

THE 2ND WINTER SCHOOL REPORT



Overview of the 2nd Winter School Program

Objectives:

The Winter School Program is implemented as a foothold to realize future international academic collaboration with partner universities based on mutual academic exchange agreements. This program was created in mind a platform that can offer educational programs in collaboration between industries and academia.

This program aims to promote the following: (1) the presence of Gifu University to our partner universities' students, (2) future candidates' career paths, and (3) understanding of local society and Japanese culture.

Implementation Contents:

Participants from our partner universities took part in research work at Gifu University's laboratory facilities in the Faculty of Applied Biological Sciences and Faculty of Engineering, tours of regional companies engaged in research exchanges, special seminars, and Japanese language & culture experiences.

Program Participants:

8 members
 (Indian Institute of Technology, Guwahati (IITG) – 6 members,
 Universiti Kebangsaan Malaysia (UKM) – 2 members)

Tutors:

12 members
 (Japanese students – 6 members,
 Indonesian students – 6 members)

In cooperation with:

Faculty members from Applied Biological Sciences and Engineering, International Student Center, Health Administration Center, Shinsei Co, Ltd., ON Semiconductor, and Gifu Minami Lions Club

Opening Ceremony Courtesy Call Campus Tour



Opening Ceremony and Orientation (Mon., Dec. 5, 2016)

On Sunday, December 4th, despite some flight delays, etc, participating students from India and Malaysia arrived safely and headed straight towards Gifu University's out-campus dormitory in preparation for the start of the Winter School Program the following day. The next day (the 5th) marked the opening ceremony in which participants were warmly received with a welcome message from the Director of GHOGL, Dr. Fumiaki Suzuki, followed by an orientation to provide participants information about their schedules and other precautions. At the opening ceremony, the participants were asked to introduce themselves and give a brief statement about their expectations. They were also introduced to their respective academic supervisors who attended the ceremony.

Welcome Party (Mon., Dec. 5, 2016)

The Welcome Party held at lunchtime was attended by Gifu University student tutors who served as safety managers/counselors for the participants; other attendees included the participants' main supervisors, university support staff, and other program participants.

Courtesy Call (Mon., Dec. 5, 2016)

The Winter School participants also paid a special visit to the University President Hisataka Moriwaki and announced their 3-week participation in the program. President Moriwaki spoke and listened to each individual participants from IITG and UKM as they briefed him about their respective research themes and specializations.

Campus Tour (Mon., Dec. 5, 2016)

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Healthcare Guidance (Tue., Dec. 6, 2016)

The participants received instructions on the location and use of different campus facilities. They also received an explanation about health management during their stay in Japan conducted by Dr. Mayumi Yamamoto, Director of the Health Administration Center.

JUNI-HITOE Experience



JUNI-HITOE Experience (Wed., Dec. 7, 2016)

The Winter School participants participated in a layered-kimono wearing experience sponsored by the university's International Student Center. A simple history of layered-kimono wearing explained to students demonstrated that 12 pieces of carefully folded clothing are worn in layers and removed like a cicada shedding its layered casings. The participants had the opportunity to try on the heavily-clad layered kimono worn by women in the ancient courts.

CHADO Experience (Sat., Dec. 10, 2016)

The Gifu Minami Lions Club sponsored a special tea ceremony for international students "The Experience of Japanese Culture & Tradition."

In the tea room at Inaba Shrine (one of the historic shrines in Gifu City), students learned how to practice the spirit of tea ceremony and enjoyed Japanese sweets with "matcha" green tea.

JI-KABUKI Excursion (Sun., Dec. 11, 2016)

For Japanese culture experience, the participants went on a day excursion to Nakatsugawa City in the Tono region. Under Gifu Prefecture's protection and revitalization program, the participants were able to tour and study the history and attraction of local Kabuki which was rooted in common people's lives. The participants also had a chance to watch a live stage performance and experience the peculiar atmosphere of local Kabuki and interact with the actors on stage. Nakatsugawa was one of the old post towns on the ancient Tokaido Road during the Edo Period (leading to Edo, currently Tokyo), with rest stops in Magome where old townscapes and traditional Japanese atmosphere still remain in place.

SHODO Experience (Wed., Dec. 14, 2016)

The International Student Center organized and conducted a Japanese calligraphy experience for the Winter School participants. While studying the history of calligraphy, students were able to personally experience the feeling of brush writing and spirit of traditional Japanese culture.

