





Students

- New 2nd year students: 54
 - Japanese students + international students : 43
 - GSEP: 11

Faculty

Primary appointment faculty: 56(2024.4.1)

 Professor 22, Associate Professor 17, GSEP Lecturer 3, Assistant Professor 14
 Staff: 3 (@Ishikawadai 4 Bldg. 104)

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Faculty List : <u>https://educ.titech.ac.jp/tse/</u> (Including secondary faculty)

Vision of TSE

Pioneering new fields and solving global problems with knowledge from science and technology

Transdisciplinary science and engineering is a way of study where researchers go beyond the boundaries of academic fields to solve the complex problems shared by global society as a whole. The Department of Transdisciplinary Science and Engineering is a fusion of a wide range of fields — chemical engineering, mechanical engineering, electrical and communications engineering, civil engineering, biological engineering, encompassing even environmental policy and planning, applied economics, sociology, translation studies, and applied linguistics. Students acquire practical skills — not simply academic knowledge.

Specifically, our goal is to train individuals as global scientists and engineers with the following abilities: ability to contribute to the innovation of novel technology, values, and concepts needed by society (ability to define and solve problems, creative thinking and the ability to carry out projects); to communicate with engineers in other fields with a global perspective and co-create; and to manage complex and large-scale projects and organizations.

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Competencies

Basic abilities with a wide range of applications

- Logical and mathematical thinking and analytical skills
- Comprehension of physical and natural phenomena
- General-purpose measuring and computation techniques

Applied abilities unhindered by existing academic fields

- Ability to solve given problems using suitable methods
- Ability to comprehend systems and operate them

Personal and social skills required as a global engineer

- Communication skills
- Sense of social responsibility and ethics
- Autonomy, ability to execute projects

