

Interdisciplinary Graduate School of Engineering Sciences

	Course Title	Instructor	Term	Term *intensive courses only	Language	Course Day	Course Period	Course Day& Course Period *Intensive courses only	Campus	Building	Classroom Number	Credits	Course Structure	Course Requirement	Remarks	Syllabus
1	Basic Optical Device System	Hamamoto	Spring Quarter (first quarter : Apr.-Jun.)		English	Mon.	Period 1		Chikushi	Bldg. D	102	1 credit	Lecture	Priority to IGSES students.		
2	Thermal Energy Utilization System I	Miyazaki	Spring Quarter (first quarter : Apr.-Jun.)		English	Mon.	Period 1		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
3	Advanced Topics of Energy, Environment and Materials I	Wang	First Semester (Apr-Sep)		English	Mon.	Period 2		Chikushi	Bldg. D	106	2 credits	Lecture	Priority to IGSES students.		
4	Communication Skills in English	Arina	First Semester (Apr-Sep)		English	Mon.	Period 3		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
5	Advanced Topics of Energy, Environment and Materials II	Mitsuhara	First Semester (Apr-Sep)		English	Mon.	Period 3		Chikushi	C-cube	301, 303	2 credits	Lecture	Priority to IGSES students.		
6	Communication Skills in English	Arina	First Semester (Apr-Sep)		English	Mon.	Period 4		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
7	Basic General Chemistry I	Furuno	Spring Quarter (first quarter : Apr.-Jun.)		English	Mon.	Period 5		Chikushi	Bldg. E	104	1 credit	Lecture	Priority to IGSES students.		
8	Advanced Semiconductor Integration Circuit I	Sadoh	First Semester (Apr-Sep)		English	Tue.	Period 1		Chikushi	Open Innovation Bldg.	Seminar room	2 credits	Lecture	Priority to IGSES students.		
9	Advanced Engineering Thermodynamics I	Kyaw Thu	Spring Quarter (first quarter : Apr.-Jun.)		English	Tue.	Period 1		Chikushi	Soriko-2	-	1 credit	Lecture	Priority to IGSES students.		
10	Advanced Topics in Nanomaterial structures and Devices	Abdelrahman	Spring Quarter (first quarter : Apr.-Jun.)		English	Tue.	Period 2		Chikushi	Bldg. D	106	1 credit	Lecture	Priority to IGSES students.		
11	Essential Points of Interdisciplinary Engineering Sciences	Matsukiyo	Spring Quarter (first quarter : Apr.-Jun.)		English	Tue.	Period 5		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students.		
12	Advanced Optical Device System	Hattori	First Semester (Apr-Sep)		English	Wed.	Period 3		Chikushi	Open Innovation Bldg.	Seminar room	2 credits	Lecture	Priority to IGSES students.		
13	Advanced IoT Devices	Wang	First Semester (Apr-Sep)		English	Wed.	Period 4		Chikushi	Soriko-2	-	2 credits	Lecture	Priority to IGSES students.		
14	Communication Skills in English	Arina	First Semester (Apr-Sep)		English	Wed.	Period 4		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
15	Data Analysis	Moon	Spring Quarter (first quarter : Apr.-Jun.)		English	Thu.	Period 2		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students.		
16	Basic Organic Chemistry I	Furuno	Spring Quarter (first quarter : Apr.-Jun.)		English	Thu.	Period 4		Chikushi	Bldg. E	106	1 credit	Lecture	Priority to IGSES students.		
17	Introduction to Machine Learning Applications	Hasegawa	First Semester (Apr-Sep)		English	Thu.	Period 4		Chikushi	Online	-	2 credits	Lecture	Priority to IGSES students.		
18	Professional English Communication	Teik	First Semester (Apr-Sep)		English	Thu.	Period 4		Chikushi	Bldg. E	102	2 credits	Lecture	Priority to IGSES students.		
19	Sustainable Development and Climate Change Mitigation	Farzaneh	Spring Quarter (first quarter : Apr.-Jun.)		English	Thu.	Period 5		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
20	Modeling and Simulation	Ikegaya	Spring Quarter (first quarter : Apr.-Jun.)		English	Fri.	Period 1-2		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		

