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[•] The advanced skills training program offered by WINGS requires annual participation.

[•] The content that is mandatory to participate must be completed by the end of SPRING GX.

 $[\]boldsymbol{\cdot}$ Follow the instructions of the respective WINGS when participating in the content.

01 WINGS name: Next Generation Development Program for International Excellence

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
Task-oriented seminar in research activity	Occasional(All year · Intensive lecture)	online • face-to-face	D1~D3	()	Set a research activity in consultation with the supervisor	

^{*1} O: Required to take

02 WINGS name: WINGS for Creating Educational Research (WINGS-CER)

Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes
Stanford/Utokyo Partnership Program on International/Cross-Cultural Education and Global Citizenship	~6 lectures in total (Partial enrollment possible)	online	D1~D3	0	
International Scholarly Dialogue for Developng Global Leaders	2-3 days	online or face-to-face	D1~D3		Depending on the situation, there is a possibility of face-to-face implementation in a foreign country.

^{*1 :} Required to take

03 WINGS name: WINGS: Advanced Business Law Program

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
Advanced Bussiness Law Program Lecture	105 min./ lecture ~8 lectures/ year	online or face-to-face	D1~D3	0			
Thomson Reuters Seminar	105 min./ lecture ~2 lectures/ year	online	D1~D3	0			

^{*1} O: Required to take

04 WINGS name: WINGS of Advanced Economics

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
Workshops for WINGS of Advanced Economics	once a week, All year	online or face-to-face	D1~D3	0			
Individual meetings with top researchers in Economics	~twice a year	online or face-to-face	D1~D3				

^{*1} O: Required to take

05 WINGS name: Global Studies Initiative: WINGS (GSI-WINGS)

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
GSI Seminar	90 min., occasionally held	online or face-to-face	D1~D3			
GSI WINGS Meeting	50 min., twice a month	online	D1~D3	0		

^{*1} O: Required to take

06 WINGS name: WINGS of Advanced Basic Science Course (WINGS-ABC)

	Offered contents							
	Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
,	Advanced Basic Sciences Seminar	∼half a day	face-to-face	D1~D3	0	The content is to introduce your research to the undergraduates during the lunch break, which includes a practice presentation to the course students in advance.		

^{*1} O: Required to take

08 WINGS name: Global Science Graduate Course (GSGC)

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
GSGC Exchange Semina	A few hours	face-to-face or online	D1~D3	0		

^{*1} O: Required to take

09 WINGS name: International Graduate Program for Excellence in Earth-Space Science (IGPEES)

Offered contents Content name days / hours online or face-to-face Target grade Requirement*1 Notes Special Lectures on Earth-Space Frontier Science 1 class × 13 times online D1~D3 \triangle 3 days (Class hours) * Group work may also be required Exercises in Earth-Space Frontier Science face-to-face D1~D3 \triangle besides the class hours mentioned above. Onsite Training in Earth-Space Frontier Science more than 2 weeks face-to-face D1~D3 \triangle

^{*1} \bigcirc : Required to take, \triangle : Required to take one of them

10 WINGS name: Forefront Physics and Mathematics Program to Drive Transformation (FoPM)

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
Diversity and Ethic Training	2 hours × 3 times	online	D1~D3	0			
4PM Seminar	2 hours/1 lecture	online	D1~D3	Δ			
International Career Seminar	1 day	online/face-to-face	D1~D3	Δ			
International Research Experience	2 weeks~3 months	face-to-face	D1~D3				

[★]The students have to select two from the above contents.

^{*1} \bigcirc : Required to take, \triangle : Required to take one of them

11 WINGS name: WINGS: Co-designing Future Society (WINGS CFS)

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
Engineering Competency I-Project Based Learning	Once a week, half a year	face-to-face	D1~D3		Reccomended course		
Engineering Competency II-Research Internship	1∼2 months (internship at a company), All year	face-to-face or online	D1~D3		Reccomended course		
Engineering Competency III-Summer Camp	3~4 days (Intensive lecture course)	face-to-face	D1~D3		Reccomended course		
Fundamentals of Future Society Initiative I	4 lectures × 3 days (Intensive lecture course), half a year	face-to-face	D1~D3		Reccomended course		
Fundamentals of Future Society Initiative IIE	4 lectures × 3 days (Intensive lecture course), half a year	face-to-face	D1~D3		Reccomended course		
Engineering Literacy II -Business Strategy, Intellectual Property-	Once a week, half a year	face-to-face	D1~D3		Reccomended course		
Future Society Initiative Seminar 1~5	Occasional	face-to-face	D1~D3		Reccomended course		
Poster Presentation	half a day	face-to-face	D1~D3	0			

^{*1} \bigcirc : Required to take

12 WINGS name: WINGS Program for Materials Research, Information, and Technology (MERIT-WINGS)

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
Conspectus of advanced materials science	S semester, every week	face-to-face or online	D1~D3	0	Must be taken while enrolled in the course.		
Material science executive seminar	All year, 3 times a year	On-site, face-to-face or online	D1~D3	0	Opportunities for visiting innovation sites such as domestic and foreign companies, and research institutes, as well as on-site discussion at public offices. Must be taken at least three times while enrolled in the course.		