Survival Japanese Lesson (Dec. 6-21, 2016)

In "Survival Japanese" class (total of 12 lessons, 90 min/lesson), students learned basic Japanese which is applicable to daily living in Japan. The students participated enthusiastically, knowing minimal Japanese (such as basic greetings) at the beginning and ended up speaking wonderfully about their impressions of the Winter School Program.

Japanese Culture Experiences

CHADO Experience



JI-KABUKI Excursion



SHODO Experience



Opening Ceremony and Orientation



Courtesy Call



Campus Tour



Healthcare Guidance



Survival Japanese Lesson



Laboratory Work Special Seminars



Laboratory Work

Laboratory Work (Dec. 6-21, 2016)

Each participant conducted their individual laboratory work under the direct supervision of the supervisor of their choice.

Participants	Supervisors
Ms. Prachi Tosniwal (IITG)	Prof. Hiroyuki Koyama
Mr. Dharanidaran Jayachandran (IITG)	Prof. Tomoyuki Nakagawa
Ms. Megha Balha (IITG)	Prof. Tohru Mitsunaga
Ms. Murchana Changmai (IITG)	Associate Prof. Yoshikuni Teramoto
Ms. Bhumika Singhal (IITG)	Prof. Takashi Itoh
Mr. Abinash Mahapatro (IITG)	Prof. Yoshinori Itaya
Ms. Fatimah Zahrah binti Mohammad Kamil (UKM)	Prof. Akiyoshi Takeno
Mr. Muhammad Johan Iskandar bin Zahari (UKM)	Prof. Shoichi Kutsumizu

Special Lecture (Dec. 7, 9, 15, 19, 2016)

Three special lectures were held for the Winter School participants. Associate Professor Takahashi from the Faculty of Engineering and Assistant Professor Katsuno from the Faculty of Applied Biological Sciences talked about their research related to students' corporate visits. Associate Professor Lim from the Globalization Promotion Office conducted a special lecture regarding the internationalization of Japan.

In addition, representatives from both participating universities IITG and UKM, also conducted special lectures on their respective specialized fields.

Date	Lecturer	Title
Dec. 7	Assistant Prof. Nakako Katsuno	Quality control and addition of high value in sesame seeds processing
Dec. 9	Associate Prof. Yasuhiro Takahashi	Circuit Design Challenges for Next Generation Large-Scale Integrated (LSI) Circuit
Dec. 15	Associate Prof. Lee Wah Lim	Globalization in Japanese University: a Focus on Gifu University
Dec. 19	Prof. Vimal Katiyar (IITG)	Sustainable Polymers for food packaging
	Assistant Prof. Pankaj Kalita (IITG)	Investigation of hydrodynamics and heat transfer characteristics with biomass blends in a pressurized circulating fluidized bed
	Associate Prof. Nasharuddin Zainal (UKM)	Pixel, the Smallest Single Component of a Digital Image, and its Applications



Company Tours Accomplishment Reports Closing Ceremony



Company Tours

Company Tours (Dec. 8, 13, 2016)

Participants in the Winter School Program also went on company tours related to their field of research for the purpose of better understanding how research at Gifu University and corporate R&D are related. After attending the pre-visitation lectures, the participants toured Shinsei Co., Ltd, a sesame processing food maker on Dec. 8 (Thu) and visited ON Semiconductor company on Dec. 13 (Tue). By observing the actual manufacturing processes and listening to talks by development engineers, these tours provided a good opportunity for participants to realize the relation between university research and corporate R&D.

Accomplishment Reports (Thu., Dec. 22, 2016)

During the Accomplishment Reports, the Winter School participants gave a presentation on their Japanese classes and laboratory work.

- (1) Japanese speech: Self-introduction, feedback for Winter School Program (1-2min)
- (2) Laboratory Work accomplishment report with PPT (10min)
- (3) Question and Answer (3min)

Associate Professor Momoko Tsuchiya, the coordinator of survival Japanese class, gave her comments on the students' Japanese speech. And from the research point of view, the academic advisors and professors who supervised the participants also provided their comments.

Closing Ceremony (Thu., Dec. 22, 2016)

At the closing ceremony, Dr. Fumiaki Suzuki presented the Winter School Completion Certificate to each individual participant and then gave a closing remark.

