



Tokyo Tech

Department of **Transdisciplinary Science and Engineering** GSEP 2021, 3rd Year Orientation

April 7, 2021

(Updated on June 7, 2021)

GSEP Faculty

Online Bulletin

GSEP Mailing List and Group Messaging

On-campus website

<http://www.tse.ens.titech.ac.jp/en/>

“For GSEP members”

- Contact to TSE students
- Latest information on timetables
- Announcements on presentations
- Annual events



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Timetable

- Due to the spread of new coronavirus infection, the timetable may change in the future.
- We'll keep this updated as much as we can.
- Registration for Q1 and Q2 are conducted in the following schedule.

Tuesday, April 6, 2021 9:00 ~
Friday, April 23, 2021 13:00

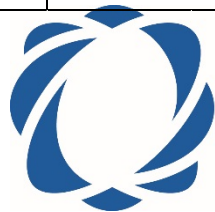


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Timetable

1st Quarter 2021 (For GSEP 3rd Year Students)		(Last updated March 26, 2021)					
Time		Mon	Tue	Wed	Thu	Fri	Intensive
8:50 9:40 10:30	1 2		Research Opportunity in Laboratories (TSE)*** TSE.Z381-02 Each laboratory (ZOOM) 2 credits			Introduction to Solid Materials MAT.M313 S8-101 (ZOOM) 1 credit (Materials Sci. & Eng. Dept course)	Japanese 9 [GSEP]** LAJ.J301-01 1 credit
10:40 11:30 12:20	3 4	Communication and network TSE.A322 S622 (ZOOM) 2 credits	(Also conducted at different time slots)		Communication and network TSE.A322 S622 (ZOOM) 2 credits	Project Management TSE.C303 S621 (face-to-face) 2 credits	
12:35 13:25 14:15	昼時間帯			Oral Expression in English 5[2] LAE.E231-02 1 credit			
14:20 15:10 16:00	5 6	Trandisciplinary Engineering Experiment A TSE.A351-02 Each laboratory (face-to-face) 1 credit	Basic theory of regional and global environment 1 TSE.A335 S622 (ZOOM) 2credits	English Speech Seminar 13[1] LAE.E471 1 credit"	Oral Expression in English 5 [1] LAE.E231-01 1 credit H. Makiko (ZOOM)	Basic theory of regional and global environment 1 TSE.A335 S622 (ZOOM) 2credits	
16:15 17:05 17:55	7 8					Special Lecture: Introduction to edX online course creation LAH.H310 W932 (ZOOM) 1 credit	



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2nd Quarter 2021 (For GSEP 3rd Year Students)

(Last updated March 26, 2021)

Time		Mon	Tue	Wed	Thu	Fri	Intensive		
8:50 9:40 10:30	1 2	Probability Theory (TSE) TSE.M301 S513 (ZOOM) 2 credits	Introduction to metallurgy of engineering materials TSE.A321 S514 (ZOOM) 1 credit		Probability Theory (TSE) TSE.M301 S513 (ZOOM) 2 credits			Japanese 9 [GSEP]*** LAJ.J301-02 1 credit	Total Wellness Exercise [B(集中)] LAW.W320-18 (Face-to-face) 1 credit
10:40 11:30 12:20	3 4				Special lecture: Introduction to online course video creation LAH.H311 S323 (other) 1 credit		International Engineering Design Experience Improving Skills (TSE) TSE.A342 (ZOOM) 2 credits	Advanced Independent Research Project S1c (TSE) TSE.Z371-02 1 credit	
12:35 13:25 14:15	昼時間帯			Oral Expression in English 6 [2] LAE.E232-02 1 credit M. Stoneburgh (ZOOM)					
14:20 15:10 16:00	5 6	Basic Nuclear Engineering 2 TSE.A338 S516 (ZOOM) 1 credit	Mechanics of Strength TSE.A302 S321 (ZOOM) 1 credit	English Speech Seminar 10 LAE.E372 W833 (ZOOM) 1 credit	Oral Expression in English 6 [1] LAE.E232-01 H113 (ZOOM) 1 credit		Basic Nuclear Engineering 1 TSE.A337 S516 (ZOOM) 1 credit		
16:15 17:05 17:55	7 8	Optics MAT.P302 W936 (ZOOM) 2 credits (Materials Sci. & Eng. Dept course)	Basic theory of regional and global environment 2 TSE.A336 S423 (ZOOM) 2 credits		Optics MAT.P302 W936 (ZOOM) 2 credits (Materials Sci. & Eng. Dept course)		Basic theory of regional and global environment 2 TSE.A336 S423 (ZOOM) 2 credits		



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Changes to the standard study program of TSE in the Academic Year 2021

- From the Academic Year 2021, the previous “Old” required courses are no longer available and will be replaced with “New” corresponding required courses as shown in the following table.
- If students with ID numbers beginning 16B, 17B, 18B, 19B or 20B take the new courses, the acquired credits will be regarded as those of their corresponding old courses.
- However, students who have already acquired the required credits from the old required courses can no longer take their corresponding new required courses.

