

engineering

B.Eng. in Mechatronics and Automation Engineering

program structure

Mechanical engineering is one of the oldest disciplines. Today it is still a very broad and diverse field of engineering. In the field of machineries and equipment, which is the most important lots of career opportunities lying ahead of students who can pursue the degree of this challenging field.

Major industries, which require mechanical engineers, include automotive, power plants, railway, construction and building systems, and many more manufacturers.

In modern world, many fields of integrated engineering, creating states of art technologies such as artificial intelligence in robotics, autonomous cars and unmanned aerial vehicles.

Total 147 credits to complete the degree

General Education 30 credits
Major courses 110 credits
Free electives 6 credits

The curriculum comprises of core courses and selective courses in mechanical engineering, including

Applied Mechanics and System Dynamics and Control

Energy System and Thermo

Fluid

Manufacturing and Materials Science

MECHATRONICS AND AUTOMATION ENGINEERING

often find themselves working closely among other engineering techniques in many areas such as Petro - Chemical, biomedical and various research fields.

tuition fee

2,750 USD/semester

(21,820 USD for the entire program)

** 90,000 baht/semester

(720,000 baht for the entire program)



engineering

study plan

Semester 1

Semester 2

Year 1

General Physics 1
 General Physics Laboratory 1
 General Chemistry
 General Chemistry Laboratory
 Pre-Activities for Engineers
 Calculus 1
 Engineering Drawing/ Computer Programming
 Engineering Mechanics/ Engineering Materials
 Foundation English

General Physics 2
 General Physics Laboratory 2
 Calculus 2
 Engineering Drawing/ Computer Programming
 Engineering Mechanics/ Engineering Materials
 English for Communication
 Charm School
 Sports and Recreational Activities

Year 2

Elementary Differential Equation and Linear Algebra
 Electromagnetic Fields
 Electric Circuits
 Digital Circuits and Microprocessors
 Electrical Instruments and Measurements
 Mechatronics and Automation Engineering Laboratory 1
 English for Academic Purposes
 Fun With Ai

Engineering Electronics
 Electrical Machines
 Sensors and Transducers
 Control Systems
 Mechatronic and Automation Engineering Laboratory 2
 (GENED Electives): Value of life
 (GENED Electives): Language and Communication

Year 3

Statistics and Numerical Computation
 Thermo-Fluids
 Programmable Logic Control Systems
 Process Instrumentation
 Signals and Systems
 (GENED Electives): Art of Management
 Programmable Control and Distributed Control Systems Laboratory
 Process Instrumentation and Calibration Laboratory

Industrial Management
 Industrial Data Communications and Automation Systems
 Industrial Robotics and Machine Vision
 Safety Instrumented System Design
 Artificial Intelligence and Internet Of Things
 Industrial Networks and Scada System Laboratory
 Industrial Robotics and Machine Vision Laboratory
 (GENED Electives): Value of life

Year 3

Summer - Industrial Training

Year 4

Engineering Elective 1
 Engineering Elective 2
 Engineering Project 1
 Free Elective 1

— or —

Cooperative Education

— or —

Study Abroad

— or —

Oversea Training

Engineering Elective 3
 (GENED Electives)
 Engineering Project 2
 Free Elective 2

— or —

(GENED Electives)

Free Elective 1

Free Elective 2

Engineering Elective 1

Engineering Elective 2

Engineering Elective 3

