

# FTTP2018

## The 2<sup>nd</sup> Foreign Technical Training Programme at YNU for Anna University and Government Engineering Colleges of Tamil Nadu

June 17 – July 3, 2018, Yokohama, Japan



**YNU** 横浜国立大学  
YOKOHAMA National University



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## Emergency Contact

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## Preface

Welcome to Yokohama National University!

In 2017 the honorable chief minister of Tamil Nadu had announced under Rule 110 in connection with Foreign Technical Training Programme (FTTP) for 100 students (50 students of Anna University accompanying with staff and 50 students from Government Engineering Colleges of Tamil Nadu accompanying with staff) at an estimated expenditure of Rs. 150 Lakhs every year. The top scorer of each core branches in Anna University and Government Engineering Colleges of Tamil Nadu are eligible to participate in FTTP. Last year 15 students selected from Electronics & Communication Engineering and 9 students selected from the faculty of Technology attended the 1<sup>st</sup> FTTP at Yokohama National University (YNU). It was a great honor for us.

This year we are very happy to hear the request of the 2<sup>nd</sup> FTTP at YNU. It also means the success of the 1<sup>st</sup> FTTP at YNU last year. The program of the 2<sup>nd</sup> FTTP at YNU offers research lectures, special lectures, students exchange poster session, open laboratory session, and industrial visits and cultural excursions. The opportunities of lecture by Indians active in Japan are also offered. We are improving these activities by reflecting the voices from the participants of the 1<sup>st</sup> FTTP.

We hope you will enjoy the 2nd FTTP and communicate with new friends from YNU. We also expect this FTTP will contribute to the further collaboration between India and Japan.

Prof. Meguru Kaminoyama  
Faculty of Engineering  
Yokohama National University  
Yokohama, Japan



*Meguru Kaminoyama*

# Lectures

**June 19, Tuesday**

## Lecture I

14:40-16:10 Lecture Hall B201 (S5-8)

Prof. Yamamoto Yasuo

"Religious Mindset of Japanese People"

<https://www.facebook.com/ynucollab/>



**June 20, Wednesday**

## Lecture II

10:00-12:00

Electrical and Electronics Engineering

Seminar Room I (Room 403), Electrical and Computer Engineering Bldg. (N6-2)

Assoc. Professor Taro Arakawa

"Introduction to Optoelectronics and Their Applications"

[http://www.arakawa-lab.ynu.ac.jp/index\\_e.html](http://www.arakawa-lab.ynu.ac.jp/index_e.html)



Chemical and Bio Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Assoc. Professor Koichi Matsuzawa

"Prospective of hydrogen energy and its application"

<http://www.cel.ynu.ac.jp/cel/>



**June 20, Wednesday**

### **Lecture III**

13:30-15:00

Electrical and Electronics Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Lecturer Shinichi Shirakawa

"Introduction to Artificial Intelligence and Machine Learning"

<http://shiralab.ynu.ac.jp/shirakawa/>



Chemical and Bio Engineering

Test Drive: Fuel Cell Vehicle MIRAI

Professor Koichi Nishino



15:00-16:30

Electrical and Electronics Engineering

Test Drive: Fuel Cell Vehicle MIRAI

Professor Koichi Nishino

Chemical and Bio Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Assoc. Professor Takashi Ubukata

"Organic photochromism and its application to mechanical motion"

<http://www.ubukata-lab.ynu.ac.jp/>

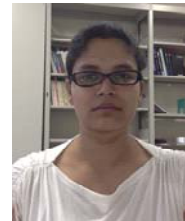


**June 21, Thursday**

## **Lecture IV**

10:00-11:30 Room111, Chemical & Safety Engineering Bldg.(N8-5)

Dr. Swastibrata Bhattacharyya (Postdoctoral Researcher)  
"First principles calculations to study properties of materials"  
<http://www.ohno.ynu.ac.jp/member/index.html>



Mr. Mahesh Kodoth (Doctor course student)  
"Career development and Technical Process Safety"  
<http://www.smms.ynu.ac.jp/>