Course Code	New		Old	
	Course Title	Credits	Course Title	Credits
TSE.A204.R	Engineering Thermodynamics	2-0-0	Chemical Reaction Engineering	2-0-0
TSE.A232.R	Engineering Measurement I	1-0-0	Engineering Measurement [TSE.A231.R]	2-0-0
TSE.A233.R	Engineering Measurement II	1-0-0		
TSE.C203.R	Transdisciplinary Design Project	0.5-0.5-0	Social Design Project	0-1-0

https://www.tse.ens.titech.ac.jp/en/wp-content/uploads/2021/03/reqs_changes20210305.pdf



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Common requirement for graduation in Tokyo Institute of Technology

- See Table 2 of “Study Guide”.
- Liberal arts course group are amended for only GSEP students. Review the requirements through the following link:

<https://www.titech.ac.jp/english/enrolled/life/resources/pdf/agreement.pdf>



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GSEP Japanese Language and Culture Courses 2021

Japanese language course orientation and first Japanese class for
1st year students

Japanese language courses for undergraduate students

100-level (1st year)

Japanese 1(1Q): Tuesday 14:20~ and Thursday 16:15~

Japanese 2(2Q), 3(3Q) and 4(4Q): Tuesday 14:20~ and Thursday 10:40~

200-level (2nd year)

Japanese 5(1Q), 6(2Q), 7(3Q) and 8(4Q) : Wednesday 14:20~

300-level (3rd year)

Japanese 9(1-4Q): see note 2

GSEP students who will take Japanese language classes may do the following procedures by **April 12th**:

- 1) Make an account on Japanese Class Online System at JCOS (will open on April 27th) (<https://cuckoo.js.ila.titech.ac.jp/~yamagen/regist-h/>)
- 2) Take an online placement test at the following site (<https://cuckoo.js.ila.titech.ac.jp/~yamagen/placement/>)
- 3) Send an email message to **Prof. M. Komatsu** (komatsu.m.ae@m.titech.ac.jp) with "GSEP 2021" as a subject, and mail body must contain your name, student ID, and Japanese language level (B3, I1 etc.) obtained after your JCOS placement test.



Measures against COVID19

Keep in close communication with your "Academic Advisors (Main/Sub)"

- Most courses in 1Q and 2Q are held by Zoom
- Project Management and TSE Experiment A are held in the classroom
- There are some courses which final exams are held in the classroom
- Check the link below for the latest information from the university:

<https://www.titech.ac.jp/english/enrolled/health/coronavirus.html>



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Academic Advisors for 3rd year

ID	Name	G	Adademic Advisor (Main)	Adademic Advisor (Sub)
19B60015	BOONCHIT PUTTARANUN	F	VARQUEZ ALVIN CHRISTOPHER GALANG	ANDREWS EDEN MARIQUIT
19B60021	CHIMPALEE PONNAPOOM	M	松本 義久 (MATSUMOTO YOSHIHISA)	CHOI SUNKYUNG
19B60038	CHINZORIG ANAND	F	阿部 直也 (ABE NAOYA)	ANDREWS EDEN MARIQUIT
19B60044	ERDENEBELEG UNUBOLD	M	VARQUEZ ALVIN CHRISTOPHER GALANG	CHOI SUNKYUNG
19B60050	JANG JAE HYO	M	因幡 和晃 (INABA KAZUAKI)	SADEGHZADEH NAZARI MEHRDAD
19B60067	LEELAWORASET WORATAT	M	松本 義久 (MATSUMOTO YOSHIHISA)	SADEGHZADEH NAZARI MEHRDAD
19B60073	PANITPOTJAMAN PUCHISS	M	阿部 直也 (ABE NAOYA)	CHOI SUNKYUNG
19B60080	SUK SO YEON	F	VARQUEZ ALVIN CHRISTOPHER GALANG	ANDREWS EDEN MARIQUIT
19B60096	TAERAKUL JANAT	M	因幡 和晃 (INABA KAZUAKI)	SADEGHZADEH NAZARI MEHRDAD
19B60104	TANGKASEMJIT SARACH	M	松本 義久 (MATSUMOTO YOSHIHISA)	CHOI SUNKYUNG
19B60110	TATSARINGKANSAKUL NATTAS	M	阿部 直也 (ABE NAOYA)	ANDREWS EDEN MARIQUIT
19B60127	TRAN HUU BINH MINH	M	VARQUEZ ALVIN CHRISTOPHER GALANG	CHOI SUNKYUNG
19B60140	YEHUDA HAMONANGAN SIDABUT	M	因幡 和晃 (INABA KAZUAKI)	SADEGHZADEH NAZARI MEHRDAD



