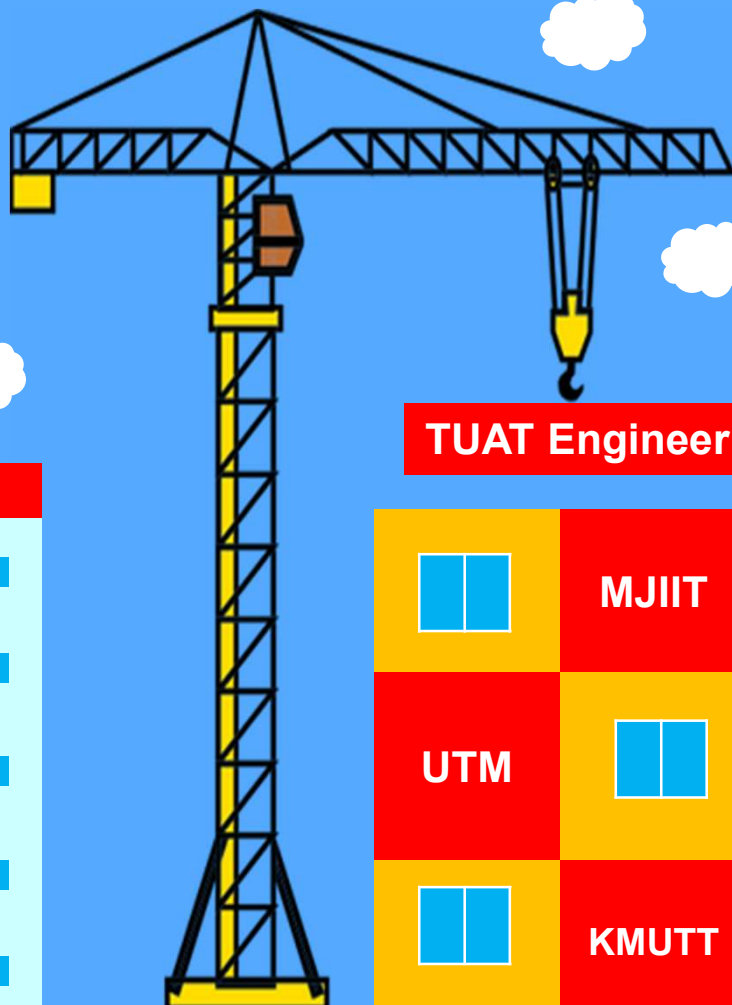




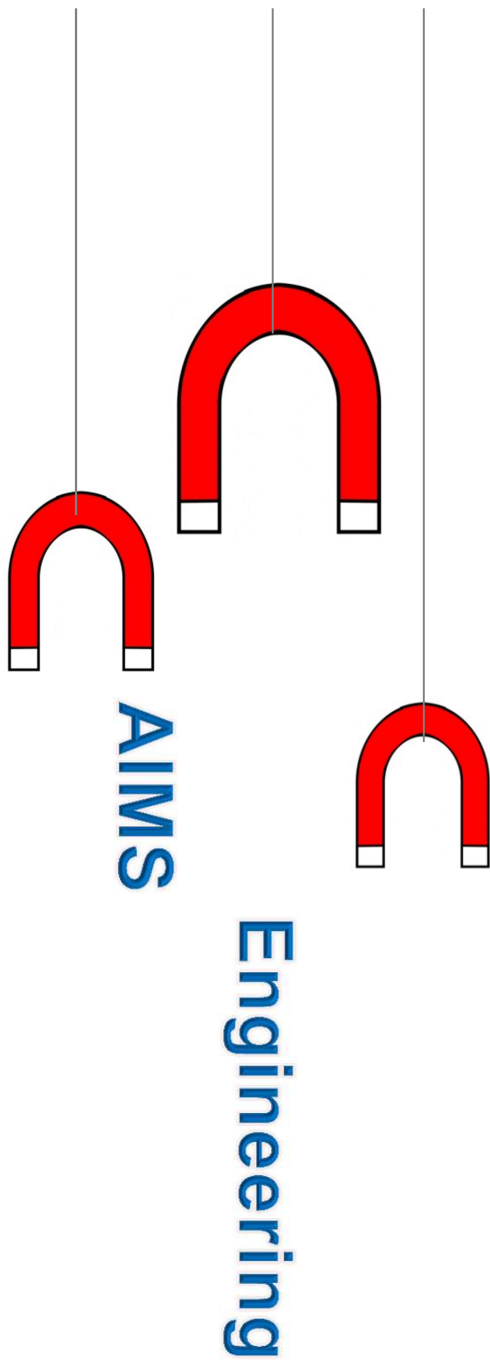


# AIMS Programme<sup>2016</sup> Guidebook



**TUAT Engineering**

	<b>MJIIT</b>	
<b>UTM</b>		<b>ITB</b>
	<b>KMUTT</b>	<b>UBD</b>



## TUAT Faculty of Engineering Guidebook for AIMS Students <sup>2016</sup>

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### Guidance

1. Background
2. Programme courses and Term
3. Programme offered
  - Chemical Engineering
  - Mechanical Engineering
  - Physical Engineering
  - Electronic and Electrical Engineering
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  - General courses
4. Accommodation
5. International Student Support

