								未更新
Course num	nber	U-ENG24 22	2102 LJ74					
Course title (and course title in English)	⊑業数≐ Inginee	学 C ring Mathemati	cs C		Instructor' name, job and depart of affiliatio	s title, ment n	Graduate Scl Professor,OC Graduate Scl Professor,OC Graduate Scl Professor,OC Disaster Prev Professor,NI	hool of Engineering DSAKI MAKOTO hool of Engineering GURA DAISUKE hool of Engineering DTANI MAKOTO vention Research Institute SHIJIMA KAZUYOSHI
Target year	2nd ye	ear students or above	Number credits	r of	2	Yea	r/semesters	2024/Second semester
Days and periods	Wed.	3 Class	s style	Lecture (Face-t	o-face cou	irse)	Language of instruction	Japanese
[Overview a	and pu	rpose of the	course]					
[Course obj	jective	es]						
[Course sch	nedule	and content	s]					
,5times, ,1time, ,5times, ,3times, ,1time,								
[Course req	quirem	ients]						
None								
[Evaluation	metho	ods and polic	y]					
[Textbooks]]							
[References	s, etc.]							
(Referenc	e boo;	∕ks)						
[Study outs	ide of	class (prepa	ration and	d revie	w)]			
(Other info	rmatio	on (office hou	rs, etc.))					
*Please visit k	KULAS	SIS to find out a	bout office	hours.				

Course nu	ımb	er U-EN	G20 4	2105 LJ77						
Course title (and course title in English)	⊥± Enş	学倫理 gineering Ethi	cs			Inst nan and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sch Professor,ICI Graduate Sch Professor,NII Graduate Sch Professor,Shu Graduate Sch Senior Lecture Graduate Sch Professor,ISI Center for the Promotion Program-Specific A Graduate Sch Professor,SU Graduate Sch Professor,UM Office of Society-Ac NAKAGAWA Graduate Sch Professor,OC Graduate Sch Professor,OC Graduate Sch Professor,III Graduate Sch Professor,SU Graduate Sch	nool of Management HIKAWA YUTAKA nool of Informatics ITSU KIICHI nool of Engineering u Seki nool of Engineering r,HIGASHIGUCHI KENJI nool of Letters EDA TETSUJI of Interdisciplinary Education and Research ssistant Professor,SHIMIZU YUYA nool of Engineering GIYASU KAZUNORI nool of Engineering AHORI HIROSHI nool of Engineering AHORI HIROSHI nool of Engineering SAKI MAKOTO nool of Engineering SAKI MAKOTO nool of Engineering SHIWAKI SHINJI nool of Engineering SAKI JUNICHI nool of Engineering SAKI JUNICHI nool of Engineering SAKI JUNICHI nool of Engineering
Target yea	r	4th year students	or above	Number credits	r of		2	Year/	/semesters	2024/First semester
Days and periods	,	Thu.3	Lecture (Face-t	o-fa	ce cour	se)	Language of instruction	Japanese		
[Overview	an	and purpose of the course]								
Instructors f	ors from various faculties give lectures about ethics in the								ch fields.	5 and scientists. 工学倫理 (2)

[Course objectives]

The goal of this class is to understand engineering ethics, and to develop the ability to judge by yourself when you encounter ethical issues.

[Course schedule and contents]

Lectures on ethics in various fields of engineering will be given by faculty members of the Graduate School of Engineering or other graduate schools. (Details will be provided after they are determined.) This course is a media course in which all lectures will be given online via Zoom.

[Course requirements]

None

[Evaluation methods and policy]

Class participation and reports.

[Textbooks]

Lecture materials will be distributed.

[References, etc.]

(Reference books)

[®]Omnibus Engineering Ethics (Kyoritsu Shuppan Co., Ltd.) ISBN:978-4320071964

[®] Practical Engineering Ethics - A Short Course, New Edition J (Kagaku-Dojin Publishing Company, INC) ISBN:9784759811551

[©] Engineering Ethics (Revised Edition) (CORONA PUBLISHING CO.,LTD.) ISBN:978-4-339-07798-8

[®]World of Engineering Ethics (3rd Edition)^a (Morikita Publishing Co., Ltd.) ISBN:978-4-627-97303-9

Continue to 工学倫理(3)

[Study outside of class (preparation and review)]

The assignment of the report will be given for each lesson.

(Other information (office hours, etc.))

The class order is subject to change.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

工学倫理**(3)**

										不丈羽	
Course nui	mber	U-EN	G20 12	2108 LJ77							
Course title (and course title in English)	工学. introd	序論 duction to E	nginee	ring		Inst nan and of a	ructor's ne, job tit I departm ffiliation	ile, ient	Graduate Sch Professor,Sh Graduate Sch Professor,KA Graduate Sch Professor,KA Graduate Sch Professor,TAD Office of Society-Ad Professor,TAD Office of Society-Ad Professor,SU Graduate Sch Professor,SU Graduate Sch Senior Lecture Senior Lecture	nool of Engineering u Seki nool of Informatics ASHIMA HISASHI nool of Engineering ANKI KIYOKO nool of Engineering KAHASHI YOSHIKAZU cademia Collaboration for Innovation c Professor,KITANI TETSUO nool of Engineering ZUKI MOTOFUMI nool of Energy Science AKAMURA YUUJI nool of Engineering er,ISHITSUKA KAZUYA nool of Engineering er,KOWHAKUL, Wasana	
Target year	arget year lst year students or above Number of credits 1 Year/semesters 2024/Intensive, First semester										
Days and periods	In	Itensive	Class	s style	Lecture (Face-t	o-fa	ice cours	se)	Language of instruction	Japanese	
[Overview	and	purpose o	of the	course]					•		
Engineering i development First, we offe expected to h Then, we offe future problem are expected to	ngineering is to inquire after truth, to develop useful technologies, and to establish ways how to give back evelopment results of technology to the society. irst, we offer special lectures regarding the basic knowledge that students in faculty of engineering are xpected to have. 'hen, we offer a series of intensive lectures about how engineering can suggest solutions of current and iture problems of our society, the value of technology, and the responsibilities that researchers and engineers re expected to fulfill.										
[Course ob	Course objectives]										
Students learn	n bas	ic matters s	uch as	attitudes an	nd respo	nsih	oilities th	nev are	e expected to t	take as a member of	

Students learn basic matters such as attitudes and responsibilities they are expected to take as a member of social community. They find value in studying engineering and become to consider what they do in future by understanding technology can suggest solutions of problems our society is facing, especially problems about safety and security.

[Course schedule and contents]

Special lectures, 1 time, About basic knowledge and attitude as students who start to learn engineering, and the role of engineering in society.

Intensive lectures,6times, A series of lectures offered by special lecturers playing on global stages of science and technology. Lectures are for understanding the role that technology is playing in modern society, for reconfirming importance to study engineering and to work as a researcher and engineer in society, and are to be opportunities to consider own future path. Essays are assigned in every lecture to summarize the lecture content and opinions of other students.

Schedule of the lectures are announced later.

Continue to 工学序論(2)

土田站

工学序論**(2)**

[Course requirements]

None

[Evaluation methods and policy]

Evaluation will be based on participation and essays assigned in every intensive lecture.

[Textbooks]

Specify if necessary.

[References, etc.]

(Reference books)

Specify if necessary.

[Study outside of class (preparation and review)]

Specify if necessary.

(Other information (office hours, etc.))

Information about lecturers and contents of lectures are announced on electric bulletin boards. Please confirm to your department office that the credit of this course is admitted to graduation requirements.

										未更新	
Course nu	mber	U-EN	G20 3	2402 SE77							
Course title (and course title in English)	工学剖 Faculty	『国際イン of Engineer	ターン ing Inte	ンシップ1 ernational Inte	ernship 1	Inst nan and of a	tructor's ne, job ti I departn offiliation	tle, nent	Graduate Sch Senior Lectur Graduate Sch Professor,HO	hool of Engineering er,KOWHAKUL, Wasana hool of Engineering ONDA MITSURU	
Target year	3rd	year students	or above	Number credits	r of		1	Year	/semesters	2024/Intensive, year-round	
Days and periods	Inte	ensive	Clas	s style	Semina (Face-t	r :o-fa	ice cour	se)	Language of instruction	Japanese and English	
[Overview	and p	ourpose o	of the	course]							
Acquisition of hosted by the	of inter Unive	mational sk ersity, the l	tills w Facult	ith the train y of Engine	ing of fo ering, or	oreig r the	gn langu e underg	age th raduat	rough the int e school the a	ernship programs applicant belongs to.	
[Course ob	ojectiv	ves]									
The acquisition hosted by the	acquisition of international skills with the training of foreign language through the to internship programs ted by the University is the major expectation to the students.										
[Course so	hedu	le and co	ntent	ts]							
- Overseas Inte	ernship	o,1time,Th	e conte	ents to be a	cquired	shou	uld be d	escribe	ed in the broc	hure of each internship	
program. Final Present	ation, 1	ltime,A pro	esenta	tion by the	student	is re	quired f	followe	ed by discuss	ion among participants.	
[Course re	quire	ments]									
Described in language skil	the ap ls for t	plication b the particip	ooklet ation.	for each in	ternship	o pro	ogram. 7	The reg	gistrant is req	uested to have enough	
[Evaluation	n met	hods and	l polic	cy]							
Marit rating i responsible to credit is not i the Global Le determined d	s done o ident nclude eadersl ependi	e based on tify if the c ed in the ur hip Educat ing on the	the pro redit e idergra ion Ce conten	esentation of earned by the aduate schorenter as a openter as a opente	or report is subje ol in wh otional c luration	s aft ct to nich redi of t	ter each be incl the part t. The n he progr	interns uded a icipant umber ram th	ship program s mandatory t belongs to, t of credits, ei at the particip	Each Department ones or not. If the the credit is granted by ther 1 or 2, will be pant has participated in.	
[Textbooks	5]										
								C	Continue to 工学部	国際インターンシップ1 (2)	

工学部国際インターンシップ1**(2)**

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

It is required for students to check if the internship program to participate in could be evaluated as part of mandatory credits or not and could earn how many credits before the participation to the undergraduate school or educational program the student in enrolled. If the credit could not be treated as mandatory ones, get in touch with the Global Leadership Engineering Education Center.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course that includes off-campus training classes.

(2) Details of instructors ' practical work experience related to the course

											未更新
Course nu	ımbe	er U	J-ENC	G20 22	2403 SJ77						
Course title (and course title in English)	グロ- Global	ーバル・リ Leadership S	ーダーシ Seminar I	ィップセ (Study fo	ミナー I (企業言 or methodology in	周査研究) a company)	Inst nan and of a	ructor's ne, job tit I departm Iffiliation	tle, nent	Graduate Scl Senior Lectu	nool of Engineering rer,hirai yoshikazu
Target yea	r	2nd year st	tudents o	or above	Number credits	of		1	Year	/semesters	2024/Intensive, year-round
Days and periods	Ι	ntensive	e	Class	s style	Semina (Face-t	r o-fa	ice cour	se)	Language of instruction	Japanese
[Overview	and	d purpo	ose o	f the	course]						
and find solu training on t prediction and their compre- Leadership S	heir heir hd co hens Semi	s for explaborato s for explaborato onceptio sion and nar II is	pandir pry, stu n abili expla opene	ng the idents ity by nation ed in t	ir own tech investigate group work capability he second s	the me the me the s. After As ext semester	thoc thoc the the	the inter lology c investi ed exers	f team gation, ice sul	al market. The organization of this content of the	a, etc. make proposals aroughout hands-on a, proposal, market expected to improve ourse, the Global
[Course o	Course objectives]										
The goal of proposal and work.	this o l exp	course is ansion o	s to im on the	interr	e student's c national mar	ompreh rket invo	ensi esiti	on and gating v	explan vorldw	ation capabil ride leading c	ity for processes of ompanies by group
[Course s	che	dule an	nd co	ntent	s]						
Week 1, Gui Week 2-13, Week 14, Pr Week 15, Fi	dano Hano e-pro nal p	ce ds-on tra esentatio presentat	aining on tion								
[Course re	equi	rement	ts]								
How to regist class.	ster v	will be a	nnoun	iced la	ater. Studen	ts who	wan	t to join	this co	ourse is reque	ested to attend the first
[Evaluatio	n m	ethods	s and	polic	cy]						
Students are	Students are prohibited to skip hands-on training. Evaluation will be based on presentation.										
[Textbook	s]										
Not used											
[Reference	es, e	etc.]									
(Referen	nce	books)								
									— — _C	ontinue to グローバル・リ	ーダーシップセミナー I (企業調査研究) (2)

グローバル・リーダーシップセミナー I (企業調査研究) (2)

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/ugrad

[Study outside of class (preparation and review)]

Investigating companies in advance. Analyzing the result from hands-on training. Preparing presentation.

(Other information (office hours, etc.))

How to register will be announced later. Students who want to join this course is requested to attend the first class. Students are prohibited to skip hands-on training. Evaluation will be based on presentation.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

An omnibus course delivered by invited lecturers and guest speakers from different companies, etc.

(2) Details of instructors ' practical work experience related to the course

											未更新
Course nu	umbe	er U	J-ENG2	0 32	502 SE77						
Course title (and course title in English)	工芎 Facu	≥部国際 lty of Eng	インタ gineering	ーン Interi	シップ2 national Inte	rnship 2	Inst nan and of a	ructor's ne, job tit I departm iffiliation	ile, ient	Graduate Scl Senior Lectur Graduate Scl Professor,HC	nool of Engineering er,KOWHAKUL, Wasana nool of Engineering DNDA MITSURU
Target yea	r	3rd year stu	udents or ab	oove	Number credits	of		2	Year	/semesters	2024/Intensive, year-round
Days and periods]	Intensive	e Cla	ass	style	Semina (Face-t	r o-fa	ice cour	se)	Language of instruction	Japanese and English
[Overview	w and purpose of the course]										
Acqusition of international	sition of international skills with wth the training of foreign language through the participation to the national internship programs held by the Faculty of Engineering or its subsidiary bodies.										
[Course o	Course objectives]										
The acquisit programs is	e acquisition of international and foreign language skills through the participation to international ograms is expected. Detailed objectives of the participation should be identified by each program.										
[Course s	che	dule an	d conte	ents	6]						
Overseas Int program. Final Presen	terns	hip,1tim	A prese	onter	nts to be ac	equired student i	shou is re	ıld be do	escribe ollowe	ed in the broc	hure of each internship ion among participants.
[Course re	equi	rement	:s]								
Described in language ski	n the ills fo	applicat or the pa	ion book articipation	klet f on.	for each in	ternship	o pro	ogram. Т	The reg	gistrant is requ	lested to have enough
[Evaluatio	n m	ethods	and po	olicy	y]						
Marit rating responsible credit is not the Global L determined o	Marit rating is done based on the presentation or reports after each internship program. Each D epartment esponsible to identify if the credit earned by this subject to be included as mandatory ones or not. If the credit is not included in the undergraduate school in which the participant belongs to, the credit is granted by he Global Leadership Education Center as a optional credit. The number of credits, either 1 or 2, will be letermined depending on the contents and the duration of the program that the participant has participated in.										
[Textbook	s]										
				_							

Continue to 工学部国際インターンシップ2(2)

工学部国際インターンシップ2**(2)**

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

It is required for students to check if the internship program to participate in could be evaluated as part of mandatory credits or not and could earn how many credits before the participation to the undergraduate school or educational program the student in enrolled. If the credit could not be treated as mandatory ones, get in touch with the Global Leadership Engineering Education Center.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course that includes off-campus training classes.

