

Saitama University
Graduate School of Science & Engineering

Vol. 2
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Energy System – Information Technology Innovation International Professional Program

Greetings

Our international program was launched in 2019 as International Graduate Program on Renewable Energy System Engineering (RESE). In 2021, it was approved again as a special program of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) under the new program name of Energy System-Information Technology Innovation International Professional Program (ESITI).

Although there have been difficult times due to the worldwide Pandemic, I believe that all our international students are having fruitful study abroad experiences in Japan through various events and research activities over the past four years. In this newsletter, we would like to share with you some recent events as well as the encouraging voices from alumni and current students.



Recent Events

Prefectural Institution ‘SAITEC’ Visit

On 16th November 2022, 10 International students of ESITI Program visited SAITEC (Saitama Industrial Technology Center) accompanied by Professor Shimamura, the Head of the program.

SAITEC is a public research organization for industries administrated by Saitama Prefecture which was established in 2003 to promote the development of small and medium sized enterprises (SMEs) through industrial technology and contribute the quality of life in Saitama. After the lecture by the staff members of SAITEC, we have visited some facilities such as 3D Printer & Scanner, Large X-ray CT system, Climate Testing Chamber and Anechoic Chamber. The students were very interested and actively asked questions to the staff.



Location:
Saitama Industrial Technology Center
3-12-18 Kamiaoki, Kawaguchi, Saitama
<https://www.pref.saitama.lg.jp/saitec/>

ESITI Welcome Party 2022

ESITI Program’s Welcome Party was held on 25th October 2022. We have nine new students joined our program in 2022. During the pandemic, it has been difficult to get together, but this time everyone had a good time welcoming new students. There were Special Speeches by Dr. Kuddus Abdul, who had just graduated Material Science course in September 2022 and Ms. Nay Chi Lynn (D2) who has launched Google Developers Student Club at Saitama University. All the participants have spent very productive and meaningful moments together on this day.





MD RAHAT AL HASSAN (Bangladesh)

Graduated from: Bangladesh University of Engineering & Technology (BUET)
 Laboratory: Strength of Materials (Professor Yoshio Arai),
 Mechanical Engineering Department since April 2021

Research Subject:

***Hydrogen storage vessel Al/CFRP interface debonding for cooling effects :
 Numerical cohesive zone modeling and experimental validation***

It's been a long time since the Japanese universities are higher education seeking destinations for students from all throughout the world. Saitama University is one of them which is well known for high quality education and skills development. So many Bangladeshi students graduated from this university and serving now in different academic and industrial sectors back in Bangladesh. I am also happy and feel proud to be admitted here for chasing my PhD degree. I wish all the best of this university.

In addition, Japan as a country for receiving my higher education was always a dream to me specially for the well-mannered, supportive Japanese people as well as their inclusive attitudes to multiple cultures.



NAY CHILYNN (Myanmar)

Laboratory: Professor Tetsuya Shimamura,
 Computer Science Department since April 2021

Research Subject: ***Estimating Noise Variance and Evaluating Image Quality***

Studying in Japan and broadening my knowledge is my dream since I was young. Japan is not only technology sophisticated country but also a land of people with good culture and kind manner.

When I was in my Myanmar university, I got the chance to attend the knowledge sharing seminar by the professors from various universities from various countries such as India, Australia, Japan, etc.

I fortunately got the opportunity to join the signal processing lecture of the Professor Tetsuya Shimamura, Saitama University. Prof. Shimamura give the lecture and his way of teaching is letting the student to learn by encouraging with his rich experience. I was really impressive, and I recognize that this is the dream that I was chasing all the time.

In fact, Saitama University is the famous national university in Japan with many good reputation history such as the winner of Noble Prize graduated from SU. Besides, the research in Engineering are very impressive. The university is green and clean environment. The transportation is convenient too at the same time as it is about 50 min distance from Tokyo. The teachers are kind and always ready to help students.

