

**Graduate School of Advanced Technology and Science
Tokushima University**

Summer School

July 26–August 7, 2015

Tokushima, Japan

Sponsors

- ✧ Center for International Cooperation in Engineering Education (CICEE), Tokushima University.
- ✧ International Center, Tokushima University.
- ✧ FD Committee, Faculty of Engineering, The University of Tokushima
- ✧ Center for General Education, Tokushima University.

Contents

Course Details

- (i) Nanotechnology and Materials Science Course
- (ii) Electrical Engineering and Information Science Course

General Information

The Center for International Cooperation in Engineering Education (CICEE) at Tokushima University is pleased to announce that it will be hosting a summer school program for engineering graduate students who are studying at Tokushima University or its partner institutions. This program offers the following two courses: Nanotechnology and Materials Science, Electrical Engineering and Information Science. Students may enroll in only one of the two courses. All courses are offered in English by both guest lecturers and faculty members of Tokushima University.

Registration

Students are required to submit a registration form to the CICEE Office by e-mail, fax or post prior to the program, no later than Monday, June 15, 2015. **The Registration fee is 3000 Yen.** This registration fee will be used for the field trips. However, participants are responsible for their local travel expenses and any other living expenses while in Tokushima.

Schedule

Each course has its own schedule for the Summer School. Additionally, here is the common schedule for all participants.

(i) Registration :

Date and Time: Sunday , July 26, 16:00 to 18:00

Registration begins at 16:00 Please be prompt.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus.

(ii) Opening Ceremony

Date and Time: Monday, July 27, 10:00 to 10:30

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus.

Opening Remarks:

- 1. Prof. Yasuhiko Kawamura (Dean of Engineering, Tokushima University, Japan)
- 2. Prof. Toshihiro Moriga (Director, CICEE, Tokushima University, Japan)

(iii) Orientation and Common Activities

1. Common Lecture 1

Date and Time: Monday, July 27, 10:30-11:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Dr. Pankaj Koinkar** (Tokushima University)

Title: "Summer School Orientation: Program and Information"

2. Common Lecture 2

Date and Time: Monday, July 27, 13:00-14:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Dr. Satoshi Hashimoto** (Tokushima University)

Title: "Basic Japanese for Communication"

3. Common Lecture 3

Date and Time: Monday, July 27, 14:40-16:10.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Takeshige Otoi** (Tokushima University)

Title: "Collaboration with Asian researchers in the field of assisted reproductive technology (ART) in animals"

4. Common Lecture 4

Date and Time: Tuesday, July 28, 10:00-11:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Hajime Miura** (Tokushima University)

Title: "Influence of Exercise and Hypertension/Arteriosclerosis"

5. Common Lecture 5

Date and Time: Tuesday, July 28, 13:00-14:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Ri-ichi Murakami** (National Taiwan University of Science and Technology, Taiwan)

Title: "Physical and Chemical Properties of Nanomaterials"

6. Common Lecture 6

Date and Time: Tuesday, July 28, 14:40-16:10.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Hiroshi Takubo** (Tokushima University)

Title: "The English Language in a Globalized World"

7. Common Lecture 7

Date and Time: Wednesday, July 29, 10:00-11:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Rozzano Locsin** (Tokushima University)

Title: "Advancing the Theory of Technological Competency as Caring in Nursing"

8. Common Lecture 8

Date and Time: Thursday, July 30, 10:00-11:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Prof. Shih-Hsuan Chiu** (National Taiwan University of Science and Technology, Taiwan)

Title: "Development of Mask Projection Stereolithography (MPSLA) rapid prototyping system"

9. Common Lecture 9

Date and Time: Friday, July 31, 10:00-11:30.

Place: Memorial Hall, Second Floor, Alumni Building, Josanjima campus

Speaker: **Dr. Raja Izamshah** (Universiti Teknikal Malaysia Melaka, Malaysia)

Title: "Composites Materials for Aerospace"

(iv) Field Trip at Hiroshima (August 2)

Meeting Place: In front of the Electrical and Electronic Engineering building

Date and Time: Sunday, August 2, 6:30

Schedule :

7:00	Departure from Tokushima University
10:30	Arrival at Hiroshima
10:45	Visit to Hiroshima Museum and Memorial Park
12:00	Departure from Memorial park
12:30	Lunch
13:30	Departure from Hiroshima
14:15	Arrival Ferry Terminal
14:45	Visit to Miyajima island
16:30	Departure from Miyajima island
17:00	Arrival ferry Terminal
17:15	Departure from Hiroshima
21:00	Arrival at Tokushima University

(v) Intercultural Meeting

Date and Time: Tuesday, August 4, 18:30 – 20:30

Place: Awa Kanko Hotel, Tokushima

(vi) Field Trip at Otsuka Pharmaceutical Company, Itano, Tokushima

Meeting Place: In front of the Electrical and Electronic Engineering building

Date and Time: Wednesday, August 5, 7:30

Schedule :