(2) Details of instructors ' practical work experience related to the course

Course title (and course Brolls) fD=f(j,)=f=>yyft2f=1:(f/A=>y>tet0 \$\$\frac{2}{2}\$ (Intensive Instructor's (Intensive Instructor's (Intensive Graduate School of Engineering Professor.HONDA MITSURU Graduate School of Engineering Senior Lecture.hirai yoshikazu Target year 2nd year students or above Number of credits 1 Year/semesters 2024/intensive. Second semester Days and periods Intensive Class style Seminar (receto-face course) Jupgedistude Japanese Incensive Class style Seminar (receto-face course) Jupgedistude Japanese Incensive Class style Seminar (receto-face course) Jupgedistude Japanese IOverview and purpose of the course] Intensive Class style Seminar (sectors and university life, by creating new business plass through group work. While individual activities are allowed, group activities are encouraged. [Features of this Course] I. Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions. 2. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals. 3. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other opportu	Course numb	er U	J-ENG20 22	2503 SJ77									
Target year Dal year students or abov Number of credits 1 Year/semesters D024/Intensive, Second emester Days and periods Intensive Class style Seminar (Face-to-face course) Imaged institute Japanese Intensive Class style Seminar (Face-to-face course) Imaged institute Japanese Intensive Class style Seminar (Face-to-face course) Imaged institute Japanese Intensive For expective fields of specialization" and the "ability to identify issues on their own and present a path to resolution." In this course, you will develop the latter capability, which is difficult to acquire through regular lectures and university life, by creating new business plans through group work. While individual activities are allowed, group activities are encouraged. [Features of this Course] I. Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions. 2. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals. 3. Presentation Opportunities: Outstanding proporoals may be displayed at the Katsura Library, among other opportunities for commercialization. [Mentors] • Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Instititute): A leading Japanese innovator, known for inven	Course title (and course ゲロ・ title in English)	rse title course in ish)											
Days and periodsIntensiveClass styleSeminar (Face-to-face course)Lagget instantJapaneseIdverview and purpose of the course]The capabilities that society expects from Kyoto University students primarily include "deep knowledge in their respective fields of specialization" and the "ability to identify issues on their own and present a path to resolution." In this course, you will develop the latter capability, which is difficult to acquire through regular lectures and university life, by creating new business plans through group work. While individual activities are allowed, group activities are encouraged.(Features of this Course]1. Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions.A developing project proposals.2. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals.3. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other opportunities for commercialization.[Mentors] - Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hushod-lab.ristumeia.cjp/https://www.stem.ori.pa/about/research/prishimoto- Kentaro Kaneko, Professor (Risumeikan University, Resear	Target year	2nd year stu	udents or above	Number credits	of	1	Year/	semesters	2024/Intensive, Second semester				
 [Overview and purpose of the course] The capabilities that society expects from Kyoto University students primarily include "deep knowledge in their respective fields of specialization" and the "ability to identify issues on their own and present a path to resolution." In this course, you will develop the latter capability, which is difficult to acquire through regular lectures and university life, by creating new business plans through group work. While individual activities are allowed, group activities are encouraged. [Features of this Course] 1. Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions. 2. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals. 3. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other opportunities for commercialization. [Mentors] - Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hillslife.jp/learning/2018/05/06/new-perspective6/ - Seiichi Nishimoto, Honorary Professor (Chairman of the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto and the growth of ventures and SMEs. https://www.astem.or.jp/about/researcher/nishimoto - Kentaro Kaneko, Professor (Ritsumeikan University, Research Organization of Science and Technology): Co-founder of FLOSFIA, continuously innovating n	Days and periods	Intensive	e Class	style	Seminar (Face-to-	face cour	se)	Language of instruction	Japanese				
The capabilities that society expects from Kyoto University students primarily include "deep knowledge in their respective fields of specialization" and the "ability to identify issues on their own and present a path to resolution." In this course, you will develop the latter capability, which is difficult to acquire through regular lectures and university life, by creating new business plans through group work. While individual activities are allowed, group activities are encouraged. [Features of this Course] 1. Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions. 2. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals. 3. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other opportunities for commercialization. [Mentors] - Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hillslife.jp/learning/2018/05/06/new-perspective6/ - Seiichi Nishimoto, Honorary Professor (Chairman of the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto Advanced Technology Research Institute): https://www.astem.or.jp/about/researcher/nishimoto - Kentaro Kaneko, Professor (Ritsumeikan University, Research Organization of Science and technology): Co-founder of FLOSFIA, continuously innovating new semiconductor materials. https://www.astem.or.jp/about/researcher/nishimot - Kentaro Kaneko, Professor (Manager, Sony Co	[Overview an	view and purpose of the course]											
 Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, students will engage in setting challenges and planning solutions. Activity Budget: A budget will be provided for market research, prototype production, and software development necessary for developing project proposals. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other opportunities for commercialization. [Mentors] Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hillslife.jp/learning/2018/05/06/new-perspective6/ Seiichi Nishimoto, Honorary Professor (Chairman of the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto area and the growth of ventures and SMEs. https://www.astem.or.jp/about/researcher/nishimoto Kentaro Kaneko, Professor (Ritsumeikan University, Research Organization of Science and Technology): Co-founder of FLOSFIA, continuously innovating new semiconductor materials. https://www.sony.com/ja/SonyInfo/Jobs/recruit/business/sap/tsushima.html Hideki Aoyama, Principal Engineer, Panasonic HD: Developer of the visible light communication technology LinkRay(TM) and vice-chairman for the international standardization of the IEEE802.15.7 communication standard. https://hidekia.github.io/ 	The capabilities their respective resolution." In t lectures and uni are allowed, gro	that socie fields of s his course versity lif oup activit	ety expects specialization e, you will of fe, by creation ties are enco	from Kyoto on" and the levelop the ng new bus ouraged.	ability to ability to atter cap biness plan	ity studen o identify pability, w ns through	ts prima issues o hich is group	arily include on their own difficult to a work. While	and present a path to cquire through regular individual activities				
 [Mentors] Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hillslife.jp/learning/2018/05/06/new-perspective6/ Seiichi Nishimoto, Honorary Professor (Chairman of the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto area and the growth of ventures and SMEs. https://www.astem.or.jp/about/researcher/nishimoto Kentaro Kaneko, Professor (Ritsumeikan University, Research Organization of Science and Technology): Co-founder of FLOSFIA, continuously innovating new semiconductor materials. https://kaneko-lab.ritsumei.ac.jp/ Teppei Tsushima, Chief Section Manager, Sony Corporation, Mobile Communications Business Division, wena Business Room: Founder of Sony's smartwatch business, wena. https://www.sony.com/ja/SonyInfo/Jobs/recruit/business/sap/tsushima.html Hideki Aoyama, Principal Engineer, Panasonic HD: Developer of the visible light communication technology LinkRay(TM) and vice-chairman for the international standardization of the IEEE802.15.7 communication standard. 	 Distinguished students will en Activity Budg development ne Presentation opportunities for 	 ⁷eatures of this Course] Distinguished Instructors: Under the mentoring of renowned innovators active in the business world, udents will engage in setting challenges and planning solutions. Activity Budget: A budget will be provided for market research, prototype production, and software evelopment necessary for developing project proposals. Presentation Opportunities: Outstanding proposals may be displayed at the Katsura Library, among other poportunities for commercialization. 											
- Tsutomu Mukai, Senior Manager, Panasonic HD: Promotes open innovation with venture companies in Israel.	[Mentors] - Mitsuaki Oshi Director of ESL stabilization for Order of the Ris https://hillslife.j - Seiichi Nishim Supports the de https://www.ast - Kentaro Kanel Science and Tec https://kaneko-l - Teppei Tsushi wena Business I https://www.son - Hideki Aoyam technology Linl communication https://hidekia.g - Tsutomu Muk Israel.	[Mentors] - Mitsuaki Oshima, Special Appointment Professor (Honorary Technical Supervisor at Panasonic HD, Director of ESL Research Institute): A leading Japanese innovator, known for inventions like image stabilization for cameras and 5G communication technologies. Recipient of the Purple Ribbon Medal and the Order of the Rising Sun, Gold Rays with Rosette. https://hillslife.jp/learning/2018/05/06/new-perspective6/ - Seiichi Nishimoto, Honorary Professor (Chairman of the Kyoto Advanced Technology Research Institute): Supports the development of science and technology in the Kyoto area and the growth of ventures and SMEs. https://www.astem.or.jp/about/researcher/nishimoto - Kentaro Kaneko, Professor (Ritsumeikan University, Research Organization of Science and Technology): Co-founder of FLOSFIA, continuously innovating new semiconductor materials. https://kaneko-lab.ritsumei.ac.jp/ - Teppei Tsushima, Chief Section Manager, Sony Corporation, Mobile Communications Business Division, wena Business Room: Founder of Sony's smartwatch business, wena. https://www.sony.com/ja/SonyInfo/Jobs/recruit/business/sap/tsushima.html - Hideki Aoyama, Principal Engineer, Panasonic HD: Developer of the visible light communication technology LinkRay(TM) and vice-chairman for the international standardization of the IEEE802.15.7 communication standard. https://hidekia.github.io/ - Tsutomu Mukai, Senior Manager, Panasonic HD: Promotes open innovation with venture companies in											

グローバル・リーダーシップセミナー II (イノベーションとその事業化)(2)

Professor Mitsuaki Oshima is one of Japan's "Top 10 Representative Inventors," known for inventing and developing fundamental patents in technologies such as camera image stabilization in iPhones and high-speed and ultra-low latency communication for 5G mobile phones. Additionally, he invented multi-disciplinary technologies like anti-piracy measures for Nintendo Wii software, digital TV broadcasting standards in Japan, the US, and Europe, and IoT home appliances. He is famous as a serial innovator. Professor Oshima will introduce how groundbreaking inventions that change society originate.

More information can be found on the following page: http://www.erc.t.kyoto-u.ac.jp/news/gl_seminar2_2023

[Notes]

This seminar is intended for students in their second year of the Engineering Department or higher. The seminar is worth one credit, but whether it is recognized as a required credit for graduation depends on the undergraduate school. Please confirm with your undergraduate school office. Also, a camp is planned for November 30th and December 1st, so it is necessary to be enrolled in the Personal Accident Insurance for Students Pursuing Education and Research ("Gakkensai"). Participation in the camp is recommended.

[Course objectives]

Through group work, you can acquire the ability to plan and propose solutions, starting from identifying and setting challenges to envisioning the creation of social value.

[Course schedule and contents]

The course will be conducted in person.

- [Orientation] (1 session): The overview and schedule of the course will be explained.

- [Lectures] (3 sessions): Special lectures by experts will be conducted.

- [Team Building (1 session): An exercise in team building, essential for group work, will be carried out.

- [Group Work] (8 sessions): Students will engage in setting challenges, problem identification, data collection, and group work. Through intensive group work discussions, they will plan and propose solutions to the identified issues, create a draft report, and conduct 2-3 presentations. Holding mini-lectures by special instructors will also be planned.

- [Camp] (1 session): An intensive session dedicated to project work in an environment exclusive to participants and mentors through overnight training camp.

- [Preliminary Review Session] (1 session): A class to practice presentations in preparation for the final presentation event.

- [Final Presentation Event] (1 session): The final presentations will take place, followed by submission of presentation materials.

[Course requirements]

The enrollment limit for this course might be set at approximately 20 students.

[Evaluation methods and policy]

[Evaluation Method]

Grades will be based on regular participation (20%) and the presentation and submission of presentation

Continue to グローバル・リーダーシップセミナー II (イノベーションとその事業化) (3)

グローバル・リーダーシップセミナー II (イノベーションとその事業化) (3)

materials at the final presentation event held during the last lecture session (80%). Regular participation evaluation will focus on the student's active participation in the lectures.

[Evaluation Policy]

We will comprehensively evaluate the ability to identify and set challenges through group discussions, as well as the ability to propose solutions towards achieving goals. Students are required to develop individual or group business plans through the challenges and group work, and to present them at the final presentation event.

Attendance in lectures per se is not a criterion for grade evaluation; however, as the course involves group work, regular attendance is strongly recommended.

[Textbooks]

We will let you know if necessary.

[References, etc.]

(Reference books)

We will let you know if necessary.

[Study outside of class (preparation and review)]

Please prepare and develop your own ideas in advance that you would like to work on throughout the course.

(Other information (office hours, etc.))

[Schedule for the 2024 Academic Year]

The classes will be conducted in person on Fridays during the 5th period in Lecture Room W3, Research Building 9.

*Note: The 3rd lecture will be held in Lecture Room N5, Research Building 9 (subject to change in lecture room).

- Orientation: October 4

- Fundamentals of Group Work: October 18

- Special Lectures, In-Person Group Work: October 11, 25; November 1, 8, 15, 29; December 6, 13, 20, 27; January 10

- Camp: November 30 (Sat) 13:00 - December 1 (Sun) 13:00 @ AWL Keihoku (tentative)

- Preliminary Review Session: January 17

- Final Presentation: January 18 (Sat)

*Please note that whether the credits earned are recognized as necessary for graduation depends on your undergraduate school. Refer to your undergraduate school course guide for more information.

*Registration for the course is not through KULASIS but via the following page. It is scheduled to open around September 2024:

https://www.t.kyoto-u.ac.jp/fs/erc/2024Fall_GL_seminar2

For details on office hours, please check KULASIS.

*Please visit KULASIS to find out about office hours.

