

# Japan Seminar of Technology for Sustainability 2023

(JSTS 2023)

## Application Guidelines (For overseas students)

### Theme for JSTS 2023

### **Designing the Future of Humankind and our Coexistence with Nature**

Sustainable Development Goals (SDGs) are goals for the international community as whole, adopted at a UN Summit in September 2015. The global objective we all share is to realize a sustainable society that leaves no one behind. International goals have been established in 17 fields—including poverty, education, energy, climate change, and industry—to be achieved by 2030.

The purpose of JSTS 2023 is for participants to acquire capabilities needed as global leaders for leading Society 5.0. More specifically, the aim is to improve the following capabilities and skills:

- 1) The ability to lead a problem-solving effort by a team
- 2) The ability to create new value by combining interactive AI (ChatGPT etc.) knowledge and technology
- 3) The ability to understand things in a multifaceted way, and to bring latent social problems to the surface
- 4) The mindset and ability to be active globally

#### **What is JSTS?**

The Japan Seminar on Technology for Sustainability (JSTS) is a seminar primarily for students. It concerns science and technology, and is organized by the National Institute of Technology ("the institute") for colleges of technology, universities of science and technology, and overseas universities. It has been held in Japan since the 2016 academic year with the aim not only of imparting knowledge through workshops based on the 17 SDGs, but also—through various cultural and language exchange activities—of improving global communication abilities essential for today's globalized era and facilitation abilities for collaboration in diverse groups.\*

Originally, JSTS was first held in academic year 2016 (AY2016) prior to the International Seminar on Technology for Sustainability (ISTS)—an event which has been held overseas since academic year 2011 by the institute and overseas institutions with comprehensive agreements for academic exchange. The objectives of JSTS were things like improving the facilitation abilities of the students who play the central role in the ISTS. However, due to the COVID-19 pandemic, ISTS was canceled from academic year 2020 (AY2020), and thus since AY2021, ISTS has been held in the format of inviting students from overseas to JSTS.

This seminar is planned and operated\* primarily by students through the Japanese Student Organizing Committee (JSOC), which is composed mainly of college of technology students. This helps to strengthen the English communication abilities, problem-solving abilities, and other abilities of students.

\* The event was canceled in AY2020 due to the effects of the COVID-19 pandemic. In AY2021, the event was held with online participation by overseas students. Acceptance of on-site participation by overseas students resumed from AY2022.

## 1. Schedule

Sept. 4 (Mon.) to 8 (Fri.), 2023

Participants may choose from two formats:

### (1) Face-to-face format

- Opening and start: Sept. 4 (Mon.) 12:30 p.m. (opening), 13:00 p.m. (start)
- Finish: Sept. 8 (Fri.) 18:00 p.m.

### (2) Online format

- Connection start time on first day: 12:30 p.m. (Japan time)
- Start time on first day: 13:00 p.m. (Japan time)
- Finish time on final day: 17:30 p.m. (Japan time)

\* For details, see the attached "JSTS 2023 Time Schedule." (page 4)

## 2. Format

### (1) Face-to-face format

Centerrace TENMONKAN

1-1 Sennichi-cho Kagoshima-city, 892-0843

TEL: +81-99-221-0086

Website: <https://centerrace.com/>

### (2) Online format

Zoom/Slack

\*Online participation in the on-site excursion via Zoom/Slack is not available.

Online participants can participate in all parts of the schedule other than the on-site excursion.

## 3. Language used

English

## 4. Qualifications to apply

- Must be able to participate in the entire schedule.
- Must consent to use of image/publicity rights
- Must be 18 or older at the time of application.

## 5. Number of slots available

College of technology students and university students (students from Japan): 40

Students from overseas: 30

\*If capacity is exceeded, applicants will be screened, and screening results will be communicated to all applicants by July 14 (Fri.).

## 6. Participation fee

On-site participants only: ¥5,000 (fee for commemorative items and banquet)

\*Will be collected in cash on the day of the event.

Online participants: Free of charge

## 7. **How to apply to participate**

Applying from the JSTS 2023 homepage: <https://www.kagoshima-ct.ac.jp/jsts2023/>

## 8. **Deadline for applying to participate**

June 30 (Fri.), 2023

## 9. **Accommodation and transportation costs**

### (1) Accommodation costs

\* Not covered by the seminar.

• Accommodations: Should be arranged early by each participant

(The hotel where the JSTS 2023 venue is located has accommodation plans starting at about ¥10,000, but there are also many lower-cost accommodations in the area around the venue.)

• Please be aware that any cancellation fees that arise due to canceling accommodations for personal reasons must be borne by the person involved.

### (2) Transportation costs

\* Not covered by the seminar.

## 10. **Prior assignment**

Write an essay (about 250 words long) on "Examples and issues I am interested in pertaining to the theme of JSTS 2023 (Designing the Future of Humankind and our Coexistence with Nature)" and submit by entering in the form on the JSTS homepage by June 30 (Fri.).

\* Please describe an example that is as specific as possible (e.g., a case you experienced in your immediate surroundings, or an example of research done at your university).

## 11. **Other**

(1) Communications costs for participating online must be borne by each participant.

(2) The event may be changed to online only, depending on the situation of the COVID-19 pandemic.