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TSE Curriculum

100番台 100-Level 200番	台 200-Level 300番台 300-Level	専門科目群 ELECTIVE COURSES	地球·地域生態学概論 Introduction to Global and Local Ecology 地域·地球環境機論 第18 第2	
線形代数学第一 Linear Algebra I	工学基盤群	融合理工学とデータサイエンス(I) Data Science for Transdisciplinary Reseach (I)	Basic Theory of Regional and Global Environment 1 and 2 国際開発共創概論	
象形代数学演習第一 inear Algebra Recitation	FUNDAMENTALS OF ENGINEERING 材料·物性工学基礎	融合理工学とデータサイエンス(II) Data Science for Transdisciplinary Research (II)	Introduction to International Development 開発経済学入門 Introduction to Development Economics	
数分積分学第一 alculus l	Material and Molecular Engineering 田休、螺连五尚其陳	プログラミングと数値解析基礎 Programming and Numerical Analysis	融合技術論	
数分積分学演習第一 alculus Recitation l	Solid Mechanics and Structural Engineering	プログラミングと数値解析応用 Applied Programming and Numerical Analysis	Methodology of Transdisciplinary Research: Theory and Practice	
)学基礎1・2 undamentals of Mechanics 1 / 2	電気・磁気工学基礎 Electrical Engineering	通信とネットワーク Communications and Networks	エンジニアリングテザイン機論 Introduction to Design Engineering	
電磁気学基礎1・2 undamentals of Electromagnetism 1/2	熱力学基礎 Engineering Thermodynamics	電磁気学 (融合理工) Electromagnetics (TSE)	国際エンジニアリングデザインプロジェクト基礎F&S International Engineering Design Experience (Fall Semester and Spring Semester)	
電子化学基礎 lasic Quantum Chemistry	液体工学基礎 Fluid Engineering	環境流体力学基礎 Basis of Environmental Hydrodynamics	エンジニアリングデザインと技術経営基礎 Introduction to Engineering Design and	
無機化学基礎 lasic Inoreanic Chemistry	生物工学基礎 Biological Engineering	防災工学基礎 Introduction to Natural Disaster Science and Engineering	Management of Technology エネルギーシステム設計基礎論	
i機化学基礎 asic Organic Chemistry	工学計測基礎 Engineering Measurement	剛体の運動力学 Rigid Body Dynamics	Foundations of Energy Systems Design 資源・エネルギー工学概論	
比学熱力学基礎 Basic Chemical Thermodynamics	融合理工学実験A Transdisciplinary Engineering Experiments A	強度の力学 Mechanics of Strength	Theory of Resource and Energy Engineering エネルギーと環境 (融合理工) Energy and Environment (TSE)	
E命化学基礎第一1 · 2 undamentals of Life Science 1 / 2	融合理工学実験B	操作論 Unit Operations	特定課題研究・特定課題研究プロジェクトなど	
百専門科目1~4 chool type subjects	HTTANSOSCIPIINARY Engineering Experiments B	工業化学 Industrial Chemistry	RESEARCH OPPORTUNITIES AT LABORATORIES, INDEPENDENT RESEARCH PROJECTS, INTERNSHIPS, ETC.	
文理基盤群	FUNDAMENTALS OF CO-CREATION	実用材料の冶金学基礎 Introduction to Metallurgy of Engineering Materials	研究プロジェクト (融合理工学系) Research Opportunities at Laboratories (TSE)	
UNDAMENTALS OF MATHEMATICS	融合理工学基礎 Introduction to Transdisciplinary	原子核工学概論 Introduction to Nuclear Engineering	学士特定課題研究(融合理工学系)	
nのカブルキュルとカルキカの家 rdinary Differential Equations and hysical Phenomena	システムデザインプロジェクト	原子核工学基礎 第1~第4 Basic Nuclear Engineering 1-4	学士特定課題プロジェクト (融合理工学系) Advanced Independent Research Project (TSE)	
i微分方程式と物理現象 artial Differential Equations for	System Design Project 酸合デザインプロジェクト	社会環境政策概論 Introduction to Environmental Policy and Social Systems	国際プロジェクト演習 Exercises in International Development Engineering	
R形システム論 heory of Linear Systems	iransoisciplinary Design Project システムデザイン&アセスメント System Design & Impact Assessment	水 · 物質循環システム概論 Introduction to Water and Mass Transport in the Environment	融合理工学海外研修 International Training in Transdisciplinary Science and Engineering	
た計とデータ解析 tatistics and Data Analysis	プロジェクトマネジメント Project Management	気象学基礎 Introduction to Meteorology	融合理工学インターンシップ Transdisciplinary Science and Engineering Internship	







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ience"			Latest Update	s	
23		No.	Serenade of the	Winter Nig	ht
he offered in 30	this year		GSEP Newsletter DECEMBER 19TH, 2023	vol.3	
ed that GSEP stud	dents can		"Career Insights Career Path"	for Your Lo	ing
			- Invited Talk by periodefit 26TH, 2023	Dr. Ken Ha	rada
ne molecular, me	tabolic		Tokyo Tech's Me comeback at "Bin october 17TH, 3023	ister made rdman Rally	a y"
as bioengineerii gical science.	ng, genetic		GSEP Newsletter SERTEMBER 28TH, 2023	vol.2	
ech.ac.jp/~c	gsep/2023/()6/08/new-	<u>course-biolo</u>	gical	18
	ience" 23 be offered in 3Q ed that GSEP stud ne molecular, me as bioengineerii gical science.	ience" 23 be offered in 3Q this year ed that GSEP students can ne molecular, metabolic, a as bioengineering, genetic gical science. ech.ac.jp/~qsep/2023/C	ience" 23 be offered in 3Q this year ed that GSEP students can ne molecular, metabolic, a as bioengineering, genetic gical science. ech.ac.jp/~qsep/2023/06/08/new-	Latest Update Serenade of the MANAARY 25TH 2004 GSEP Newsletter DECEMBER 19TH 2024 "Career Insights Career Path" - Invited Talk by DCTOBER 26TH 2023 Tokyo Tech's Me comeback at "Bill OCTOBER 26TH 2023 GSEP Newsletter SEREMBER 28TH 2023	Latest Updates Serenade of the Winter Nig MANUARY 25TH 2024 Serenade of the Winter Nig MANUARY 25TH 2024 GSEP Newsletter vol.3 DECEMMERP19TH 2023 "Career Insights for Your Lo Career Path" - Invited Talk by Dr. Ken Ha DCTOBED 26TH 2023 Tokyo Tech's Meister made comeback at "Birdman Raily octroBer 17TH, 2023 GSEP Newsletter vol.2 SEPTEMBEP 26TH, 2023 ecch.ac.jp/~gsep/2023/06/08/new-course-biological-

