

Course Number	07015
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2007 「The International Priority Graduate Programs (PGP)」

～Advanced Graduate Courses for International Students～

【1. Profile of the University】

①University Department	Graduate School of Engineering, the University of Tokyo		
②President	KOMIYAMA Hiroshi		
③Address (Headquarters)	〒113-8656 7-3-1 Hongo, Bunkyo-ku, Tokyo Japan		
④Contact	Division	Office of International Cooperation and Exchange, Graduate School of Engineering	
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⑤Web-Address	http://www.t.u-tokyo.ac.jp		
⑥Enrollment (only Graduate School)	703 (include MEXT's Scholarship Students: 286)		

【2. Outline of the Course】

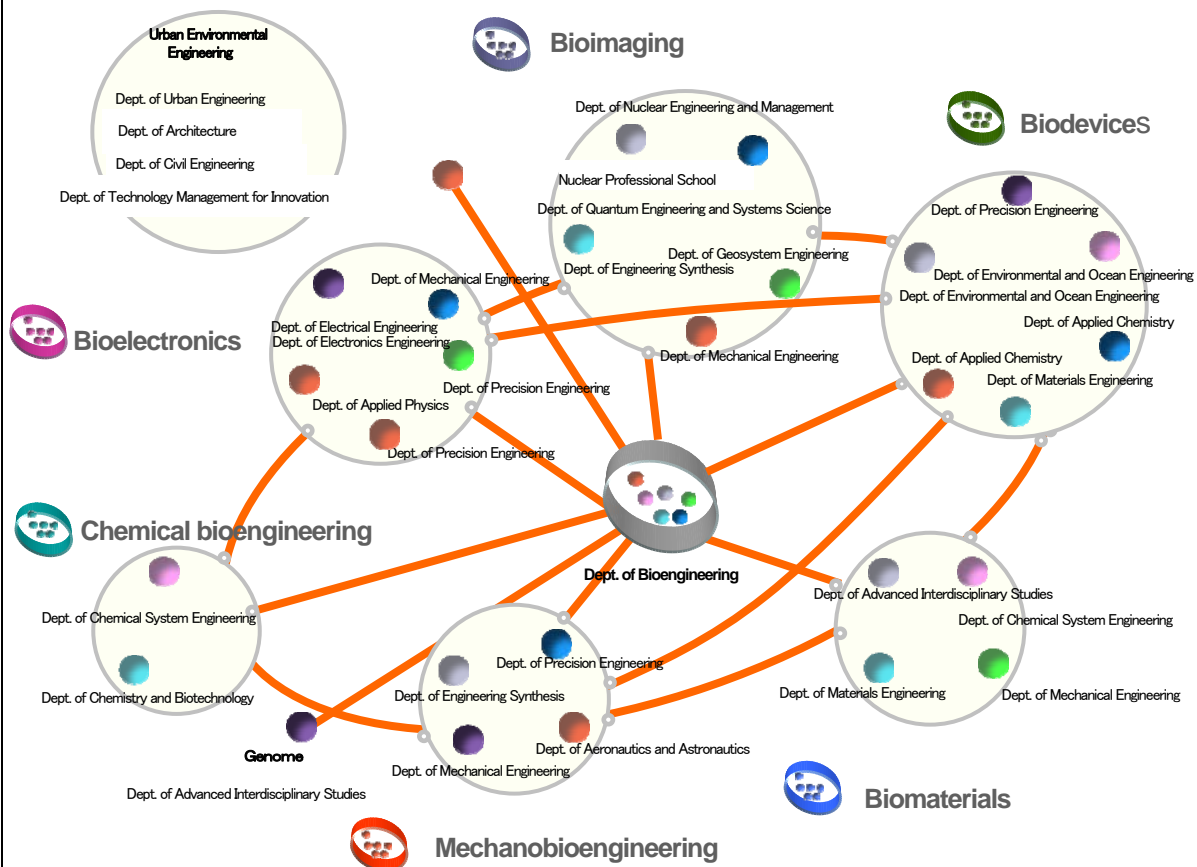
①Course	Specially-promoted Graduate Program for creation of the Asian Engineering Framework based on tripolar alliances among Japan, China and Korea
②Degree	Ph. D. Program (3 years)
③Form	A program run by several universities (inter-university program Tokyo-Seoul-Beijing)
④Graduate Course, Department	Department of Bioengineering, Graduate School of Engineering
	(Address)7-3-1 Hongo, Bunkyo-ku, Tokyo Japan
⑤Collaboration (Universities, Graduate courses, Departments)	22 Departments in the Graduate School of Engineering collaborate under the leadership of the Department of Bioengineering Breakdown of the 22 departments: Dept of Bioengineering, Dept. of Civil Engineering, Dept. of Architecture, Dept. of Urban Engineering, Dept. of Mechanical Engineering, Dept. of Engineering Synthesis, Dept. of Precision Engineering, Dept. of Environmental and Ocean Engineering, Dept. of Aeronautics and Astronautics, Dept. of Electrical Engineering, Dept. of Electronics Engineering, Dept. of Applied Physics, Dept. of Quantum Engineering and Systems Science, Dept. of Geosystem Engineering, Dept. of Materials Engineering, Dept. of Applied Chemistry, Dept. of Chemical System Engineering, Dept. of Chemistry and Biotechnology, Dept. of Advanced Interdisciplinary Studies, Dept. of Nuclear Engineering and Management, Dept. of Technology Management Innovation, Nuclear Professional School
⑥Quota	12 (include MEXT's Scholarship Students: 7) (include Japanese : 0)
⑦Faculties	900 (Fulltime: 463 Fulltime(other department): 227 Parttime: 210)
⑧Representative of the Course	Job Title Dean, Graduate School of Engineering
	Name MATSUMOTO Yoichiro