^{*1} O: Required to take

13 WINGS name: WINGS Program in Gerontology Global Leadership Initiative for Age-Friendly Society (WINGS-GLAFS)

Offered contents							
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes		
General Theory of Gerontology 1	one period per week, one term	online or face-to-face	D1/MD1	0			
General Theory of Gerontology 2	one period per week, one term	online or face-to-face	D2/MD2	0			
Practical Exercise for Gerontology	Half a day (Once) *MD3 and MD4 are required to participate each year	online or face-to-face	D3/MD3/MD4	()	Participate in "Gerontology Academy" activities.		

^{*1} O: Required to take

14 WINGS name: Sustainable Agriculture Education Program

			1	1	
Content name	days / hours *FY2024	online or face-to-face *FY2024	Target grade	Requirement*1	Notes
WINGS Sustainable Agriculture Education Program research exchange	Twice a year, one and a half days each	face-to-face	D1~D4		
meeting	I wice a year, one and a nan days each	race-to-race	D1**D4		
Mathematical sciences in agriculture	S1/SP terms	face-to-face and online	D1~D4		
One Earthology I	TBD	face-to-face	D1~D4		
One Earthology II	TBD	face-to-face	D1~D4		
One Earthology III	TBD	face-to-face	D1~D4		
Practical Training in the Sustainable Agriculture Education Program I	Set by yourself	face-to-face	D1~D4		
Practical Training in the Sustainable Agriculture Education Program II	Set by yourself	face-to-face	D1~D4		
Practical Training in the Sustainable Agriculture Education Program III	Set by yourself	face-to-face	D1~D4		
Sequence Statistics and Mathematical Biology	S1 term	online	D1~D4		
Introduction to Genome Informatics	S1 term	online	D1~D4		
Introduction to Biostatistics	S1 term	online	D1~D4		
Knowledge Information Processing	SP/A1 terms	online	D1~D4		
Sequence Statistics and Mathematical Biology	every other year	every other year	D1~D4		
Molecular Modeling and Simulation	S1/SP terms	online	D1~D4		
Omics Analysis	A1 term	online	D1~D4		
Functional Genomics	S1/SP term	online	D1~D4		
Introduction to Systems Biology	SP term	online	D1~D4		
Introduction to Structural Bioinformatics	S1 term	online	D1~D4		
Field Informatics	S1/SP term	online	D1~D4		
Special Lectures on Agricultural Bioinformatics I	A1 term	online	D1~D4		
Special Lectures on Agricultural Bioinformatics II	SP term	online	D1~D4		
Special Lectures on Agricultural Bioinformatics III	S1 term	online	D1~D4		
Special Lectures on Agricultural Bioinformatics IV	SP term	face-to-face and online	D1~D4		
Special Lectures on Agricultural Bioinformatics I	every other year	every other year	D1~D4		
Research Exercise on Agricultural Bioinformatics	W term	online	D1~D4		
Food Science Seminar Series I	S1/SP/A1 terms	face-to-face and online	D1~D4		
Food Science Seminar Series II	S1/SP terms	online	D1~D4		
		face-to-face (Internship at the			
		Ministry of Health, Labour and			
Food Science Seminar Series III	SP term	Welfare or the Ministry of	D1~D4		
		Agriculture, Forestry and			
		Fisheries)			
Topics in Biomass Utilization Research I	S1/SP terms	face-to-face	D1~D4		

