



Tokyo Tech

Department of
Transdisciplinary Science and Engineering
3rd (2021B) and 4th (2020B) Year GSEP
student orientation

April 5, 2023

GSEP Faculty

(Naoya Abe, GSEP Chair)

Welcome back to the campus!

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>

Lecture schedule in 2023

First Quarter Classes: April 8-May 31, June 3

- Lectures for Q1 will be held in principle face-to-face basis.
- April 5 - April 21: course registration for 1Q and 2Q via Tokyo Tech Portal
- June 1 – June 10: Quarter-end exams and makeup classes for 1Q
- <Caution!> May 8: Thursday classes, May 9: Friday classes, May 20: No classes due to Homecoming Day, May 26: Classes will be held despite Foundation Day

Second Quarter Classes: June 12-July 31

- August 1-9: quarter-end exams and makeup classes for 2Q

Summer break: August 10 - September 26

Check the following page for the detailed

<https://www.titech.ac.jp/english/student/students/life/schedules>

Lecture schedule in 2023 (continued)

Third Quarter Classes: October 2 - November 21,24,25,27

Fourth Quarter Classes: December 5-26

- Winter break: December 27-January 3, 2024
- Classes in 2024: January 4-February 1,3

Check the following page for the detailed

<https://www.titech.ac.jp/english/student/students/life/schedules>

Timetable

1st Quarter 2023 (For GSEP 3rd Year Students)								(Last updated Mar 27, 2023)	
Time		Mon	Tue	Wed		Thu	Fri	Intensive	
8:50 10:30	1		Research Opportunity in Laboratories (TSE)[E]** TSE.Z381-02 Each laboratory 2 credits (Also conducted at different time slots)				Project Management TSE.C303 Ishikawadai 4, room B02-05 2 credits	Japanese 9 [GSEP]** LAJ.J301-01 1 credit	
	2								
10:45 12:25	3	Communication and network TSE.A322 S6-109 (S611) 2 credits				Communication and network TSE.A322 S6-109 (S611) 2 credits			Advanced Independent Research Project S1c (TSE) TSE.Z371-02 1 credit
	4								
12:25 13:45	Lunch Break								
13:45 15:25	5	Trandisciplinary Engineering Experiment A[E] TSE.A351-02 1 credit	Basic theory of regional and global environment 1 TSE.A335 S6-211 (S622) 2 credits	English Speech Seminar 9 LAE.E371 M-B45 (H105) 1 credit	Traditional Technology and Intercultural Co-learning LAW.X353 (1~2Q) Wed Period 5-8 (Blended) M-112 (H117) 2 credits		Basic theory of regional and global environment 1 TSE.A335 S6-211 (S622) 2 credits		
	6								
15:40 17:20	7						Special Lecture: Introduction to edX online course creation LAH.H310 W9-322 (W931) 1 credit		
	8								
	Note						Color Code		
	* When choosing English courses, you should try to take the similar course in both 1Q and 2Q, or 3Q and 4Q						TSE (Compulsory)		
	** Please refer to separate handout regarding Japanese Language courses						TSE		
	*** Only students who are eligible to apply for early graduation can take this course in 1Q. All other students should take it in 3Q.						Basic Science & Tech. (Compulsory)		
							Basic Science & Tech.		
	Course Registration Period						English		
	Wednesday, April 5, 2023 9 : 00 ~ Friday, April 21, 2023 13:00						Japanese		
							Humanities & Social Science		
							Breadth		
							Other Dept.		

Timetable

[illegible]

Independent Research Project for the 4th year students

- Register by April 21, if you are eligible.
- Start working on from 1Q or from 3Q, at least for 6 months.
- Presentation and Q&A: in either August or February next year. Most students do this in February.
- There is a format for the IRP report.
- https://www.tse.ens.titech.ac.jp/en/wp-content/uploads/2021/07/IRP_report_guideline_in-English_2021_final.pdf
- Research ethics aspect is also checked.

GSEP Japanese Language and Culture Courses 2023

GSEP students must obtain the following 9 credits of Japanese language and culture courses to receive your bachelor's degree.

[Course list]

- 100-level (1st year), Beginner level
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), Pre-intermediate level
Japanese 5(1Q), 6(2Q), 7(3Q) and 8(4Q) : Wednesday 14:20~
- 300-level (3rd year)
Japanese 9(1-4Q)

Japanese Class Online System (JCOS) will open at noon on **Apr. 4.**

Please complete the following procedures by April 5th, Wednesday:

- 1) Make an account on Japanese Class Online System at
(<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) Please enter your test results into Google Forms
(<https://forms.gle/HojGnraDpekHe3uM9>)



Details could be found at: <https://docs.google.com/document/d/1iEqnfrJicjdryZv9pfsBdp-MRYaV4tc4/edit>

Research Ethics Education

The targets of education on research ethic are the following four items:

(1) academic integrity, (2) responsibility as a researcher, (3) responsible conduct of research, (4) legal compliance.