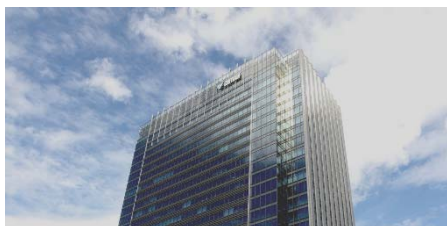


Mr. Lohit Krishna Pranav Puligadda (Master's student)  
"Presentation title: Constitutive soil modeling of 3-phase system in unsaturated soils"  
<http://www.cvg.ynu.ac.jp/G3/MamoruKikumoto/index.html>



Mr.Kulin Budhbatti Sureshchandra (Chiyoda Corp.)

<https://www.chiyoda-corp.com/en>



**June 21, Thursday**

## **Lecture V**

13:00-14:30

Electrical and Electronics Engineering

Global Studio (Room 102), Engineering Science Tower (S5-6)

Professor Yasutaka Fujimoto

"Introduction to Mechatronics

- Design, Modeling, and Control of Electro-mechanical Systems -"

<http://www.fujilab.dnj.ynu.ac.jp/index-e.html>



Chemical and Bio Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Assoc. Professor Atsushi Suzuki

"Study of Mammalian Germ Cell Development using Mouse"

[http://er-web.jmk.ynu.ac.jp/html/ATSUSHI\\_Suzuki/ja.html](http://er-web.jmk.ynu.ac.jp/html/ATSUSHI_Suzuki/ja.html)



## **Special Lecture**

15:00-16:00

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Dr. Suda Aruna Rohra

"Your career, India's future and Japan"

In the coming decades, India needs to make the transition from a developing to a developed nation. YOU are our team which will be making this happen, and if there is any ONE country which can help us achieve that - it is JAPAN.

About Dr. Aruna Rohra Suda

Founder and CEO of Saora Inc, a software company founded 1999, in Yokohama.

Currently also serving as guest faculty of Nagaoka University of Technology.

Prior to that, worked for Canon Inc at their R&D Headquarters in Tokyo,

being their first foreign employee to be recruited from abroad, in 1984.

PhD in Physics from Indian Institute of Technology, Delhi.



**June 27, Wednesday**

## **Lecture VI**

10:00-12:00

Electrical and Electronics Engineering

Seminar Room I (Room 403), Electrical and Computer Engineering Bldg. (N6-2)

Professor Ryuji Kohno

"Dependable Wireless Body Area Network (BAN), Cloud and AI Data Mining Repository for Medical Healthcare Big Data - Joint Research, Development, Standard, Regulation and Business -"

<http://www.kohnolab.dnj.ynu.ac.jp/index-e.html>



Chemical and Bio Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Professor Kunito Okuyama

"Topics of heat transfer with liquid-vapor phase-change phenomena"

<http://www.okuyamalab.ynu.ac.jp/index.html>



## **Lecture VII**

13:30-15:30

Electrical and Electronics Engineering

Seminar Room II (Room 402), Electrical and Computer Engineering Bldg. (N6-2)

Professor Yasushi Takemura

"Magnetics for Energy Harvesting and Biomedical Applications"

<http://www.takemura.ynu.ac.jp/english.html>



Chemical and Bio Engineering

Room111, Chemical & Safety Engineering Bldg.(N8-5)

Professor Minoru Takeda

"Microtube-forming polymers of bacterial origin"

[http://www.bio.ynu.ac.jp/lab/biosystem\\_lab](http://www.bio.ynu.ac.jp/lab/biosystem_lab)





June 27, Wednesday

16 : 00-16 : 30 Visit experimental facilities of Ocean Engineering

Towing Tank(100m)

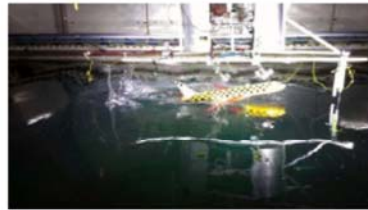
(Mr.Nambu)

CWC (Circulating Water Channel)

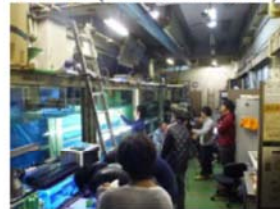
(Associate Professor Yohei Takagi)