S1/SP terms	face-to-face	D1~D4	
SP term	face-to-face	D1~D4	
SP term	Not available	D1~D4	
SP term	face-to-face and online	D1~D4	
Domestic training (May-July)			
Overseas training: 10 days	face-to-face	D1~D4	
(September)			
every other year	every other year	D1~D4	
SP/A1 terms	face-to-face and online	D1~D4	
	face-to-face and online		
Occasional	(Attendance at symposiums, tours	D1~D4	
	and seminars)		
S1/SP terms	online	D1~D4	
A1/A2 terms	online	D1~D4	
SP term	face-to-face and online	D1~D4	
W term	Not available	D1~D4	
SP term	face-to-face and online	D1~D4	
S1/S2 terms	online	D1~D3	
A1/A2 terms	online	D1~D3	
A2 term	TBD	D1~D3	
S1 term	online	D1~D3	
S1 term	face-to-face and online	D1~D3	
S1/S2 terms	online	D1~D3	
	SP term SP term SP term Domestic training (May-July) Overseas training: 10 days (September) every other year SP/A1 terms Occasional S1/SP terms A1/A2 terms SP term W term SP term S1/S2 terms A1/A2 terms A2 term S1 term S1 term S1 term	SP term face-to-face SP term Not available SP term face-to-face and online Domestic training (May-July) Overseas training: 10 days (September) every other year every other year SP/A1 terms face-to-face and online Occasional (Attendance at symposiums, tours and seminars) S1/SP terms online A1/A2 terms face-to-face and online W term face-to-face and online W term face-to-face and online SP term face-to-face and online A1/A2 terms online S1/S2 terms online A1/A2 terms online S1/S2 terms online A2 term TBD S1 term online S1 term face-to-face and online	SP term face-to-face D1~D4 SP term Not available D1~D4 SP term face-to-face and online D1~D4 Domestic training (May-July) face-to-face and online D1~D4 (September) every other year D1~D4 SP/A1 terms face-to-face and online D1~D4 SP/A1 terms face-to-face and online D1~D4 Occasional (Attendance at symposiums, tours and seminars) D1~D4 S1/SP terms online D1~D4 A1/A2 terms online D1~D4 W term face-to-face and online D1~D4 SP term face-to-face and online D1~D4 S1/S2 terms online D1~D3 A1/A2 terms online D1~D3 A2 term TBD D1~D3 S1 term online D1~D3 S1 term face-to-face and online D1~D3

^{*1} O: Required to take

15 WINGS name: WINGS for Life Science and Technology (WINGS-LST)

Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes
Multidisciplinary Lecture Series in Life Science & Technology	Once a week half term 105 min. / 1 lecture	online or face-to-face	D1~D4		English, held on S term. 2 credits. Credit can be given.
World-leading Innovative Lectures in Life Science & Technology	4 times a year, take 4 lectures 2 hours / lecture	online or face-to-face	D1~D4		English, point system. 2 credits. Credit can be given.
WINGS-LST Laboratory Training ① Large Experimental Animal Exercise ② Collaborative projects with industrial companies ③ Global Carrer Development Course ④ Internship at industrial companies ⑤ Designed by student	① Attended 2 lectures out of 4 lectures a year, about half a day for each lecture ② Several times a year, about half a day ③ About haif a day ④ Half a day to several days ⑤ Occasionally	① face-to-face ② online or face-to-face ③ online or face-to-face ④ online or face-to-face ⑤ online or face-to-face	D1~D4		Report submission required. Point system. 2 credits. Credits can be given for one or two courses, depending on the project. For projects that incur expenses, students can participate if the expenses can be covered by the expenses from SPRING or others.
WINGS-LST Seminars ① WINGS Journal Club ② WINGSセミナー(WINGS Seminars)	① Once a month, about 5 times in total, about 1 hour ② Occasionally held, 30 minutes to half a day	online or face-to-face	D1~D4		1 credit. Credit can be given. A point system for each project (a credit is given with 7 points).
WINGS-LST General Meeting / WINGS-LST Colloquium	Twice a year, half day to one day each	online or face-to-face	D1~D4	0	This is a social event for all. No credits will be given; if there is a participation fee for a face-to-face event, you can participate if it can be covered by SPRING or other
WINGS-LST Collaboration Project	half a year	online or face-to-face	D1~D4		No credits will be given. When the WINGS program student is the applicant, the SPRING student can participate as a coapplicant. However, they can only participate as a co-applicant if the cost of the joint research can be covered by SPRING or others.

