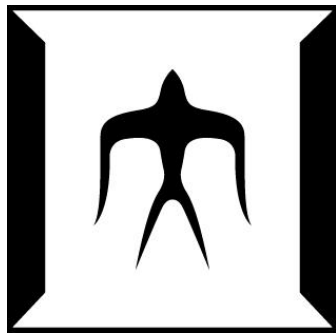


IDE Field Work Report

TKT Campus Asia Program

Life in KAIST



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Hanaoka Lab B4
2013.11.6

1. Program Introduction

The TKT Campus Asia Program is established in 2012 among three universities. They are Tokyo tech, KAIST and Tsinghua University. This time, I went to the KASIT, which is short for Korea Advanced Institute of Science and Technology to attend the summer exchanging program for one month. The period is from Aug. 1st to Sep. 1st. There are also five more students from Tokyo Tech and six students from Tsinghua University coming to KAIST to attend this program. KAIST is the best Institute in Korea, which was first built in Seoul in 1971. After several years, in order to expand the campus, it moved to Dajeon.



Badge of KAIST



Location of KAIST

2. Program Schedule

	Mon	Tue	Wed	Thu	Fri
	5	6	7	8	9
10:00~11:00			Orientation & Greeting	Basic Korean and Korean Culture	Campus Tour
11:00~12:00			W2-1, # 201	W2-1, # 206	
Lecture Room			An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	Field Trip (Doosan Dong)
13:00~14:30			N7, #2108		
Lecture Room					
	12	13	14	15	16
10:00~11:00	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Field Trip (Jeonju)
11:00~12:00					
Lecture Room	W2-1, # 202				
13:00~14:30	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	
Lecture Room	N7, #2108				
	19	20	21	22	23
10:00~11:00	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Field Trip (Seoul)
11:00~12:00					
Lecture Room	W2-1, # 202				
13:00~14:30	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology	
Lecture Room	N7, #2108				
	26	27	28	29	30
10:00~11:00	Basic Korean and Korean Culture	Basic Korean and Korean Culture	Closing Ceremony		
11:00~12:00					
Lecture Room	W2-1, # 202		W2-1, # 202		
13:00~14:30	An Evolution of Advanced Mechanical Engineering Technology	An Evolution of Advanced Mechanical Engineering Technology			
Lecture Room	N7, #2108				

2013.8.1	Arrival at Seoul Gimpo Airport, dormitory check in
2013.8.1 – 2013.8.6	Free time, my trip to Bussan
2013.8.7	Program orientation and greeting, opening ceremony
2013.8.7 – 2013.8.28	Study (2 courses) and research, field trips
2013.8.28	Program closing ceremony
2013.8.28 – 2013.9.1	Free time, my trip to Seoul and Jeju island
2013.9.1	Departure from Seoul Gimpo Airport, go back to Japan

3. Study & Research

(1) Study

In this summer program, I registered two courses. They are “Basic Korean and Korean Culture” and “An Evolution of Advanced Mechanical Engineering Technology.”

The first language course started on every Monday to Thursday from 10:00 to 12:00. In three weeks study, there are eleven classes. In the first week study, we learned all the Korean syllables. There are more than one hundred syllables and Korean people almost only use them to write and speak. They seldom use Kanji because Kanji are only used for distinguishing names in Korea. This is different to Japanese and Chinese in which Kanji are normally used. More syllables and less Kanji make Korean an easy language to learn from my study experience. In the second and third week, we learned self-introduction and easy conversations.



Prof. Eun-young Lee of Korean class



All the students are enjoying the class

The second engineering course started on every Monday to Thursday from 13:00 to 14:30. In three weeks study, there are twelve classes which are given by different twelve professors. They are from civil engineering, biological science, aerospace engineering and mechanical engineering. Every professor had given us an introduction about their research fields and labs. The course is given by English. At first, I was surprised that all the professors can speak English natively. After the course finished, I found that there are more than 85% professors in KAIST have gotten the Ph.D. certificate in the western top level universities. From this course, I expanded my field and become more curious about engineering. I also learned

many new technologies that I have never studied before.

