

# 2015 Summer School Program at Istanbul Technical University

June 29 - July 10  
2015

Organized by Nagoya University, Japan  
Real-World Data Circulation Leaders Program  
and Istanbul Technical University

Supported by Green Mobility Collaborative Research Center



## ADVANCED TECHNOLOGY IN AUTOMOBILE ENGINEERING

### JAPAN & TURKEY CULTURAL EXCHANGE LECTURES

The lectures will be taught by Turkish / Japanese professors in addition to some lecturers from the automotive industry. The cultural exchange lectures will be organized by both ITU / NU sides including students from Turkey, Japan, and several other countries.

#### LECTURE TOPICS

- Car Industry Related Topics, Trend, Circumstances
- Energy Saving Technology for Automobiles
- Drivers Behavior and Intelligent Transportation Systems
- Autonomous Car and Automotive Systems
- Car Material, Body Structure, Sensors and Designs
- Car Crash Safety and Designs
- Car, Road, and Transportation Engineering
- + Car Producer Factory Visit

#### CULTURAL EXCHANGE TOPICS

- Origami (Japanese Paper-folding Art)
- Shodo (Japanese Calligraphy)
- Gender difference
- Japanese & Chinese housing

- ✓ Education fee: Free
- ✓ Language: English
- ✓ Application Requirement:  
Under graduate or graduate students of ITU
- ✓ Place: ITU, Maslak Campus (Istanbul, Turkey)

**Application Deadline: June 17, 2015**

Contact: [application\\_ss2015@rwdc.is.nagoya-u.ac.jp](mailto:application_ss2015@rwdc.is.nagoya-u.ac.jp)

URL: <http://www.rwdc.is.nagoya-u.ac.jp/>

[http://www.rwdc.is.nagoya-u.ac.jp/eng/ss2015\\_rwdc.pdf](http://www.rwdc.is.nagoya-u.ac.jp/eng/ss2015_rwdc.pdf)



NAGOYA UNIVERSITY

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GRADUATE PROGRAM FOR  
REAL-WORLD DATA CIRCULATION LEADERS  
PROGRAM FOR LEADING GRADUATE SCHOOLS  
NAGOYA UNIVERSITY



**Nagoya University, RWDC Summer School Program in Istanbul Technical University, Turkey**  
**(29 June 2015 to 10 July 2015)**

Date	Day	AM 1 (8:30-10:00)	AM2 (10:15-11:45)	PM1 (13:15-14:45)	PM2 (15:00-16:30)	
2015/6/28	Sun	Arrival in Istanbul / Move to Dormitory				
2015/6/29	Mon	Orientation & Campus life tour + Prof. Ata Mugan welcome speech (ITU) + Prof. Yukiko Ishida's Talk (NU) (9:00~12:00)		(Prof. Reiko Furuya and RWDC students) (NU) Culture– Origami	(Prof. Reiko Furuya and RWDC students) (NU) Culture– Japanese Kanji	
2015/6/30	Tue	(Dr. Hiroshi Yamauchi) (Mitsubishi Motors) The Car Industry, Market Trend, Circumstance and Its Future	(Assoc. Prof. Pinar Boyraz) (ITU) Active Vehicle Safety- Case Studies	(Prof. Toru Ujihara) (NU) Car Materials and Processing	(Prof. Reiko Furuya and RWDC students) (NU) Culture – Gender difference	
2015/7/1	Wed	(Lecturer, Dr. Levent Kirkayak) (ITU) Design for Crash Safety	(Dr. Tatsuo Teratani) (ex – Toyota Motor) Energy Saving Technology for Automobiles	(Prof. Tetsunori Haraguchi)(NU) Industry-Related Topics	(Prof. Reiko Furuya and RWDC students) (NU) Culture – Japanese and Chinese housing	
2015/7/2	Thu	(Lecturer, Dr. Volkan Sezer) (ITU) Decision Making for Autonomous Vehicles Under Uncertainty	(Prof. Takayuki Morikawa) (NU) Cars and Roads in Urban Transportation Context	(Assist. Prof. Atakan Altinkaynak) (ITU) Shape-morphing polymers and structural design for active safety	(Assoc. Prof. Pinar Boyraz) (ITU) Culture - Concert of Sight-seeing	
2015/7/3	Fri	Factory Visit (Toyota Motor Factory near Istanbul)				
2015/7/4	Sat	Cultural Tour of Istanbul				
2015/7/5	Sun					
2015/7/6	Mon	(Lecturer, Dr. Merve Acer) (ITU) Silicon polymer based piezo-electric sensors and their applications in the vehicle	(Prof. Kazuya Takeda) (NU) Observation and Evaluation of Drivers' Behavior Perspective	(Prof. Yoshiki Ninomiya) (NU) ITS – Intelligent Transportation Systems	(Assoc. Prof. Pinar Boyraz) (ITU) Culture - Concert of Sight-seeing	
2015/7/7	Tue	(Prof. Koji Mizuno) (NU) Crash Safety	(Assoc. Prof. Shinpei Kato) (NU) Autonomous Car	(Prof. Tatsuya Suzuki) (NU) Safety Engineering for the Prevention of Accidents	(Assoc. Prof. Shinpei Kato) (NU) Automotive Embedded Computing Systems	
2015/7/8	Wed	(Prof. Ata Mugan) (ITU) Design of Automotive Body Structures	(Prof. Hideki Nakamura) (NU) Traffic Flow Characteristics	Campus technical tour: Tour of Departments related to each student major		
2015/7/9	Thu	Group Discussion (on selected topics studied during the summer school)			Group Presentations and Debate	
2015/7/10	Fri	Closing Ceremony + Prof. Kazuya Takeda's Talk + Prof. Ata Mugan Closing speech (ITU)			Departure from Istanbul	
2015/7/11	Sat	Arrival in Nagoya				

## **Application Procedure**

Nagoya University, RWDC Summer School Program in  
Istanbul Technical University, Turkey (29 June 2015 - 10 July 2015)

An Applicant for this summer school **shall send an email to**  
[application\\_ss2015@rwdc.is.nagoya-u.ac.jp](mailto:application_ss2015@rwdc.is.nagoya-u.ac.jp) with following information.

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First Name:

Middle Name:

Family Name:

Date of Birth:

Gender:

Department or Faculty:

University Name:

University Address:

Student ID:

Currently Enrolled Course (Bachelor, Master, or PhD):

Email:

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