## Experimental Facilities

Towing Tank(100m):  
Large Ship Models(2-3m), Resistance Test, Ship  
Motion in Waves, Flying Boats



Glass Tank:  
Floating Offshore  
Wind (Small Model)

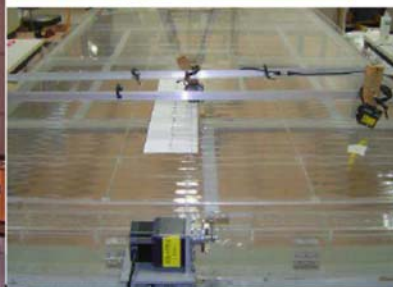


Circulating Water Channel:  
Ship Resistance, Water Flow around  
Hydrofoil, etc



Fatigue Test  
Machine:  
Cyclic Loading

Tensile  
Test  
Machine:  
Strength



Small Flat Water  
Tank:  
Mega Float, Offshore  
Windfarm,  
Measurement of  
Motion (Wave)

# Student Exchange Poster Session

June 29, Friday

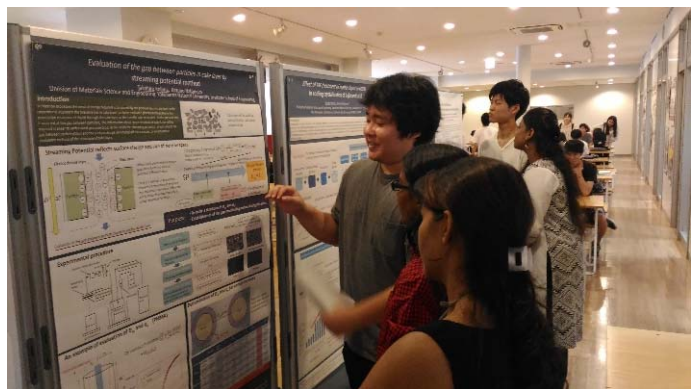
## Student Exchange Poster Session

Central Library 1F, Information Lounge

9:30 Poster setting

10:00-11:15 Student Exchange Poster Session

Coordinator: Associate Professor Kenji Aramaki



# Industrial Visits and Cultural Excursions

June 19, Tuesday

## Destinations

**Minato Mirai and Kannai Area (New and historical area)**

<http://www.yokohamajapan.com/>



## Schedule

9:00 MISD, YRA

9:50 Sakuragi-Cyo Station

10:00-11:30 Minato Mirai area – Akarenga – Yamashita Park, India Fountain

11:30- Lunch

13:30 YNU

## Attendants

Associate Professor Kazuho Nakamura

**June 22, Friday**

**Destinations**

**CoorsTek KK**

[http://www.coorstek.co.jp/eng\\_index.html](http://www.coorstek.co.jp/eng_index.html)



**Schedule**

- 9:00 MISD, YRA
- 10:00 Yokohama Station (Sotetsu Line)
- 10:45 Ebina Station
- 11:00 Lunc
- 11:55 Ebina Station – Hadano Station (Odakyu Line)
- 12:30 Hadano Station – CoorsTek (Local bus)
- 13:00 CoorsTek
- 16:00 CoorsTek – Hadano Station (Local Bus)
- 16:30 Hadano Station – Ebina Station (Odakyu Line)
- 17:00 Ebina Station – Yokohama Station (Sotetsu Line)

**Attendants**

Associate Professor Motoyuki Iijima

**June 24, Sunday**

**Destinations**

**Kamakura**

<https://www.city.kamakura.kanagawa.jp/visitkamakura/en/index.html>



**Schedule**

9:00 MISD, YRA  
9:30 Yokohama Station  
10:30 Kamakura Station (JR Yokosuka line)  
Kamakura, Enoshima (Enoden)  
Ofuna (Shonan Monorail)  
17:30 Yokohama Station



**Attendants**

Professor Koichi Nishino

June 25, Monday

**Destinations**

**KAO Odawara Plant (Kao Cosmetic Products Odawara)**

(<http://www.kao.com/global/en/>)

