

International Affiliated Double-Degree Program

SUMMER SCHOOL

August 5–11, 2013

Center for International Cooperation in Engineering Education
Graduate School of Advanced Technology and Science
The University of Tokushima
Tokushima, Japan

Sponsors

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

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 The University of Tokushima is pleased to announce that it will be hosting a summer school program for engineering graduate students who are studying at The University of Tokushima or its partner institutions. This program offers the following two courses: Nanotechnology and Materials Science, Electrical 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 The University of Tokushima.

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 Thursday, May 31, 2013. **The Registration fee is 4000 Yen.** This registration fee includes the accommodation charges and meal for the field trip at Kamikatsu town. 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 most of the period of the Summer School. Additionally, here is the common schedule for all participants.

(i) Opening Ceremony

Date and Time: Monday, August 5, 9:30 a.m. 9:40 a.m.

Registration begins at 9:00 a.m. Please be prompt.

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

Opening Remarks:

1. Prof. Junichiro Fukutomi (Dean of Engineering, The University of Tokushima, Japan)
2. Prof. Ri-ichi Murakami (Vice-Director, CICEE, The University of Tokushima, Japan)

(ii) Common Lectures

1. Common Lecture 1

Date and Time: Monday, August 5, 9:40-10:20.

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

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

Title: Introduction of Summer School Program

2. Common Lecture 2

Date and Time: Monday, August 5, 10:30-11:20.

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

Speaker: **Dr. Michihiro Nakamura** (The University of Tokushima)

Title: Novel organosilica nanoparticles and applications for biomedical imaging.

3. Common Lecture 3

Date and Time: Tuesday, August 6, 09:30-10:20.

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

Speaker: **Dr. Jun Zaki** (The University of Tokushima)

Title: A glance in "The Cross-Cultural Communication Skills".

4. Common Lecture 4

Date and Time: Wednesday August 7, 9:30-10:20.

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

Speaker: **Mr. Hiroshi Sakata** (The University of Tokushima)

Title: Japanese way of Communication.

(iii) Intercultural meeting

Date and Time: Wednesday, August 7, 18:30 – 20:30

Place: University Cafeteria, Josanjima campus

(iv) Field Trip at Kamikatsu town (August 8-10)

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

Date and Time: Thursday, August 8, 7:45

Day 1: Field trip 1 - Japanese cultural experience

Field trip Place: Mountain School, Kamikatsu town

Schedule:

8:00 Departure from The University of Tokushima

9:30 Arrival at Mountain school, Kamikatsu town

10:00 Lectures:

i. Giant trees, Sacred Trees

Dr. Masaya Satoh, The University of Tokushima

ii. Floral characteristics in temperate region Shikoku -
condensed plant diversity

Dr. Takashi Yamahiro, The University of Tokushima

| | |
|-------|-----------------------------------------------|
| 12:00 | Lunch |
| 13.00 | Group Discussion |
| 15.30 | Field trip 1: Nature and Culture in Kamikatsu |
| 17:30 | Arrival at Mountain school |
| 19:00 | Cross Cultural meeting |

Day 2: Field trip 2 - Internship and Business experience

Schedule

| | |
|-------|-------------------------------------------------------------------------------------------------------------------|
| 8:00 | Departure from Mountain school. Irodori leaf Internship, Tea harvesting, Forestation, Bamboo Craft, Farming |
| 12:30 | Lunch |
| 16.00 | Arrival at Mountain school |
| 19:00 | Cross Cultural meeting |

Day 3: Orientation on small business Venture

Schedule

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:40 | Lecture on small business venture and charcoal business <ul style="list-style-type: none"> i. The Miracle of Irodori to next stage of Kamikatu Mr. Masahiro Onishi , Coordinator for Community innovation ii. Sustainable Eco-society -Local business using charcoal Mr. Kazuhiro Watanabe, Community Creator for charcoal business |
| 9:40 | Group Discussion |
| 11:20 | Closing ceremony |
| 11:30 | Departure for The University of Tokushima |

(v) Closing Ceremony

Date and Time: Saturday, August 10, 11:20-11:30.

Place: Mountain School, Kamikatsu Town

Closing Remarks:

1. Prof. Ri-ichi Murakami (Vice-Director, CICEE, The University of Tokushima, Japan)
2. Prof. Toshihiro Moriga (Vice-Director, CICEE, The University of Tokushima, Japan)