グローバル・リーダーシップセミナー II (イノベーションとその事業化) (4)

[Courses delivered by instructors with practical work experience]

(1) Category

(2) Details of instructors ' practical work experience related to the course

Course nu	imbe	er	U-EN	G23 13	3295 LJ77	U-EN	G23	13295	LJ73				
Course title (and course title in English)	地 球 Introdu	k⊥≒ uction (学総論 to Civil, Envi	ronmental	and Resources F	Engineering	Inst nan and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sch KANKEI KY Graduate Sch Professor,GC Graduate Sch Associate Prof	nool of Er OIN nool of Er DTOH HI nool of Er čessor,FUR	ngineerir ngineerir TOSHI ngineerir UKAWA	ng ng ng AIKO
Target yea	r	4th ye	ar students	or above	Number credits	r of		2	Year/	semesters	2024/Fii	st semes	ster
Days and periods	v	Ved.4	4	Class	s style	Lecture (Face-t	o-fa	ce cour	se)	Language of instruction	Japanese)	
[Overview	and	d pu	rpose o	of the	course]								
地授 するやのも く するや の も 年 間 に よ す る の も に 間 に 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	総目べ地石	は、 で こ て 学 を 学	· 専門教 る。 ぶらが ☆ に 関 ず べ き	育 の	最初かつ唯	ーの必 て「地 ついて 題に自 っにどの	修球解身と	目とし 学とい !すると ! ! ! で取り組 うに取り	,て, 全 う学問 ともに り組む	全体講義と少 引とは何か, 二,個別教官 こによって, べきか」に	>人数ゼ それが 雪による 「地球 ついて自	ミにより 目指すへ ブミ形式 工学科に ら学ぶり) 実き の 在 機 会
[Course o	bjec	tive	s]										
地球工学	科に	:在箫	售する4 ^生	F間に [、]	何を学修す	すべきて	₹., .,	それに、	どのよ	うに取り組	むべきか	を修得 [:]	する。
[Course se	che	dule	and co	ontent	s]								
ガイダンス る。(1回)	:本)	講	遠の内容	(授業	┊構成,全	体講義	の内]容,少	〉人数も	ヹミ実施要領	〔等)に1	ついて訪	钥す
安全と工学 研究者とし	倫理 て持	』: 北 う・	地球工学 べき工学	科で0 「倫理)学習と研 こついて解	究活動 解説する	に際 。(くして持 (1回)	うべき	安全に対す	る意識。	と,技術	诸・
全体講義: から講述す	21世 る。	記 (5)課題と 回)	地球コ	二学が果た	すべき	役割	しについ	Nて , 土	ニ木,環境,	資源の領	ら分野の	D視点
少人数ゼミ つ少人数ゼ (調査・実	:1(ミ形 習・)名科 (式0) 実験	呈のグル D授業を 検など)	ープに 受ける を教員	こ分かれ , 5。その中 夏の指導の	地球工 で,各 下で自	学科 教員 ら取	はに関係 しに提示 なり組む	してし された 6。(6	\る2つの研∶ ニ地球工学に 回)	究室でそ 2関連し†	れぞれ と特定の	3回ず)課題
研究現況の 活動を行っ める。(2回	紹介 てい 国)	、: 1 うの	地球工学 つかにつ	科のし いて見	1くつかの 見て , 聞く	研究室	を訪 より	5問し,),地球	地球コ ミエ学の	_学科では実)役割や重要	ミ際にどの 夏性につい	のような ヽて理解	な研究 ¥を深
								. .					
	_		-			•			С	ontinue to	地球工学	総論(2)	

地球工学総論(2)

[Course requirements]

特にありませんが,工学部地球工学科以外の学科および学部所属で受講を希望する学生は,必ず 令和6年4月3日(水)までに受講を希望する旨を地球工学科事務室(総合研究9号館1階)まで申し 出てください。

[Evaluation methods and policy]

全体講義については平常点とレポート等によって評価する。また,少人数ゼミについては,課題に取り組む姿勢と課題に対するレポートの成績にもとづいて評価する。

[Textbooks]

全体講義では適宜プリントを配布する。

[References, etc.]

(Reference books)

少人数ゼミでは,各自の指導教員から指示される。

[Study outside of class (preparation and review)]

講義中に指示する。

(Other information (office hours, etc.))

少人数ゼミの指導教員からは,事前に相談しておけば,講義時間に関係なく個別指導を受けることができる。

重要:工学部地球工学科以外の学科および学部所属で受講を希望する学生は,必ず令和6年4月3日 (水)までに受講を希望する旨を地球工学科事務室(総合研究9号館1階)まで申し出てください。

Course num	ber	U-EN	G24 24	4005 LJ74								
Course title (and course 建 title in An English)	Course title and course itle in English) Course title Architectural PlanningI English)											
Target year	2nd y	year students o	or above	Number credits	of		2	Year	/semesters	2024/Second semester		
Days and periods	Tue.2	2	Class	s style	Lecture (Face-t	zo-fa	ice cour	se)	Language of instruction	Japanese		
[Overview a	erview and purpose of the course]											
Lecture on the planning and d functions and p (explanatory) t	cture on the basic knowledge on dimensional planning, scale planning, flow lines, etc. necessary for inning and designing the architecture, as well as the interpretation and the process of establishment of actions and programs, building types. In addition, we will give a lecture on the basis of positive splanatory) theory to explain human psychology and behavior in built environment.											
[Course obj	ectiv	es]										
Understand the human psychol [corresponding design and plan	nderstand the fundamental matters of the planning and design of architecture and the theories to understand man psychology and behavior in built environment. orresponding learning / educational goal] B. Expertise and basic knowledge B2. Ability to understand the esign and planning aspects of architecture											
[Course sch	edul	e and co	ntent	s]								
The domain of Guidance and a architecture an Unit and Dime	Arch an ove d its e nsion	itectural P erview of evolution, al Plannin	lannin the gei and in g: 1 se	ng Studies: nealogy of dicating the ession, Esse	1 sessio architec e areas c ential di	n, tura cove men	l planni red by a sions ar	ng, exp archited ad units	plaining the c ctural plannir s designers sh	oncept of planning in ng studies.		
including aesth (stairs, slopes,	etic d handr	limensions ails, parki	s (Golo ng lots	den Ratio, S s), unit spac	Silver R ces, and	atio gric), modu ls.	les, dir	nensions for	safety and comfort		
Planning of Hu Explains the co territory and pr security perform	Planning of Human Relationships: 2 sessions, Explains the concept of proxemics, which originated from ethology and cultural anthropology, including erritory and privacy and their application in architecture, as well as discussions on privacy awareness, ecurity performance, living spaces, and crowd dynamics.											
Scale Planning Deepens under in facility usag	Scale Planning: 1 session, Deepens understanding of scale planning for community facilities, forecasting population changes, variations n facility usage numbers, and the overflow rate method.											
Foundations of Enhances unde the evolution o	Arch erstance f conce	itectural a ling of site cepts and	and Re e plana theorie	gional Plan ning, urban es related to	ning: 2 imager cities a	sess y, vi and 1	sions, isual and regions.	d optic	al illusions, l	and and diagrams, and		
Special Lecture	pecial Lectures: 1sessions,											
					·			c	Continue to	建築計画学 I (2)		

建築計画学 I **(2)**

Addresses the evolution of planning for large housing estates, breaking down the planning into dwelling units, facilities, construction methods, structures, and landscapes, to understand the transitions in each area and develop a comprehensive grasp of planning.

External Visits: 1 session,

Visits applied and reference examples of architectural planning to deepen understanding of planning and design methods experientially.

Building Types: 4 sessions,

Covers specific building types such as libraries, public halls, and elementary schools, deepening understanding of their development process, philosophy, planning considerations, functions, and programs.

Final Exam / Confirmation of Learning Achievement: Confirms mastery of the lecture content.

Feedback: 1 session

Note: Online classes may be conducted with prior notice when they are expected to offer educational effects beyond those of in-person classes.

[Course requirements]

None

[Evaluation methods and policy]

Grades are based on mini-reports required for each class, assignments once a semester, and a final exam.

[Textbooks]

Distribute original documents every time and help to understand using projector projection slide.

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Please carefully read the materials distributed in the lesson and review the content of the lesson. It would be good enough, if you could get an understanding that "plan" thought to be general can change throughout the lesson.

To this end, it is recommended obtaining information on the planning and operation of each type of new architecture and building from newspapers, television, and the internet.

Continue to 建築計画学 I (3)

(Other information (office hours, etc.))

[Grading evaluation] Grades are based on mini-reports required for each class, assignments once a semester, and a final exam. [Office Hour] (reception of questions, etc.) Tuesday 12: 00-13: 00. For more information about office hours, please check KULASIS.

							未更新
Course number	U-ENG24 2-	4006 LJ74					
Course title (and course 住居計 title in Living a English)	画学 and Housing De	sign		Instructor's name, job t and departi of affiliation	itle, nent 1	Graduate Sch Associate Profess	nool of Engineering sor,YANAGISAWA KIWAMU
Target year 2nd y	year students or above	Number credits	of	2	Year	/semesters	2024/Second semester
Days and Wed periods	.2 Class	s style	Lecture (Face-t	o-face cou	rse)	Language of instruction	Japanese
[Overview and pu	urpose of the	course]					
[Course objective	es]						
[Course schedul	e and content	:s]					
,1time,							
,1time,							
,2times,							
,1time, 1time							
3times							
,2times,							
,3times,							
,1time,							
[Course requiren	nents]						
None	-						
[Evaluation meth	ods and polic	cy]					
[Textbooks]							
[References, etc.]						
(Reference boo	oks)						
					_(Continue to	住居計画学(2)

住居計画学(2)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

											未更新
Course nu	umber	r	U-EN	G24 24	4007 SJ74						
Course title (and course title in English)	設計 Ateli	ja ar P	∃ I ractice o	f Arch	nitectural D	esignI	Inst nam and of a	ructor's ne, job tit departn ffiliation	tle, 1ent	Graduate Sch Professor, TA Graduate Sch Associate Profess Graduate Sch Associate Prof Graduate Sch Senior Lecture Part-time Lect Part-time Lect Graduate Sch Assistant Profes	nool of Engineering AJI TAKAHIRO nool of Engineering sor,YANAGISAWA KIWAMU nool of Engineering Sessor,NISHINOSAYAKA nool of Engineering er,KOMIYAMA YOSUKE surer,UOYA SHIGENORI urer,YAMADA SUZUKO turer,HATA TOMOHIRO nool of Engineering ofessor,IWASE RYOKO nool of Engineering ssor,HAYAKAWA SAYURI
Target yea	arget year2nd year students or aboveNumber of credits2Year/semesters2024/First semester										
Days and periods	Mo	on.5	,Fri.4,5	Clase	s style	Semina (Face-t	r to-fa	ce cour	se)	Language of instruction	Japanese
[Overview	and	pu	rpose c	of the	course]						
Aims to acq landscape ar	uire b nd dw	asic ellir	knowled ng space.	lge of	architectur	al space	des	ign thro	ough th	e issues of co	ntext of place,
[Course o	bject	tive	s]								
Students lea the way of p	Students learn architectural abilities to get the sense of context and answer dwelling issues. Also, they learn he way of presentation.										
[Course schedule and contents]											
Landscap Students app [Teachers: 7 Dwelling Considering like without dwelling " 1 [Teachers: 7	e proach Taji, H the m a pur by arc Taji, Y	n a s Kom near pose chite Yana	specific s niyama, a ning of dy e, and thi ectural wa agisawa,	ite to p and Uc welling is is " ays. and O	propose arc bya, 7times] g, it is not j place of dy Dnishi, 7tim	hitectur] ust a spa welling [†] es]	al sp ace c " . Ir	bace bas of purpo	ed on ose, bu ass, stu	the sense of p t a place when idents try to c	lace and context. re you spend as you lesign " place of

[Course requirements]

None

Continue to 設計演習 I (2)

設計演習 **Ⅰ (2)**

[Evaluation methods and policy]

Grades are evaluated based on the design works and their presentations.

[Textbooks]

Instructed during class It will be provided during classes.

[References, etc.]

(Reference books)

Introduced during class Reference materials will be provided during classes.

[Study outside of class (preparation and review)]

Preparations are required during classes.

(Other information (office hours, etc.))

Every Friday 18: 00-19: 00

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										未更新
Course nur	mber	U-EN	G24 24	4008 SJ74						
Course title (and course title in English)	设計演 Atelier	習II Practice o	f Arch	itectural D	esignII	Inst nam and of a	ructor's he, job tit departm ffiliation	tle, nent	Graduate Scl Professor,HI Graduate Scl Professor,KA Graduate Scl Professor,TA Graduate School Professor,KC Graduate School Associate Profess Graduate Scl Assistant Profess Part-time Lectur Part-time Le	hool of Engineering RATA AKIHISA hool of Engineering ANKI KIYOKO hool of Engineering AJI TAKAHIRO of Global Environmental Studie DBAYASHI HIROHIDE hool of Engineering sor,YANAGISAWA KIWAMU hool of Engineering of Global Environmental Studie essor,SUGINAKA MIZUK rer,NAKAYAMA HIDEYUK cturer,KAWAI Toshiak
Target year	2nd	year students	or above	Number credits	of		2	Yea	r/semesters	2024/Second semester
Days and periods	Mon	.4,5	Class	s style	Semina (Face-t	r to-fa	ce cour	se)	Language of instruction	Japanese
[Overview a	and p	urpose o	of the	course]						
Aims to acqui Elementary S	ire basi chool.	ic knowled	dge of	architectur	al space	des	ign thro	ough th	ne issues of U	rban Landscape and
[Course ob	jectiv	es]								
Students learn issues. Also, 1	n archit they lea	tectural ab arn the wa	oilities ay of pi	to get the s resentation.	ense of	urba	n conte	xt and	answer mode	ern urban and learning
[Course sc	hedul	e and co	ontent	s]						
Urban Con In Kyoto city [Teachers: Ka Elementary Students desi together, learn the surroundi [Teachers: K	text , studer anki, H y Schoo gn an e n and p ng envi tobayas	nts try to u irata and l ol elementary olay, and a ironment a shi, Yoshio	inderst Iwase, 7 schoo Iso lea and lar da, Yar	tand the urb 7times] ol at specifion rn abilities ndscape. nagisawa, N	oan cont c sites in to desig Miura, N	ext а n Ky gn th Лакі	and prop voto. Th em con and Ta	pose a ey pro prehe ji, 7tir	rchitectural sp opose new wa nsively based nes]	pace. ys for children to get l on the relationship of
							· – –	(Continue to	 設計演習II(2)

設計演習II(2)

[Course requirements]

None

[Evaluation methods and policy]

Grades are evaluated based on the design works and their presentations.