Notifications for timetables and completing courses

Timetables (On-campus website) : <u>http://www.tse.ens.titech.ac.jp/en/</u>

- Please complete courses as recommended timetables
- It is possible to take 200s in other departments. However, this is recommended for 3rd years so that priority should be given to TSE 200s subjects.
- Laboratory assignments for "Independent Research Project (IRP)" will be given by GPT ranking. Details will be explained at 3rd year orientation.
- Note that after completing IRP, students are also required to take Advanced Independent Research Project (A-IRP).

Lecture schedule in 2024

Spring Semester 2024 First Quarter Classes: April 6-May 27, May 30-June 1 April 4-April 5 Preparation period for classes May 2 Monday classes will be held May 25 No classes due to Homecoming Day Quarter-end exams and makeup classes for 1Q May 28-29, June 3-8 *Jun 4,5: Preparatory day for courses that hold weekly classes Second Quarter Classes: June 10-July 29 Quarter-end exams and makeup classes for 2Q July 30-August 6 *August 6: Preparatory day for courses that hold weekly classes Summer break: August 7-September 30

	es. October 5-November 21,25,25-21
october 2	Preparation period for classes
October 17	Monday classes will be held
November 2-5	No classes due to Tokyo Tech Festival
November 23	Saturday classes will be held
November 22,28-	Quarter-end exams and makeup classes for 3Q
December 5	*November 29. December 5: Preparatory day for courses that hold weekly classes
Classes in 2025: Jan	uary 4-February 3
January 17,18	No classes will be held due to University Admission Common Test (大学入学共通テスト) and preparation
January 17,18 February 4-12	No classes will be held due to University Admission Common Test (大学入学共通テスト) and preparation Quarter-end exams and makeup classes for 4Q

Time	Mon	Tue	Wed	Thu	Fri	Intensive
8:50 1 9:40 1 10:30 2	Ordinary Differential Equations and Physical Phenomena TSE.M201-01 2 credits A. Varquez, H. Takasu S3-206, GSIC PC room			Ordinary Differential Equations and Physical Phenomena TSE.M201-01 2 credits A. Varquez, H. Takasu S3-206, GSIC PC room		
3 10:45 1 11:35 1 12:25 4	Engineering Thermodynamics TSE.A204-01 2 credits S. Boonyubol 13-203		Introduction to Transdisciplinary Science and Engineering TSE C201 1 credit N. Abe 16-404 Commons room	Engineering Thermodynamics TSE A204-01 2 credits 5. Boonyubol 13-203		
12:25 13:30		-				
13:30 5 14:20 15:10 6	English Presentation Seminar 5 LAE.E241 1 credit Page Anthony M-119	Special Lecture : Art and Society LAH.H219 1 credit A. Ito M-B104	Japanese 5 [GSEP] LAJ J201-04 1 credit Y. Yoshitawa W9-202	System Design Project TSE.C202 1 credit		
15:25 16:15 17:05 8		Statistics and Data Analysis TSE.M204-02 2 credits S. Hanaoka, S.Choi S4-202		T. Ohashi, S. Saito et al. 15 Design Lab.	Statistics and Data Analysis TSE.M204-02 2 credits S. Hanaoka, S.Choi S4-202	
	Note When choosing English cou Course Registration Inursday, April 4, 2024	urses, you should try to take n Period 49: UV ~ Friday, April 1	the similar course in both 1Q and 2 9, 2024 13:00	2Q, or 3Q and 4Q		Color Code TSE (Compulsory) TSE Basic Science & Tech. (Compulson Basic Science & Tech. English