Summer School: Nanotechnology and Materials Science Course

Place: Memorial Hall (Alumni Building, 2nd Floor)

| Day/ Time | Monday August 5 | Tuesday August 6 | Wednesday August 7 | Thursday August 8 | Friday August 9 | Saturday August 10 | Sunday August 11 |
|----------------|-------------------------------------------------------------|-----------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|
| 9:30 10:20 | <i>Opening ceremony & Common Lecture 1</i> (Koinkar) | Common lecture 3 (Zaki) | Common lecture 4 (Sakata) | <i>Field trip</i> (8:00 to17:30) | <i>Internship and Field trip</i> (8:00 to17:00) | Orientation (8:40 to11:20) | <i>Free time for Japanese Cultural Experience</i> |
| 10:30 11:20 | Common Lecture 2 (Nakamura) | Lecture 5 (Kim) | Lecture 10 (Nakagaito) | - Lecture on Giant trees and Forestation - Nature and Cultural experience in Kamikatsu town | - Internship on Irodori Leaf Business - Tea leaves picking - Bamboo craft - Forestation | Lecture on Small Business venture | |
| 11:30 12:20 | Lecture 1 (Okada) | Lecture 6 (Sugiyama) | Lecture 11 (Yabutani) | | | Closing Ceremony (11:20- 11:30) | |
| 13:30 14:20 | Lecture 2 (Hashimoto) | Lecture 7 (Moriga) | Laboratory visit I | | | | |
| 14:30 15:20 | Lecture 3 (Yonekura) | Lecture 8 (Ute) | Laboratory visit II | | | | <i>Awa Dance Practice</i> |
| 15:30 16:20 | Lecture 4 (Deguchi) | Lecture 9 (Yasuzawa) | Laboratory visit III | | | | |
| | | | Intercultural Party (18:30- 20:30) | | | | |

Common Lecture 1= Center for International Cooperation in Engineering Education

Common Lecture 3= Faculty of Art and Integrated Science

Common Lecture 2= Faculty of Medicine

Common Lecture 4= International Center

Titles :

1. Dr. Okada : Electron backscatter diffraction (EBSD)
2. Dr. Hashimoto: Optical properties of plasmonic gold nanoparticles
3. Dr. Yonekura : Surface Analysis and Characterization Methods
4. Dr. Deguchi : Industrial applications of laser diagnostics
5. Dr. Kim : Composite Materials and Its Application
6. Dr. Sugiyama : Introduction to metallic solid-catalysts and the application to the production of the precursor of MMA
7. Dr. Moriga : Cation substitution effects on luminescent property in the oxynitride phosphor for white LEDs
8. Dr. Ute : Polymers in Daily Life
9. Dr. Yasuzawa : Preparation of Functional Surface
10. Dr. Nakagaito : From ordinary paper to cellulose-based bionanocomposites
11. Dr. Yabutani : Basics of inductively coupled plasma spectroscopy (ICP-MS and ICP-OES)

Common Activities

- (i) Opening Ceremony
- (ii) Common Lectures
- (iii) Intercultural meeting
- (iv) Field trip, Internship and Orientation
- (v) Closing ceremony

Summer School: Electrical Engineering and Information Science Course

Place: Seminar Hall (Alumni Building, 1st Floor)

| Day/ Time | Monday August 5 | Tuesday August 6 | Wednesday August 7 | Thursday August 8 | Friday August 9 | Saturday August 10 | Sunday August 11 |
|----------------|-------------------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|
| 9:30 10:20 | <i>Opening ceremony & Common Lecture 1</i> (Koinkar) | <i>Common lecture 3</i> (Zaki) | <i>Common lecture 4</i> (Sakata) | <i>Field trip</i> (8:00 to17:30) | <i>Internship and Field trip</i> (8:00 to17:00) | <i>Orientation</i> (8:40 to11:20) | <i>Free time for Japanese Cultural Experience</i> |
| 10:30 11:20 | <i>Common Lecture 2</i> (Nakamura) | Lecture 5 (Ao) | Lecture 8 (Mitsuhara) | - Lecture on Giant trees and Forestation - Nature and Cultural experience in Kamikatsu town | - Internship on Irodori Leaf Business - Tea leaves picking - Bamboo craft - Forestation | Lecture on Small Business | |
| 11:30 12:20 | Lecture 1 (Yasuno) | Lecture 6 (Ao) | Lecture 9 (Ueta) | | | <i>Closing Ceremony</i> (11:20- 11:30) | |
| 13:30 14:20 | Lecture 2 (Yasuno) | Lecture 7 (Karungaru) | Lecture 10 (Uwate) | | | | |
| 14:30 15:20 | Lecture 3 (Tomita) | <i>Laboratory visit I</i> (Karungaru) | Lecture 11 (Nishio) | | | | <i>Awa Dance Practice</i> |
| 15:30 16:20 | Lecture 4 (Ogata) | <i>Laboratory visit II</i> (Yasuno) | <i>Laboratory visit III</i> (Matsuura) | | | | |
| | | | <i>Intercultural Party</i> (18:30- 20:30) | | | | |