【3. Contents of the Course】

1. Program details

This program, through the creation of a framework based on connections among Japanese, Korean and Chinese educational institutions in the field of engineering, aims to nurture internationalized staff capable of supporting the sustainable development of Asia as a whole. Seoul National University, located in the Korean capital, and Tsinghua University, are respectively Korean and Chinese research and educational institutions of the highest level, and from shortlists of candidates selected independently by each university, the University of Tokyo shall further select several individuals to join the doctoral program. Also, the University of Tokyo holds academic symposia together with the other partner universities in areas in which international students are accepted, to deepen exchange between students, faculty and academic fields, and build a space for the formation of a developmental relationship. The University of Tokyo is acting as pioneer in the establishment of the Asian Engineering Tripolar Framework, and shall contribute to the stability and development of the region by nurturing international staff within the framework.

This program is a graduate school-wide project for the education of international students, and shall be undertaken at the Graduate School of Engineering under the leadership of the Department of Bioengineering. The Department of Bioengineering is the newest major field of academic endeavor at the Graduate School of Engineering, and has outstanding research and educational characteristics. Further, along with flexible transfer of academic skills and staff from existing departments, this program aims to create new academic skills that broadly cut across existing disciplines. As the vanguard of the development of the Engineering Framework, the University of Tokyo shall accept international students from not only the fields of Bioengineering but also other fields covered by the program (see chart below).



Graduate School of Engineering, the University of Tokyo–Transverse Bioengineering Network

2. Education Guidance System

Each international student shall be allocated to the department that is most suited to his or her area of research, and that department shall be responsible for ensuring that the student receives suitable research guidance and degree examination. The Department of Bioengineering (as Secretariat) shall support overall research and education collaboration across departments hosting international students, and the Office of International Cooperation and Exchange of the Graduate School of Engineering and other offices shall provide support for relevant administrative processes, accommodation, and support after completion. Program target students have a lower threshold to overcome when approaching a Japanese-language environment compared to international students from outside the area of cultures using Chinese characters; however, taking into consideration the smooth transition to ensuring the recruitment of talented staff and research activities, in line with existing special programs, English shall be the standard language of use in this program. Currently, 217 courses are already available in English at the Graduate School of Engineering. Additionally, three English-language courses are planned for the recently-established Department of Bioengineering. It is thus possible for students to obtain credits studying courses in English across a variety of fields. No preliminary education is required before starting this program's specialist academic education. After arrival in Japan, international students shall immediately be provided with academic services and research guidance as regular students. The Center for Innovation in Engineering Education, established by the Graduate School of Engineering, shall also work to support this program.

Internationalization programs and relations with neighboring countries are already carried out in English, and as mentioned above, English shall be the core language of this program. On the other hand, in order to promote mutual understanding not just in cutting-edge science but also the humanities, and to enrich the daily lives of international students, beginner-level Japanese language courses will also be provided for those who request it. Japanese language education classes at the Graduate School of Engineering and existing departments are unique in Japan in that Japanese is learnt within an English-language environment in all classes. International students who prefer to study Japanese in the intervals between lectures and research can make use of the existing Graduate School of Engineering Japanese Language classes; those who prefer more concentrated study in a block of time in the afternoon or evening can take the opportunity to earn credits for intensive study in Japanese language classes.

3. Recruitment and Selection Process

Graduate students from the core members of this program, Tsinghua University and Seoul National University, shall advertise within their universities for applicants, and on the basis of an all-round selection process and examination of academic ability and potential, shall send a shortlist of applicants numbering two to three times the number of places available to the Graduate School of Engineering, the University of Tokyo in December each year. This list shall be passed to the selection committee, headed by the Dean of the Graduate School of Engineering, and on the basis of an examination of each applicant's suitability and research proposal, the state of preparedness of research and each specialty provided by departments of the Graduate School of Engineering, and taking into consideration any correspondence with a nominated supervisor of studies, shall make a final selection from the list of candidates. In all cases, faculty from the Graduate School of Engineering, the University of Tokyo shall carry out an interview in either Seoul or Beijing (at the University of Tokyo Beijing Office). Both partner universities have and are developing their own relationships with many other international universities, and in this regard the Engineering Framework system may provide an effective space to accept international students from universities with close relations with either partner university. Consequently, nominally at least, the inclusion of non-Chinese character area students into this program shall be taken into consideration on the basis of the Japan-China-Korea three university network.

4. Follow-up after program completion

To provide the program with a sense of unity, from the moment of arrival in Japan, short excursions and other activities shall be planned as part of general guidance. Further, on completion of the program, follow-up through creation of alumni associations shall be carried out, enlisting the help of faculty at Tsinghua University and Seoul National University who have earned degrees at the University of Tokyo to act as heads of alumni associations. Personal networks cutting across disciplines shall also be nurtured through the holding of group symposia on an ongoing basis. In China, follow-up activities shall be centered on the University of Tokyo Beijing Office or Wuxi Office (Representative: Dean MATSUMOTO).