I have one more opportunity to broader my communication while I am studying in Saitama University. I heard the news with the Google Developer Student Club, which is the student club for students interested in technologies empowered by Google developers. I participate in the GDSC Japan clubs and then get the opportunity to apply and become a founder and lead in GDSC, Saitama in 2022~2023. I feel that I can learn not only university based but also in Japan and international wide.



NGUYEN TIEN DUNG (Vietnam)

Graduated from: Hanoi University of Civil Engineering, Vietnam
 Laboratory: Strength of Materials (Professor Yoshio Arai),
 Mechanical Engineering Department since October 2021

Research Subject:

Laser ultrasonic nondestructive technique for simultaneous measurement of metal plate thickness and elastic constants

I was fortunate to be awarded a scholarship by ESITI international program to study for my Ph.D. for three years at Saitama University, one of the most famous universities in Japan. After one year of studying, I should say that what I got to see was much more than I expected, especially what I learn from my supervisor. I also have an opportunity for discussing with young researchers with great enthusiasm toward their research and broaden my knowledge in many fields.

I am very much impressed with the technology, transport system, time management, and clean environment. Also, the impression of Japanese people is that they are very polite, punctual, friendly, respectful, hard-working, clean, kind, respect towards rules, and well-mannered. I am very much happy to study in Japan.



LAE LAE HTUN(Myanmar)

Graduated from: University of Computer Studies, Taunggyi, Myanmar
Laboratory: Shimamura Lab, Computer Science Department since October 2021

Research Summary:

Different kinds of expressing and reading emotions regarding to the cross-culture communication, which can cause great misunderstandings with people from other countries in situations such as social development and international negotiations. We are planning to find out the various pattern of prosodic features in speech perception impression based on a cross-cultural communication.

Present studies used only one Japanese word “ん” to express different kinds of emotions, native Japanese speakers intentionally generated 8 emotional speeches based on the Japanese card game. Based on the preliminaries survey, we found out various patterns of prosodic features such as different F0 dynamic patterns and duration correspond to speaker’s emotions and intensions.

Life in Japan is safe and secure, and there are so many things to study not only in modern technologies but also Japanese culture and traditions. Saitama University has a good environment and encourage lots of campus facilities for all students such as student club, counselling room, international exchange events, language class and especially strong support for research. So, we (international students) can stretch our intellectual horizons, and also engage in various experiences and opportunities. I am blessed that I have had the opportunity to study my PhD course at Saitama University.



AQIB SAGHIR (Pakistan)

Capital University of Science & Technology (CUST), Pakistan

Laboratory: Takahashi/ Machihara Lab.,

Mathematics Department since October 2022

Research Summary: Scientific revolution in the 17th century led to the discovery of an important branch of mathematics Analysis. Among its numerous other branches, functional analysis emerged as a rather complex and a diverse blend of Algebra and Topology. My research is related to functional analysis such as Invariant measures for iterated function systems with inverses and fixed-point theory.

I am extremely honored and privileged to have the opportunity of doing PhD at Saitama University. My supervisor has been really supportive and helpful. The other faculty and fellow students have been kind and supportive as well. Moreover, I would like to appreciate the official workers of SU and International house due to their generous efforts to provide the required assistance. They have been very kind and supportive to provide any information. I've been inspired by their amazing work ethics. Additionally, I feel extremely secure while living in Japan as an international student.



AMMAR AHMED RAJA (Pakistan)

Shanghai Jiao Tong University, China

Laboratory: MANA-Green Materials and Advanced Catalysis Lab (ABE Lab),
NIMS Tsukuba since October 2022

Research Subject:

Green Hydrogen Production through Advanced Catalysis and Innovative Carbon Capture Techniques incorporating Catalysis

Japan is an invention! Just like an exquisite fancy of art, the Japanese are a mode of style. JAPAN....., It isn't a country but an environmentally benign Brand for the world. Comprising of Peace, Decorum, Mannered people, and beautiful aura. In this gigantic cherry blossom garden, we have our Saitama University. Research led into the heart of Japan, an educational bonanza which is producing quality professionals and manufacturing thoughtful and responsible minds. I am not more than blessed to be a part of this process. I am afraid to leave this country and my institution because once this experience gets inside, we may leave it, but it won't.