- Level 1 : 1st year to 3rd year in bachelor's program (before starting Independent Research Project (IRP))
- Level 2 : 4th year in bachelor's program (from the start of IRP) 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 course group

○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)

NO worry about the requirements for Level 1 as long as you take the “visionary project” and “Intro. to TSE” in the second year. But you must understand the importance of research ethics. Simply, please do not “copy and paste”.

◎ - Required courses

○ - Electives

Research Ethics Education

Online learning

Following on-line courses are also recommended:

0SPOC「Tokyo Tech Science, Engineering, AI & Data Ethics : Level 1-2

<https://edge.edx.org/courses/coursev1:TokyoTechX+2020TT-ethics+2020Q1/about>

0eL CoRE (JSPS) Level 1-2 (Research ethics education materials)

<https://www.jsps.go.jp/j-kousei/rinri.html>

The remaining slides are for
the new 3rd year students

TSE.Z381: Research opportunity in Laboratories (TSE)

- The purpose of this course is to provide students with an opportunity to be exposed to "research" at an early stage and to develop a concrete interest in graduate school education, which is highly specialized education.
- This is a required course in order to apply for TSE.Z389: Independent Research Project (IRP)
- A group of students visits four laboratories.
 - The four laboratories to be visited are randomly selected by the department.
 - To be taken in 3Q.
- Students may take the course in 1Q if they meet one of the following conditions.
 - Students who are provisionally approved for early graduation after 3 years of study. However, this option is strictly evaluated and rarely conducted.
 - The student has a concrete plan to study abroad or internship for more than one month in the 3Q, and is in the process of applying for such an internship or study-abroad program. Appropriate evidence must be submitted.
 - Students who have not completed this course (TSE.Z381) in the third year or later since they joined the department, including those who failed in the previous year.

Laboratory (research group) assignment

- Students are assigned to the laboratory where they will conduct their TSE.Z389: Independent Research Project (IRP) in mid-December of their junior year after completing TSE.Z381: Research opportunity in Laboratories (TSE) in the 3rd quarter.
- By belonging to a laboratory before the start of the IRP from the 4th year, students are able to conduct in-depth research.
- In a laboratory, students follow the instructions of the principle investigator (PI) = professor or associate professor.
- Eligibility for the assignment
 - Students who satisfy the following two requirements at the same time
 - Grade: 3rd year or above after the entrance to Tokyo Tech
 - Earned credits: students must have earned 62 credits or more by the 2nd quarter of the year of the assignment. Eligible credits are due to the courses that are counted toward the total number of credits required for graduation.

Laboratory assignment rule for GSEP students

- Possible affiliations
 - All labs led by professors and associate professors, who are affiliated with TSE Department as the primary appointment.
- Number of allowed students joining laboratories
 - 1 student for a lab.
- Grading criteria for the assignment
 - Based upon the GPT up to the 2nd quarter of the year
 - However, based on each student's self-report and the submission of official transcript issued by Tokyo Tech, 0.01 point will be added to the GPT for each credit earned in courses offered in Japanese (excluding language courses)

Laboratory assignment rule for GSEP students (2)

- Students who are eligible for laboratory affiliation should submit up to 10 laboratory choices in order of preference.
- Priority to select laboratories are based on the ranking of the students. Rank is based on the grading criteria mentioned earlier (i.e., GPT).

Important notes about lab assignment

- A preliminary survey of the laboratory choices will be conducted in the 3Q. The result will be public. Available laboratories where students can join will be listed.
- If a student applies for early graduation after 3 years of study and is provisionally approved, he/she will be assigned to a laboratory from July or September of his/her junior year, and will have priority in selecting a laboratory. For this case, the number of students who belong to a laboratory is determined separately. However, this option is strictly evaluated and rarely conducted.
- For students who have studied abroad for a long period of time or transfer students, consideration will be given to relaxing the credit requirements for laboratory affiliation.
- If a student has been a member of a laboratory but is not eligible to apply for IRP in the 3rd quarter of the 4th year, the student may apply for reassignment to the laboratory. If the application for reassignment is approved, the student's laboratory affiliation will be decided based on the student's academic performance in the year of application.

Requirements to apply for IPR

- University-wide requirements applied.
- In addition to the above, the following TSE department conditions must be met.
 1. The student must have earned at least 28 credits in the compulsory TSE major courses (©) from among the courses.
 2. The student must have completed TSE.Z381: Research opportunity in Laboratories (TSE).
 3. Students must have earned at least 44 credits from the TSE major courses.
- Please check the PDF below for GSEP-specific requirements:

<https://www.titech.ac.jp/english/student/pdf/20b.pdf>

University-wide requirements

Table 2. Minimum number of credits required by graduation

Category Courses	Minimum number of credits required			
	Eligibility for department affiliation		Eligibility for independent research project for a bachelor's degree	Eligibility for graduation
Humanities and Social Science Courses	A total of 5 credits consisting of 2 credits in 100-level required courses 3 credits in 100-level restricted elective courses (1 credit each from the humanities, social studies, and transdisciplinary studies)	31 credits • A total of 31 credits consisting of 17 credits from the total of 23 credits shown in the column to the left and, including those to the left, credits in 100-level courses (excluding separately prescribed courses)	9 credits • 2 credits in 100-level required courses • 3 credits in 100-level restricted elective courses (one credit each from humanities, social sciences, and transdisciplinary studies) • 4 credits from 200-level and 300-level required courses and restricted elective courses	13 credits • 2 credits in 100-level required courses • 3 credits in 100-level restricted elective courses (1 credit each from humanities, social sciences, and transdisciplinary studies) • 4 credits in 200-level restricted elective courses • 2 credits in 300-level required courses • 2 credits in 300-level restricted elective courses
English Language Courses	A total of 4 credits in 100-level required courses		6 credits • 4 credits in 100-level required courses • 2 credits in 200-level and 300-level required courses	9 credits • 4 credits in 100-level required courses • 4 credits in 200-level required courses • 2 credits in 300-level required courses
Basic Science and Technology Courses	A total of 14 credits in 100-level required courses		14 credits • 14 credits in 100-level required courses	14 credits • 14 credits in 100-level required courses
Second Foreign Language Courses	—		2 credits • 200-level and 300-level restricted elective courses Students will be asked to choose one or two languages to study. 2 credits can be attained by learning the same language, or by learning two different languages (1 credit each).	4 credits • 200-level and 300-level restricted elective courses Students will be asked to choose one or two languages to study. 4 credits can be attained by learning the same language, or by learning two different languages (2 credits each).
Research-Related Courses	—		2 credits • 2 credits in research opportunity courses	8 credits • 2 credits in research opportunity courses • 6 credits in independent research project for a bachelor's degree

University-wide requirements (continued)

Other major courses	—	Determined for each standard curriculum	Determined for each standard curriculum
Total	31 credits above * The upper limit for the required courses and restricted elective courses in humanities and social science courses described above is 5 credits, the upper limit for required English language courses is 4 credits, and the upper limit for required basic science and technology courses is 14 credits.	110 credits or more that satisfy the above requirements	124 credits or more that satisfy the above requirements

See next slide

Note: Credits attained from the Japanese language and culture courses, teacher education courses, and some global awareness and other breadth courses do not count toward the minimum of 31 credits required to be eligible for department affiliation. (Credits from the wellness courses can be counted as part of the required credits.)

Credits attained from the teacher education courses do not count toward the minimum of 110 credits required to be eligible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from the wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can be counted as part of the required credits.)

Please check the following pdf for the GSEP students in HSS and language course work.
<https://www.titech.ac.jp/english/student/pdf/20b.pdf>

Eligibility for graduation by TSE curriculum (in addition to university-wide requirements)

- © 30 credits from the Table of the courses for TSE undergraduate major
- Completed Laboratory Opportunity for Research (TSE) and IRP
- More than 50 credits from the Table of the courses for TSE undergraduate major
- More than 124 credits in total

Agreement	Credits acquired by students	→ Can be counted toward the credit requirements for the courses below
1.1	Humanities and Social Science Courses (200-level restricted electives)	→ Humanities and Social Science Courses (100-level restricted electives)
1.2	Humanities and Social Science Courses (300-level restricted electives) (A)	→ Humanities and Social Science Courses (100- or 200-level restricted electives) (B)
1.3	English Language Courses (200- or 300- level electives) (courses other than “English 1” to “English 9”)	→ Second Foreign Language Courses (restricted electives)
1.4	Japanese Language and Culture Courses (up to 3 credits) (up to 3 out of the following 4 courses: “Japanese Culture: Adaptation,” “Japanese Culture: Society,” “Japanese Culture: Arts,” and “Japanese Culture: Japanology”)	→ Humanities and Social Science Courses (100- or 200-level restricted electives) (C)
1.4	Japanese Language and Culture Courses (9 credits) (In principle, the following 9 courses: “Japanese 1 GSEP” to “Japanese 9 GSEP”; For students who enrolled in 2016, “Survival Japanese 101, 102” and “Introduction to Japanese 2A, 2B” are deemed equivalent to “Japanese 1A, 1B, 2A, 2B.”)	→ English Language Courses (required courses) (9 credits) (9 courses: from “English 1” to “English 9”)
1.5	Global Awareness and Other Breadth Courses (2 specific courses)	→ Humanities and Social Science Courses (100-level restricted electives)

Notes for section 1	International students may use up to 12 credits acquired from Japanese Language and Culture Courses to fulfill the requirements for Humanities and Social Science Courses. For consistency with that rule, regarding credits that can be counted toward the credit requirements for Humanities and Social Science Courses (100- or 200-level restricted electives) under agreement 1.4, GSEP students may use up to 3 credits (9 credits for English Language Courses subtracted from the 12 credits) to fulfill the same requirements. (C)
Notes for section 2	For example, when a student attains 300-level course credits from Humanities and Social Science Courses (200- and 300-level restricted electives) as stipulated in (A) and uses those credits to fulfill the requirements stipulated in (B), the student may not use those credits to fulfill the requirements for 300-level restricted electives .