

[Developing a Variety of Programs for Accommodating More Students]

**Various International Programs at Tokyo Tech**

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**ABSTRACT**

Tokyo Institute of Technology (“Tokyo Tech” for short) offers variety of programs to attract more students with various demands.

**1. International Graduate Program**

Tokyo Tech offers graduate programs (master’s/ doctoral) in English in almost all the field of science and engineering. 69 students under this program are applicable for Monbukagakusho (Ministry of Education in Japan) Scholarship.

**2. Tokyo Tech – Tsinghua Joint Graduate Program (Dual Degree Program)**

Under cooperation with Tsinghua University (China), Tokyo Tech established the first dual degree graduate program in Japan titled “Tokyo Tech-Tsinghua University Joint Graduate Program”. Japanese or Chinese students will be registered at and awarded master’s degrees from both of the universities in 2.5 to 3 years.

**3. YSEP (Young Scientists Exchange Program)**

The students under YSEP are the 4<sup>th</sup> year of undergraduate program. They will belong to a laboratory and be advised by Tokyo Tech professor on writing dissertation. (“Sotsuron” in Japanese)

**4. JAYSES (Japan – Asia Young Scientist and Engineer Study Visit)**

In 2007, Tokyo Tech established short visiting program by Japanese students and the students from partner universities. 17 Japanese students, with Thai and Indonesian students visited various research institute, organizations, Japanese companies and local companies in Thailand and Indonesia in 2008.

**5. Others**

Exchange program for research students, supporting programs for doctoral students, etc...

[End]

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More Students  
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International Office



Tokyo Institute of Technology



1

## Basic numbers

- ◆ 10,000 students in total
- ◆ UG 5,000, G 5,000 (M 3,500 D 1,500)
- ◆ Male 9,100 Female 900
- ◆ JPN 8,900 International 1,100 (11%)
- ◆ China (422) Korea (134) Vietnam (84)  
Indonesia (57) Thailand (53)  
(as of May 2008)

2

## Programs

- ◆ International Graduate Program
- ◆ Tokyo Tech-Tsinghua Joint Graduate Program  
[Dual Degree]
- ◆ Young Scientist Exchange Program [YSEP]
- ◆ Japan Young Scientist and Engineer Study  
Visit (JAYSES)
- ◆ TAIST-Tokyo Tech (Joint Graduate Program  
with NSTDA and Thai univs)

3

## International Graduate Program

4

## International Graduate Program

- ◆ 8 programs relating to 35 departments (6 Graduate Schools) of Tokyo Tech.
- ◆ All courses taught in English
- ◆ Master's(2 y), doctoral(3y) and "Integrated doctoral education program" (3-5 y)
- ◆ Applicable for MEXT (Monbukagakusho) scholarship (69 students year)

5

## Application process

- ◆ TOEFL / TOEIC / IELTS score
- ◆ Sep: Announcement
- ◆ Communication with the prospective advisor (Internet) interview
- ◆ Should obtain the consent of the prospective advisor that s/he agrees to be your academic advisor in the event you pass the entrance screening.
- ◆ 5 Dec: Deadline for application (admission and scholarship)
- ◆ Mar. next year: Result of admission
- ◆ Jul. next year: Result of scholarship
- ◆ Sep. next year: Registration in Japan
- ◆ Oct. next year: Starting the program

6

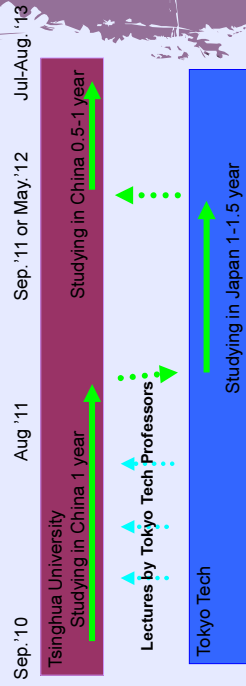
## Tokyo Tech - Tsinghua University Joint Graduate Program

7

## Tokyo Tech - Tsinghua University Joint Graduate Program

1/2

- ◆ One of the first "dual degree" programs on graduate level between China and Japan
- ◆ Joint supervision by professors of both universities
- ◆ Master's degrees awarded by both universities in 3 years
- ◆ Expenses in Japan supported by scholarship