[Textbooks]

Instructed during class It will be provided during classes.

[References, etc.]

(**Reference books**) Introduced during class

Reference materials will be provided during classes.

[Study outside of class (preparation and review)]

Preparations are required during classes.

(Other information (office hours, etc.))

Every Monday 18: 00-19: 00

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

							未更新				
Course number	U-ENG24 24	4009 LJ74									
Course title (and course 建築環 ^t title in Environr English)	竟工学 I nental Engineerir	ng of Archite	Instructor's name, job ti and departr of affiliatior	tle, nent	Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Professor,OGURA DAISUKE						
Target year 2nd y	ear students or above	Number credits	of	2	Year	/semesters	2024/First semester				
Days and Wed. periods	Wed.2 Class style Lecture (Face-to-face course) Language of instruction Japanese										
[Overview and pu	Irpose of the	course]									
Lectures will be given on basic environmental elements such as solar and thermal radiation, heat and moisture transfer and air quality and ventilation. Fundamental characteristics, analytical and calculation methods are introduced. In addition, evaluation methods will be discussed in physiological and psychological aspects. In summary, the participants will acquire the knowledge and skill to evaluate the building performance on environmental aspects and to reflect them onto architectural design.											
[Course objective	es]										
The aim of this lecture is to let the participants to acquire the basic concepts and skills to evaluate buildings with respect to environmental aspects and to reflect onto architectural design. B1: scientific ability to solve problems, B4: understanding environmental aspect of architecture, C1: ability to realize actual buildings											
[Course schedule	e and contents	s]									
Architecture and climate (3 weeks) The role of architectural environmental engineering. Fluctuation characteristics of meteorological conditions (temperature, wind, solar radiation), regional characteristics, and the relationship between the external environment around the building and indoor environment.											
Thermal environment (2 weeks) Human body heat generation and dissipation mechanism, body temperature regulation mechanism, thermal comfort and sensory body temperature index and thermal environmental design.											
Heat transfer in buildings (3 weeks) Relation between steady-state heat conduction and thermal characteristics and heat transfer coefficient of wall. Heat supply and room temperature, indoor humidity and dew condensation											
Air quality and venti The causes of air pol ventilation, wind-aid	Air quality and ventilation (4 weeks) The causes of air pollution in rooms, necessary ventilation rates, mechanism of ventilation, buoyancy ventilation, wind-aided ventilation, ventilation network.										
Radiation heat transf	er (2 weeks)										
					c	Continue to 2	≇ 築環境工学Ⅰ (2)				

建築環境工学 I **(2)**

The principles of thermal radiation, radiative properties of materials, radiant heat transfer, application to building design.

End-term examination and evaluation of achievements (1 week) Checking degree of understanding.

[Course requirements]

None

[Evaluation methods and policy]

Score is evaluated based on an end-term examination and other materials.

[Textbooks]

Not used

[References, etc.]

(Reference books)

Shuichi Hokoi, Teturo Ikeda, Katsumichi Nitta Kenchiku Kankyo Kougaku II (Environmental engineering in Architecture II) (Asakura Shoten) ISBN:4254268637 (in Japanese)

[Study outside of class (preparation and review)]

It is recommended to work on Quiz to be distributed at the lecture.

(Other information (office hours, etc.))

[Office hours] No explicit office hours are designated. If participants need to have time for questions, contact the teachers via E-mail with his/her name, students number and request for schedule of meeting.

Course nu	Course numberU-ENG24 24010 LJ74									
Course title (and course title in English)	建築 Envi	發環境工学I ronmental E	ng of Archite	ecture II	Instructor's name, job title, and department of affiliation			Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,OOTANI MAKOTO		
Target yea	Ir 2nd year students or above Number of credits				of		2	Year	/semesters	2024/Second semester
Days and periods	F	ri.2	Clas	s style	Lecture (Face-t	co-fa	o-face course)		Language of instruction	Japanese
[Overview and purpose of the course]										

This course covers basic physical characteristics of lighting, color, and acoustic, as well as their analysis and prediction methods that are required during architectural design process to achieve safe and comfortable environment. The course will also cover the psychological and physiological effects of such environmental factors and their evaluation methods.

[Course objectives]

Students will learn the fundamentals relating to lighting, color, and acoustics that need to be considered during architectural design process and their application. Of the learning and education objectives listed by the department: B. Expertise and Basic Knowledge, B4. An understanding of the environmental side of architecture.

[Course schedule and contents]

(1) Vision and Photometry- 2 classes:

These lectures will consider how the human visual system responds to the light environment, explain how to derive photometric quantities (the basis of light measurement), and provide relevant definitions. The lectures will cover the structure of the eye and retina, sensation of light through rods and cones, adaptation of the eye to the light environment, spectral luminous efficiency, radiometric quantities and photometric quantities, luminous flux, light intensity, illuminance, and luminance.

(2) Architectural Lighting, Calculation of direct illuminance - 2 classes:

These lectures will explain how to measure illuminance, the basis of architectural lighting, and its application in architectural lighting. The lectures will cover computation of the direct illuminance by a point light source, reflection and transmission of light, uniform diffusion, direct illuminance by a surface light source, and configuration factors.

(3) Daylighting, 1 class:

The lecture will explain how to obtain a position of the sun and the sun shadow region of a building. (4) Color System Basics - 2 classes:

Beginning with the mechanism through which people perceive color, this lecture will explain the color system for quantitative descriptions of colors. This lecture will cover the mechanism of color vision, the three attributes of color, the Munsell color system, and the CIE XYZ color system.

(5) The Nature of Sound and its Physiological and Psychological Effects - 3 classes:

Radiated acoustical wave from a source is affected by various objects that exists along its propagation path, until it reaches human ears and is perceived as sound. These lectures will outline the nature of sound propagation, the function of the human auditory system, and physiological and psychological human responses to sound.

Continue to 建築環境工学II(2)

建築環境工学II(2)

(6) The Physics of Vibration and Sound: Foundations of Acoustic Design - 4 classes:

These lectures will explain basic topics relating to the physics of vibration and sound and the foundation of all acoustic design with the objective of creating a comfortable acoustic environment within and outside of building structure. In addition, wave propagation theory, physical indices of sound, and basic theory for acoustic design will be outlined.

(7) Feedback - 1 class:

Assessment of students' understanding and application of course material.

[Course requirements]

None

[Evaluation methods and policy]

Evaluation will be based on final examination scores.

[Textbooks]

松浦邦男、高橋大弐 『エース建築環境工学I(日照・光・音)』(朝倉書店) ISBN:4254268629(K. Matsuura, D. Takahashi, "Ace Architectural Environmental Engineering I", Asakura Publishing Co. Ltd., in Japanese)

[References, etc.]

(Reference books)

To be introduced during the course.

[Study outside of class (preparation and review)]

Students are required to prepare by reading textbook sections prior to each lecture.

Additionally, students shall deepen their understanding by reviewing material covered after each lecture and ask their instructors about any points that are unclear.

(Other information (office hours, etc.))

Questions will be taken as appropriate. Students are to make an appointment with the relevant teacher.

										未更新	
Course nu	mbe	er U-EN	G24 2	4011 LJ74							
Course title (and course title in English)							ructor's ne, job ti I departn Iffiliation	tle, nent	Graduate School of Engineering Professor,OOSAKI MAKOTO Graduate School of Engineering Associate Professor,		
Target yea	rget year 2nd year students or above Number of credits						2	Year	r/semesters 2024/First semest		
Days and periods	F	Fri.1	Clas	s style	Lecture (Face-t	e -to-face course)			Language of instruction	Japanese	
[Overview	and	d purpose o	of the	course]							
This course j models, basi mechanical j of of statical	This course presents the fundamentals on the shapes, elements, and design of building structures. Mechanical models, basic concepts and theories, and their applications are shown. Definitions of stress and strain, mechanical properties of structural materials, stress resultants and deformation of bars, theory and application of of statically determinate beams are also given.										
[Course o	bjec	ctives]									
To study fun building stru	To study fundamentals of mechanics of building structures, which form the basis of studying mechanics of building structures 2 and 3.										
[Course se	[Course schedule and contents]										
 Introduction nd guidance of the course. Role of structural mechanics and fundamentals of statics, (Ohsaki) Displacement, strain, force, moment. Equilibrium equations of free body. (Ohsaki) Deformation process of structural materials, e.g., steel and concrete, under external forces. Definition of elasticity, plasticity, and viscosity. (Ohsaki) Definition of stress and strain. Stress-strain relationship. (Ohsaki) Basic equations for frame analysis. Assumptions and approximations for elementary analysis. (Ohsaki) Definition of stress resultants of beams. (Ohsaki) Statically determinate beams. Methods for finding reaction forces and stress resultants using equilibrium equations for free bodies. (Ohsaki) Derivation of differential equations for beams. Diagrams for axial forces, shear forces, and bending moments. (Ohsaki) Excercise for classes 1-8. (Kimura) Assumption of plane sections. Axial stress due to axial force and bending moment. (Ohsaki) Stersses us to bending. Shear stress due to torque. (Ohsaki) Stresses in the inclined section. Method using Mohr's circle. (Ohsaki) Stresses in the inclined section. Method using Mohr's circle. (Ohsaki) Final examination/ Learning achievement evaluation. (Ohsaki) 											

建築構造力学 I **(2)**

[Course requirements]

None

[Evaluation methods and policy]

Term examination

[Textbooks]

中村恒善『構造力学 図説・演習I』(丸善) ISBN:4-621-03965-2

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

Explained during the class.

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course num	ber	U-EN	G24 24	4012 LJ74								
Course title (and course 결 title in M English)	urse title nd course e in glish) Mechanics of Building Structures II								Graduate School of Engineering Professor, ARAKI YOSHIKAZU Graduate School of Engineering Associate Professor, KOHEI FUJITA Graduate School of Engineering Assistant Professor. HAYASHI KAZUKI			
Target year	Jet year 2nd year students or above Number of credits							Year/	semesters	2024/Second semester		
Days and periods	Fri.1	Fri.1 Class style Lecture (Face-				o-fa	Japanese					
[Overview a	nd pu	urpose o	f the	course]								
Axial deformation of a bar and bending deformation of a beam. Statically determinate truss and moment- resisting frame. Theory of statically indeterminate beams and buckling of columns. The force method and the displacement method (stiffness method) are described in the theory of statically indeterminate beams. Exercises are given for each subject.												
[Course obj	ectiv	es]										
Study analysis method of bending deformation of beams and theory of statically indeterminate beams. In addition study the theory of statically determinate truss and moment-resisting frame and the theory of buckling of columns.												
[Course sch	nedul	e and co	ntent	s]								
Axial deforma Differential eq	tion of uatior	f a bar and 1 for defle	l bend ction c	ing deform curve of a b	ation of eam and	a be 1 Mo	eam,1 cl ohr's the	lass, corem f	or deflection	analysis.		
Theory of state Force method	ically in terr	indeterminns of unki	nate be nown s	eams 1, 3 cl stress result	lasses, ants and	l rea	ctions.					
Theory of statically indeterminate beams 2, 3 classes, Displacement method in terms of unknown displacements.												
Statically dete Analysis of str	rminat ess re	te truss an sultants in	d fram static	e, 4 classes ally determ	s, inate tru	isse	s and m	oment-	resisting fram	nes.		
Buckling of column, 3 classes, Governing equation for a buckling problem of a column. Eigenvalue analysis. Slope-deflection method for buckling analysis.												
Feedback using term exam, 1 class, Conduct feedback using term exam through KULASIS												
								<u>-</u> -	ontinue to	建築構造力学II(2)		

建築構造力学II(2)

[Course requirements]

None

[Evaluation methods and policy]

Term examination

[Textbooks]

T.Nakamura (ed.);Mechanics of building structures I: Illustrative description and exercises; Maruzen. isbn{ 4621039652}

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

Solve the exercise problems at the end of chapters of the text.

(Other information (office hours, etc.))

Office hour: Before and after the class.

Course nu	umber	U-EN	G24 24	4013 LJ74							
Course title (and course title in English)						Instructor's name, job title, and department of affiliation			Graduate School of Engineering Professor,NISHIYAMA MINEHIRO Graduate School of Engineering Professor,KOETAKA YUUJI Graduate School of Engineering Associate Professor, SUGINO MINA		
Target year 2nd year students or above Number of credits							2	Year	semesters	2024/Second semester	
Days and periods	Days and periodsMon.2Class styleLecture (Face-					o-face course) Language of instruction Japanese					
[Overview	and p	ourpose c	of the	course]							
manufacturing method, basic physical properties, mechanical properties, usage examples in buildings, and so forth will be explained regarding concrete, metal materials, woody materials in building structural materials, and others. [Course objectives] Learning the manufacturing method, material characteristics, examples of use in buildings, and so forth regarding construction materials such as concrete, metal materials, and woody materials that make up buildings. Among the learning and educational goals listed by the department, the goals are B. expertise and basic knowledge, and B3. the ability to understand structural aspects of architecture.											
[Course s	chedu	le and co	ntent	s]							
Guidance (1 learning targ Concrete (6 for producin mechanical a Metal mater properties ar and the test n Wooden/tim structural ma form, constr be on reflect	time): get will times): g conc and phy ial (3 ti nd phys methoc ber stru- aterials uction ing on	The conter be describe Production rete, compo- visical proper mes): Raw fical proper s of physic acture (4 the of wooder method, an wooden bu	nt of th ed. n meth pundin erties of mater ties of cal prop mes): 1 n build d the s ilding	is lecture (od and pro g design, p of hardened ials of stee steel mate perties will Regarding p ings, the de structure de design, co	composition perties of ropertie l concrete l, steel r rials, all be exploated material eteriorations sign of nstruction	ition of cer s of f te, an nakir oyed ainec prop ion o wood on, m	of lesso nent, p resh co d envin g techn steel n l. perties, f wood len bui	on, con roperti- oncrete, ronmer nology naterial such as , durab ldings	tents of who es of aggrega /test method, atal issues wi and its histo ls and nonfer s the strength ility, fire res will be expland managem	le lecture, etc.) and the nte/admixture, method construction method, ll be explained. ry, mechanical rous metal materials, of wood as the istance, the structural ined, and the focus will ent based on the correct	

recognition of timber. Final Exam.