7:45	Departure from Tokushima University
8:30	Arrival at Otsuka Pharmaceutical Company
9:00	Visit to Medical Division
10:00	Visit to Food Division
11:00	Departure from Otsuka Pharmaceutical Company
12:00	Arrival at Tokushima University

(vii) Field Trip at Kyoto, Kyoto City

Meeting Place: In front of the Electrical and Electronic Engineering building

Date and Time: Thursday, August 6, 6:30

Schedule :

7:00	Departure from Tokushima University
10:30	Arrival at Kyoto
11:00	Visit to Kinkakuji Temple
12:00	Lunch
13:30	Visit to Kiyomizu Dera Temple
16:30	Departure from Kyoto
20:30	Arrival at Tokushima University

(viii) Field Trip at Kamikatsu Town, Tokushima (August 7)

Meeting Place: In front of the Electrical and Electronic Engineering building

Date and Time: Friday, August 7, 8:00

Schedule :

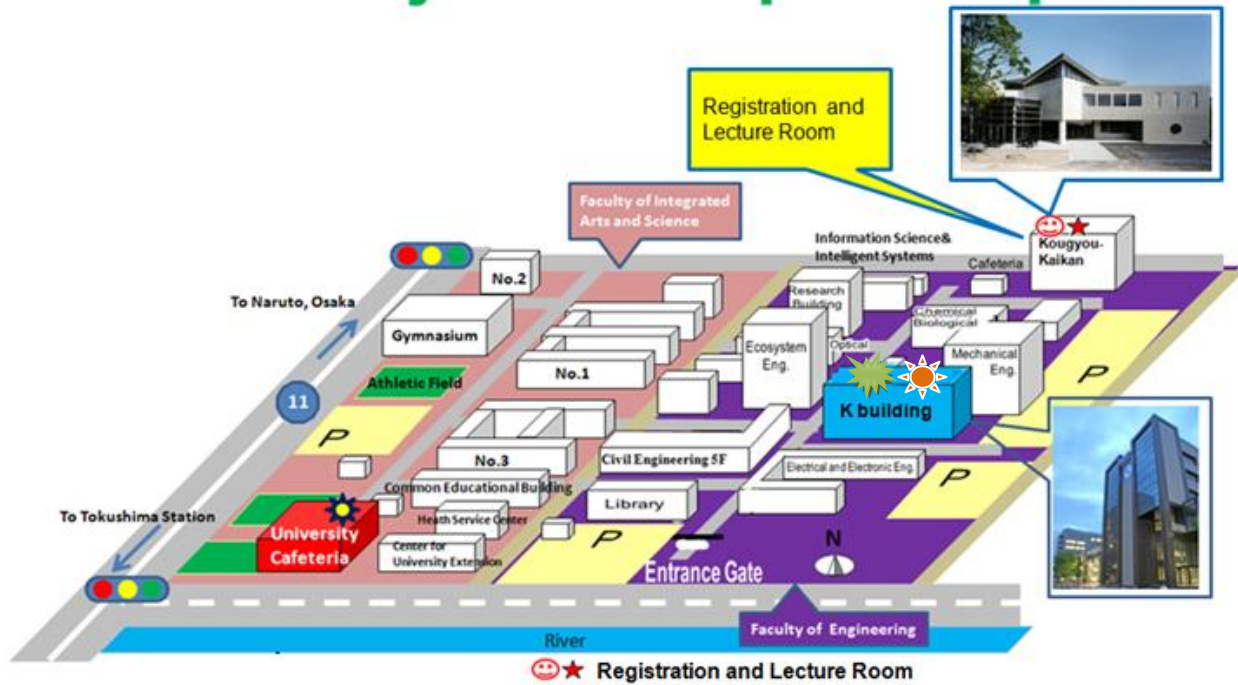
8:30	Departure from Tokushima University
9:15	Arrival at Natural Farm in Kamikatsu Town
10:00	Departure from Natural Farm
10:30	Visit to Zero Waste shop (Kuru Kuru Shop)
11:15	Departure from Zero Waste shop
11:45	Orientation at Fureai Hall
12:00	Lunch
13:00	Preparation for Group Performance
13:30	Group Performance
15:15	Exchange meeting and discussion with Local Residents
16:00	Departure from Fureai Hall
17:00	Arrival at Tokushima University
17:15	Closing Ceremony