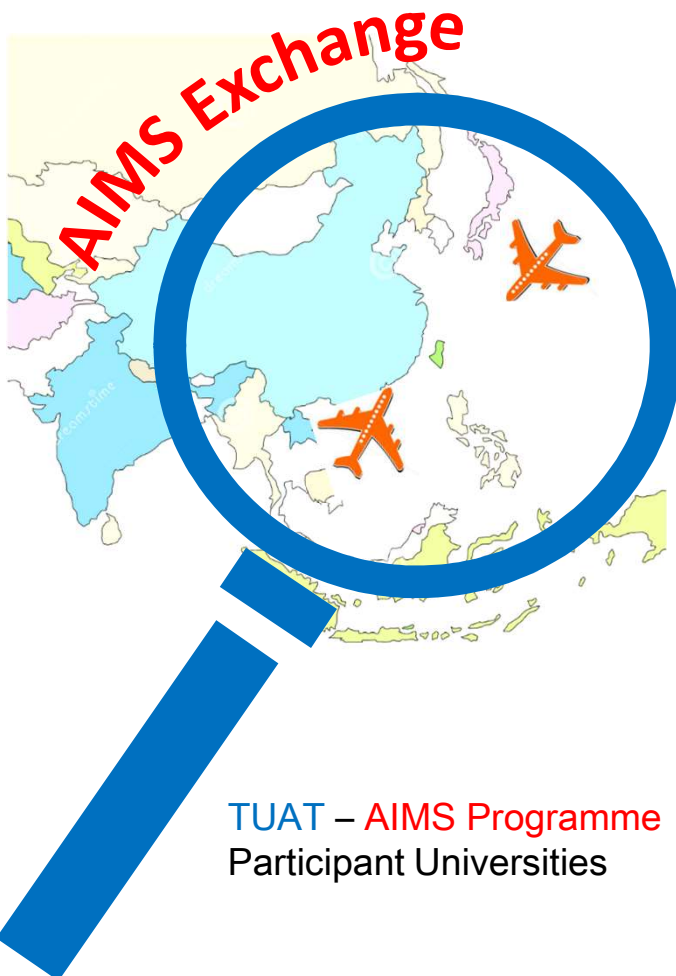
### Application form

1. Programme overview
2. Eligibility
3. Cost and Scholarships
4. Application Procedure
5. Correspondence Address

## Background

In November 2013, Tokyo University of Agriculture and Technology (TUAT) along with Ibaraki University and Tokyo Metropolitan University, presented a joint proposal "ASEAN Initiative to foster next generation talents to lead environmentally friendly food production, technological innovation and regional planning" and was approved under the Re-Inventing Japan Project implemented by the Japanese Ministry of Education, Culture, Sports, Science & Technology (MEXT).

The Re-Inventing Japan Project provides financial support to international collaborative programs of universities that conduct both study abroad programs for Japanese students and acceptance of foreign students



Tokyo University of Agriculture and Technology



Universiti Teknologi Malaysia (UTM)



Malaysia-Japan International Institute of Technology (MJIIT)



Institute of Technology Bandung (ITB)



King Mongkut's university of Technology Thonburi (KMUTT)



University Brunei Darussalam (UBD)



University of the Philippines Diliman (UPD)

# 2

## Programme courses and Term

TUAT, the Faculty of Engineering, provides the following programme course for AIMS:

### Environment-friendly Technological Innovation Course

The term will start from **September** and end at **December**, and it is split into **three phases**:

1. Preparatory courses (Sep.)



2. Specialised courses (Sep. – Dec)

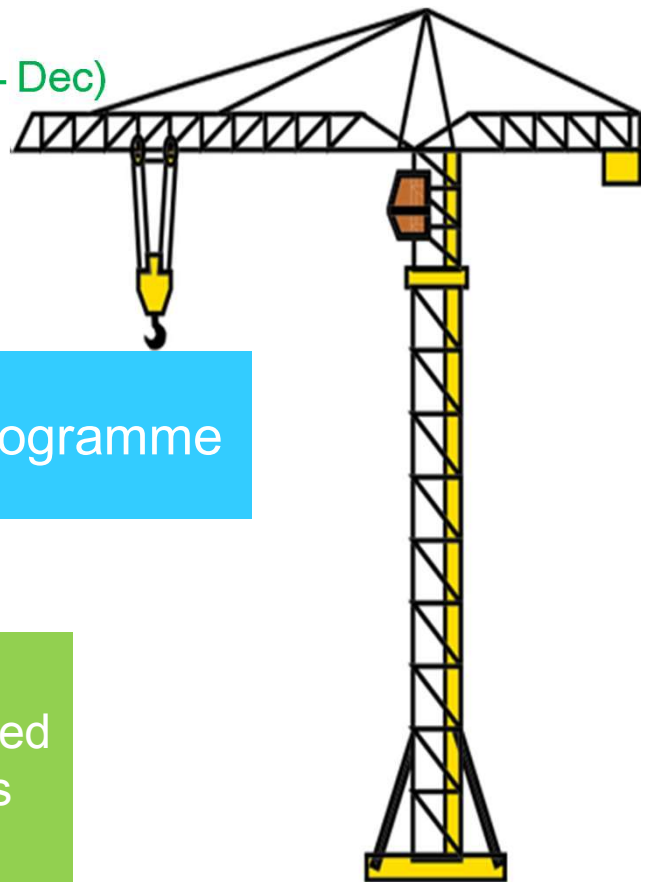


3. Wrap-up programme (Dec)

September  
Preparatory  
courses

Oct - Dec  
Specialised  
courses

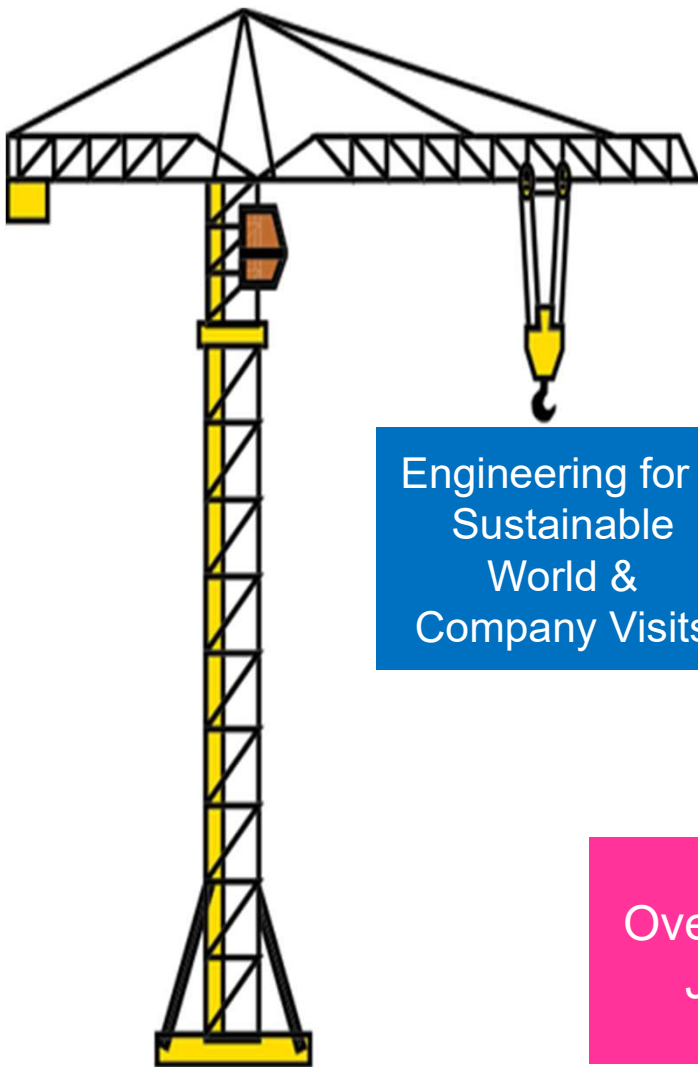
December  
Wrap-up programme



# 2

## Preparatory course subjects

All students are required to take the following preparatory courses which will be held in **September**.



Engineering for a Sustainable World & Company Visits

Tourism and Geography in Japan

Overview of Regional Sustainability Science

Overview of Japan

Overview of Japan  
Engineering for Sustainable World and Study Tour (3 credits)  
Overview of Regional Sustainability Science (1 credit)  
Tourism and Geography in Japan (4 credits)

## Specialised subjects

(October to December)

The specialized course is divided into **two components** (core courses and general courses), which students are required to complete.

### Course Structure (Core Courses)

- K: Chemical Engineering
- M: Mechanical Engineering
- P: Physical Engineering
- E: Electronic and Electrical Engineering
- S: Computer and Information Science



### (General Courses)

**Academic writing and  
presentation skills in  
Engineering**

**Research Internship**

We at TUAT try our best to customize the course for each student as much as possible to make it easier for them to transfer their credits to their home universities.