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 tet: Credits attained from the Japanese language and culture courses, teacher education courses, and some global vareness and other breadth courses do not count toward the minimum of 31 credits required to be eligible for partment affiliation. (Credits from the wellness courses can be counted as part of the required to be gibble for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from ewellness courses, global awareness and other breadth courses and other breadth courses and other breadth courses can courses, and Japanese language and culture courses can counted as part of the required to be gibble for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from ewellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	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 English language courses is 4 credits. 110 credits or more that satisfy the above requirements thet: Credits attained from the Japanese language and culture courses, teacher education courses, and some global rareness and other breadth courses do not count toward the minimum of 31 credits required to be eligible for partment affiliation. (Credits from the wellness courses can be counted as part of the required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from a wellness courses, global awareness and other breadth courses and not count toward the minimum of 120 credits required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from a wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	courses		Determined for each standard curriculum	Determined for each standard curriculum	Se
te: Credits attained from the Japanese language and culture courses, teacher education courses, and some global vareness and other breadth courses do not count toward the minimum of 31 credits required to be eligible for partment affiliation. (Credits from the wellness courses can be counted as part of the required credits.) edits attained from the teacher education courses do not count toward the minimum of 110 credits required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	te ² Credits attained from the Japanese language and culture courses, teacher education courses, and some global rareness and other breadth courses do not count toward the minimum of 31 credits required to be eligible for partment affiliation. (Credits from the wellness courses can be counted as part of the required credits.) edits attained from the teacher education courses do not count toward the minimum of 110 credits required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	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	
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edits attained from the teacher education courses do not count toward the minimum of 110 credits required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	edits attained from the teacher education courses do not count toward the minimum of 110 credits required to be gible for the independent research project or the minimum of 124 credits for graduation eligibility. (Credits from e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	wareness and oth	er breadth courses do not count toward th	e minimum of 31 credits red	quired to be eligible for	
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e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	e wellness courses, global awareness and other breadth courses, and Japanese language and culture courses can counted as part of the required credits.)	igible for the inde	ependent research project or the minimum	1 of 124 credits for graduatio	on eligibility. (Credits from	
counted as part of the required credits.)	counted as part of the required credits.)	ie wellness course	es, global awareness and other breadth co	urses, and Japanese langua	ge and culture courses can	
		e counted as part	of the required credits.)			
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Eligibility for graduation by TSE curriculum (in addition to university-wide requirements)

- ③ 30 credits from the Table of the courses for TSE undergraduate major
- Completed Laboratory Opportunity for Research (TSE), Independent Research Project (IRP) and Advanced IRP (A-IRP).
- IRP must be taken first from April only and then A-IRP can be taken for the standard graduation.
- More than 54 credits from the Table of the courses for TSE undergraduate major
- More than 128 credits in total
- Careful consideration is necessary for early graduation. 25

About early graduation

- Graduation with 3 years study or with 3.5 years study
- Eligibility conditions for early graduation
 - At the end of 2nd Quarter of the third year or at the end of 4th Quarter of the third year, GPT is more than 3.5

- All requirements are met to start IRP

Category		Minimum	number of credits required	
Courses	Eligibility fo affili	r department ation	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 left and, including those to the left, credits in 100- local comments	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	(excluding separately prescribed 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).

