

### **Mechanical and Energy Systems Engineering**

Develops comprehensive problem-solving skills and creativity, through participation in high-level research activities that build on a wide range of acquired knowledge and techniques in both mechanical and energy engineering. Research and studies have their primary focus on material mechanics, thermal engineering, fluid mechanics, mechanical dynamics, and energy conversion engineering.

### **Electrical and Electronic Engineering**

Is intended to foster highly creative researchers and engineers who can play a leading role in the field of electrical and electronic engineering with the expertise. Therefore, this program focuses on developing research capability in addition to the acquisition of more advanced knowledge on top of the university education. Here, we offer a wide range of electrical and electronic engineering-related courses that graduate students can select and attend. Each graduate student belongs to one of the laboratories related to research themes such as control communication, electronic devices engineering, electromagnetic dynamics, and electronic information systems engineering. In each laboratory, graduate student will gain mastery in meeting the emerging needs and demands from society under the guidance of professional supervisors.

### **Computer Science and Intelligent Systems**

Develops deep insight into the essence of “knowledge” and “information” through study and research in the triaxial core programs of computer science fundamentals, computer systems, and intelligent systems, for the development of information engineers and researchers with a high-level of expertise in hardware and software for information generation, processing, and transmission, and who can build intelligent, organically integrated systems that include human aspects.

### **Applied Chemistry**

Provides individuals with an education in high-level chemistry and develops basic research skills for fundamental chemistry. This then leads to advanced research activities which are essential to meet emerging societal needs, in areas such as new functional materials, energy conversion materials, functional carbon materials that are environmentally friendly, functional enzymes by genetic recombination, molecular-level measurement techniques, functional liquid-crystal materials, and materials based on new developments in organism mimicry.

### **Architectural Engineering**

Develops individuals who can conduct architectural design and research activities to meet the rapidly rise in demand for local and urban living spaces, and builds a strong understanding of fundamental concepts in architecture.

Study and research primarily focused on the disciplines of architectural environment engineering, architectural and urban planning, architectural materials, and architectural structures.

### **Human Environment Engineering**

Develops high-level engineers and researchers with extensive knowledge and scholastic attainments in engineering contributing to society’s well-being. Students may study in either of the following areas:

**Architecture** Develops high-level knowledge and capabilities through research themes focused on building a society with greater safety and security in everyday life, and for conceptualization of a society with greater well-being and its realization through improvement of the living environment.

**Mechatronics** Develops high-level knowledge and capabilities through research themes focused on robots and other machines, and their use to increase the quality of people’s lives.