The details of lectures show as following:

Professor	Department	Major
Yeo Hwasoo	Civil Engineering	Smart Transportation
Kim Jaehoon	Biological Science	Eukaryotic Transcription
Kwon Oh-Joon	Aerospace Engineering	Numerical Simulation
Kim Sung Jin	Mechanical Engineering	Applied Heat Transfer
Na Suck-Joo	Mechanical Engineering	Welding Processes
Huh Hoon	Mechanical Engineering	Computational Solid Mechanics
Park Inkyu	Mechanical Engineering	Nanosystems
Oh Wang-Yuhl	Mechanical Engineering	Biomedical Photonic Imaging
Park Sukyung	Mechanical Engineering	Biomimetics

(2) Research

In this program, I was assigned to civil engineering department. My advisor is professor Yeo Hwasoo who gave us the first engineering course lecture. Prof. Yeo works in Smart Transportation Systems Lab. which deals with design, operation and management methodologies of transportation systems for sustainable society. I was attached to his lab and study at my work place every week day. During the three weeks, I discussed my research proposal with professor Yeo and learned Intelligent Transport System (ITS) knowledge.



My research building



My workplace

4. Field Trips

In this program, we went to field trips every Friday. First week, we went to Jeonju paper factory to learn the producing paper process. By this trip, I learned that in

order to make a paper, drying and heating are necessary processes but it is not that difficult. Second week, we went to the famous Samsung Head Quarters in Seoul Gangnam district. By this trip, I learned the past, present and future of Samsung. Samsung is very famous and popular for its cellphone in China. However, its most profitable products are monitors and TVs but not cellphones. I also enjoyed many advanced products like High-quality monitor, which made me think that engineering is very useful and efficient for the development of the society and our lives. Third week, we went to Gwangju to attend a global conference called EPICS Forum. Five letters stands for different meanings. E is eco, P is peace, I is IT, C is culture and S is sport. This year's topic is sport and many famous people like Korean Olympic Weightlifting Champion Jang Mi-ran had given us a speech.



Jeonju – Paper Factory



Seoul – Samsung HQ



Gwangju – Global Conference

5. Impressions

(1) About KAIST

KAIST was established in 1971 but has already become the 12th best universities in Asia. There are almost 3,500 Ph.D. in KAIST which makes the campus a very rich atmosphere of studying and researching. Lighted study room for 24 hours are very common in KAIST campus. Although the program was held in the summer vacation, many students kept studying until very late in my lab. Both KAIST and Tsinghua students told me that they are always using their lives to study in their universities. By watching and knowing these facts, I think I need to study and work harder in



the future.

Lighted study room for 24 hours



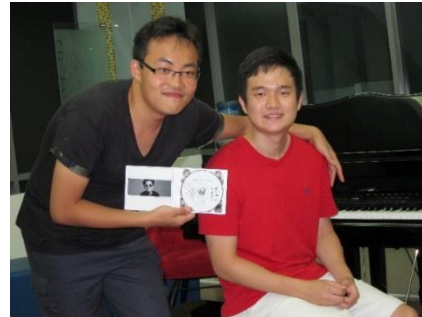
KAIST Library

(2) About Korean people

Korean people are very kind which made me a feeling at home. The program's manager Prof. Im and his lab's members treat us a lot. Including some dinners and some events like mountain climbing. Besides that, he preferred that we can attend the same program next time.



Program Manager Prof. Im



Student Staff Jaesung Cho

(3) About ourselves

By attending this program, I made many new friends from different countries. The reason why we become good friends is that we all have the courage to speak out English and communicate with each other. From this, I learned that language ability and communication ability are very important for a people to learn new things and new thoughts which can let us become more comprehensive and wiser. Therefore, I want to participate in more programs and catch more chances to practice these abilities in the future.



Travel with my friends



Program members