A feedback class (1 time): Posting example model answers on KULASIS, will be conducted.

[Course requirements]

Nothing in particular

Continue to 建築材料(2)
建築材料(2)

[Evaluation methods and policy]

Grades will be evaluated by a final exam, and the achievement level of the course will be confirmed.

[Textbooks]

Not used Not used

[References, etc.]

(Reference books)

Introduced during class To be introduced during class

[Study outside of class (preparation and review)]

To be indicated during the lecture

(Other information (office hours, etc.))

[Office hours] (reception of questions, etc.) To be indicated during the lecture

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

									未更新
Course numbe	er U-ENG	G24 24	4016 LJ74						
Course title (and course title in Arch English)	轻設計論 nitectural Des	ign M	ethod		Instinam and of at	ructor's ne, job tif departm ffiliation	ile, nent	Graduate Scl Professor,HI	nool of Engineering RATA AKIHISA
Target year	2nd year students of	or above	Number credits	^r of		2	Year	/semesters	2024/First semester
Days and M periods	Ion.2	Class	Language of instruction	Japanese					
[Overview and	l purpose o	f the	course]						
fields and presen position architect ideas and exampl Reality / Actualit	ts it as a new ture in the dyn les that under ty.	overal namic lie the	Il picture. A relationshij se abilities	t the sa p of real from th	me t lity a e thr	ime, fle and to en ee aspe	xible t mbody cts of a	hinking ability the concept. architectural of	ty is required to We will discuss the design Framework /
[Course objec			·	1.0				• / • •	
Develop the abili that support archi considerations.	ite chowledge ty to understa itectural desig	and the	e relationsh actual desi	ip betwo	2 ard een t vities	throug	s, tech	nologies, and bus examples	social backgrounds , and to make unique
[Course schee	dule and co	ntent	s]						
Architectural des based on various 01 Overview 02 Artificial / Na 03 Architecture a 04 Space / Enviro 05 Karamarishiro	ign framewor cases includi tural as a solid onment	·k, 5 ti ng nor	mes, unrav n-architectu	eling thure	e ide	as behi	nd arcl	hitecture and	discovery perspectives
Architectural des architectural desi 06 Notation 07 model 08 Engineering (09 Engineering (10 construction	ign reality, 5 gn and produ Structure) Environment)	times, ction s	showing a site	bundant	t exa	mples c	of what	t is happening	g at the actual
Architectural des examples 11 architect 1 12 architect 2 13 Architectural	ign charity, 5 Commitment	times 1	, consider v	what arc	chited	cture ca	n bring	g to the real w	vorld, based on world
							c	Continue to	建築設計論(2)

建築設計論(2)

14 Architectural Commitment 2

15 Fusion with urban environment

Evaluation of learning achievement, once, evaluation of learning achievement.

[Course requirements]

None

[Evaluation methods and policy]

Performed by normal score (20%) and report evaluation (80%)

[Textbooks]

Akihisa Hirata ^FTangling (LIXIL publishing, 2011) ISBN:isbn{}{9784872751666}

[References, etc.]

(Reference books)

Akihisa HIRATA [©]"Discovering New Akihisa Hirata Architectural Works"² (TOTO publishing, 2018) ISBN:9787887063730

Akihisa HIRATA ^IJA108 Akihisa HIRATA 2017-2003 (Shinkenchikusya, 2017)

Toyo Ito, Sou Fujimoto, Akihisa Hirata, Jun Sato ^CCreating New Principles for 21st Century Architecture (INAX Publishing, 2009) ISBN:{} {9784872751581}

Akihisa Hirata, others ^ГArchitect's Reading Techniques J (TOTO publishing, 2010) ISBN: 9784887063143

Toyo Ito, Kumiko Inui, Sou Fujimoto, Akihisa Hirata ^architecture possible here?^a (TOTO publishing, 2011) ISBN:9784887063310

[Study outside of class (preparation and review)]

Out-of-class study (preparation / review), etc.

Experience as many architectural spaces as possible, learn through related works and magazines about the design concept behind them, space composition, construction methods, materials, etc., and how the architecture is designed by superimposing it on your own experience.

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

Continue to 建築設計論(3)

建築設計論**(3)**

(2) Details of instructors ' practical work experience related to the course

							未更新	
Course number	U-ENG24 34	4017 LJ74						
Course title (and course 都市設言 title in Urban P English)	計学 lanning			Instructor's name, job tit and departm of affiliation	ile, nent	Graduate School of Global Environmental Studies Professor, KOBAYASHI HIROHIDE Graduate School of Global Environmental Studies Associate Professor, OCHIAI CHIHO		
Target year 3rd ye	ear students or above	Number of credits		2	Year	/semesters	2024/First semester	
Days and Mon. periods	3 Class	s style	cture ace-te	o-face cours	se)	Language of instruction	Japanese	
[Overview and pu	Irpose of the	course]						
the rise; regardless of and going forwards th this course, students modern period onwar architecture and from direction in which cit	f whether a cour f whether a cour he nature of citie will learn about rds as well as cu n the social persp ties should prog	try is develop es will have a l the fundament rent challenge pective of hum ress in the futu	ed or large tal st es fa nan b ire.	r developing impact on ructure of th ced by citie eings. They	half g, citie humar he city s from will a	s are faced was a life and the and urban de the physical acquire the ab	population and are on ith major challenges, global environment. In evelopment from the perspective of ility to consider the	
[Course objective	es]							
Of the learning and e (C2: Ability to under	ducation object stand the social	ives listed by the role of archite	he de ctura	epartment, t al activity).	his co	urse develops	: C: Practical Skills	
[Course schedule	e and content	s]						
Urban Concepts and 1. Outline of the class 2. Basic structures of 3. Basic structures of	Structures - 3 cl s cities 1 cities 2	asses:						
Urban development of 4. Outline of the deve 5. Focusing on E. Ho 6. Focusing on Le Co 7. Focusing on the ur	of modern cities elopment of mo ward's urban ph orbusier's urban ban movement	- 4 classes: dern cities iilosophy philosophy of Metabolism	l					
Current trends of mo 8. Reconstructing urb 9. Creating urban lan 10. Inheriting historic 11. Constructing safe	dern cities (Rec pan communities dscapes cal cities e cities	reating city val s	lue) ·	- 4 classes				
Current trends of mo 12. The idea of the co 13. The potential of u	dern cities (Esta ompact city arban wooden st	blishing enviro	onme	entally low	impac	ting cities) - 3	3 classes	
					c	Continue to	都市設計学 (2)	

都市設計学**(2)**

14. Urban architecture by passive design

Student Assessment - 1 class

15. Assessment of the level of understanding of materials in the lecture series

[Course requirements]

None

[Evaluation methods and policy]

Assessment of achievement and grading is based on attendance (short lecture reports) (50%) and submission of a written assignment (50%).

[Textbooks]

Related material will be distributed.

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

You are expected to self-study more about your interesting topics introduced in the lectures, and to lead them to the final report.

(Other information (office hours, etc.))

Please check the office hour by KULASIS.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										未更新
Course nu	ımbe	er U-EN	G24 3	4018 LJ74						
Course title (and course title in English)	建築 Buil	≷設備システ ding Equipm	Ъ hent Sy	vstem		Inst nan and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sch Professor,OC Graduate Sch Professor,ISI Graduate Sch Associate Pro	1001 of Engineering JURA DAISUKE 1001 of Engineering HIDA TAIICHIROU 1001 of Engineering ofessor,IBA CHIEMI
Target yea	r	3rd year students	or above	Number credits	[,] of		2	Year/	semesters	2024/First semester
Days and periods	Т	`hu.1	Clas	s style	Lecture (Face-t	; to-fa	ce cours	se)	Language of instruction	Japanese
[Overview	and	d purpose o	of the	course]						
The lecture v conditioning methods that	vill c ; equ t take	cover the ope ipment, plum e energy savi	rating ibing s ng anc	principles a anitation ec l global env	and basi Juipmen Tironmei	cs o it, ar ntal	f the sys id lighti protectio	stem fo ng equ on into	r building eq ipment, and consideratio	uipment such as air- will discuss design n.
[Course o	bjec	tives]								
engineering	aspe	cts of archite	cture a	nd basic know	owledge	e and	1 B4. At	onal go	b understand bals set in the	department.
[Course so	cheo	dule and co	ontent	tsj						
Air condition operation pri Heat load ca Air condition Heat source Duct design duct design Water supply water supply Lighting equ brightness ev temperature, Special Lect Confirmation proficiency	ning incip lcula ning equij meth y and y and y and valua colc ure, n of	process, (3 th ole of various ation method, planning, (2 pment, (1 tim nod (1 time) 1 d drainage sa d drainage sa d drainage sys ent, (2 times) ation, lighting or rendering (1 time) Lect learning achi	air co (2 tim times) (2 tim times) ne) Prin Flow e nitatio stem de Direc g meth ture by	Analysis me nditioning p nes) Various Air conditi nciples of b energy conse n equipmen esign metho t illuminance od, lighting y specialists ent, (1 time)	whod of processes is heat lo loning p asic heat ervation at, (2 tim od, Hot ce, indir ce, indir in the p Unders	air o s pads, plann it sou i in p nes) wate rect i nent, pract stanc	externa ing, zor urce equ pipes, du Water q er supply llumina use of t ice of bu ling of le	in such il weath ning, ai nipmen nct frict juality system nce cal natural uilding ecture	as temperatu her for design r conditionin t such as refr tion resistance standards and n and energy loculation, lun light, light se equipment contents and	ire, humidity, enthalpy, n, room load calculation g igerators and boilers e, equivalent diameter, l pollution prevention, conservation ninous flux method, ource, light color, color confirmation of
					· <u> </u>		· – –	 c	 ontinue to 建	<i></i>

[Course requirements]

Students who take this course must have prior knowledge of Architectural Environmental Engineering I(U-ENG24 24009 LJ74) and II(U-ENG24 24010 LJ74).

[Evaluation methods and policy]

The grade is evaluated by a term-end examination.

[Textbooks]

Not used

[References, etc.]

(Reference books)

SHASEJ ^CKnowledge of air conditioning and sanitation equipment (Ohmsha Ltd.) ISBN:978-4-274-22039-5

SHASEJ ^PPractical knowledge of air conditioning equipment planning and design (Ohmsha Ltd.) ISBN: 978-4-274-22038-8

Supervised by Saburo Murakawa / edited by Keiji Yoshimura and Tomoko Uno ^𝔽Illustration building equipment **𝒷** (Gakugei Shuppansha) ISBN:978-4-7615-2628-3

edited by Architectural Institute of Japan ^FLighting and color design in architectural environment_J (Ohmsha Ltd.) ISBN:978-4-274-10275-2

[Study outside of class (preparation and review)]

It is recommended that students take an appropriate review through Quiz, etc., which will be presented during the lecture.

(Other information (office hours, etc.))

[Office Hour] (Reception of questions, etc.) Before and after the lecture time (Students who wish to ask questions at other times must make an appointment with the teacher)

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										未更新
Course nu	ımbe	er U-EN	G24 3	4019 LJ74						
Course title (and course title in English)	鉄筋 Reir	δコンクリー nforced Conc	ト構〕 rete St	告 I ructures I		Inst nan and of a	tructor's ne, job ti I departn Iffiliation	tle, nent	Graduate Sch Professor,NI Graduate Sch Associate Pro	nool of Engineering SHIYAMA MINEHIRO nool of Engineering fessor,TANI MASANORI
Target yea	r	3rd year students	or above	Number credits	r of		2	Year	/semesters	2024/First semester
Days and periods	F	ri.2	Clas	s style	Lecture (Face-t	co-fa	ice cour	se)	Language of instruction	Japanese
[Overview	and	d purpose o	of the	course]						
[Course o	bjec	tives]								
[Course se	cheo	dule and co	nten	ts]						
,2times,										
,3times,										
,3times,										
,3times, 3times										
,1time,										
10	•		_							
[Course re	equi	rements								
None										
[Evaluatio	n m	ethods and	poli	cy]						
[Textbook	s]									
								0	 Continue to 鉄筋	

鉄筋コンクリート構造 I **(2)**

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course num	Course number U-ENG24 34020 LJ74											
Course title (and course 鉄 title in Sta English)	se title course n sh)鉄骨構造 I Steel Construction IInstructor's name, job title, and department of affiliationDisaster Prevention Research Institute Professor,IKEDA YOSHIKI Graduate School of Engineering 											
Target year	3rd y	ear students o	or above	Number credits	of		2	Year	/semesters	2024/First semester		
Days and periods	Thu.2	2	Class	s style	Lecture (Face-t	: to-fa	ice cour	se)	Language of instruction	Japanese		
[Overview and	nd pu	irpose o	f the	course]								
This course dis frame construct the theory of pl and safety of st exercises are as	This course discusses manufacturing methods and mechanical characteristics of steel material used in steel rame construction, the make-up of framed construction, and outline of design methods; describes in detail the theory of plasticity, which determines collapse load, one of the main factors controlling the functionality and safety of steel frame construction; and explains structural design application methods. Also, appropriate xercises are assigned to teach students the theory.											
[Course obje	ective	es]										
Learn the theor behavior of stee In terms of the knowledge and	les ne el frar depar B3. A	eded to u ne structu tment ' s Ability to	ndersta ires, as learni compr	and the mee s well as de ng/education rehend arch	chanical sign me onal goa itectura	l pro thoc ls: E l str	operties ls based 3. Specia ucture.	of stee thereo alized	el material and on. knowledge ai	the mechanical		
[Course sch	edule	e and co	ntent	s]								
The 1st-3rd cla steel and its ra composition / n building structu	ss: Sto w ma necha ires	eel produc aterials / h nical prop	ction a istory perties	nd the prop of steel pro of steel ma	perties o oduction aterial an	f ste tec nd st	eel mate hniques tress-str	rial; / type ain rel	s of steel mat ationship / ne	erial and their chemical w steel materials for		
The 4th class: I typical framew of connecting n	Frame vorks netho	work and and exan ds / Dama	conne ple fra ige of	ections of st ameworks o steel buildi	teel fran of large ngs by 1	ne st stru 1995	tructures ctures / 5 Kobe I	s; types Earthq	and uses of co uake	omponents / overview		
The 5th class: S mechanical ch	Streng	th of com eristics of	iponen comp	ts/connecti onents/con	ons and nections	beh s and	avior of the bel	f steel havior	frames; of frameworl	cs		
The 6th class: I overview of d	Desigi esign	n load; load and	design	methods								
The 7th-8th cla steel material shearing force o	The 7th-8th class: Steel material yield criteria and fully plastic moments; steel material yield criteria / fully plastic moments of cross-section of members / influence of axial force or shearing force on upon fully plastic moments											
The 9th-10th class: Plastic collapse of frames; flexural member plastic collapse / definition of plastic collapse and collapse mechanisms / principle of Continue to 鉄骨構造 I (2)												

virtual work / plastic collapse of simple frames

The 11th class: Theorem of plastic collapse; fundamental theorem of plastic collapse / yield surfaces and their characteristics / concept of plastic hinges

The 12th-14th class: Load calculation methods;

geometrical meaning of mechanical principles (principle of virtual work) / frames sustaining distributed loads / frames sustaining constant vertical loads and proportionally horizontal loads / plastic analysis of frames considered with joint panels / floor moment partition method

<<Final examination>> The 15th class: Confirmation of learning attainment; confirmation of learning attainment

[Course requirements]

Would be preferable to have completed Mechanics of Building Structures I-II.