Category		Minumum	number of credits required Rigibility for	-	0	are revised from the translated "Study Guide".) All GSEP students automatically belong to the TSE department when they proceed to the second year
Courses	Eligibility for smili	r department ation	independent research project for a hachelor's degree	Eligibility for graduation		after enrollment. Therefore this part is not critically relevant. However, it is important to make it clear that the students are supposed to take the required number of credits before they become second year technine. If a GERE student mixing comparison to make the latter students of the study has been second year.
0	A total of 5 credits	2	9 credits * 2 credits in 100-level required courses * 3 credits in 100-level	13 credits 2 credits in 100-level required courses 3 credits in 100-level		needs to extend his/her study period beyond four years, which is the standard study period for a bachelor student.
	consisting of 2 credits in 100 level required courses 3 credits in 100-level	31 credits	restricted elective courses (one credit each from humanities, social sciences, and	restricted elective courses (1 credit each from humanities, social	2	This requirement is met by "Tokyo Tech Visionary Project (100-level)", a compulsory course for all Tokyo Tech students.
Humanities and Social Science Courses	restricted elective courses (1 credit each from the	credits consisting of 17 credits from the total of 23	* 4 credits from 200 level and 300 level required courses and restricted elective courses	and transdisciplinary studies) • 4 credits in 200-level restricted	3	Can earn the required number of credits regardless of the combination of categories: humanities, social sciences and transdisciplinary studies.
	numanities, social studies, and transdisciplinary studies)	credits shown in the column to the left and, including those to the left, credits in 100-		elective courses • 2 credits in 300-level required courses • 2 credits in 300-level restricted	0	Earned credits under 200-level and 300-level Humanities and Social Sciences courses can be substituted for 100-level Humanities and Social Sciences courses credits. Note that if some credits are regarded for a category of a course, then the same credits are not allowed to be regarded as for other category of courses.
English	A total of 4 credits in 100	level courses (excluding separately prescribed	6 credits · 4 credits in 100-level required courses	elective courses 9 credits 4 credits in 100-level required courses 4 credits in 200-level	0	Out of 4 credits, 2 credits must be earned by taking "Liberal Arts Final Report (300-level)", a required course for all Tokyo Tech undergraduate students.
Courses	courses	6	 2 credits in 200-level and or 300-level required courses 	required courses	6	This statement is not applicable to GSEP students. Instead, GSEP students are required to take Japanese courses from Japanese 1 (GSEP) to Japanese 4 (GSEP), which are all 100-level
Basie Science and Technology Courses	credits in 100- level required courses		14 credits • 14 credits in 100-level required courses	14 credits • 14 credits in 100-level required courses	6	This statement is not applicable to GSEP students. Instead, GSEP students are required to take
			2 credits 200 level and 300 level	4 credits • 200-lovel and 300-level restricted elective		Japanese courses from Japanese 5 (GSEP) to Japanese 8 (GSEP), which are all 200-level.
Second Foreign Language Courses			restricted elective courses Students will be asked to choose one or two languages to study. 2 credits can be attained be longing the same	Students will be asked to choose one or two languages to study. 4 credits can be attained by barries the same	0	This is attained by taking Japanese 9 (GSEP), which is a 300-level Japanese language course comprised of either an I3 or higher levels of Intermediate Japanese courses for graduate students; register "Japanese 9" in the Kyonu web system. Note that there will be no class explicitly named "Japanese 9 (GSEP)" in the list of Japanese language courses.
			Innguage, or by learning two different languages (] credit each).	language, or by learning two different languages (2 credits each).	8	Can earn the required number credits by taking elective English courses in 200-level and 300-level (note that required English language course are not applicable.)
Should re	ad with thi	is direction	in an accumula	ted manner		If GSEP students can join second foreign language courses and earn the credits from them, those credits will be counted as in the general rules of Tokyo Tech.
			opportunity courses	project for a bachelor's	1	

