

Educational Aim and Philosophy

Our educational aim, in accordance with the spirit of the Basic Act on Education and pursuant to the School Education Law, is to provide our students with intimate knowledge of their specialized fields, help them to develop professional skills, and ultimately make them engineers sound in mind and body. At the core of our educational philosophy is the belief that an engineer should have a humanistic, international, inquiring, creative and expressive attitude.

Throughout the Associate's Courses, students are trained to be practical engineers with basic education and expertise, who are able to grasp and analyze the exact nature of an object, simulate and synthesize its complex structure, and cooperate in a group, enhancing each other's capacity.

Throughout the Advanced Course, students are trained to be creative engineers with sophisticated education and expertise, who are able to find and solve problems, research and develop cutting-edge technology, and devise new inventions for an advanced information society.

To achieve these aims, we must adhere to the following Learning/Teaching Goals, in which students are required to:

- A) have a rich education, the ability to think independently, and compassion for others so that they will be able to work for world peace.
 - A-1: be able to think by themselves.
 - A-2: learn engineering ethics.
- B) have a basic understanding of mathematics, natural sciences, information technology and their specialties, which is essential for a scientific engineer.
 - B-1: have a basic understanding of mathematics and natural sciences.
 - B-2: have a basic understanding of information technology and their specialties.
- C) be able to communicate with other people and understand other cultures in order to work both locally and globally.
 - C-1: be able to lead a discussion.
 - C-2: be able to communicate in English.
- D) be a creative engineer able to explore, analyze and imagine.
 - D-1: be able to explore, analyze, imagine and design.
 - D-2: be able to work together to solve problems.
- E) acquire and use knowledge in specialized areas of engineering, understanding their interdependencies.
 - E-1: have knowledge in specialized areas of engineering.
 - E-2: understand the interdependencies between different areas of engineering.
 - E-3: be able to find and solve problems through research and development experiences in their specialized field.