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Research Opportunities at Laboratories

- By allowing you to experience “research” at an early stage, you will be able to explore specific interests leading to a highly specialized graduate education.
- This is a required course that must be taken before you undertake “Independent Research Project”.
- One student group **visits 4 laboratories**.
 - The department will randomly decide the 4 laboratories for the group.
 - To be implemented on Q3.
- If any of the following conditions are met, students may take them in Q1.
 - Eligible for early graduation
 - A plan to study abroad or join internship for more than a month on Q3.
 - Already in the 4th year since joining the department.



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Laboratory Admission

- Admission
 - 3rd year students of TSE can begin conducting research from **mid December** (after “Research Opportunities at Laboratories” course).
 - Joining lab earlier leads to deeper research.
 - Follow the rules of the lab supervisor.
- Requirement:
 1. Year-level: 3rd year and higher
 2. Unit: **62 or more units** must be acquired by Q2 of the same year (subjects that contribute to graduation credits).



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Laboratory Admission (Process)

- Available labs:

Labs managed by **primary and some of secondary faculty members** (full professors and associate professors) of TSE

- Student priority: Admission quotas are implemented for labs. **Priority is given to students with high grades.** The following rules are set.
 - Any student can enter a lab with no prior admissions from the same batch / level.
 - Students can join a lab with already one admitted student from the same batch / level given that they are ranked above half of the GSEP students of the same batch.
 - Students can join labs of secondary faculty members having only 1 student.
- **GPT evaluation will be up to Q2 of the year of lab admissions.**
 - If you have successfully obtained credits for 300-series courses taught in Japanese (except courses for Japanese language), the GPT may be adjusted to consider those courses. If applicable, you are requested to **submit your transcript** to the TSE chair. **1 credit will be treated as equivalent to an additional 0.01 point towards your GPT.**



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Note

- During Q3, a **preliminary survey will be conducted**. In that timing, available laboratories will be publicized.
- **Separate selection process (primary)** for Japanese course students and GSEP students will be conducted. Maximum allowed per lab:
primary: 4 students (2 for Japanese course; 2 for GSEP) **secondary**: only 1
- If you are provisionally certified for early graduation, you can belong a lab from July or September in the 3rd year with priority selection. ~~The number of members in the laboratory will be adjusted once the student enters.~~
- If you are studying abroad for a long period of time, relaxation of credit requirements may apply for lab admission.
- If you are eligible for lab admission but could not qualify to start Independent Research Project by Q3 of the 4th year, you may reapply for lab admission in the year. The GPT ranking will be based on the applicants' GPT of the year of reapplication.



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Requirements for applying Independent Research Project

In addition to the common requirements of Tokyo Tech (Refer to Study Guide), the followings are required.

1. Must acquire 28 credits from “required” (compulsory) courses (© or R) in the list of the courses of the department.
2. Must complete “Research Opportunity in Laboratories”.
3. Must acquire 44 credits from the major courses in the list of the courses of the department.



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Ethics Education

- Level 1: 1st year to 3rd year in bachelor's program
(before starting “Independent Research Project”)
- Level 2: 4th year in bachelor's program (From the start of “Independent Research Project”) to master's program
- Level 3: Doctoral program

Liberal Arts Courses

- ◎Tokyo Tech Visionary Project(LAH.C101)
- Ethics in Engineering A/B/C(LAH.T105, T206, T305)
- Frontiers of Science and Technology (LAS.F101)

Major Courses

- Processes for Creation in Science and Technology
【School of Environment and Society】(XES.P101)
- School of Environment and Society Academic Group Literacy (XES.A101)
- ◎Research Opportunities at Laboratories (TSE.Z381)
- ◎Independent Research Project (TSE.Z389)



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Required Credits for Undergraduate Program

Courses	Eligibility for Application for Independent Research Project	Eligibility for graduation
Humanities and social science Courses	9 credits	13 credits
English language courses		4 credits
Basic science and technology courses	14 credits	14 credits (all in 1st year)
Japanese language courses		9 credits
Second foreign language courses	2 credits	4 credits
Research-related courses	2 credits	8 credits
Other major courses	Determined by the department for TSE, refer to the Study Guide	Determined by the department for TSE, refer to the Study Guide
TOTAL	110 or more to join a research lab	124 units or more to graduate

For more detailed information, refer to Table 2 and Table 3 of the **Study Guide**.



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