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21	Communication Skills in English	Kevin	First Semester (Apr-Sep)		English	Fri.	Period 4		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
22	Professional English Communication	Nick	First Semester (Apr-Sep)		English	Fri.	Period 4		Chikushi	Bldg. E	102	2 credits	Lecture	Priority to IGSES students.		
23	Communication Skills in English	Kevin	First Semester (Apr-Sep)		English	Fri.	Period 5		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
24	Thermal Energy Utilization Systems II	Miyazaki	Summer Quarter (second quarter : Jun.-Aug.)		English	Mon.	Period 1		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
25	Basic Simulation Physics	Kasuya	Summer Quarter (second quarter : Jun.-Aug.)		English	Mon.	Period 3		Chikushi	Bldg. H	205	1 credit	Lecture	Priority to IGSES students.		
26	Basic General Chemistry II	Furuno	Summer Quarter (second quarter : Jun.-Aug.)		English	Mon.	Period 5		Chikushi	Soriko-2	-	1 credit	Lecture	Priority to IGSES students.		
27	Advanced Engineering Thermodynamics II	Kyaw Thu	Summer Quarter (second quarter : Jun.-Aug.)		English	Tue.	Period 1		Chikushi	Soriko-2	-	1 credit	Lecture	Priority to IGSES students.		
28	Space Plasma Physics	Matsukiyo	Summer Quarter (second quarter : Jun.-Aug.)		English	Thu.	Period 1-2		Chikushi	Bldg. G	206	2 credits	Lecture	Priority to IGSES students.		
29	Mathematical Analysis of Environmental Systems	Kai	Summer Quarter (second quarter : Jun.-Aug.)		English	Thu.	Period 1-2		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
30	Industrial Structure of Japan	Ichihara	Summer Quarter (second quarter : Jun.-Aug.)		English	Thu.	Period 3		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students. Doctoral students only.	Plus, mandatory to participate in Fields Trip (The date will be announced later)	
31	Basic Organic Chemistry II	Furuno	Summer Quarter (second quarter : Jun.-Aug.)		English	Thu.	Period 4		Chikushi	Bldg. E	106	1 credit	Lecture	Priority to IGSES students.		
32	IoT Device Basics	Yoshitake	Summer Quarter (second quarter : Jun.-Aug.)		English	Fri.	Period 1		Chikushi	Soriko-1	-	1 credit	Lecture	Priority to IGSES students.		
33	Microclimate and Built Environment I	Hagishima	Fall Quarter (third quarter : Oct.-Nov.)		English	Mon.	Period 1		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
34	Advanced Topics of Energy, Environment and Materials I	Wang	Second Semester (Oct-Mar)		English	Mon.	Period 2		Chikushi	Soriko-2	-	2 credits	Lecture	Priority to IGSES students.		
35	Climate Modeling I	Michibata	Fall Quarter (third quarter : Oct.-Nov.)		English	Mon.	Period 3		Chikushi	RIAM	601	1 credit	Lecture	Priority to IGSES students.		
36	Introductory Writing Course in Basic English	Arina	Second Semester (Oct-Mar)		English	Mon.	Period 3		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
37	Advanced Topics of Energy, Environment and Materials II	Mitsuahara	Second Semester (Oct-Mar)		English	Mon.	Period 3		Chikushi	C-cube	301, 303	2 credits	Lecture	Priority to IGSES students.		
38	Introductory Writing Course in Advanced English	Arina	Second Semester (Oct-Mar)		English	Mon.	Period 4		Chikushi	Soriko-1	-	2 credits	Lecture	Priority to IGSES students.		
39	Fundamentals on Green Engineering	Hagishima	Second Semester (Oct-Mar)		English	Mon.	Period 4		Chikushi	Bldg. G	206	2 credits	Lecture	Priority to IGSES students.		
40	Basic General Chemistry I	Furuno	Fall Quarter (third quarter : Oct.-Nov.)		English	Mon.	Period 5		Chikushi	Soriko-1	-	1 credit	Lecture	Priority to IGSES students.		
41	Introduction to Computational Fluid Dynamics	Hu	Fall Quarter (third quarter : Oct.-Nov.)		English	Tue.	Period 2		Chikushi	RIAM	301	2 credits	Lecture	Priority to IGSES students.	Class will be conducted on 2nd Period on Friday as well.	