Tokyo Tech - Tsinghua University  
Joint Graduate Program  
(total # of students enrolled) <sup>2/2</sup>

	Master's Program		Doctoral Program	
	Tokyo Tech	Tsinghua	Tokyo Tech	Tsinghua
Nanotechnology Course	5	25	1	
Biotechnology Course	7	23	3	Application procedure to be announced
Social science and Engineering Course	3	7	2	
Total	15	55	6	

◆ Doctoral programs are different from Master's programs. Students will be registered in either Tokyo Tech or Tsinghua University. They will conduct their research under supervision of professors of both universities. They will gain, by submitting their thesis, the degree from the university where they are registered.

## YSEP (Young Scientist Exchange Program)

10

## Program Outline

- ◆ One year program for the 4<sup>th</sup> year student of undergraduate school
- ◆ All the lectures taught in English
- ◆ Graduation thesis (“sotsuron” 卒論) under supervision of Tokyo Tech advisor
- ◆ Tuition fee waiver for the students from partner universities (with university – wide MOU)
- ◆ Applicable for JASSO (Japan Student Services Org.) scholarship

11

## Schedule

- ◆ Deadline at Tokyo Tech: End of February
  - ◆ Should be nominated through International Relations Office of each university
- ◆ Program: September – August next year

12

# TAIST - Tokyo Tech

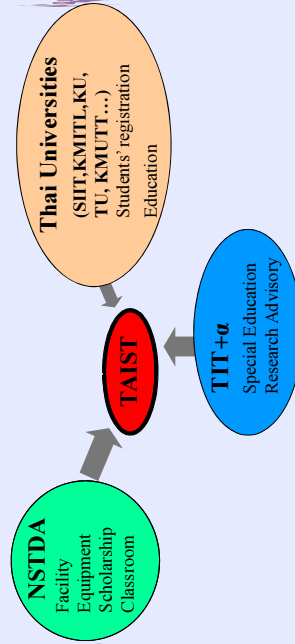
15

## Outlines

- ◆ Thailand Advanced Institute of Science and Technology (cf. KAIST in Korea)
- ◆ Requested by NSTDA (National Science and Technology Development Agency “สวทช.”)
  - ◆ MTEC
  - ◆ NANOTEC
  - ◆ NECTEC
  - ◆ BIOTEC
- ◆ Cooperation with Thai universities, KMITL, SIIT, KU, TU, KMUTT...
- ◆ HRD for industries in Thailand by Japanese contribution
- ◆ Graduate Program for Master's degree (Ph.D in the future...)

14

## Structure of TAIST Tokyo Tech



## Structure

- ◆ NSTDA
  - ◆ Space for education & research
  - ◆ Facility
  - ◆ Scholarships
  - ◆ Co-advisory by researcher
- ◆ Tokyo Tech
  - ◆ Special education (lectures, distance education)
  - ◆ Research advice
- ◆ Thai universities
  - ◆ Students' registration
  - ◆ Awarding degree
  - ◆ Main advisory by professor
  - ◆ Co-lecturing with Tokyo Tech professors
- ◆ 3 parties
  - ◆ Jointly award certificate of the program

## Programs

- ◆ AE: Automotive Engineering
  - ◆ Started June 2007
  - ◆ MTEC, KMITL, SIIT, KMUTT(2009-)
- ◆ ICT-ES: Info. & Comm. Tech.-Embedded System
  - ◆ Started June 2008
  - ◆ NECTEC, SIIT, KU
- ◆ EnvE: Environmental Engineering
  - ◆ To be launched in June 2009 or 2010
  - ◆ MTEC, TU
- ◆ BIO: Bioscience and Biotechnology
  - ◆ Under preparation

17

## Future plan

- ◆ Accepting students from neighboring countries (Indonesia, Laos, Vietnam...)
- ◆ Establish joint doctoral program
- ◆ Career path for Doctoral program at Tokyo Tech
- ◆ Collaboration with Japanese companies in Thailand and major Thai companies (PTT, Siam Cement, etc)