5-3-28 Kotobukicho, Odawara, Kanagawa Prefecture 250-0002



**Owakudani (Fuji-Hakone-Izu National Park)**

(<https://www.hakone.or.jp/en/>)



**Research Institute of Salt and Sea Water Science, The salt Industry Center of Japan**

(<http://www.shiojigyo.com/english/institute/>)

4-13-20, Sakawa, Odawara, Kanagawa 256-0816 JAPAN



**Schedule**

7:30	Pick up by a chartered bus at MISD, YRA
10:00-11:30	KAO Odawara Plant
12:30-14:00	Owakudani (Lunch)
15:00-16:30	Research Institute of Salt and Sea Water Science
18:00	Yokohama

**Attendant**

Associate Professor Kazuho Nakamura

**June 26, Tuesday**

**Destinations**

**\*\*\*Special Event\*\*\***

**Visit to the Embassy of India, Tokyo, 2-2-11 Kudan-Minami, Chiyoda-ku, Tokyo 102-0074**



**Walking around Tokyo Imperial Palace**



**Schedule**

- 8:30 MISD, YRA
- 11:00-12:00 The Embassy of India, Tokyo
- 12:45 Lunch
- 14:30 Walking around Tokyo Imperial Palace
- 15:30 Shinkansen from Tokyo to Yokohama



**Attendant**

Professor Atsuhi Suzuki

June 28, Thursday

**Destinations**

**Sankeien Garden**



**JAMSTEC(Japan Agency for Marine-Earth Science and Technology)**

Yokohama Institute for Earth Sciences

<http://www.jamstec.go.jp/e/>



**Schedule**

8:15	MISD, YRA
9:30	Yokohama Station
10:00-11:30	Sankeien Garden
12:00	Negishi Station (JR Negishi Line)
12:30	JR Shin-Sugita Station (JR Negishi Line)
13:00-15:30	Lunch
	JAMSTEC Yokohama Institute for Earth Sciences
	Lecture of Dr. Swadhin K. Behera
16:00-17:00	Negishi Station - Yokohama Station

