



Tokyo Tech

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

April 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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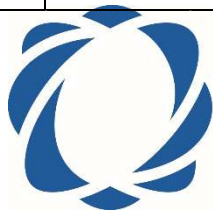
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Timetable

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 Spring Semester TSE.A342 (ZOOM) 2 credits | Advanced Engineering Research Project S1c (TSE) E.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.** Following rule is 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 $\frac{1}{2}$ of the GSEP students of the same batch.
 - Students can join labs of secondary faculty members having only 1 student.
- **Grade evaluation by GPT will be up to Q2 of the year.**



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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. 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 3rd year Q3 (September) 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 already have lab admission but could not “start” Independent Research Project by 3Q of the 4th year, you can reapply for admission. The grade evaluation by GPT will be based on the applicants of the year’s 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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