1	Additi	onal notes for the Ta	ble on p	oage (77) o	f tŀ	ne Study Guide
-	Course level	Course	Number of credits	Quarter when offered		
t	100	Japanese 1	0-1-0	IQ)	Japanese 1 (GSEP) to Japanese 8 (GSEP) are equivalently
-	100	Japanese 2	0-1-0	2Q		regarded as those courses.
	100	Japanese 3	0.1.0	3Q	*	(GSEP) need to be earned by one of the 13 or higher levels of
	100	Japanese 4	0.1.0	-4Q		Intermediate Japanese courses for graduate students.
	200	Japanese 5	0-1-0	1Q		Note that we will not open any class named "Japanese 9".
	200	Japanese 6	0-1-0	2Q		Among four courses for 4 credits, only a maximum of 3 credits
Γ	200	Japanese 7	0-1-0	3Q		from the three courses can be substituted for ILA's Humanities
	200	Japanese S	0.1.0	4Q		and Social Sciences course credits.
	100	Japanese Culture: Adaptation	0-1-0	1Q	1/	-
Γ	200	Japanese Culture: Japanology	0.1.0	2Q	1	Note: For those international undergraduate students who study in Japanese, they are allowed
	300	Japanese Culture: Language and literature	0-1-0	3Q	to substitute 12 credits at maximum from Japanese Language and Culture of ILAs' Humanities and Social Sciences courses' credits or required English credits. GSEP students are determined to substitute 9 credits by taking Jap courses for English language courses' credits. Therefore, remaining 3 credits.	to substitute 12 credits at maximum from Japanese Language and Culture course for either
	300	Japanese Culture: Language and society	0-1-0	4Q		eredits. SCEP students are determined to substitute 9 credits by taking Japanese language courses for English language courses' credits. Therefore, remaining 3 credits are eligible for



	Agreement	Credits acquired by students	\rightarrow	Can be counted toward the credit requirements	
			_	for the courses below	
	11	Humanities and Social Science Courses		Humanities and Social Science Courses	
	1.1	(200-level restricted electives)	\rightarrow	(100-level restricted electives)	
	1.9	Humanities and Social Science Courses		Humanities and Social Science Courses	
	1.2	(300-level restricted electives) (A)		(100- or 200-level restricted electives) (B)	
		English Language Courses (200- or 300-		Second Foreign Longuage Courses	
	1.3	level electives) (courses other than "English 1" to "English 9")		Second Foreign Language Courses	
				(restricted electives)	
		Japanese Language and Culture Courses			
		(up to 3 credits) (up to 3 out of the			
	1.4	following 4 courses: "Japanese Culture:		Humanities and Social Science Courses	
	1.4	Adaptation," "Japanese Culture: Society,	, →	(100- or 200-level restricted electives) (C)	
		"Japanese Culture: Arts," and "Japanese			
		Culture: Japanology")			
		Japanese Language and Culture Courses			
		(9 credits)			
		(In principle, the following 9 courses:			
		"Japanese 1 GSEP" to "Japanese 9		English Language Courses (required	
	1.4	GSEP"; For students who enrolled in	\rightarrow	courses) (9 credits)	
		2016, "Survival Japanese 101, 102" and		(9 courses: from "English 1" to "English 9")	
		"Introduction to Japanese 2A, 2B" are			
		deemed equivalent to "Japanese 1A, 1B,			
		2A, 2B.")			
		Global Awareness and Other Breadth		Huma iti a l Sacial Stienes G	
	1.5 1	5 is no longer applicable	to, a	any GSEP students.	
		(2 specific courses)		(100-level restricted electives)	
	https	://www.titech.ac.ip/end	alis	h/student/pdf/20b.pdf	3

Notes	for
section	1
Notes	for

section 2

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)

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.

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

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GSEP Japanese Language and Culture Courses 2024

GSEP students must obtain <u>the right 9 credits</u> of Japanese language and culture courses to receive your bachelor's degree.