[Evaluation methods and policy]

The score of final examination (80%), the scores of exercises assigned in the classes (20%)

[Textbooks]

Kazuo INOUE / Keiichiro SUITA 『建築鋼構造 - その理論と設計 - 』(Kajima Institute Publishing) ISBN:978-4306033443

[References, etc.]

(Reference books)

Minoru WAKABAYASHI 『鉄骨の設計』(Kyoritsu Shuppan)ISBN:978-4320076464

[Study outside of class (preparation and review)]

Prepare and review for the class using the textbook and the reference book. Enhance to understand by exercises during the classes and on the textbook.

(Other information (office hours, etc.))

Please bring a scientific calculator.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience



鉄骨構造 **Ⅰ (3)**

(2) Details of instructors ' practical work experience related to the course Yoshiki IKEDA (Kajima Corp., 31 years)Yuji KOETAKA (Taisei Corp., 2 years)

(3) Details of practical classes delivered based on instructors ' practical work experience Lectures are given with practical viewpoints based on the experiences of structural engineers.

							未更新					
Course number	U-ENG	24 24021 LJ74										
Course title (and course title in English)	E産 I action Engine	eering and Manag	gement I	nstructor's name, job ti and departn of affiliation	tle, nent	Graduate Sch Professor,KA Graduate Sch Associate Prof	nool of Engineering ANETA TAKASHI nool of Engineering fessor,NISHINOSAYAKA					
Target year 2nd	year students or	above Number	· of	2	Year	/semesters	2024/First semester					
Days and Wed periods	d.1 C	Class style	Lecture (Face-to	-face cour	se)	Language of instruction	Japanese					
[Overview and p	ourpose of	the course]										
Stakeholders and th process including pr	Stakeholders and their roles in a building construction project will be explained, looking at the project process including project planning, architectural design, building construction, and maintenance.											
[Course objectiv	/es]											
To acquire the knov B-B2.	To acquire the knowledge on building construction process. B-B2.											
[Course schedu	le and con	ntents]										
Outline of construct Goals and scopes of Textbook Chapter 12. Construction marked Textbook Chapter 23. Regulations and co Textbook Chapter 24. Building system Stakeholders, regul Project delivery met Textbook Chapter 25-6. Project manage Outline of project r Textbook Chapter 25-6. Project planning Project planning Project process and management. Textbook Chapter 26. Second Chapter 26. Design, drawings a concurrent engineer Textbook Chapter 26. Design, drawings a	etion engined of the lecture 1 :ket et of Japan a 2 codes odes for prof 3 lations, stand thods, contr 4 ement management 5 l phases. Pro 6, 6.1 ject process and specifica ring, quantit 6, 6.2-6.3	ering and manages. and overseas. Ac fessionals in buil dards, jobs and r acts, procurement t in building con oject planning, b ation required in y survey, value of	gement. etivities a ding con roles that nt system struction riefing, f a constru- engineeri	nd volume struction. are involv easibility s action proj ng.	s of co ed with tudy, p ect. Co	nstruction main building con	arket. nstruction projects. , development					
					c	Continue to	建築生産 I (2)					

建築生産 I **(2)**

Engineering in design, for example, design review, concurrent engineering, collaboration in design, production design, value engineering.

Textbook Chapter 6, 6.4

12. Cost management

Quantity survey and cost estimation. Cost control through design process.

Textbook Chapter 6, 6.5

13. Procurement and contract

Variety of procurement and contract for building projects. Supervision of construction and inspection.

Textbook Chapter 6, 6.6-6.7

14. Maintenance

Maintenance in the age of global ecology. Demolish and waste treatment. Reuse and recycle of material. Textbook Chapter 6, 6.8

15. Final examination/ Learning achievement evaluation

16. Feedback

[Course requirements]

Social science and economics taught in High School.

[Evaluation methods and policy]

* Evaluation method

Evaluation will be based on final examination (80%) and participation in class (20%).

Evaluation for participation in class includes attendance and short reports conducting every class.

* Evaluation policy

Achievement of goals is evaluated according to the grade evaluation policy of the undergraduate / graduate school of Engineering.

Continue to 建築生産 I (3)

[Textbooks]

Shuzo FURUSAKA ^FKENCHIKU-SEISAN₂ (Riko Tosho) ISBN:978-4-8446-0863-9

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Read the text book before and after the lecture.

(Other information (office hours, etc.))

Contact to:

kaneta@archi.kyoto-u.ac.jp

*Please visit KULASIS to find out about office hours.

建築生産 I **(3)**

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course numbe	er U-EN	G24 3	4022 LJ74								
Course title (and course 建築 title in Mec English)	藝構造力学III hanics of Bu	[ilding	StructuresI	II	Inst nan and of a	tructor's ne, job ti I departn affiliation	tle, nent	Graduate Sch Professor,OC Graduate Sch Professor,AF Graduate Sch Associate Pro Graduate Sch Associate Pro	nool of Engineering DSAKI MAKOTO nool of Engineering RAKI YOSHIKAZU nool of Engineering ofessor, nool of Engineering ofessor,KOHEI FUJITA		
Target year	3rd year students	or above	Number credits	r of		4	Year	/semesters	2024/First semester		
Days and T periods	ue.2,Wed.2	Clas	s style	Lecture (Face-t	o-fa	ace cour	se)	Language of instruction	Japanese		
[Overview and	l purpose o	urpose of the course]									
Slope-deflection method). Matrix theory of structur	method and and method for s ral analysis a	mome tructur nd the	nt distributi al analysis. ory of plast	on meth Princip ic analy	od. les o sis c	Force n of virtua of frame	nethod 11 work s.	and displace and energy 1	ment method (stiffness nethods. Fundamental		
[Course object	tives]										
Study force meth addition study slo	od, displacer ope-deflectio	nent n n metł	nethod (stiff nod and the	fness me ory of pl	etho lasti	d) and n c analys	natrix sis of fi	method for st rames.	ructural analysis. In		
[Course sche	dule and co	ontent	ts]								
Fundamental the Frame analysis n Moment distribu Moment distribu	ory of structu nodel and gov tion method, tion method v	ral an verning 1 class withou	alysis and s g equation f s, it nodal late	lope-det for slope ral displ	flect e-de lace	tion met flection ment.	hod, 4 metho	classes, d.			
Three-dimension Plane frames wit building frames.	al frame, 2 c h equal horiz	lasses, ontal c	lisplacemer	nts. Shea	ar fo	orce dist	ributio	n formula. St	ructural design of		
Displacement me Member stiffness mid-span loads.	ethod and for s matrix and s	ce met system	hod, 9 class stiffness e	ses, quation	for	truss and	d mom	ent-resisting	frame. Treatment of		
Principles of virt Principle of virtu force. Unit virtua	ual work, 5 c al displacem ll force metho	lasses, ent. U od.	, nit virtual d	isplacer	nent	t method	1 and s	tiffness metho	od. Principle of virtual		
Principles of ene Stationary and m	iples of energy methods, 3 classes, on any and minimum principles of total potential energy and complementary energy.										
Plastic limit anal Load-deformatio	ysis and elast n curve for a	tic-pla n elast	stic analysis ic-perfectly	s, 5 class plastic	ses, bea	m, plast	ic hing	e, plastic coll	lapse, virtual work		
							c	Continue to 3	■		

建築構造力学III(2)

equation, fundamental theorem for plastic limit analysis, plastic limit analysis of moment resisting frame.

Feedback using term exam, 1 class, Conduct feedback using term exam through KULASIS

[Course requirements]

None

[Evaluation methods and policy]

Term examination

[Textbooks]

T.Nakamura (ed.) lsquoMechanics of building structures II: Illustrative description and exercisesrsquo, Maruzen.

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

The exercise problems at the end of chapters of the text should be solved in parallel to the class advancement.

(Other information (office hours, etc.))

Office hour: Before and after the class

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

									未更新	
Course num	ber U-	ENG24 44	4023 SJ74							
Course title (and course 建 title in Ser English)	Course title (and course title in English) 建築環境工学演習 Seminar of Practice in Architectural Environmental Engineerin Seminar of Practice in Architectural Environmental Engineerin Target year 4th year students or above							Professor, HARADA KAZUNORI Graduate School of Engineering Professor, OGURA DAISUKE Graduate School of Engineering Professor, ISHIDA TAIICHIROU Graduate School of Engineering Professor, OOTANI MAKOTO Graduate School of Engineering Associate Professor, IBA CHIEMI Disaster Prevention Research Institut Associate Professor, NISHINO TOMOAK Graduate School of Engineering Associate Professor, NII DAISAKU Graduate School of Engineering Associate Professor, TAKATORI NOBUMITS Kyoto University Not fixed		
Target year	4th year stud	ents or above	Number credits	of	2	2	Year/	semesters	2024/First semester	
Days and periods	Wed.1,2	Class	s style	Seminaı (Face-t	r o-fac	e cours	se)	Language of instruction	Japanese	
[Overview a	nd purpos	se of the	course]							
This course is p Engineering in each topic, exa skills while int	provided to Architectur mples of de eracting wit	enhance g re 1&2, an sign probl h lectures.	lobal under d to develo ems are sup	standing p capab oplied. T	g of t ility i The p	he con in appl articip	tents le ying th ants are	ectured in En e knowledge e to solve the	vironmental to real projects. For problems by their own	
[Course obj	ectives]									
The goal is to r architecture an capability, A2: C1: Capability	nake global d their mutu Capability in Realize I	understan al relatior in underst Building P	nding of the hships. Corr anding the Projects.	technic respondi value of	al ele ing go f arch	ements oals fo itectur	in envi r educa e in mu	ironmental en ation of depar altiple measu	ngineering in tment are; A: global res, C: Practical skills,	
[Course sch	edule and	content	s]							
Heat transfer a	nd vapor co	ndensation	n [3 weeks]							
Air-conditionin	ng system [3	3 weeks]								
Building acous (1) Sound leve distance, noise (2) Transmissi (3) Reverberat	tics [3 week els, frequenc reduction b ton loss, sou tion time cal	cs] cy characte y barriers ind insulat lculation, a	eristics and ion, frequen acoustical d	1/3 octa ncy anal lesign of	ave ba lysis f opti	ands, d and ev mum r	B sum aluation reverbe	mations, sou n ration time	nd attenuation by	
lighting and co	lor [1 week]					C	 ontinue to 建	築環境工学演習 (2)	

建築環境工学演習(2)

Sunshine and daylighting [1 week]

ventilation and smoke control for evacuation [2 weeks]
(1) Basic subjects on ventilation design such as Velnouille 's formula, pressure difference, friction coefficients, wind pressure coefficients, neutral plane height.
(2) Smoke control design for escape from fire in a building,

Site visit [1 week]

Site visit are to be planned to introduce design and construction of environmental control systems of real building projects.

Feedback [1 week]

[Course requirements]

The participants are required to study Environmental engineering in Architecture I (U-ENG24 24009 LJ74) and II (U-ENG24 24010 LJ74) prior to join this course. In addition, the knowledge on Building equipment system (U-ENG24 34018 LJ74), Urban Environment Engineering (U-ENG24 34052 LJ74), Lighting and Acoustics in Architecture (U-ENG24 34032 LJ74), Thermal Environment Design of Architecture (U-ENG24 34060 LJ74) is desirable.

[Evaluation methods and policy]

Score is evaluated based on reports and participation.

[Textbooks]

None specified. Practice sheet will be provided during the course.

[References, etc.]

(Reference books)

Textbooks and notebooks on the courses specified above are necessary for exercise. Function calculator must be provided by participants themselves.

[Study outside of class (preparation and review)]

Use textbooks, practice sheet for preparation and review.

(Other information (office hours, etc.))

[Office hour] Office hours are not specified but opportunity for Q&A will be arranged upon request. Contact the lecturer via mail with your name, student ID and time of your convenience up to three candidates.

*Please visit KULASIS to find out about office hours.

Continue to 建築環境工学演習(3)

建築環境工学演習(3)

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	ımbo	er U-EN	G24 4	4027 LJ74							
Course title (and course title in English)	建鲜 Arc	新画学II hitectural Plan	nning	II		Inst nan and of a	ructor's ne, job tit departm ffiliation	ile, ient	Graduate Scl Professor,M	nool of Engineering IURA KEN	
Target yea	r	4th year students of	or above	Number credits	r of		2	Year	/semesters	2024/First semester	
Days and periods	v	Ved.3	Clase	s style	Lecture (Face-t	to-fa	ce cours	se)	Language of instruction	Japanese	
[Overview	and	d purpose o	f the	course]							
and design. the relations planning and of thought in architectural such as the b studies #821 interaction.	In ot hip t d des the plan behav 1 tal	her words, thi between huma ign of a living theory and pr nning based o vioral and cog king a method	of and s class uns and g envis cactice n the s gnitive lology	s provides a d their envir ronment (th of architec study of hur sciences), that views	nethous an outlir ronment at inclu tural pla nan-env and hov archited	des anni viron v to a	The first for a method architec ng, we want in apply th apply th	that ev that ev ture). A vill ex teracti is apping as t	ctural and envolved observing, rec valuation as the After an initial plain a new a on (which indo roach to plant he design of	cording, and evaluating be basis for the al overview of schools pproach to corporates disciplines ning and research case human-environment	
[Course o	bjec	tives]									
To foster the environment C. Practical C1. The abil	e pra t skill lity to	ctical ability t s o create build	o desi ings.	gn architect	tural spa	ace t	based on	the in	teractions of	humans with their	
[Course s	che	dule and co	ntent	ts]							
Introduction followed by	: 1 s an e	ession, Overv xplanation of	iew of the le	f the social a cture's posit	aspects, tioning.	role	es, and s	ignific	ance of archi	tectural planning,	
Environmen environmen ^a application (tal B tal bo exan	Sehavior Theo ehavior studie uples.	ory: 1 s s, lear	session, Exp ming about	plains th their rel	ie po latio	ositionin nship w	g of ei ith arc	nvironmental hitectural pla	psychology and nning issues and their	
Informatics in Architecture, Urban, and Regional Planning: 1 session, Learning about mathematical analysis methods in architecture and urbanism, isovists, and their application examples.											
Universal D elderly and p accident pre	esigi peop vent	1 & Barrier-Fr le with disabi ion, and usabi	ree La lities, llity.	w: 2 session universal de	ns, Lear esign, a	ning nd b	g about a arrier-fr	archite ree law	ctural planning from the per	ng that considers the spectives of safety,	
Idea Genera and design	Idea Generation & Workshop: 3 sessions, Learning about methodologies to deepen idea generation, creativity, and design thinking. Exploring and refining methods for stakeholder workshops and finding clues for design										

建築計画学II(2)

and planning.

