

Bachelor of Technology Program in Electronics Computer

General Information

Degree Designation : Bachelor of Technology Program in Electronics Computer

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 (100 credits)

Core subjects (36 credits)

Course ID	Course name	Credits
5801101	English for Industrial Technology	3(2-2-5)
5801102	Applied Mathematics for Industrial Technology	3(3-0-6)
5801103	Physics for Industrial Technologists	3(2-2-5)
5802101	Mathematics Electronics and Computer	3(2-2-5)
5803801	Statistical Research Industrial Technology	3(2-2-5)
5804101	English in Electronics and Computer	3(2-2-5)
5801201	Basic Electronics and Applications	3(1-4-4)
5801202	Electrical and Electronics Drafting	3(2-2-5)
5801601	Measurement and Instrumentation	3(2-2-5)
5801701	Computer systems and Maintenance Equipment	3(2-2-5)
5801702	Language Programming in Industrial	3(2-2-5)
5801703	Computer Network and Protocols	3(2-2-5)

Major Requirement (36 credits)

Course ID	Course name	Credits
5801301	Electronic Circuits Analysis	3(2-2-5)
5802202	Electrical and Electronic Appliance Services	3(2-2-5)
5802301	Direct Current Circuit Analysis	3(2-2-5)
5802401	Digital Circuit Design	3(2-2-5)
5802501	Industrial Electronics	3(2-2-5)
5802502	Programmable Logic Control (PLC) Technology	3(2-2-5)
5802701	Database System Design and Management	3(2-2-5)
5802702	System Analysis and Design	3(2-2-5)
5802703	Web Database Development Design	3(2-2-5)
5803401	Telecommunication Technology	3(2-2-5)
5803701	Engineering Designs and Drawings with a Computer Program	3(2-2-5)
5804801	Project of Electronics Computer	3(0-6-3)

Major Elective Course (21 credits)

Course ID	Course name	Credits
5801104	Materials and Technology	3(2-2-5)
5801105	Industrial Drawing	3(2-2-5)
5801203	Fundamental for Industrial Technicians	3(1-4-4)
5801204	Industrial Safety	3(2-2-5)
5802201	Electronic Circuit Design	3(2-2-5)
5802402	Electromagnetic Fields and Waves	3(2-2-5)
5802503	Power Electronics and Application	3(2-2-5)
5802705	Graphic Design and Application Developer Animation	3(2-2-5)
5802801	Industrial Economics	3(2-2-5)
5802901	Small Business Management in Electronics Computer	3(2-2-5)
5803101	Personnel Development and Training Industrial	3(2-2-5)
5803301	Alternating Current Circuit Analysis	3(2-2-5)
5803402	Sensors and Transducers	3(2-2-5)
5803403	Satellite Communications	3(2-2-5)
5803404	Audio and Video Technology	3(2-2-5)

Course ID	Course name	Credits
5803501	Microcontroller and Interfacing	3(2-2-5)
5803502	Microprocessor and Applications	3(2-2-5)
5803503	Industrial Robots	3(2-2-5)
5803504	Automatic Control System	3(2-2-5)
5803702	Network Management and Design	3(2-2-5)
5803703	e-Commerce System Design	3(2-2-5)
5803803	Selected Topics in Electronics Computer	3(2-2-5)
5803804	Special Topics in Electronic Computer	3(2-2-5)
5804103	Industrial Management	3(2-2-5)
5804201	Biomedical Electronics	3(2-2-5)
5804701	Information Technology in Industrial	3(2-2-5)

Professional Experience or Cooperative Education (7 credits)

Select a plan

Course ID	Course name	Credits
5804901	Preparation for Field Experience in Electronic Computer	2(90)
5804902	Field Experience in Electronic Computer	5(450)
or		
5804903	Cooperative Education Preparation	1(45)
5804904	Cooperative 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.