(3) If you can no longer attend after applying to participate, please promptly notify the JSTS Steering Committee office. When canceling for anything other than unavoidable reasons, please notify the JSTS Steering Committee office at least three weeks before the event is held.

### **Contact**

National Institute of Technology, Kagoshima College

JSTS Steering Committee office

Address: 1460-1 Shinko, Hayato-cho, Kirishima-city, Kagoshima, 8995193, Japan

Tel : +81-995-42-9014 / FAX : +81-995-43-2584

Email : [istsjsts@kosen-k.go.jp](mailto:istsjsts@kosen-k.go.jp)

**JSTS2023 Time Schedule  
for Online Participants**

	Day 01	Day 02	Day 03	Day 04	Day 05	
	4th September	5th September	6th September	7th September	8th September	
10:00	/	10:00 - 10:15 Preparation	10:00 - 10:15 Preparation	10:00 - 10:15 Preparation	10:00 - 10:15 Preparation	
10:30		10:15 - 11:00 <b>Lecture#2 :</b> <b>Project management</b> Introduction of the project management process	10:15-12:15 <b>Presentation rehearsal#1</b> Presentation of the outcome from Day2 and the outlook of the problem solving	10:15 - 13:00 <b>Presentation preparation</b> Take breaks if needed	10:15 - 13:00 <b>Presentation preparation</b> Take breaks if needed	
11:00		11:00 - 11:15 Break				
11:30		11:15 - 13:00 Group Work#3 : <b>Setting goals</b> Group discussion on the goal setting				
12:00						
12:30	12 : 30 Preparation		12:15-13:00 <b>Presentation feedback</b>			
13:00	13:00 - 13:15 Opening ceremony	13:00 - 14:00 Lunch break	/	13:00 - 14:00 Lunch break	13:00 - 14:00 Lunch break	
13:15	13:15 - 13:45 Break					
14:00	13:45 - 15:00 <b>Lecture#1 : SDGs</b> Introduction to the SDGs and the theme of the seminar	14:00 - 15:30 <b>Lecture#3 : AI Utilization</b> Utilization of AI; the necessary prerequisite, data, outcome				
14:30						
15:00	15:00 - 15:15 Break					
15:30	15:15 - 16:00 Group work#1 : <b>Icebreaker</b>	15:30-15:45 Break	13:15-18:00 Excursion (on-site participants only)	14:00 - 17:00 <b>Presentation preparation</b> Final brush-up of the presentation and the materials Take breaks if needed	14:00 - 17:30 <b>Final presentation</b> Each group has 15min for the presentation and 5min to receive comments from the peer group	
16:00	16:00 - 18:00 <b>Group work#2 :</b> Group discussion on which theme to work on	15:45 - 18:00 <b>Group work#4 : Setting tasks</b> Visualization of the process and the materials to be collected and created for the completion of the presentation Take breaks if needed				
16:30						
17:00				17:00 - 18:00 <b>Presentation rehearsal#2</b> Rehearsal w/ one other group Reviews and discussions between groups		
17:30					17:30 - 18:00 Judgement · Prep of the closing	
18:00	18:00 - 18:30 <b>Leaders' meeting</b> Sharing outcomes from group work#2	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Closing ceremony</b>	

**JSTS2023 Schedule  
For On-site Participants**

	Day 01	Day 02	Day 03	Day 04	Day 05		
	4th September	5th September	6th September	7th September	8th September		
10:00	/	10:00 - 10:15 Open · Prep	10:00 - 10:15 Open · Prep	10:00 - 10:15 Open · Prep	10:00 - 10:15 Open · Prep		
10:30		10:15 - 11:00 <b>Lecture#2 :</b> <b>Project management</b> Introduction of the project management process	10:15-12:15 <b>Presentation rehearsal#1</b> Presentation of the outcome from Day2 and the outlook of the problem solving	10:15 - 13:00 <b>Presentation preparation</b> Take breaks if needed	10:15 - 13:00 <b>Presentation preparation</b> Take breaks if needed		
11:00		11:00 - 11:15 Break					
11:30		11:15 - 13:00 Group Work#3 : <b>Setting goals</b> Group discussion on the goal setting	12:15-13:00 <b>Presentation preparation</b> Brush-up of the presentation	13:00 - 14:00 Lunch break	13:00 - 14:00 Lunch break		
12:00		12 : 30 Reception					
12:30	13:00 - 13:15 Opening ceremony	13:00 - 14:00 Lunch break	/	13:00 - 14:00 Lunch break	13:00 - 14:00 Lunch break		
13:00	13:15 - 13:45 Break						
13:15	13:45 - 15:00 <b>Lecture#1 : SDGs</b> Introduction to the SDGs and the theme of the seminar	14:00 - 15:30 <b>Lecture#3 :</b> <b>AI Utilization</b> Utilization of AI; the necessary prerequisite, data, outcome	13:15-18:00 <b>Excursion</b>	14:00 - 17:00 <b>Presentation preparation</b> Final brush-up of the presentation and the materials Take breaks if needed	14:00 - 17:30 <b>Final presentation</b> Each group has 15min for the presentation and 5min to receive comments from the peer group		
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16:30							
17:00	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Leaders' meeting</b> Sharing progress status	18:00 - 18:30 <b>Closing ceremony</b>		
17:30							
18:00							