



日本・アジア青少年サイエンス交流事業  
さくらサイエンスプラン  
Japan-Asia Youth Exchange Program in Science



# International GNSS Summer School 2023



- *Period : 2023/08/28- 09/02*
- *Venue : Tokyo University of Marine Science and Technology (TUMSAT)*
- *Organized by Faculty of Marine Technology, TUMSAT*
- *Co-organized by Institute of Positioning, Navigation and Timing of Japan (IPNTJ)*
- *Sponsored by Japan Science and Technology Agency (JST)*

# Map of Central Tokyo

*Tokyo Station*



**Etchujima Campus  
Faculty of Marine  
Technology**

**Shinagawa  
Campus  
Faculty of  
Marine Science**

# *Etchujima Campus (School of Marine Technology)*



# Outline of International Summer School in Tokyo

- Date : 2023/08/28-09/02
- Organized by : Tokyo University of Marine Science and Technology (TUMSAT), Japan
- Co-Organized by : The Institute of Positioning, Navigation and Timing of Japan
- Attendees : Japanese and foreign students of postgraduate & young engineers and instructors who are teaching GNSS in their own countries.
- Requested to bring their own notebook computer.
- Number of participants : 40
- Language : English
- Fee : 60,000JPY, (20,000JPY for students).
- Supported by : MGA(Multi-GNSS Asia), GESTISS (Geospatial and Space Technology Consortium for Innovative Social Service), QZSS Services
- Sponsored by JST

# Call for Application for 2023

- Eligible Candidates
  - Beginners with master level (Preferable who Specialized in Electronics or Information & Communication Technologies)
  - Young instructors who are in charge of teaching GNSS in their own countries.
- Call for Scholarship\* Application by **April 20**.
- \* (Round Trip Ticket + Accommodations + Fee) about 10 participants mainly from the developing countries.
- Acceptance Notification for Scholarship by Early June.
- Call for Application until 40 Participants.
- Contact: Prof. Akio Yasuda at Tokyo University of Marine Science and Technology, [yasuda@kaiyodai.ac.jp](mailto:yasuda@kaiyodai.ac.jp)
- Attendees are requested to bring their own notebook computer.

# Application for 2023

Please prepare the following items, even though you don't apply the scholarship. The scholarship includes round trip ticket, 7-night accommodation, 6-day lunch and the fee. Please submit the following items **by April 20**, when you apply the scholarship.

- 1. CV
- 2. Certification of the graduation. (for your all career)\*
- 3. Transcript with student's records. (for your all career)\*
- 4. Certification for English ability (Score of TOEFL, IELTS or TOEIC)\*
- 5. Recommendations by two responsible persons\*
- 6. Your Institute's data (Responsible person etc.)

#5 & #6 are waived, if you don't apply the scholarship.

\*Please submit the scanned original documents by e-mail to [yasuda@kaiyodai.ac.jp](mailto:yasuda@kaiyodai.ac.jp) for the selection and bring the originals if accepted.

**Please do not pay the fee** until the application is accepted even if you will attend by your own budget.

Fill the registration form at <https://fs221.xbit.jp/a424/form2/>

The result will be informed to the applicants by e-mail by April 20.



QZSS Services



# Time Table in 2023



	28-Aug Monday	29-Aug Tuesday	30-Aug Wednesday	31-Aug Thursday	1-Sep Friday	2-Sep Saturday
0830-1000	Introduction	Class B-1	Class C-1	Class B-5	Class C-4 SDR I	QZSS EWS****
1000-1010	Break	Break	Break	Break	Break	Break
1010-1140	Class A-1	Class B-2	Class C-2	Class B-6	Class C-5 SDR II	GNSS Signal Authentication****
1140-1230	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
1230-1400	Class A-2	Class B-3	Class C-3	Port Cruise G-I	SDR Practice	Low-Cost Receiver Systems****
				RTK-LIB Practice G-II		
1400-1410	Break	Break	Break	Break	Break	Break
1410-1540	Class A-3	Class B-4	Special Lec- II **	Port Cruise G-II	Practice for System Design SD-workshop	Pariticipants Workshop
				RTK-LIB Practice G-I		
1540-1550	Break	Break	Break	Break		Break
1550-1720	Class A-4	Special Lec- I *	GNSS Receiver ***	RTK-LIB Practice		Closing
1730-	Welcome Party	1 class=90 minutes			Farewell party	
Instructors	Introduction	Dr. Akio Yasuda			System Design by Dr. Naohiko Kohtake	
	Class-A Fundamentals	A-1,2,3,4 Dr. Ivan G. Petrovski				
	Class-B Software	B-1,2,3,4 Dr. Tohru Takahashi			*QZSS Present Status and Future by Ms. Yoko Sakai	
		B-5,6 RTK-LIB Practice, Dr. Nobuaki Kubo			** GPS/GNSS Meteorology by Dr. Yoshinori Shoji	
	Class-C Receiver	C1,2,3 Dr. Toshiaki Tsujii			***by Ms. Masae Inoue, Septentrio.com	
		C4, C5, SDR-Practice, Dr. Taro Suzuki			****by Dr. Dinesh Manandhar	



# Time Table in 2019



	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0830-1000	Introduction	Class B-1	Class C-1	Class B-5	Practice for System Design, followed by SD-workshop	GNSS Signal Security***
1000-1010	Break	Break	Break	Break		Break
1010-1140	Class A-1	Class B-2	Class C-2	Class B-6	Lunch 1200-1240	GNSS Authentication***
1140-1230	Lunch	Lunch	Lunch	Lunch		Lunch
1230-1400	Class A-2	Class B-3	Class C-3	RTK-LIB Practice	RTK-Demo G-I Port Cruise	GNSS Raw Measurements from Android Device***
1400-1410	Break	Break	Break	Break	Campus Tour G-II	Break
1410-1540	Class A-3	Class B-4	Class C-4	SDR Practice I	RTK-Demo G-II Port Cruise	Participants Workshop-I
1540-1550	Break	Break	Break	Break	Campus Tour G-I	Break
1550-1720	Self-Intorduction	QZSS-Intro & Demo*	Special Lec. **	SDR Practice II	Lecture and Demo	Participants Workshop-II & Closing
1730-	Welcome Party	1 class=90 minutes			Farewell party	
 	Instructors	Introduction	Dr. Akio Yasuda		System Design	***by Dr. Dinesh Manandha
		Class-A	Dr. Nobuaki Kubo		Dr. Naohiko Kohtake	
		Fundamentals	Dr. Ivan G. Petrovski A-1,2,3			
		Class-B	Dr. Takeyasu Sakai, B-1,2,3,4		* by QZSS Group	
		Software	Mr. Tomoji Takasu B-5,6,Practice			
		Class-C Receiver	Dr. Toshiaki Tsujii, C1,2,3 Dr. Taro Suzuki, C4, SDR-Practice		**Status of CORS in Japan	