Schedule: *Summer School* 2015

First Week				
July 26	16:00 18:00	Registration		
July 27	10:00 10:30	Opening Ceremony	Yasuhiko Kawamura (Dean of Engineering) Toshihiro Moriga (Director, CICEE)	Opening Speech Opening Remark
	10:30 11:30	Common Lecture 1	Pankaj Koinkar	Summer School Orientation: Program and Information
	13:00 14:30	Common Lecture 2	Satoshi Hashimoto	Basic Japanese for Communication
	14:40 16:10	Common Lecture 3	Takeshige Otoi	Collaboration with Asian researchers in the field of assisted reproductive technology (ART) in animals
July 28	10:00 11:30	Common Lecture 4	Hajime Miura	Influence of Exercise and Hypertension/ Arteriosclerosis
	13:00 14:30	Common Lecture 5	Ri-ichi Murakami	Physical and Chemical Properties of Nanomaterials
	14:40 16:10	Common Lecture 6	Hiroshi Takubo	The English Language in a Globalized World
July 29	10:00 11:30	Common Lecture 7	Rozzano Locsin	Advancing the Theory of Technological Competency as Caring in Nursing
	13:00 14:30	Special Lecture 1	Chin-Yang Yu (Nano & Mat Sci. Course)	Conjugated Polymers for Optoelectronics
			Yoko Uwate (EE and IS Course)	Nonlinear Circuits and Brain
	14:40 16:10	Special Lecture 2	Mikito Yasuzawa (Nano & Mat Sci. Course)	Preparation of Functional Surface and Application for Biosensors
			Akinori Kawachi (EE and IS Course)	Modern Cryptography and Quantum Computing
July 30	10:00 11:30	Common Lecture 8	Shih-Hsuan Chiu	Development of Mask Projection Stereolithography (MPSLA) rapid prototyping system
	13:00 14:30	Special Lecture 3	Keh-moh Lin (Nano & Mat Sci. Course)	Spectroscopic ellipsometry characterization of transparent conductive oxide films microstructure and optical constants
			Shun Nishide (EE and IS Course)	Creation of developmental robots using neural networks
	14:40 16:10	Special Lecture 4	Takeshi Yasui (Nano & Mat Sci. Course)	Advanced Photonics Research
			Jin-Ping Ao (EE and IS Course)	Introduction of Semiconductor Devices
July 31	10:00 11:30	Common Lecture 9	Raja Izamshah	Composites Materials for Aerospace
	13:00 16:00	Laboratory Visits	Nano & Mat Sci. Course and EE and IF Course	
August 1	17:00 21:00	Local Sightseeing	Tokushima Central Park, Tokushima Castle Museum, Hyotanjima Boat Tour	
August 2	Field trip 1			

Second week				
August 3	9:00 12:30	Student Conference	Student's Presentations 1	- Introduction of a project for sustainable society - Health Care system in Local Community
	13:30 15:30		Group Discussion	- Introduction of a project for sustainable society - Health Care system in Local Community
	15:30 16:30		Poster presentation	- Introduction of a project for sustainable society - Health Care system in Local Community
August 4	9:00 10:00	Student Conference	Student's Presentations 2	Wisdom of Local Community
	10:00 11:00		Group Discussion	Wisdom of Local Community
	11:00 12:30		Poster presentation	Wisdom of Local Community
	16:00 18:00	Cultural Show		
	18:30 20:30	Intercultural Party		
August 5	7:45 8:30	Field trip 2: Otsuka Pharmaceutical Itano town, Tokushima	Departure from Tokushima University Arrival at Otsuka Pharmaceutical Company	
	9:00 10:00		Visit to Medical Division	
	10:00 10:30		Visit to Food Division	
	11:00 12:00		Departure from Otsuka Pharmaceutical Company Arrival at Tokushima University	
August 6	7:00 10:30	Field Trip 3: Kyoto city	Departure from Tokushima University Arrival at Kyoto	
	10:40 12:00		Visit to Kinkakuji temple Departure from Kinkakuji	
	12:30 13:30		Lunch Visit to Kiyomizu Dera temple	
	16:30 20:30		Departure from Kiyomizu Dera temple Arrival at Tokushima University	
August 7	8:30 9:15	Field Trip 4: Kamikatsu Town	Departure from Tokushima University Arrival at Natural Farm Kamikatsu Town	
	10:00 10:30		Departure from Natural Farm Arrival at Zero Waste shop (Kuru Kuru Shop)	
	11:15 11:45		Departure from Zero Waste Shop Orientation at Fureai hall	
	12:00 13:00		Lunch Preparation for group performance	
	13:30 15:15		Group Performance Exchange Meeting and Discussions with local residents	
	16:00 17:00		Departure from Fureai Hall Arrival at Tokushima University	
	17:15		Closing Ceremony	

Josanjima Campus Map



☺ **Opening Ceremony:** Memorial Hall, Second Floor, Alumni Building, Josanjima campus.

★ **Common Lectures**
Memorial Hall, Second Floor, Alumni Building, Josanjima campus.

Special Lectures

☼ **Nanotechnology and Materials Science Course:** K 404, Fourth Floor, K Building, Josanjima campus.

☀ **Electric Engineering Information Science Course:** K 405, Fourth Floor, K Building, Josanjima campus.