

Contributing to Sustainable Development



Technology looking to the future, youth interests and sustainable efforts lead to the new age

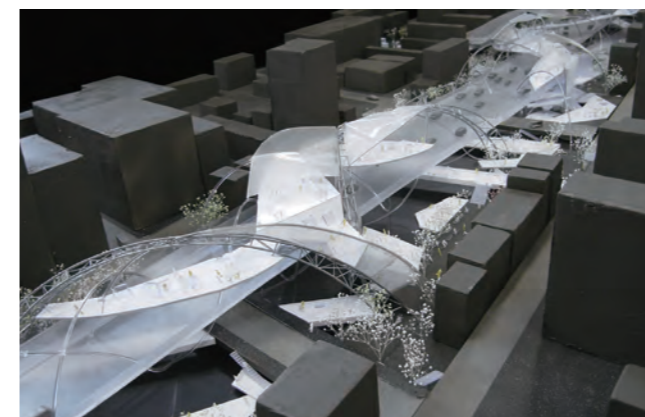
Science and technology today, as typified by IT and biotechnology, have been developed in the studies of engineering, and contributing to dramatic improvement of society and industries. On the other hand, in the 21st century, humans are faced with various problems including global environmental problems we have never experienced before, and thus we have the challenge of developing of nature-conscious Soft Technology. The School of Engineering established one of the national best education systems with 6 departments to cultivate human resources who can efficiently deal with diversified and sophisticated needs of the society. The origin of engineering which creates the affluent society comes from intellectual curiosity and infinite inquisitive spirits of youths. We are looking for new students who have dreams and hopes for future science and technology. Shall we take part in making challenging new technology for the 21st century together?

Departments have been renewed

Advancement of science and technology and the requirements for technology have been rapidly changing, such as base-ment and application research associated with disseminating advanced technology to the world, the creation of urban space bringing affluent and healthy living to society, response to global environmental issues. Engineering should solve more interdisciplinary and sophisticated issues. Faculty of Engineering has been restructured with 6 departments to strengthen education and research curriculums since 2009, and renewed as the new system mobilizing the broad knowledge and creativity from field of academic study.

Graduate School, integrating and deepening theory and practice

In response to the further improvement of science and technology, Graduate School of Engineering consists of 4 majors, covering broad areas in order to develop experts and researchers with outstanding specialist capabilities who will be the bearers of the next generation; 1) Mechanical and Physical Engineering, specializing in mechanical engineering which is the key foundation of manufacturing, and its basic field; 2) Physical Electronics and Informatics, creating the physical science foundations which sustain the advanced information society, and advanced technologies; 3) Applied and Bioapplied Chemistry, focusing on the environment-conscious technology, producing next-generation materials; 4) Urban Engineering, creating and maintaining social infrastructure, architecture and life environments in urban cities. To provide well-developed education curriculums and achieve outstanding research results, each major consists of pre-doctoral course (2years) and subsequent doctoral course (3 years).



Research Fields

Undergraduate		Graduate
Department	Research Fields	Department
Mechanical Engineering	Thermal Engineering, Fluid Engineering, Machine Dynamics, Production Engineering, Power System Engineering, Smart Composites Engineering, Materials Modeling & Evaluation, Materials Physics & Mechanics, Materials Functioning & Engineering	Mechanical & Physical Engineering
Applied Physics & Electrical Engineering	Electromagnetics, Electronic Materials & Measurements, Optical Properties & Functions of Materials, Design of Material Properties, Physical Wave Engineering, Advanced Spectroscopy & Measurement, Mathematical Physics,	Physical Electronics & Informatics
Information & Communication Engineering	Electronic Circuits, Optoelectronics, Electromagnetic Devices, Information System Engineering, Information Processing Engineering, Knowledge & Data Engineering, Information Networking Engineering, Communication System Engineering	
Applied Chemistry & Bioengineering	Inorganic Industrial Chemistry, Organic Industrial Chemistry, Polymer Chemistry, Industrial Physical Chemistry, Material Chemistry, Biomolecular Engineering, Biochemical Engineering, Biofunctional Engineering, Biomaterials Engineering, Cell Engineering	Applied & Bioapplied Chemistry
Architecture & Building Engineering	Disaster Prevention for Architecture, Structural Engineering for Architecture, Architectural Environmental Engineering, Architectural Planning, Architectural Design, Spatial & Graphic Science	Urban Engineering
Urban Design & Engineering	Urban Planning & Design, Urban Environmental Planning, Estuarine & Coastal Ecosystem Engineering, Urban Recycle Engineering, Structural & Concrete Engineering, Applied Structural Engineering, Geotechnical Engineering, Infrastructure Planning & Transportation Engineering, Hydraulic Engineering Spatial & Graphic Science	
Applied Mathematics & the Miscellaneous	Applied Mathematics, Machine Work Shop	(Mechanical & Physical Engineering)

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