**Attendants**

Professor Atsushi Suzuki  
Professor Hideaki Yoshitake



# How to reach YNU from Yokohama Station

By Train

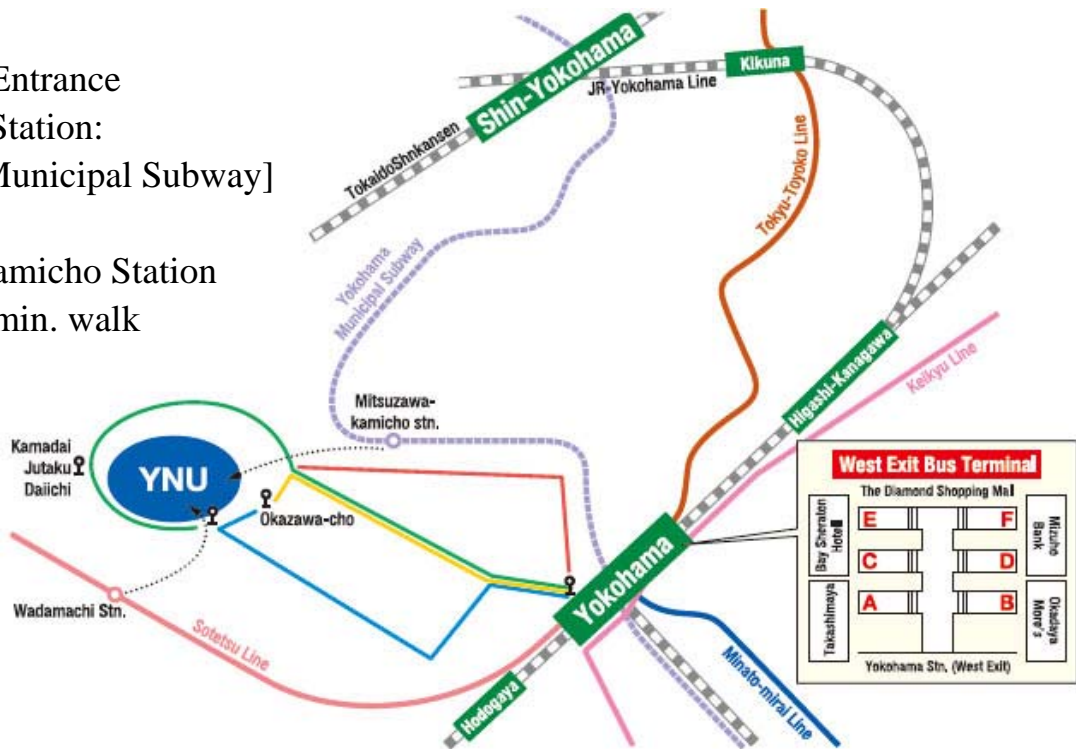
To the Main Entrance

The Nearest Station:

[Yokohama Municipal Subway]

Mitsuzawa-kamicho Station

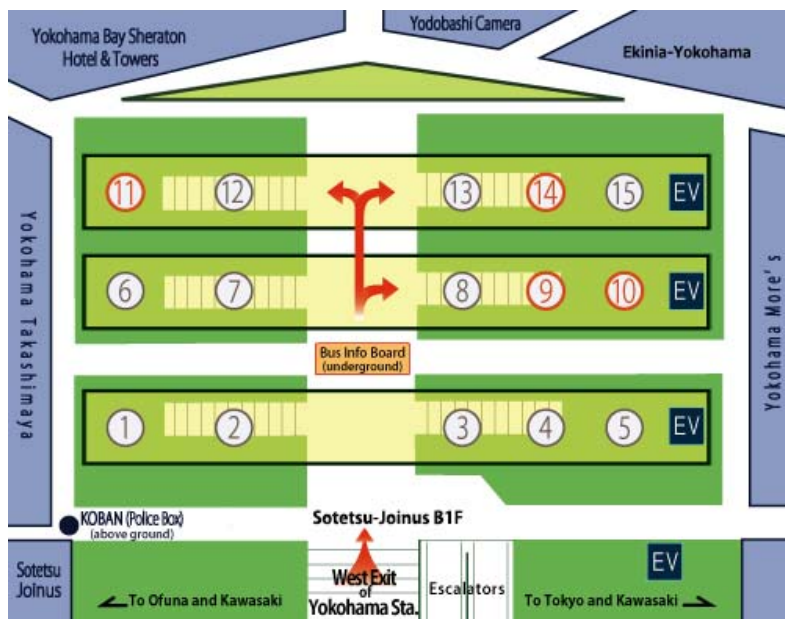
About a 16 min. walk



By Bus / Taxi

(The West Exit of Yokohama Station) .