Farewell Party (Thu., Dec. 22, 2016)

At the farewell party held during lunchtime, supervisors and student tutors bid their farewell to the participating students. In addition, we were also honored by the presence of President Moriwaki at the party who rendered some opening greetings and chatted informally with the participating students.



Accomplishment Reports



Closing Ceremony



Farewell Party



We look forward to meeting you again somewhere in the near future.

QUESTIONNAIRE

1. Participants information

Males	3
Females	5
Average age	24 years old

Gifu-U	IITG/UKM	Persons
Faculty of Engineering	Mechanical Engineering(IITG:PhD,B)	2
	Chemistry (UKM: M)	2
Faculty of Applied Biological Science	Chemical Engineering (IITG: PhD)	1
	Biotechnology (IITG: M, B)	2
	Chemistry (IITG: PhD)	1

2. Satisfaction with the 2nd Winter School Program

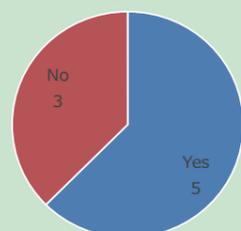
Average of Satisfaction



Would you recommend the Winter School Program to the people you know?



Have your impressions about Gifu University changed before and after joining the program?



Reasons

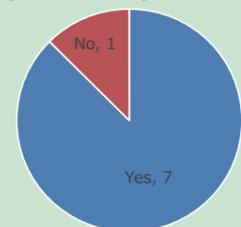
YES

- *Always knew it was a great place.
- *Gifu University is really a nice place to join. We explored so many things there. Really a very good place.
- *Gifu University has tremendous research work going on with cutting-edge research facilities.

NO

- *As I expected

Do you have any plans to pursue master's and/or doctor's degrees in Japan in the future?



Reasons

YES

- *As I am already enrolled in a doctor's degree. But I would like to join my post doc. over there if I get a chance.
- *Yes (If a Post Doc or any other research related enrollment is available for PhD students.) The work environment is great, moreover certain instruments are readily available whereas here in India we have to wait for months to operate on one instrument.

NO

- *Already research scholar.

Satisfaction with Laboratory Work

Supervisors instruction

Very Good	Good	Acceptable	Bad	Very Bad
5	3	0	0	0

Laboratory hours

Too many	Appropriate	Too few
0	6	2

Accomplishment report necessary or not

Necessary	Either is fine	Not necessary
6	2	0

Satisfaction with Japanese Class

Teachers & ways of teaching

Very Good	Good	Acceptable	Bad	Very Bad
8	0	0	0	0

Number of class (90min/1class, a total of 12 classes)

Too many	Appropriate	Too few
0	7	1

Last speech necessary or not

Necessary	Either is fine	Not necessary
7	1	0

3. Impression of joining this program as a student supporter (questionnaire for Gifu-U students)

For students at Gifu University, the Winter School Program has provided a good opportunity for international exchange. In this academic year, in addition to Japanese students, Indonesian international students also cooperated as "tutors" or student supporters.

Q. Were you glad to participate as student supporter?

Extremely glad	Glad	Not glad
4	2	0

Impressions (some excerpts)

Through this international exchange program, I was able to gain various experiences. I got to know many international students and received stimulation from people with different ways of thinking. As a result, I could gain some personal confidence.

It was a very good experience for me to have the opportunity to live with foreign students. In addition to learning English, I could experience differences in culture, food, and lifestyle. Moreover, I got acquainted with foreign countries.

Since there are very few opportunities to experience the sense of "community" with foreigners, this program provided me a stimulating everyday experience which I cannot gain in my normal daily life through speaking English and eating foreign food. However, at the same time, I also experienced difficulty in my ability to communicate in English, so I would like to make effort to improve my communication skills next time.

Since I have never visited India or Malaysia myself, I had the chance to meet people from unfamiliar countries and enjoyed it very much. Although there were religious limitations in what can be eaten; in this regard, I felt I had made the attempt to draw myself closer to the foreign culture through cooking rice. For me, it was exciting to know and experience things that I hadn't known so far. In reflection, I think it would be good for me to communicate more positively and speak more English.

Comments from Supervisors

Thank you for choosing our laboratory in this Winter School. I had a good opportunity to take care of Indian student that I have never supervised before as a foreigner. According to your attitudes against experimental and discussion, I could easily understand you would be a great scientist with PhD. Hope our paths will cross again.