^{*1} O: Required to take

16 WINGS name: WINGS for Frontiers of Mathematical Sciences and Physics (WINGS-FMSP)

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
Frontiers of Mathematical Sciences and Society II	Autumn semester	online or face-to-face	D1~D3	0		
Frontiers of Mathematical Sciences and Society IV	Autumn semester (Intensive lecture)	online or face-to-face	D1~D3			
Frontiers of Mathematical Sciences and Physics I~X	Summer semester • Autumn semester	online or face-to-face	D1~D3			

^{*1} O: Required to take

17 WINGS name: WINGS Program in Proactive Environmental Studies (WINGS-PES)

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
Overseas Exercise in Proactive Environmental Studies II	Overseas Study for 3-6 months		D1~D3		Follow the course guidelines for the subjects in the Environmental Knowledge Professional Practicum Group (Subject Group C) (https://wings-pes.edu.k.u-tokyo.ac.jp/home-english/subject-list).	
Research Internship for Proactive Environmental Studies I/II	Internship for 3-6 months	online or face-to-face	D1~D3		Follow the course guidelines for the subjects in the Environmental Knowledge Professional Practicum Group (Subject Group C) (https://wings-pes.edu.k.u-tokyo.ac.jp/home-english/subject-list) .	
Transdisciplinary Skills and Theories I/II	Participation in seminars of other lab. 6 months - 1 year	online or face-to-face	D1~D3		Follow the course guidelines for the subjects in the Environmental Knowledge Professional Practicum Group (Subject Group C) (https://wings-pes.edu.k.u-tokyo.ac.jp/home-english/subject-list) .	
Critical Thinking Basics -Select concepts, tools and techniques I	12 lectures in S semester	online or face-to-face	D1~D3			
Critical Thinking Basics -Select concepts, tools and techniques II	12 lectures in A semester	online or face-to-face	D1~D3			
Critical Thinking Skills -Select applications & reflection I	12 lectures in S semester	online or face-to-face	D1~D3			
Critical Thinking Skills -Select applications & reflection II	12 lectures in A semester	online or face-to-face	D1~D3			
Special Lecture on Frontier Science X	12 lectures in S semester	online or face-to-face	D1~D3			
Special Lecture on Frontier Science XI	12 lectures in A semester	online or face-to-face	D1~D3			
Salon of Excellence	Once in 1-2 months	online or face-to-face	D1~D3	0	No credit given.	

^{*1} \bigcirc : Required to take, \triangle : Required to take one of them, \square :Others

18 WINGS name: International Graduate Program of Innovations for Intelligent World

Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes
Intelligent World Lectures, etc.	at any time	online/face-to-face	D1~D3		- Take at least one course before graduation The list of the courses is available on the website of the International Graduate Program of Innovation for Intelligent World (IIW).
Intelligent Society Workshop	around 1 day in total	face-to-face	Newcomers	0	
Orientation for new students	1 hour	online	Newcomers	0	
Elevator pitch workshop	1 day	online	Newcomers	0	
Monthly Meeting	about 2 hours / month	online	D1~D3	0	
Research Poster Session	Half day / year	online/face-to-face	D1~D3	0	
Meeting for Confirmation of Graduation	about 30 minutes	online/face-to-face	D3	0	
Industry-academia collaboration ideathon	at any time	online/face-to-face	D1~D3		
Industry-academia collaboration internship	at any time	online/face-to-face	D1~D3		

^{*1} O: Required to take

19 WINGS name: Quantum and Semiconductor Science & Technology Program (WINGS-QSTEP)

Offered contents						
Content name	days / hours	online or face-to-face	Target grade	Requirement*1	Notes	
Q-STEP seminar	Occasional	online/face-to-face	D1~D3	0		
Multidisciplinary Lecture on Quantum and Semiconductor Science & Technology III	13 lectures	online	D1~D3	0		

^{*1} O: Required to take

20 WINGS name: Global Leadership Program for Social Design and Management (WINGS-GSDM)

(Students are recommended to take one course each year from the categories of \Box 1, \Box 2, and \Box 3. In no particular order.) Offered contents days / hours Target grade Requirement*1 Content name online or face-to-face Notes 2 credits (S semester, Intensive Students are recommended to take the Lecture: Social Design and Global Leadership D1~D3 \square (1) online or face-to-face lecture) course. 2 credits (A semester · Thursday, 5th Lecture: Engineering Competency I - Project Based Learning- \square ② online or face-to-face D1~D3 period) Students are recommended to take either of the courses of \square (2). Lecture: Case Study (Project Based Learning on the Technological 2 credits (A semester · Intensive D1~D3 \square ② online or face-to-face Innovation and the Social Solutions) lecture) 2 credits \square (3) Lecture: Case Study (Social Design and Management) D1~D3 online or face-to-face (Intensive lecture, S semester) 2 credits (All year · Intensive Lecture: Engineering Competency II -Research Internshiponline or face-to-face D1~D3 \square (3) lecture) Students are recommended to take one of the courses of \square 3. International Project (= Application support for the GX Overseas Study D1~D3 \square 3 at any time online or face-to-face Program, etc.) Student Initiative Project (Reference video: https://youtu.be/Sa0gG7hklBl at any time online or face-to-face D1~D3 \square 3