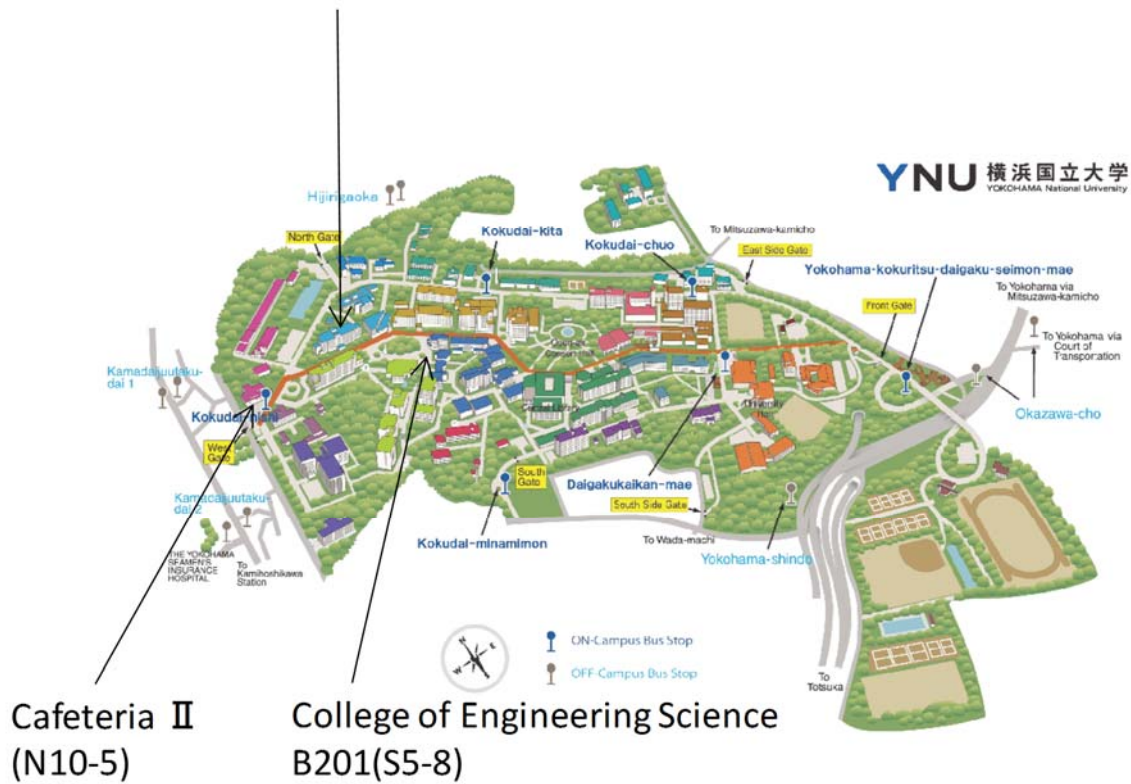
It takes 15-20 minutes from the bus terminal at the West Exit of Yokohama Station to YNU



<http://www.ynu.ac.jp/english/access/index.html>

# Campus Map

Chemical and Safety Eng. Build.(N8-5)



[http://www.ynu.ac.jp/english/access/map\\_campus.html](http://www.ynu.ac.jp/english/access/map_campus.html)



# YNU Minesawa International Student Dormitory(MISD)

(accommodation for male students)

305-1 Minesawacyo Hodogaya-ku, Yokohama, 240-0061

<https://goo.gl/maps/cd7D7Dzr6AS2>



Chemical and Safety  
Eng. Build.(N8-5)



Minesawa  
dormitory

Gate to Campus



# Yokohama Rental Apartments(YRA), No.2 Kannai Apartment

(accommodation for female students and faculty members)

2-5 Fujimiicho Naka-ku Yokohama

<http://www.yokohama-apartment.com/2-kannai-apartment>

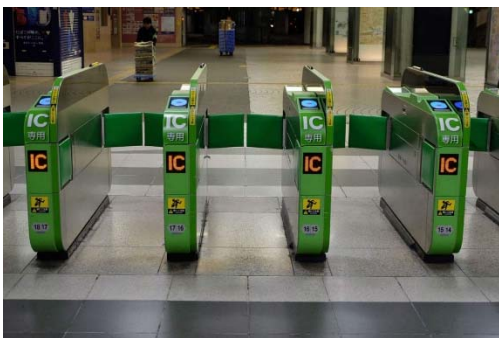




<https://matcha-jp.com/en/1349>

### What You Should Know About Japanese Trains (How to Take Trains)

- ① Ticket Purchasing . . . . . You have PASMO card.
- ② Passing Through the Ticket Gate



<https://matcha-jp.com/en/1350>

### What You Should Know About Japanese Trains (Etiquette)

#### Getting on the train

- ① Line up at platform
- ② Line up on either side of the door and wait till passengers exit before boarding.



## Appendix

For your free activity on holidays, please refer these web sites.

YOKOHAMA Official Visitor's Guide

<http://www.yokohamajapan.com/>



GO TOKYO Official Tokyo Travel Guide

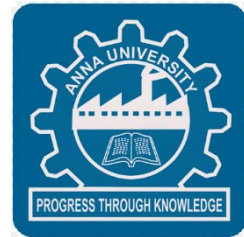
<https://www.gotokyo.org/en/index.html>



Official Visitor Guide VIST KAMAKURA

<https://www.city.kamakura.kanagawa.jp/visitkamakura/en/index.html>





## Yokohama, Japan 2018