Professor Tohru MITSUNAGA



I was very lucky to have the opportunity to supervise Ms. Fatimah Zahrah. She has come to my laboratory with her polymer films. She studied and analyzed her samples by much technique to define the polymer surface as she could within a very short time. I hope that I can meet you someday in the future.

Professor Akiyoshi TAKENO

Johan, I hope your experience at our University this time more activates you. If you like, we welcome you here in our doctor course, and although you may now feel that our research fields are slightly different from yours, I'm sure that soon you see our research fields in both ionomeric materials and liquid crystalline materials fascinate you.

Professor Shoichi KUTSUMIZU and Associate Professor Yohei MIWA



It was my great pleasure to be supervisor of Ms. Bhumika from IITG. She studied "Effect of DC substrate bias on carbon nanowall growth in hot-wire CVD process." She discussed research plan and results with me and carried out her research with my students including deposition of carbon nanowall samples. This experience was good not only for me but also for my students. I hope she will visit Gifu University again.

Professor Takashi ITOH

Thank you for choosing our lab. It was a great opportunity for us lab members, in particular for your colleague, Kaname. He has obviously developed by collaboration with you! I was really taken by your understanding of the project. I look forward to seeing you in international conferences or via research papers.

Associate Professor Yoshikuni TERAMOTO



It was my great pleasure to supervise Mr. Dharanidaran Jayachandran at the Winter School. During the winter school, he tried to show the physiological function of AOD isozymes in methanol metabolism of the yeast in our laboratory. I think that he had very good experience with us in the winter school, and I hope his success as an excellent scientist in the future.

Professor Tomoyuki NAKAGAWA

It is my pleasure to supervise Mr. Abinash Mahapatro during staying at Gifu-U as a student of Winter School 2016. As his topic at IITG was relating to biomass energy conversion technology, he was so interested in reaction kinetics of biomass and coal co-gasification studied as a laboratory work at Gifu-U and obtained an excellent result in a short period. I was impressed with his honest efforts and great talent.

Professor Yoshinori ITAYA



At the Winter School 2016, Ms. Prachi Tosniwal, 6th semester of BSBE of IITG, enjoyed a compact research project with me (Hiroyuki Koyama, Professor) and Prof. Yoshiharu Y Yamamoto. She focused 'in planta' reporter assay system, which is a powerful experimental approach to understand how plants adapt various environment. She showed excellent performance throughout the project, and we enjoyed guiding her. Excellent experience!

Professor Hiroyuki KOYAMA

Your Japanese speeches at the closing ceremony were fantastic! No one believes you studied Japanese language only 18 hours. Well done, everyone! We visited Jikabuki performance and yelled "Mattemashita (I have been waiting for you)!" to actors a lot. It was very interesting, wasn't it? We all look forward to seeing you again in Gifu. When you come back to Gifu University, I will say to you "Mattemashita!" Bye for now and see you again!

Associate Professor Momoko TSUCHIYA



Comments from Winter School Participants

- *I have learnt a lot about Japanese culture as well as got some hands on experience of advanced lab equipment at GIFU university.*
- *I had a great time at Gifu University. All the events were perfectly managed and executed by the concerned authorities which was commendable. The research work was also really good. I got to learn a lot new things from this program which was my main motive.*
- *I learnt Japanese. Worked in a lab abroad even if it was for some time. And I was sponsored for my flight.*
- *As it really helped me in grooming myself on a personal level by providing me an opportunity to work with people from different cultural backgrounds.*
- *Before being a part of Winter School'16 I was in a doubt of whether I shall be able to get accustomed to the work, people and lifestyle of Japan but after my arrival at Gifu University, I felt like it was my second home. I thoroughly enjoyed my short stay in Gifu.*
- *I expected the tour to be a walk through the Japanese culture and less of the laboratory work but the schedule was apt and everything had been included in the 3 weeks duration.*
- *I have fulfilled all my reason to participate for winter school and I am very satisfied about it.*
 - *I've done three hands on lab instruments, have good discussions with my lab mates and lecturers.*
 - *I've learnt a lot of Japanese culture such as CHADO, Jikabuki, and Kimono. Not only that, I got the chance to improve my Japanese language. I got my own Japanese Language text books and senseis are all very polite and cheerful.*
 - *Classes were fun. Nihongo classes help me to survive in Japan, they were very helpful.*
 - *I also got the chance to meet a lot of people, from Indonesia, India and Japan. Making new friends and connection.*



GIFU UNIVERSITY

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