18



19



## JAYSSES

*Japan-Asia Young Scientist and Engineer Study Visit 2008*

*The Commemorate event to celebrate  
the Golden Year of Friendship 2008: Indonesia - Japan*

## Program Outline

- ◆ Joint Study Visit Program by Tokyo Tech and partner universities in Asia
- ◆ Discussion (students forum) after the technical visits
- ◆ Visiting 1 or 2 countries in Asia (Thailand/2007, Thailand & Indonesia/2008)
- ◆ 15 Tokyo Tech students + 3-5 students from each partner university
- ◆ 10 days – 2 weeks in August – September

21

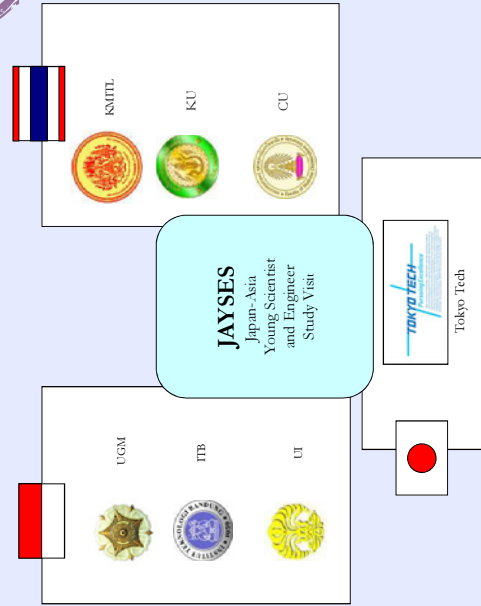
## Expected direct outcome

- 1) Internationalization of students
  - More **Japanese students to study abroad.**
  - More **international students** (from Thailand, Indonesia, etc) to **study in Japan**
- encourage students to have more interest in different culture/society.

### Expected super-goal

To establish human network of **key players in science and technology in various fields in Asia**, which may contribute to solidarity of Asian region.

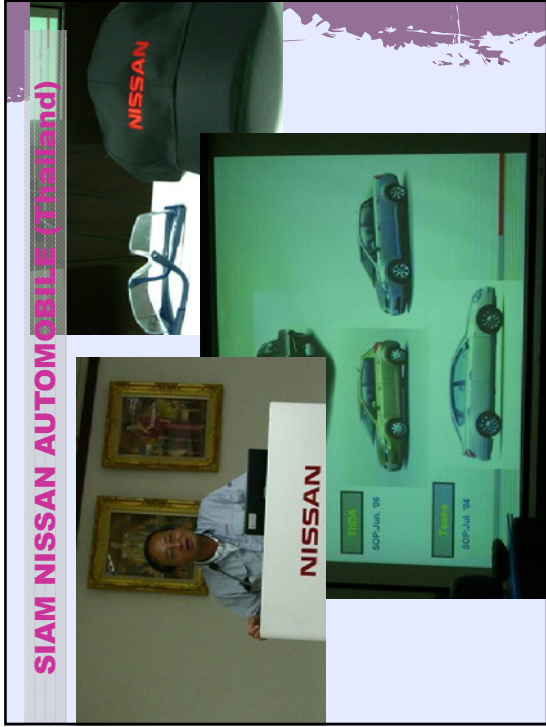
## Participating universities in 2008



## PTT (Petroleum Authority of Thailand) Research and Technology Institute















## Discussion Topics

- ◆ Group1: How to Improve English Abilities for Japanese, Thais and Indonesians
- ◆ Group2: Understanding of Cultural Difference for Technology Transfer
- ◆ Group 3:Countermeasures of Japan, Thailand and Indonesia for Global Warming
- ◆ Group4: Role of Japanese ODA to Thailand and Indonesia

