

Tokyo Institute of Technology International Education Program for Research Advancement: Conceptual Overview

Project Name: (Type A-1)

TKT CAMPUS Asia Consortium

Project Overview

The project provides a research-oriented education program conducted in cooperation with Tsinghua University and the Korean Advanced Institute of Science and Technology (KAIST). The project builds a framework for the recognition and evaluation of the quality of both coursework research through (1) programs including core curriculum courses and laboratory experiments, aimed at undergraduate and graduate students; and (2) a research-focused education program aimed at graduate students.

■ Program objectives and model for developing human resources

○ Development of global human resources with in-depth knowledge in the fields of science and technology

The type of human resource to be developed under the project is a global leader who has grounding in-depth knowledge in the fields of science and technology and can be an active, international leader in university, corporate, government and other institutions and organizations. To achieve this objective, the project offers start-to-finish career guidance that begins by motivating the students.

■ Formation of a framework for inter-university exchange with quality assurance

○ Approach to the assurance of quality

The project's basic approach is to construct a system that allows participating students to effectively learn through coursework, with partner universities verifying each other's quality assurance systems. Toward that end, the project has established a joint committee and is working toward the assurance of quality.

○ Recognition of credits, management of grades, and student considerations

With regard to individual participants in the program, the project has constructed a system, in which (a) participating universities exchange *Study and Research Plans/Records*, and (b) students engage in coursework under the guidance of academic advisors before and during the exchange period as well as after return to their home countries. Moreover, the grade management takes place through the issuing of transcripts. For students from partner universities, Tokyo Institute of Technology provides English-language information such as the coursework guide, before their departure to Japan. Upon arrival, the Institute takes responsibility for their academics through steps such as the appointment of academic advisors and tutors.

○ Development of a framework of higher-level exchange

While still in the development stages, in the near future the project is expected to include programs of a more advanced nature, such as dual degree programs. In addition, Tokyo Institute of Technology, Tsinghua University, and KAIST have been working with the Hong Kong University of Science and Technology and Nanyang Technological University to form a university consortium called the ASPIRE League. The exchanges accompanying the quality assurance incorporated into the project are reflected in the expansion of exchanges between technical universities in Asia that go beyond the TKT framework. At the same time, the project is also improving the quality of its exchanges with major US universities and with the universities in the IDEA League, a consortium of top European technical universities.



Summer program students in group discussion



■ Making educational content visible and communicating results

○ Web-based provision of information and development of outstanding human resources

For the implementation of its programs, the project has established a unique website associated with the existing Tokyo Institute of Technology English website and those of its partner universities, providing information to a wide demographic extending beyond participating students. Moreover, the use of *Study and Research Plans/Records*, as well as grade management, are presented in a form that is easily accessible to other universities. Success of the program will be measured by the realization of global human resources with in-depth knowledge in the fields of science and technology who can take on global leadership roles. Future goals include the building a network of global human resources.

■ Preparations to support the exchange of outgoing Japanese and incoming international students

○ Preparations to support outgoing Japanese students

The project has established an English preparatory course to boost the language skills of students wishing to study abroad. Academic and other advisors counsel students while they are studying abroad. The project also offers students academic and general consultation through means such as email while they are abroad, and supports them upon their return with advice on careers provided by career advisors.

○ Support structure for incoming international students

In addition to posting program content on its website, the project is working toward the smooth acceptance of international students through close communication with partner universities. During students' studies in Japan, the project appoints Tokyo Institute of Technology students in related fields as tutors, and provides advice from career advisors.

■ Student mobility in exchange programs

○ Outgoing Japanese students

In fiscal year 2012, the project sent 5 students to Tsinghua University and 7 students to KAIST (for a total of 12 students).

○ Incoming international students

In fiscal year 2012, the project received 7 students from Tsinghua University and 8 students from KAIST (for a total of 15 students).

	2011	2012	2013	2014	2015
Accepted number in Japan	0	C7, K8	C5, K5	C5, K5	C5, K5
Accepted number in China	0	J4, K5	J5, K5	J5, K5	J5, K5
Accepted number in Korea	0	C5, J7	C5, J5	C5, J5	C5, J5

Note : FY2011-2012 results, FY2013 -2015 planned