

# engineering

B.Eng. in Energy Engineering

## program structure

### Energy engineering program

is designed to support for future energy Industries. The program offers an engineering course which is consistent with the Energy law.

Our students will learn the skills required for energy fields; Process design for Energy conservation, Energy management, Energy in building and transportation including the plan to modify production equipment energy technology.

The program also provides cooperative education as well as industrial training to prepare for effective future careers with professional expertise by combining basic knowledge and practicality.



**Total 143 credits**

General Education 30 credits  
Major courses 107 credits  
Free electives 6 credits



### A FOURTH-YEAR INTERNATIONAL PROGRAM

IS SUITABLE FOR STUDENTS WHO ARE SEEKING TO DEVELOP THEIR TECHNICAL KNOWLEDGE AND THE ASPECTS OF ENERGY ENGINEERING AND FORM A SUITABLE BASIS FOR A CAREER FOCUSED ON ENGINEERING SOLUTIONS TO ENERGY ENGINEERING ISSUES.

## tuition fee

2,750 USD/semester

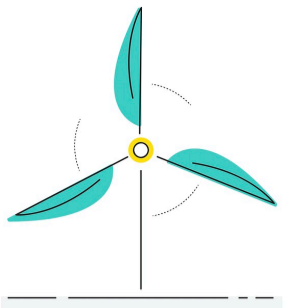
(21,820 USD for the entire program)

\*\* 90,000 baht/semester

(720,000 baht for the entire program)



# Energy engineering study plan



## Semester 1

## Semester 2

### Year 1

Introduction to Calculus  
Physics 1  
Introduction to Engineering Programming  
Chemistry  
Engineering Materials  
(GENED ELECTIVE): Interpretation and Argument  
(ESL) Academic Listening and Speaking

Physics 2  
Advanced Calculus  
Engineering Drawing  
Engineering Mechanics  
(GENED ELECTIVE): Introduction To Economics  
(GENED ELECTIVE)  
(ESL) Academic Reading And Writing

### Year 2

Thermodynamics  
Fundamental of Electronic Circuits Analysis  
Fluids Mechanics  
(GENED ELECTIVE)  
Introduction to Renewable Energy  
Differential Equations and Linear Algebra  
(GENED ELECTIVE): Asian Study

Heat And Mass Transfer  
Refrigeration And Air Conditioning  
Introduction to Electric Power Systems  
Energy Generation and Storage Systems  
Power Electronics  
Photovoltaic and Applications  
(GENED ELECTIVE): Lean Startup and Agile Business

### Year 3

Energy Economics  
Energy Conservation and Management  
Power Plant Engineering  
Electrical Power and Machines  
Energy in Building  
(Engineering Elective)  
Energy Engineering Laboratory 1

Thermal Systems Design  
Energy in Transportation Systems  
Measurement and Energy Audit  
Energy and Recovery Systems  
(GENED ELECTIVE): Design Methods for Innovations  
(Engineering Elective): Energy Law  
Energy Engineering Laboratory 2

### Year 3

*Summer - Industrial Training*

### Year 4

Energy Engineering Project 1  
Free Elective Course  
(GENED ELECTIVES)

Energy Engineering Project 2  
(GENED Elective): Leadership and Personal Development  
Free Elective Course

— or —

— or —

Cooperative Education

(GENED Elective): Leadership and Personal Development  
(GENED ELECTIVE)  
Free Elective Course  
Free Elective Course

— or —

Study Abroad

— or —

Overseas Training