Dr. Abdul Kuddus (Bangladesh)

Graduated: Shirai Lab, Material Science Course 2019-2022

Thesis title: Direct Synthesis of Few-layer 2D Transition Metal Dichalcogenides by Mist-CVD And Their Applications to MOSFET and Photovoltaic Devices

Current position: Senior Researcher, Ritsumeikan Global Innovation Research Organization (R-GIRO), Ritsumeikan University, Japan.

“If you explore every possible factor and ruminates over them to the point of squeezing your brain, you will have a better chance of getting things right.” (Masatoshi Koshihara, Nobel Prize, Physics, 2002)

Going to University, especially one as prestigious academic and research institution in Japan of Saitama University (Saidai) was a wonderful experience and memories. This was an opportunity for me to learn not only the world advancement in science and engineering technology as a material science passionate; specially semiconductors and devices, but also to learn about own-self; who I am, what want to do in life, and what is my responsibility for societies and thereby nation. Although, it was un-even and challenging at initial stage, I was able to retain me on the right path throughout years. Regardless, the evaluation of pros and cons, I embraced every opportunity, therefore, I became successful to find out something on which I was passionate and persistent. Thus, I achieved my dream of doctoral graduation, most importantly, knowledges to go further way as a passionate researcher with a good network and communities.

Three years of study and research in Saidai helped me to realize a concurrent study and advanced research with a new and innovative ideas related to my research field with its proper execution, therefore, I was offered a postdoctoral researcher position in Saitama University within several days of graduation and thereafter senior researcher position in Ritsumeikan University within a month. My research mainly focusses on preparation of 2D layered semiconductor and oxide materials using a simple economical way for the applications in electronic, optical and photovoltaic devices.

However, I am so lucky to have many Japanese friends including my lab members and staffs. I encourage to all students from different parts of the world to take an opportunity to study in Japan; especially at Saitama University to explore your dream, potentiality and knowledge as well as enjoy Japanese life even though you are not familiar with Japanese language. Japan will offer you a secured quality life. Japanese peoples are very much kind, polite and cooperative!!!! Best wishes for Saidai and saidai's family.

MEXT Scholarship University Recommendation is the scholarship which is sponsored by Japanese government to support the international students who wish to pursue their study in Japan. An applicant must be recommended by a Japanese university to MEXT (Ministry of Education, Culture, Sports, Science and Technology). To be eligible, an applicant must meet the following requirements.

- ✓ be a national of country that has diplomatic relations with Japan.
- ✓ be under 35 years of age as of April 1st of the application year.
- ✓ be in both good physical and mental health.
- ✓ have excellent academic achievement with a minimum GPA of 2.30 (out of 3.0 on MEXT's standard scale) in one's master's degree
- ✓ have a language ability equivalent to B2 or above on the Common European Framework of Reference for Languages (CEFR) (e.g., TOEFL iBT 80 or above, IELTS 5.5 or above, or other equivalent tests)

Admission Schedule for ESITI International Graduate Program

October 2024 intake

under MEXT Scholarship University Recommendation

Nov - Dec 2023 Application
 Dec 2023- Jan 2024 Screening
 Feb 2024 Announcement of the result
 Jun - Jul 2024 Approval from MEXT
 Sept 27, 2024 (tentative) Fall Semester begins

April 2024 intake

under Regular Admission (for Self-funded students)

Nov 1 2023 Application Deadline
 Dec 2023- Jan 2024 Screening
 Jan - Feb 2024 Announcement of the result
 April 10, 2024 (tentative) Spring Semester begins

Please check our website for details.
<http://park.Saitama-u.ac.jp/~rese/>



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