Common Lecture 1= Center for International Cooperation in Engineering Education

Common Lecture 3= Faculty of Art and Integrated Science

Common Lecture 2= Faculty of Medicine

Common Lecture 4= International Center

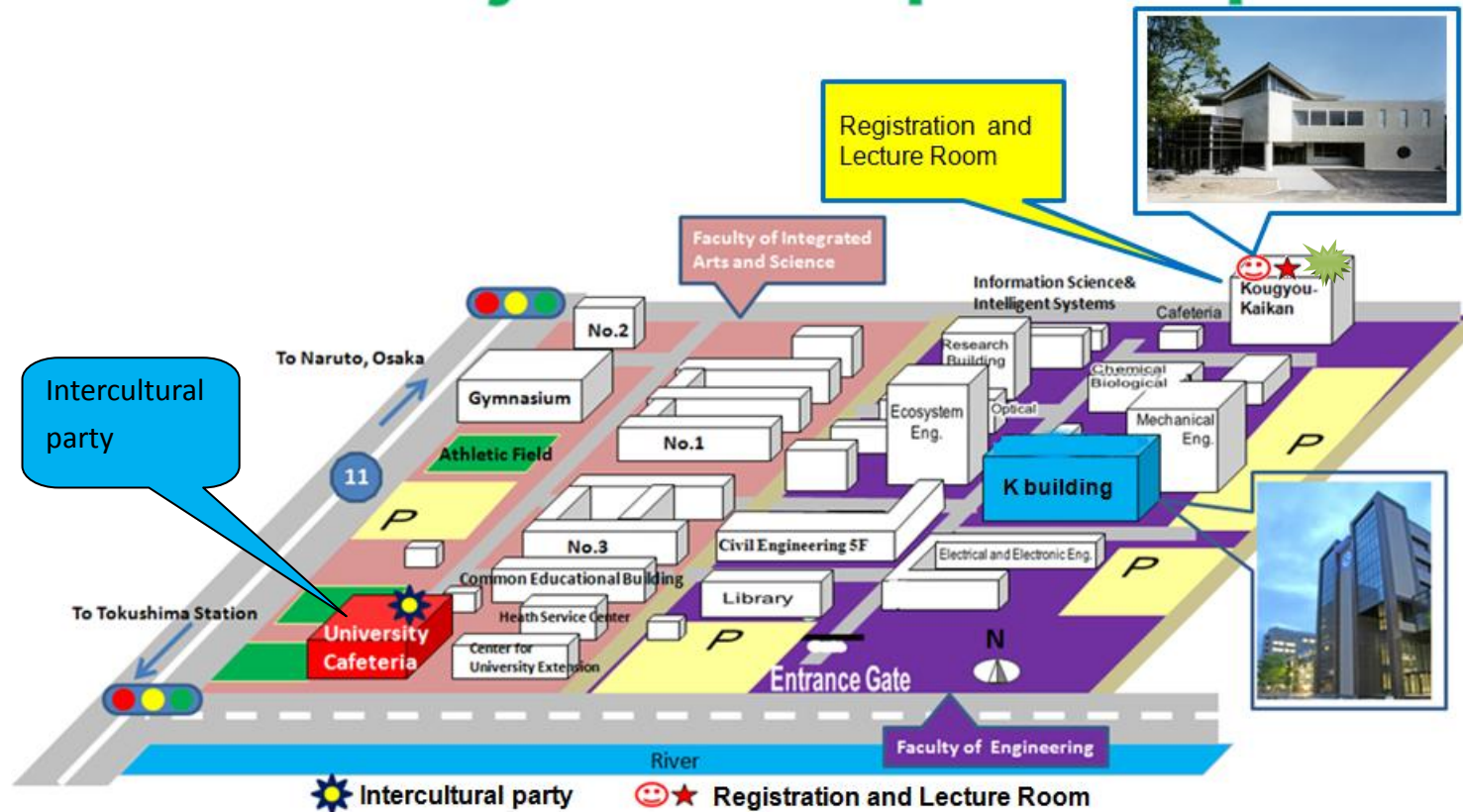
Titles :

1. Dr. Yasuno : Intelligent Systems and Control
2. Dr. Yasuno : Intelligent Systems and Control
3. Dr. Tomita : Optical processes in semiconductors and its application
4. Dr. Ogata : Collaboration, Ubiquitous and Social Technologies
5. Dr. Ao : Introduction of Semiconductor Devices
6. Dr. Ao. : Introduction of Semiconductor Devices
7. Dr. Karungaru : Introduction to Biometrics
8. Dr. Mitsuhashi : Game-based Learning Systems
9. Dr. Ueta : Oscillation conditions of feedback circuits
10. Dr. Uwate : Chaos in brain: relationship between chaos and computation
11. Dr. Nishio : Periodic pattern formation by cellular neural networks

Common Activities

- (i)** Opening Ceremony
- (ii)** Common Lectures
- (iii)** Intercultural meeting
- (iv)** Field trip, Internship and Orientation
- (v)** Closing ceremony

Josanjima Campus Map



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



Closing Ceremony : Mountain school, Kamikatsu town.



Nanotechnology and Materials Science Course: Memorial Hall, Second Floor, Alumni Building, Josanjima campus.



Electric Engineering Information Science Course: Seminar Room, First Floor, Alumni Building, Josanjima campus.