electrical Machines	3(2-2-5)

Course ID	Course name	Credits
5712108	Electrical Power Generation, Transmission and Distribution	3(2-2-5)
5712109	High Voltage Engineering	3(2-2-5)
5713101	Electric Power Systems Analysis	3(2-2-5)
5713102	Engineering Statistics	3(3-0-6)
5713103	Power Electronics	3(2-2-5)
5713104	English for Engineers	3(2-2-5)
5713105	Power System Protection and Relays	3(2-2-5)
5713106	English for Industrial Work	3(2-2-5)
5713107	Renewable Energy Technologies	3(2-2-5)
5713108	Electrical Technology Engineering Pre-Project	1(0-2-1)
5714101	Electrical Technology Engineering Project	3(0-6-3)

Major Elective Course (15 credits)

Course ID	Course name	Credits
5713201	Electrical Motor Control with a Programmable Controller	3(2-2-5)
5713202	Electrical System Design	3(2-2-5)
5713203	Microprocessors and Microcontroller	3(2-2-5)
5713204	Administration and management in the industry	3(2-2-5)
5714201	Illumination Engineering	3(2-2-5)
5714202	Refrigeration and Air Conditioning Systems	3(2-2-5)
5714204	Design and Application of Solar Energy Systems	3(2-2-5)

Professional Experience or Cooperative Education (7 credits)

Select a plan

Course ID	Course name	Credits
5714401	Preparation for Industrial Training	2(90)
5714402	Industrial Training	5(450)
or		
5714403	Preparation for Co-operative Education	1(45)
5714404	Co-operative Education	6(540)

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.