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42	Advanced Semiconductor Integration Circuit II	K. Yamada	Second Semester (Oct-Mar)		English	Tue.	Period 3		Chikushi	Open Innovation Bldg.	Seminar room	2 credits	Lecture	Priority to IGSES students.		
43	Essential Points of Interdisciplinary Engineering Sciences	Matsukiyo	Fall Quarter (third quarter : Oct.-Nov.)		English	Tue.	Period 5		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students.		
44	Fundamentals of Opto-Electronics	Hamamoto	Second Semester (Oct-Mar)		English	Wed.	Period 1		Chikushi	Bldg. D	102	2 credits	Lecture	Priority to IGSES students.		
45	Physical Property of Polymer Material II	Spring	Second Semester (Oct-Mar)		English	Wed.	Period 2		Chikushi	Bldg. E	106	2 credits	Lecture	Priority to IGSES students.		
46	Introduction to Plasma Application	Yagyū	Fall Quarter (third quarter : Oct.-Nov.)		English	Wed.	Period 2		Chikushi	Bldg. H	205	1 credit	Lecture	Priority to IGSES students.		
47	Water Resources and Environmental Engineering	Osama	Fall Quarter (third quarter : Oct.-Nov.)		English	Wed.	Period 3-4		Chikushi	Bldg. G	308	2 credits	Lecture	Priority to IGSES students.		
48	Nanofabrication and Nanogrowth I	Y. Harada	Fall Quarter (third quarter : Oct.-Nov.)		English	Thu.	Period 2		Chikushi	Soriko-2	-	1 credit	Lecture	Priority to IGSES students.		
49	Basic Organic Chemistry I	Furuno	Fall Quarter (third quarter : Oct.-Nov.)		English	Thu.	Period 4		Chikushi	Bldg. E	106	1 credit	Lecture	Priority to IGSES students.		
50	Fundamentals of Japanese Communication	Koyama	Second Semester (Oct-Mar)		English Japanese	Thu.	Period 5		Chikushi	C-cube	301, 303	1 credit	Lecture	Priority to IGSES students. Doctoral students only.		
51	Communication Skills in Japanese	Koyama	Second Semester (Oct-Mar)		English Japanese	Thu.	Period 5		Chikushi	C-cube	301, 303	1 credit	Lecture	Priority to IGSES students. Master's students only.		
52	Fusion Reactor System Engineering	Katayama	Fall Quarter (third quarter : Oct.-Nov.)		English	Fri.	Period 2		Chikushi	Bldg. H	205	1 credit	Lecture	Priority to IGSES students.		
53	Energy Systems Analysis I	Farzaneh	Fall Quarter (third quarter : Oct.-Nov.)		English	Fri.	Period 3		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
54	Practical Research Skills Development	Y. Harada	Fall Quarter (third quarter : Oct.-Nov.)		English	Fri.	Period 4-5		Chikushi	C-cube	301, 303	2 credits	Lecture	Priority to IGSES students.		
55	Professional English Communication	Nick	Second Semester (Oct-Mar)		English	Fri.	Period 4		Chikushi	Bldg. E	102	2 credits	Lecture	Priority to IGSES students.		
56	Microclimate and Built Environment II	Hagishima	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Mon.	Period 1		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
57	Climate Modeling II	Michibata	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Mon.	Period 3		Chikushi	RIAM	601	1 credit	Lecture	Priority to IGSES students.		
58	Basic General Chemistry II	Furuno	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Mon.	Period 5		Chikushi	Soriko-1	-	1 credit	Lecture	Priority to IGSES students.		
59	Nanofabrication and Nanogrowth II	Yip	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Wed.	Period 2		Chikushi	C-cube	301, 303	1 credit	Lecture	Priority to IGSES students.		
60	Basic Organic Chemistry II	Furuno	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Thu.	Period 4		Chikushi	Bldg. E	106	1 credit	Lecture	Priority to IGSES students.		
61	Energy Systems Analysis II	Farzaneh	Winter Quarter (fourth quarter : Dec.-Feb.)		English	Fri.	Period 3		Chikushi	Bldg. G	206	1 credit	Lecture	Priority to IGSES students.		
62	Industrial Systems	Narikawa	Intensive Course	Second Semester (Oct-Mar)	English	TBA	Other	TBA	Chikushi	TBA	TBA	1 credit	Lecture	Priority to IGSES students. Master's students only.		

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63	Research Seminar on Energy and Environmental Science and Engineering I	Wang	Intensive Course	First Semester (Apr-Sep), Second Semester (Oct-Mar)	English	Thu.	Period 4-5		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students.		
64	Research Seminar on Energy and Environmental Science and Engineering II	Wang	Intensive Course	First Semester (Apr-Sep), Second Semester (Oct-Mar)	English	Thu.	Period 4-5		Chikushi	Online	-	1 credit	Lecture	Priority to IGSES students.		
65	Structural Ceramics Materials	Jang	Intensive Course	First Semester (Apr-Sep)	English	TBA	Other	TBA	Chikushi	TBA	TBA	1 credit	Lecture	Priority to IGSES students.		
66	Special Lecture on Plasma and Quantum Science and Engineering I	Peterson	Intensive Course	First Semester (Apr-Sep)	English	TBA	Other	TBA	Chikushi	Bldg. H	205	1 credit	Lecture	Priority to IGSES students.		
67	Exercise of Project Management	Narikawa	Intensive Course	Second Semester (Oct-Mar)	English	TBA	Other	TBA	Chikushi	TBA	TBA	1 credit	Lecture	Priority to IGSES students. Doctoral students only.		
68	Conference Design & Organizing	Osama	Full Year		English	Thu.	Period 2		Chikushi	Bldg. G	308	1 credit	Other	Priority to IGSES students.		