[Course list]

100-level (1st year), Beginner level Japanese 1(1Q): Tuesday 13:30~ and Thursday 15:25~ Japanese 2(2Q), 3(3Q) and 4(4Q): Tuesday 13:30~ and Thursday 10:45~

200-level (2nd year), Pre-intermediate level Japanese 5(1Q), 6(2Q), 7(3Q) and 8(4Q) : Wednesday 13:30~

300-level (3rd year) Japanese 9(1-4Q)

GSEP student Orientation and Consultation for Japanese language Day and time: 13:30-14:40, Apr. 4 (Thursday) Place: W1-104, West Bldg.1, Ookayama campus

*2nd-year students and above with higher Japanese language levels are encouraged to participate in this consultation.

<u>Details could be found at:</u> https://docs.google.com/document/d/1JeZ1WND5p9KJ6WC3leB0kilMw6P5zQbn/edit Japanese Class

2) For beginner learner (B1 and B2 level): The first class for Japanese 1 will be held on April 9th, 13:30-. Classes will be held face-to-face at Ookayama Campus.

2) For students who have studied Japanese before (B3~ level): according to your Japanese language level, the coordinator will recommend you attending one or two intermediate-level classes open for graduate students.

Consultation session will be held after the orientation on Apr. 3.

Procedures: Once you are allowed to reserve the class, reserve a Japanese class that is suitable for your Japanese level on the JCOS, select "Japanese 1-9" from a pull-down menu of "credit". Then register for Japanese 1-9 (undergraduate courses) on the Kyomu Web System. For credit approval, the following courses are recommended: Basic Japanese 3 or 4; and Intermediate Japanese 1, 2, 3, 4, 5, 6, 7 or 8.

Guide (Slide 5-7):

https://docs.google.com/presentation/d/1sz20whUI8n2CaPjyBaC9CbRDJOuoOJQF/edit?usp=sharing&ouid=102660635403088944014&rtpof=true&sd=true

4. Japanese 9 (300-level)

You should obtain "Japanese 9" credit by attending one of the I3 or higher levels of Intermediate Japanese courses for graduate students; and register "Japanese 9" in the Kyomu web system. Note that we will not open any class named "Japanese 9".

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References:

Japanese courses for international graduate students <u>https://js.ila.titech.ac.jp/~web/japanese.html</u>

Japanese course lists for graduate students https://js.ila.titech.ac.jp/~web/courselist.html

Reservation and registration procedure of Japanese language classes for graduate students <u>https://js.ila.titech.ac.jp/~web/japanese.html#procedure</u>

Inquiry about Japanese courses: basic@js.ila.titech.ac.jp



TSE Bulletin Board

South Entrance, S-6 Bldg Near entrance, I-4 building

On-campus Website

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

- Contact for TSE students
- Latest information on timetables can be confirmed
- Announcements for presentations etc.



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 <u>TSE.Z389</u>: <u>Independent</u> <u>Research Project (IRP)</u>
- 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 studyabroad 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.

Tentative

Laboratory (research group) assignment

- Students are assigned to the laboratory where they will conduct their <u>TSE.Z389</u>: Independent Research Project (IRP) in mid-December of their junior year after completing <u>TSE.Z381</u>: <u>Research opportunity in Laboratories (TSE)</u> 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.

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Tentative 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. - The labs led by the instructors for "Biological Science", which is offered by Dept. of Life Science and Technology (DLST). Note that the students who join DLST labs still belong to TSE department (no affiliation change). Assignment to DLST only means that the students do IRP under a DLST advišor. Number of allowed students joining laboratories - 1 student for a lab. Total number of slots for the labs at DLST are limited up to two and 1 student for a lab. Grading criteria for the assignment Based upon the GPT up to the 2nd guarter of the third 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) 42 42

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).

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Tentative

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. <u>However, this option is strictly</u> <u>evaluated and rarely conducted.</u>
- 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.