### Group 1. How to Improve English Abilities for Japanese, Thais and Indonesians

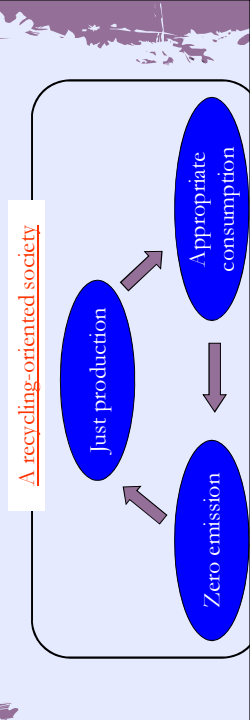
JAPAN	THAILAND	INDONESIA
<ul style="list-style-type: none"> <li>• Few conversation classes</li> <li>↓</li> <li>• <b>Poor speaking ability</b></li> </ul>	<ul style="list-style-type: none"> <li>• Few grammar classes</li> <li>↓</li> <li>• <b>Use grammatically incorrect English (Speaking and Writing)</b></li> </ul>	
<ul style="list-style-type: none"> <li>• Start learning English late</li> <li>↓</li> <li>• <b>Hard to absorb English</b></li> </ul>	<ul style="list-style-type: none"> <li>• Centralized English education</li> <li>↓</li> <li>• <b>Big English ability gap between students from big cities and villages</b></li> </ul>	
<ul style="list-style-type: none"> <li>• Few pronunciation and accent trainings</li> <li>↓</li> <li>• <b>Use incorrect pronunciation and accent</b></li> </ul>		

### Group3 Countermeasures of Japan, Thailand and Indonesia for global warming

- Present economical model (A one-way society)



- Economical model in the future



## JAYSES 2009 nomination

- ◆ **10 days in Bangkok** starting from late August to early Sep.
- ◆ **5 participants** from each partner university
- ◆ Should be nominated by International Relations Office
- ◆ No requirement for the **year of study, gender, or field of study,**
- ◆ **No fee** for participation
- ◆ Participants should be supported financially by home university or self-supported
- ◆ Official Announcement by April 09

## **Career Development Program for Foreign Students from Asia at Tokyo Tech**

**CDSA**

41

## **Program outline**

- ◆ To train and foster global-minded individuals who have the desire and skills necessary to work for a Japanese company.
- ◆ IGP + Specialized education and job hunting support for foreign students from Asia
  - ◆ Business Japanese
  - ◆ Internship
  - ◆ Lecture on industry-academia collaboration
- ◆ Financial support same level with MEXT scholarship

42

## **Requirement**

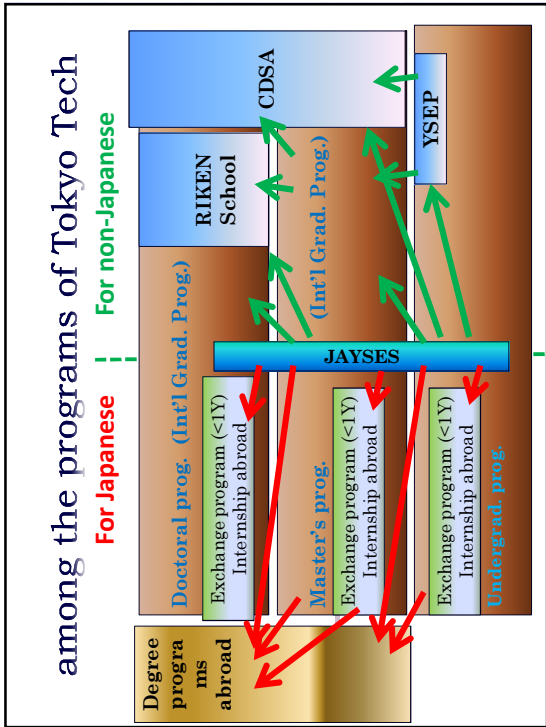
- ◆ To be enrolled master's or doctoral program
- ◆ Should have good Japanese language ability (Japanese Language Proficiency Test : JLPT) 3<sup>rd</sup> Grade or more

43

## **Application Process**

- ◆ Apr. 2009: Announcement
- ◆ May 2009: Deadline for application
- ◆ Jul. 2009: Result of selection
- ◆ Sep. 2009: Registration in Japan
- ◆ Oct. 2009: Starting program

44



Thank you for your attention!!

[www.titech.ac.jp](http://www.titech.ac.jp)

46