Planning Theories of Various Building Types: 4 sessions, Learning about considerations and design policies for various building types (such as elementary schools, public facilities, and environmental design) that designers should understand.

Final Exam / Confirmation of Learning Achievement: Summarize the lecture and evaluate learning achievements.

Feedback: 1 session

Note: Online classes may be conducted with prior notice when expecting greater educational effects than inperson classes, such as inviting external lecturers.

[Course requirements]

None

[Evaluation methods and policy]

Based on written reports (50%) and final report (50%)

[Textbooks]

Classes will make use of printed handouts and projected slides.

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Subjects will be given written reports to be completed outside class, with corresponding presentations in class.

(Other information (office hours, etc.))

Appointments can be made by email.

*Please visit KULASIS to find out about office hours.

Course nu	mber	U-EN	G24 34	4028 LJ74								
Course title (and course title in English)	建築生 Construe	產II ction Engin	neering	and Manage	ement II	Inst nan and of a	tructor's ne, job tit I departm Ifiliation	ile, nent	Graduate Scl Professor,KA Graduate Scl Associate Pro Part-time Le	hool of Engineering ANETA TAKASHI hool of Engineering fessor,NISHINOSAYAKA cturer,KIUCHI TOSHIO		
Target year	3rd y	vear students	or above	Number credits	of		2	Year	/semesters	2024/Second semester		
Days and periods	Tue.	1	Class	s style	Lecture (Face-t	o-fa	ice cours	se)	Language of instruction	Japanese		
[Overview	and p	urpose c	of the	course]								
Planning and management be also expla	manag and con ined wi	ement menstruction th the late	thod in techno st proj	n building c ology, integ ject reports.	construc grated w	tion 'ith i	project informat	will be	e explained. (d communica	Construction ation technology, will		
[Course of	ojectiv	es]										
To acquire th C-C1.	To acquire the basic knowledge on supervision and construction management. C-C1.											
[Course so	chedul	e and co	ntent	s]								
 Introduction Construction Textbook Cl Planning Construction Textbook Cl Manager Project team Textbook Cl Project ma Building Inf Textbook Cl Project ma Building Inf Textbook Cl Project ma Building Inf Textbook Cl Foreight by V Textbook Cl Final exa 16. Feedback 	on n process napter 7 g and m n planni napter 8 ment m design napter 1 nageme ormatic napter 1 ruction n planni fisiting napter 9 minatic	anagement ng and ma g, 10, 10.1 ethod , informat 0, 10.5-10 ent and IC on Modeli 0, 10.7-10 Control ng and co Lecturer H 0, 11 on/ Learnit	n draw at anagen -10.4 ion an).6 T ng and).8 ntrol. Kiuchi. ng ach	vings and sp nent. Consi d reporting other appli	dering s system ications valuatio	ions sche , pro	3. dule, qu ocureme	ality, c nt syst	cost, safety, e em, Value en	environment. ngineering.		
Lourse re	quiren		-4: T		134							
Requested to	master	"Constru	ction E	ingineering	; and Ma	anag	gement I	" 1n ad	vance.			

Continue to 建築生産II(2)

建築生産II(2)

[Evaluation methods and policy]

* Evaluation method

Evaluation will be based on final examination (80%) and participation in class (20%).

Evaluation for participation in class includes attendance and short reports conducting every class.

* Evaluation policy

Achievement of goals is evaluated according to the grade evaluation policy of the undergraduate / graduate school of Engineering.

[Textbooks]

Shuzo FURUSAKA [®]KENCHIKU-SEISAN₂ (Riko Tosho) ISBN:978-4-8446-0863-9

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Read the textbook before and after the lecture.

(Other information (office hours, etc.))

Contact to: kaneta@archi.kyoto-u.ac.jp

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										1.2.2.00	
Course nu	umbe	er U-EN	G24 34	4029 LJ74							
Course title (and course title in English)	建鲜 The	き論 ory of Archite	ecture			Inst nan and of a	ructor's ne, job tit departn ffiliation	tle,] nent	Graduate School of Engineering Professor, TAJI TAKAHIRO Graduate School of Engineering Assistant Professor, HAYAKAWA SAYU		
Target yea	r	3rd year students o	or above	Number credits	of		2	Year/	semesters	2024/First semester	
Days and periods	v	Ved.3	Class	s style	Lecture (Face-t	o-fa	ce cour	se)	Language of instruction	Japanese	
[Overview	and	d nurnose o	f the	coursel							

Through an inspection of discourse concerning architecture, this course will investigate a range of architectural theory. This course will describe the historical significance of architecture as a discourse, and the potential for its reflection back on architectural behavior, while taking up the architectural theory of architects such as Vitruvius, Alberti, and Piranesi, and the architectural theory of philosophers such as Plato, Val#233ry, and Derrida (Takeyama).

This course will explain the scope of the subject of architectural theory, which questions the meaning of architecture. It will examine the various architectural theories associated with keyword topics, from Western Classical to Modern, based in particular on the thinking of Tomoya Masuda and Keiichi Morita, who contributed to the creation and development of architecture in Japan. It will also consider the relationship of architectural theory with humanities such as philosophy and art theory. We will take specific architects together, and analyze the mental working in their architectural thinking and production. (Taji)

[Course objectives]

The Range of Architectural Theory - 7 classes: (1-2) On the discourse of everything as architecture. (3-4) On the discourse of architecture as frozen music. (5-7) On the historical significance of architecture through the discourse of architects and philosophers, and possible reflections back onto architectural behavior. (Takeyama)

Topics and Methods in Architectural Theory - 1 class: The scope of architectural studies is thought to have two phases (the production and reception (use) of buildings), and three standards (empirical, theoretical, and ideal). This lecture will consider the position of architectural theory within such a scope and examine themes in architectural theory. (Taji)

Basic Concepts in Architectural Theory 1 (6 classes): (1) Architecture: This lecture will confirm that the orginal meaningi of "architecture" is a construction from principles, and describe the meaning of "principles" and "construction." (2) Composition: This lecture will discuss the ideological meaning of geometry based on architectural forms and its historical development. (3) Space: This lecture will outline theories of space pioneered by phenomenology and explain human perception and spatial phenomena. (4) Place: This lecture will explain place as constructed and interpreted by humans, based on existential philosophy (Heidegger, etc.). (5) Light: This lecture will introduce the observations of gestalt psychology concerning the phenomenon and spatial nature of light and consider its symbolism. (6) Nature: This lecture will explain how nature has been imitated and interpreted as a basis for architecture. (Taji)

Student Assessment - 1 class: An assessment of whether a basic knowledge and understanding of architectural theory has been obtained.

Continue to 建築論(2)

建築論(2)

[Course schedule and contents]

The Range of Architectural Theory - 7 classes: (1-2) On the discourse of everything as architecture. (3-4) On the discourse of architecture as frozen music. (5-7) On the historical significance of architecture through the discourse of architects and philosophers, and possible reflections back onto architectural behavior. (Takeyama)

Topics and Methods in Architectural Theory - 1 class: The scope of architectural studies is thought to have two phases (the production and reception (use) of buildings), and three standards (empirical, theoretical, and ideal). This lecture will consider the position of architectural theory within such a scope and examine themes in architectural theory. (Taji)

Basic Concepts in Architectural Theory 1 (6 classes): (1) Architecture: This lecture will confirm that the orginal meaningi of "architecture" is a construction from principles, and describe the meaning of "principles" and "construction." (2) Composition: This lecture will discuss the ideological meaning of geometry based on architectural forms and its historical development. (3) Space: This lecture will outline theories of space pioneered by phenomenology and explain human perception and spatial phenomena. (4) Place: This lecture will explain place as constructed and interpreted by humans, based on existential philosophy (Heidegger, etc.). (5) Light: This lecture will introduce the observations of gestalt psychology concerning the phenomenon and spatial nature of light and consider its symbolism. (6) Nature: This lecture will explain how nature has been imitated and interpreted as a basis for architecture. (Taji)

Student Assessment - 1 class: An assessment of whether a basic knowledge and understanding of architectural theory has been obtained.

[Course requirements]

None

[Evaluation methods and policy]

Evaluation will be based on written reports on given topics.

Grade Assessment - views and levels of achievement:

Judgment will be based on students' level of understanding of the classes, and whether students have any fresh perspectives that emphasize the deepening of their own understanding.

[Textbooks]

Instructed during class

[References, etc.]

(Reference books)

Introduced during class To be indicated as appropriate

[Study outside of class (preparation and review)]

Read the material introduced in the class.

Continue to 建築論(3)

建築論(3)

(Other information (office hours, etc.))

Office hour: before and after lectures

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

						未更新
Course number	U-ENG24 34	030 LJ74				
Course title (and course title in English)	地域論 of Living Space i	in the Region	Instructor's name, job tir and departn of affiliation	nool of Engineering ANKI KIYOKO		
Target year 3rd y	ear students or above	Number of credits	2	Year	/semesters	2024/Second semester
Days and Thu. periods	2 Class	style Lecture (Face-	e to-face cour	se)	Language of instruction	Japanese
[Overview and pu	urpose of the o	course]				
planning. We should concern and design t contemporary planni ongoing activities. For the architectural understanding of urb and systems.	know spacial as he physical aspec- ing, we collabora students, it is nec- ban planning theo	well as historical cts as well as soci te within and with cessary to study th ry and systems, a	views. In th al aspects of nout local co ne ways to d s well as to t	e Urba the liv ommun esign t find the	an and Rural I ving spaces. S ities, while co he living space e new ideas fo	Planning, we should Specially in the cooperating with global ces with deep or updating such theory
[Course objective	es]					
B.Basic and Professi Planningoriented vie Planning、E.Global	ional Knowledge w, C.Practical S View for Plannin	s、B2.Architectu Skills、C2. Abilit ng、E2. Ability to	ral Design a ty to underst o understand	nd Liv and So l globa	ing space Des ocial aspects o l and local cu	sign with of Architecture and lture
[Course schedul	e and contents	5]				
 Building Control the single site and f Zoning systems, ro Land Use Planning Micro scale plant district plan, comm district plan, comm district plan system Community action, Landscape and T History of the deba Conservation and C Landscape planning Open space desig Urban developmen Parks and Open space Space for traffic Urban Planning Ro Zone in the cities (Ja 	and Developmen facing street (hist les, advantages, o ; - urban land use ning and design, unity agreements in Japan and in participation, his own scape (2 cla tes and communi Creativity g zone, Conserva gn (2 classes) t and open space aces, Networks for en space, Childre (1 class) ad Designation (apan, Germany)	nt Control, From o oric area and narr disadvantages , rural land use, n community identi s regulation and a Germany story of participat asses) ity actions related tion area design, design, Ecologica or the safety of the en's participation, Japan), Public tra	one site till t ow streets) s atural land u ity and distri ctivities cory planning Landscape Heritage are al design e living spac Play park, N ansport desig	he regi Simula Ise ct plan g and c disfigu a, Natu ess Mainter gn and	ion(3 classes) ition of the tra (2 classes) lesign, Machi urement ural and Cultu nance and par city center de	ansition of the area dukuri aral Landscape cticipation evelopment, Pedestrian
				ີເ	Continue to	都市・地域論(2)

都市・地域論**(2)**

- (6) Development Project Design, Urban Regeneration (2 classes)
- Land readjustment, History of (rural and urban) land readjustment
- Development Project regulations, incentive planning,
- Urban sprawl, Mini-Development(Japan), Gated community development
- (7) Master Plan, Regional Plan (1 class)
- Urban planning district master plan, Urban Planning master plan
- Comprehensive plan for the local government
- Urban Shrink design, Change of the urban policy, population flame,
- (8) History of Modern urban planning (1 class)
- History of Urban theory
- History of Planning
- (9) Home work feed back (1 class)

[Course requirements]

None

[Evaluation methods and policy]

- 2 home works (40%) and Examination(at the official examination term)(60%).
- The assignments for 2 home works will be shown during the lectures.

[Textbooks]

The prints will be distributed in each time.

The pdf files same with the prints will be uploaded on PandA.

[References, etc.]

(Reference books)

For the reference: 「地域共生の都市計画 第二版」三村浩史著 学芸出版社(2005年) isbn4761531290

Other remarks : We will introduce the information of seminar, exhibition, or book related the lectures if any.

[Study outside of class (preparation and review)]

The PDF files uploaded on PandA is with full color and easy to identify. Those will be uploaded a little before each lectures in order to provide the more precise understanding of the plans and diagrams.

(Other information (office hours, etc.))

[Office hours] every monday, during the lunch break and in the afternoon (lecture room) Please get in contact previously by email (kanki@archi.kyoto-u.ac.jp).

*Please visit KULASIS to find out about office hours.

Course nu	r U-EN	U-ENG24 34032 LJ74								
Course title (and course title in English)	建築 Light	建築光・音環境学 Lighting and Acoustics in Architecture					ructor's ne, job ti I departn Iffiliation	tle, nent	Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,OOTANI MAKOTO	
Target yea	arget year 3rd year students or above R			Number credits	lumber of redits			Year/semesters		2024/First semester
Days and periods	М	on.1	Class	s style	Lecture (Face-t	o-fa	ice cour	se)	Language of instruction	Japanese
[Overview and purpose of the course]										

These lectures will cover the theory and techniques relating to acoustics, lighting, and color (among the fundamental physical environmental elements to be considered in architectural design for realization of a comfortable and safe environment), and their applications in actual design. In order to take the course, students must have a basic understanding of related topics (covered in Architectural Environmental Engineering II).

