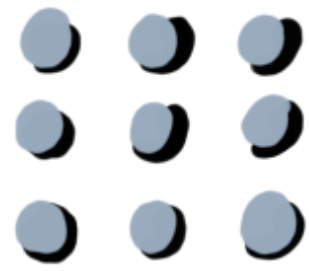


# engineering

B.Eng. in Robotics and AI Engineering

Dual Degree (Bachelor of Engineering) from Chulalongkorn University



## program structure

### Total 129 credits

General Education 30 credits

Major courses 93 credits

Free electives 6 credits

The curriculum is designed to drive innovations. By combining theoretical foundations with hands-on experience and project-based learning, the students will learn the skills required for today's workforce.



We embrace the 21st century learning environment to cultivate the students' creativity, critical-thinking, communication and collaboration skills.

Our graduates will be lifelong learners who are aware of technical and societal issues.

They will be able to create engineering innovations with economics impact and benefit our society.

## tuition fee

2,750 USD/semester

(21,820 USD for the entire program)

\*\* 90,000 baht/semester

(720,000 baht for the entire program)

## collaboration



 and more.

# Robotics and AI engineering

## study plan

### Semester 1

### Semester 2

Year 1

Computer Programming  
Introduction to Calculus  
Physics  
GEN-ED Electives  
Engineering Drawing  
(ESL) Academic Listening and Speaking

Introduction to Robotics  
Engineering Mechanics  
Advanced Calculus  
GEN-ED Electives (Physic 2)  
(ESL) Academic Reading and Writing

Year 2

Engineering Materials  
GEN-ED Electives  
GEN-ED Electives  
Differential Equations and Matrix Algebra  
Feedback Control 1  
(Gen-ed) Interpretation and Arguments

GEN-ED Electives  
Safety and Standardisation in RAI  
RAI Elective Mandatory Subject  
Kinematics and Dynamics  
Manufacturing Process

Year 3

**Regular**

Artificial Intelligence Technology  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject  
RAI Elective Subject  
RAI Elective Mandatory Subject  
GEN-ED Electives (Science & Math)

RAI Elective  
(Free Elective)  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject  
GEN-ED Electives

Year 3

**Study-Abroad**

GEN-ED Electives  
(Free Elective)  
RAI Elective Subject  
RAI Elective Subject  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject

Year 3

*Summer (All Tracks) - Industrial Training*

Year 4

**Regular**

Free Elective  
RAI Elective Subject  
RAI Elective Mandatory Subject  
RAI Capstone Design Preparation

RAI Elective Subject  
RAI Elective Subject  
RAI Elective Mandatory Subject  
RAI Capstone Design Preparation

Year 4

**Study-Abroad**

Cooperative Education

or

Study Abroad

RAI Elective Subject  
RAI Elective Subject  
RAI Elective Mandatory Subject  
RAI Elective Mandatory Subject  
RAI Capstone Design Preparation  
Free Elective

