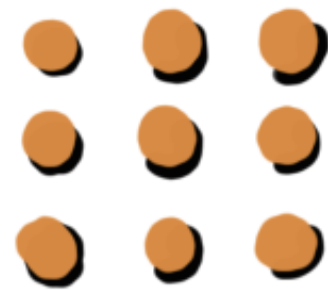


engineering



B.Eng. in Civil Engineering

overview

Students who complete this program will be ready to join a government agency or continue on to graduate studies. Alternatively they will also be equipped with the skills necessary to become industry professionals.

This program is fully accredited by the Council of Engineers. Besides providing a broad traditional civil engineering background focusing on basic theory and design, the program offers unique and thematic knowledge with a focus on innovative advancements in technology, applications, tools, and software in civil engineering.

The program also offers students the opportunity to participate in the Civil Engineering Cooperative Program, overseas training and a number of international academic competitions.

program structure

Total 145 credits

General Education 30 credits
Major courses 91 credits
Major electives 18 credits
Free electives 6 credits

5 specialisations to choose from in years 3 & 4:



Geotechnical Engineering & Tunnelling



Construction Engineering & Infrastructure Management



Structural Engineering, Mechanics & materials



Transportation Engineering & GIS



Water Resources & Environmental Engineering

tuition fee

2,750 USD/semester

(21,820 USD for the entire program)

** 90,000 baht/semester (720,000 baht for the entire program)

Civil engineering



study plan

Semester 1

Semester 2

Year 1

INTRODUCTION TO ENGINEERING PROGRAMMING
INTRODUCTION TO CALCULUS
PHYSICS 1
(SCIENCE & MATH ELECTIVE) CHEMISTRY
ENGINEERING MATERIALS
ACADEMIC LISTENING AND SPEAKING

ADVANCED CALCULUS
PHYSICS 2
ENGINEERING DRAWING
ENGINEERING MECHANICS
ACADEMIC READING AND WRITING
GENED ELECTIVE 1
GENED ELECTIVE 2

Year 2

NUMERICAL METHODS
DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA
SURVEYING
MECHANICS OF MATERIALS 1
HYDRAULICS
HYDRAULICS LABORATORY
INTRODUCTION TO ENVIRONMENTAL PRINCIPLES

ADVANCED MATHEMATICS FOR CIVIL ENGINEERING
CONCRETE AND CIVIL ENGINEERING MATERIALS
CIVIL ENGINEERING MATERIALS TESTING LABORATORY
HYDROLOGY
THEORY OF STRUCTURES
GENED ELECTIVE 3
(GENED ELECTIVE): PROBABILITY AND STATISTICS
SURVEYING CAMP

Year 3

STRUCTURAL ANALYSIS
SOIL MECHANICS
SOIL MECHANICS LABORATORY
TRANSPORTATION ENGINEERING
REINFORCED CONCRETE DESIGN
CE ELECTIVE
GENED ELECTIVE 4

HYDRAULIC ENGINEERING
TIMBER AND STEEL DESIGN
FOUNDATION ENGINEERING AND DESIGN
CE ELECTIVE
GENED ELECTIVE 5
FREE ELECTIVE 1

or

+ GENED ELECTIVE 6

Year 3

Summer - Industrial Training

Year 4

FREE ELECTIVE 2
CE ELECTIVE
CE ELECTIVE
CE PROJECT PREPARATION
GENED ELECTIVE

or

COOPERATIVE EDUCATION

or

STUDY ABROAD

CONSTRUCTION ENGINEERING AND MANAGEMENT
CE ELECTIVE
CE PROJECT
GENED ELECTIVE 7

or

+ FREE ELECTIVE 2
+ CE ELECTIVE