COLLEGE OF ENGINEERING

Mission

To cultivate engineering professionals with innovative thinking, professional competence, dedication, teamwork, and occupational ethics to serve the community and establish a sustainable operating environment.

Educational Objectives

To cultivate engineers with independent problem-solving skills, system integration capability and the ability to integrate various engineering and technology management skills.

To possess proficiency in both theoretical knowledge and practical application. To engage in research and development in engineering-related fields.

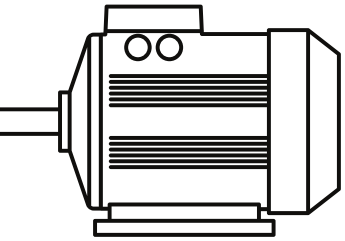
To integrate industry demands and visions and promote the extensive application of engineering.

To cultivate the personal qualities of lifelong learning and social concern.

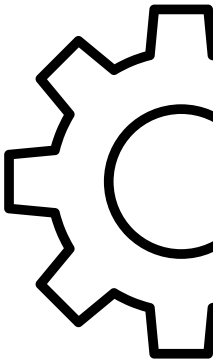
Features of Development

- Micro-nano electromechanical systems, component processing, and testing technologies
- Intelligent control and automation systems
- Advanced vehicles and new energy sources
- Advanced communication and system chip technologies
- Cloud technology
- Smart grid systems
- Solar photovoltaic and LED engineering technologies
- Special-purpose and health-promoting strains, genetic engineering, and strain improvement technologies
- Fermentation and cultivation techniques for advanced fungi; authentication and safety assessments of health products
- Bionic technology and creative engineering
- Application of digital signal processing, biomedical engineering, and image processing techniques
- Equipment for the green energy industry
- Key technologies for medical devices
- Intelligent lightweight mobile vehicles
- Key technology for distinctive robotics

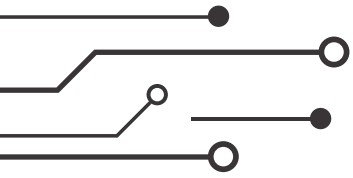
Departments



- Department of Mechanical Engineering (M.S./Ph.D.)
- Department of Electronic Engineering (M.S./ Ph.D.)
- Department of Electrical Engineering (M.S./ Ph.D.)
- Department of Computer Science and Information Engineering (M.S.)
- Department of Chemical and Materials Engineering (M.S.)
- Department of Semiconductor and Electro-Optical Engineering (M.S.)



Research Centers



- Center for Intelligent Healthcare
- Center for Smart Grid Technology
- Center for Intelligent Mobility
- Center for Smart Manufacturing
- Center for Sports Technology
- Research Center of Biotechnology
- Nanotechnology Research Center
- Semiconductor Research Center
- Institute Of Biomedical Engineering
- Precision Machinery Research and Development Center
- Ancient Machinery Research Center
- Optoelectronics and Integrated Circuit Failure Analysis Center
- Automation Center
- Instrument Center

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