## Specialised courses – course list

<b>Department of Chemical Engineering</b>		Credits
K1	Separation Process	3
K2	Environmental Engineering and Microbiology	3
K3	Chemical Reaction Engineering	3
K4	Chemical Engineering Laboratory	1
K5	Physical Chemistry	3
K6	Optimisation in Chemical Processes	3
<b>Department of Mechanical Systems Engineering</b>		Credits
M1	Control Engineering	3
M2	Mechanics of Machines and Vibration	3
M3	Mechanical Component Design	3
M4	Numerical Methods	3
M5	Mechanical Systems Engineering Laboratory II	1
M6	Advances in Mechanical Systems Engineering	1
M7	Fluid and Thermal Engineering	3
M8	Laboratory Project-I in Mechanical Systems Engineering	2
<b>Department of Applied Physics</b>		
P1	Physics of Material	3
P2	Quantum Mechanics	3
P3	Statistical Thermodynamics	3
P4	Applied Physics Laboratory	2
P5	Control System	3
<b>Department of Electrical and Electronic Engineering</b>		Credits
E1	Communication Electronics	3
E2	Control System	3
E3	Microprocessor and Microcontroller	3
E4	Numerical Methods	3
E5	Electronic Circuit and Power Electronics	3
E6	Research Project	4
E7	Electronic Engineering Laboratory	2
<b>Department of Computer and Information Science</b>		Credits
S1	Artificial Intelligence	3
S2	Signal Analysis and Pattern Recognition	3
S3	Logic Design and Computer Architecture	3
S4	Research Activity in a Specific Area	3
S5	Parallel Processing	3
S6	Database	3
<b>General Courses</b>		Credits
G1	Academic Writing and Presentation Skills in Engineering	3
G2	Research Internship I	3

## Research Internship I

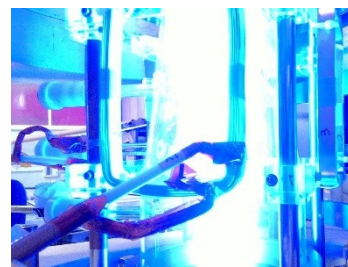
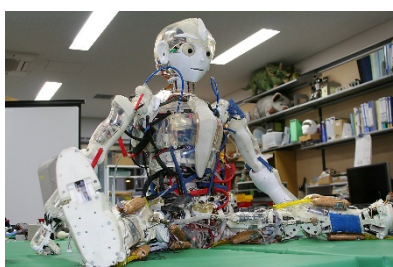
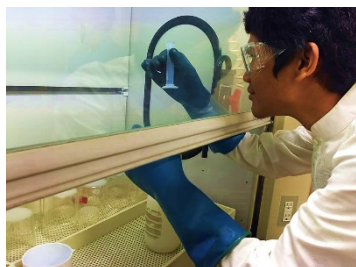
TUAT (Tokyo University of Agriculture and Technology), the Faculty of Engineering provides international students unique opportunities to gain firsthand experience doing a research at TUAT.

The field and type of research does vary according to students' academic interests.

### Join Us

Research internship course is available in the following fields:

- Biotechnology and Life Science
- Applied Chemistry
- Organic and Polymer Materials Chemistry
- Chemical Engineering
- Mechanical Systems Engineering
- Applied Physics
- Electrical and Electronic Engineering
- Computer and Information Sciences





# 4

## Accommodation

Type of residence: On campus & Off campus

\* Your residence will be informed upon your acceptance to the programme

### On Campus



### On Campus Residence

- ◆ Koganei Staff Residence (Share-house)
- ◆ Koganei International House (Single room)
  - \* JPY 6,000/month
  - \* Cleaning expense: 15,000JPY
  - \* Utility bills (such as internet, heating, electricity and water) are **not** included.
  - \* Internet/wifi access is not provided – you need to set up internet access.

### Off Campus Residence

- ◆ Haijima Share House (Single room)
  - \* JPY 40,000/month
  - \* Initial cost of JPY 15,000
  - \* Utility bills (such as, heating, electricity and water) are included.
  - \* free internet access



### Off Campus

## Off-Campus Residence

# Share House: *Haijima*



a



b



c



d



e



f

- a. Residence appearance
- b. Living room
- c. Single room
- d. Kitchen
- e. Yoga room
- f. Movie theatre

**Address:** Social Residence Haijima 5-5-7 Mihori-cho, Akishima-shi, Tokyo

# 5

## International Student Support

**Buddy** students organise numerous activities throughout the semester period in order to help inbound students have great opportunities to integrate into Japanese culture. In the framework of the program, the Japanese buddies also have opportunities to practice foreign languages and be acquainted with different cultures.



### Tandem Partner

Help international students get used to the academic and everyday life.



### Food Information

Provide information on where to find halal food



### International Event

Many events are organised for international students, such as international food fair, school visit



### Media

Provide information about the university and the AIMS programme in Japanese and English by making movies and creating a facebook group page





# Guide and application form