[Course objectives]

For students to learn the theory and associated techniques required for architectural design relating to acoustics, lighting, and color, and how to apply them to actual design. Of the learning and education objectives listed by the department: C: Practical Skills C1: The ability to create buildings.

[Course schedule and contents]

Measurement and Evaluation of Sound and Acoustic Material - 3 classes: These lectures will explain basic matters relating to the measurement of the physical properties of sound, as well as explaining various acoustic measures in noise and room acoustics and outlining how to measure them.

Noise Control Design - 2 classes: These lectures will explain the processes relating to interior and exterior noise (from generation to propagation and sound absorption), and related properties; they will also outline various noise countermeasures that can be taken in those processes.

Room Acoustic Design - 2 classes: These lectures will outline fundamental topics and methods for optimizing sound fields in rooms for its their given purposes. Room Acoustics has developed with the transition of Hall Acoustics. The historical circumstances will also be explained here.

Lighting Environments for Clear Vision and Visual Ability - 2 classes: These lectures will explain topics that must be considered for the design of a lighting environment that is comfortable and safe, on the basis of human visual ability. The lectures will cover light and vision, luminance contrast and visibility, clear vision conditions, glare, brightness perception, and the effect of aging on vision.

Architectural Lighting Evaluation and Design - 2 classes: These lectures will outline basic methods for the consideration of architectural lighting, and the psychological effects of the lighting environment. The lectures will cover the calculation of indirect illuminance in a room, daylight and artificial lighting, natural lighting, methods and examples of architectural lighting, and psychological evaluation of lighting environments. Color Engineering and illumination - 3 classes: These lectures will explain the fundamentals of color engineering, from the CIE XYZ color system to uniform color space, and their applications for illumination

engineering, from the CH2 X 12 color system to uniform color space, and their applications for multimation engineering. Lectures will cover xy chromaticity diagrams, calculating additive color mixtures, uniform color space and color difference, color temperature, and color rendering index.

Student Assessment - 1 class: Assessment of students' understanding and application of course material.

_____Continue to 建築光・音環境学(2)

未更新

建築光・音環境学(2)

[Course requirements]

Students must have taken Architectural Environmental Engineering II.

[Evaluation methods and policy]

Evaluation will be based on final examination scores.

[Textbooks]

松浦邦男、高橋大弐 『エース建築環境工学I(日照・光・音)』(朝倉書店) ISBN:4254268629

[References, etc.]

(**Reference books**) Introduced during class

[Study outside of class (preparation and review)]

Students are required to prepare by reading textbook sections prior to each lecture.

Additionally, students shall deepen their understanding by reviewing material covered after each lecture and ask their instructors about any points that are unclear

(Other information (office hours, etc.))

Office hours (taking questions): Questions will be taken as appropriate. Students are to make an appointment with the relevant teacher.

*Please visit KULASIS to find out about office hours.

Course nu	r U-EN	U-ENG24 34034 LJ74									
Course title (and course title in English)	建築 Anal	插造解析 lytical Metho	ds of I	Building Str	uctures	Instructor's name, job title, and department of affiliation			Disaster Prevention Research Institute Professor,IKEDA YOSHIKI Graduate School of Engineering Professor,ARAKI YOSHIKAZU		
Target yea	r :	3rd year students of	year students or above Number of credits				2	Year/semesters		2024/Second semester	
Days and periods	W	/ed.2	Class	s style	Lecture (Face-t	o-fa	ice cour	se)	Language of instruction	Japanese	
Overview and purpose of the course											

An elementary outline will be given including the finite element method used for building structural design, as well as various structural analysis methods, dynamic properties of the building frame and its constituent elements, mechanical properties of plates, and the design method.

[Course objectives]

Learning the basics and applications of structural analysis methods, the basic theory of dynamics, and the basic theory of the parallel plate. The educational goal is to acquire expert and basic knowledge. Among the learning and educational goals listed in the department, the goal is to have C. practical ability and C1. the ability to realize buildings.

[Course schedule and contents]

Structural design and structure analysis method (4 times):

Lectures will be given on the fundamental and applied structural analysis method utilized in building structure design. First, the characteristics of various structural analysis methods will be introduced, including the finite element method used for building structural design by using actual building design examples. Next, the finite element method will be explained, as well as its basic theory and application, and the analysis accuracy and the application method in actual building structure design will be explained. In addition, the construction and application of a dynamic model necessary for actual structural design will be outlined.

Building vibration analysis (6 times):

The basics of models and analysis methods used in vibration analysis of buildings are explained linking them to vibration theory. First, we show how to construct the equations of motion of the multi-degree-of-freedom lumped mass model, and explain the eigenvalue problem in order to derive the vibrational characteristics inherent to buildings from the equations of motion. Next, we introduce the diversity of damping models and explain eigenvalue problems based on state equations to deal with a variety of damping models. We introduce seismic response analysis methods in the time domain and frequency domain, and derive formulations of discrete-time systems of equations of motion and equations of state in the time domain. In relation to this, the finite difference method and numerical integration method are explained. In structural response analysis, the modal superposition method is also utilized in conjunction with the eigenvalue problem. Models considered here include bending and shear vibration models, and models of torsional and locking vibrations. We handle analysis models not only from the viewpoint of earthquake-resistant structures but also from the seismic isolation and vibration control structures. In order to understand the vibration of the continuum, the basics of elastic wave theory are explained, and the model of the continuum and its vibration analysis are also mentioned. Note that we mainly deal with vibration analysis in the linear range.

Continue to 建築構造解析(2)

建築構造解析(2) Theory of flat plate structure (3 times): Dynamic theory, analysis method, and the design method of parallel plate structural elements, such as walls

and floors, will be explained. The linear governing equation of parallel plates subjected to in-plane deformation under the assumption of plane stress will be introduced, as well as the solution using the Fourier series. Next, the governing equations of parallel plates subjected to the out-of-plane bending deformation based on the assumption of normal line preservation will be derived, and several examples of solution methods will be outlined. In addition, the basic idea of parallel plate element design and usage in actual buildings will be explained.

Basics of shells and cables (1 time):

Equilibrium equations of shell of revolution are explained as the simplest example of shell structure, and analytical formulation is presented for the shape of hanging cable.

Final Exam. (1 time): A feedback class, including posting example model answers on KULASIS, will be conducted.

[Course requirements]

Building structural mechanics I, II, and III

[Evaluation methods and policy]

The evaluation will be done by the final exams, and the achievement level of the course will be confirmed.

[Textbooks]

Not used Not used

[References, etc.]

(Reference books)

Introduced during class To be introduced during the class

[Study outside of class (preparation and review)]

To be indicated during the lecture

(Other information (office hours, etc.))

[Office hours] (reception of questions, etc.) It will be indicated during the lectures.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

Continue to 建築構造解析(3)

建築構造解析(3)

(2) Details of instructors ' practical work experience related to the course

Course nu	umbo	er	U-ENG24 34035 LJ74									
Course title (and course title in English)	建築基礎構造 Building Foundation Engineering						Instructor's name, job title, and department of affiliation			Disaster Prevention Research Institute Professor, Yuki Sakai Graduate School of Engineering Associate Professor, KOHEI FUJITA Disaster Prevention Research Institute Associate Professor, NAGASHIMA FUMIAKI		
Target year 4th y			year students or above Number of credits			of		2	Year/	semesters	2024/First semester	
Days and periodsMon.2Class styleLecture (Face-				co-face course)			Language of instruction	Japanese				
[Overview and purpose of the course]												
In order to support an architectural structure safely on the ground, it is necessary to evaluate the behavior of the foundation structure supporting that architectural structure and investigate its safety. The behavior of the												

the foundation structure supporting that architectural structure and investigate its safety. The behavior of the foundation structure is influenced not only by the foundation structure itself, but also largely by the dynamic behavior of the ground. Therefore, this course will first describe the fundamental dynamic characteristics of soil and ground. Then, the behavioral characteristics, the mechanisms and methods of evaluation when a load is applied from the superstructure or the ground to a foundation structure that has been installed on the ground's surface or underground, will be explained.

[Course objectives]

Learn basic knowledge of soil and ground, understand basic theory of the load applied to ground and foundation structure and its behavior due to the load, and acquire the basic ideas necessary for designing and considering the safety of building foundation structures.

Among the learning and education objectives listed by the department: B. Expertise and Basic Knowledge, B3. Ability to understand the structural aspects of architecture.

[Course schedule and contents]

Outline of Architectural Foundation Structures, 1 time, This lecture will outline the overall position relating to soil engineering and foundation structures so that students are able to understand the position of content that they will learn in the course.

Mechanical Behavior of Soil (Basics), 2 times, The characteristics of the behavior of soil when force is applied, can be divided on the basis of whether the force is compressive or shear. These lectures will explain the fundamental characteristics of mechanical behavior of soil as an elastic body.

Mechanical Behavior of Soil (Clay Soil and Sand), 2 times, These lectures will explain about consolidation settlement of clay soil and liquefaction of sandy ground.

Shear Strength of Soil, 2 times, These lectures will explain the shear strength, and active and passive earth pressure of soil.

Earthquake Damage to Building Foundation Structures, 2 times, These lectures will explain the characteristics of building foundation structures when a load is applied, and outline the issues for building foundation structures of earthquake damage.

Behavior of Shallow Foundations, 1 time, This lecture will explain the vertical bearing capacity and settlement of shallow foundations.

Behavior of Pile Foundations, 2 times, These lectures will explain the vertical bearing capacity and horizontal resistance of piles.

Design Planning of Building Foundation Structures, 2 times, These lectures will cover evaluating the

_____Continue to 建築基礎構造(2)
建築基礎構造(2)

mechanical behavior of the ground from ground survey and explain the process of designing the foundation structure based on the evaluation results.

Student Assessment, 1 time, Assessment of the how much students have achieved the learning objectives.

[Course requirements]

None

[Evaluation methods and policy]

Based on the final examination

[Textbooks]

Not used

[References, etc.]

(Reference books)

Fumio Kuwahara [©]Geotechnical Engineering (Morikita Publishing) ISBN:978-4627505117 Koji Tominaga [©]Building Foundation Strucures (Ohmsha) ISBN:978-4274214486

[Study outside of class (preparation and review)]

Recommended to prestudy the terminology and review calculation problems.

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	umbe	er U-EN	G24 3	4036 LJ74						
Course title (and course title in English)	耐震 Eart	ī 積造 hquake Resis	tant S	tructures		Inst nan and of a	ructor's ne, job ti departn ffiliation	tle, nent	Graduate Sch Associate Profes	nool of Engineering sor, S U G I N O M I N A
Target year3rd year students or aboveNumber of credits							2	Year	/semesters	2024/Second semester
Days and periods	Ved.3	Clas	s style	Lecture (Face-t	to-fa	ce cour	se)	Language of instruction	Japanese	
[Overview	[Overview and purpose of the course]									

Seismic design of structures requires an accurate understanding of the dynamic behavior of structures during earthquakes. After providing a historical outline of earthquake damage to architectural structures and the development of earthquake-resistant structures, This course will address the properties of seismic motion, and the basics of vibrational theory based on dynamic models of structures. We will also discuss structures ' earthquake response analysis methods, response characteristics, and basic concepts and procedures related to earthquake-proof design methods.

[Course objectives]

Learn about basic theories of vibrational analysis of seismic motion in architectural structures, as well as foundational concepts of earthquake-proof design. In terms of the department 's learning/educational goals: B. Specialized knowledge and fundamental knowledge and B3. Ability to comprehend architectural structure.

[Course schedule and contents]

History of earthquake-proof structures, 1 class: We will explain the characteristics of the seismic movement of past large-scale earthquakes, as well as the characteristics of earthquake damage to structures and ground, and discuss the history of earthquake-proof structures that have developed based on experiences with earthquake damage.

Linear response in single degree of freedom systems, 7 classes: After explaining the meaning of modeling a building in a single degree of freedom system, we will discuss equations of motion in single degree of freedom systems and the vibration phenomena indicated by their general and special solutions. Based on single degree of freedom linear systems, theoretical solutions for free vibration and various types of interference (impulse excitation, step excitation, harmonic excitation, etc.) will be given, and we will discuss the ways in which a building 's natural period, damping ratio, and input seismic motion characteristics influence response. We will discuss single degree of freedom system response with random interference. First, after demonstrating single degree of freedom system vibrational analysis method and non-linearity upon response. Also, the concept of the response spectrum to random interference will be explained, and we will discuss its use in conducting earthquake resistance safety evaluations of buildings.

Multiple degree of freedom system response, 4 classes: After explaining the composition methods of equations of motion in multiple degree of freedom systems, we will discuss eigenvalue analysis and modal analysis. Also, we will discuss the torsional vibration analysis and torsional response characteristics of

Continue to 耐震構造(2)

耐震構造 (2)					

buildings.

Building response and earthquake-proof design, 2 classes: Mechanisms of the propagation of seismic motion from the epicenter to the ground of the building site will be explained, and the seismic motion amplification characteristics of the ground of the building site, as well as their influence on building response will be explained in terms of simple wave equations. Next, after describing the basic concept of earthquake-proof building design based on the dynamic analysis method, we will discuss basic methods of earthquake-proof building design and their historical development process. Finally, we will take up the topics of base isolation and vibration control as means of controlling building response and damage, discussing the basic theories and actual mechanisms underlying these, as well as design methods.

Feedback, 1 class, Students can ask questions. Those questions are answered by email etc..

[Course requirements]

None

[Evaluation methods and policy]

[Evaluation method]

Evaluation will be based on one examination.

[Evaluation policy]

Achievement of goals is evaluated according to the grade evaluation policy of faculty of Engineering.

[Textbooks]

柴田明徳 『最新耐震構造解析(第3版・補訂版)』(森北出版,2021) ISBN:9784627520943

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

Review contents of previous classes before taking every class.

(Other information (office hours, etc.))

[Office hours] (Open for questions, etc.) After end of class and e-mail.

						未更新		
Course number	U-ENG24 34	4037 LJ74						
Course title (and course 鉄筋コン title in Reinford English)	ンクリート構造 ced Concrete Str	豊II ructures II	Instructor's name, job tit and departn of affiliation	tle, nent	Graduate Sch Professor, NI Graduate Sch Associate Prot	e School of Engineering r,NISHIYAMA MINEHIRO e School of Engineering e Professor,TANI MASANORI		
Target year 3rd y	ear students or above	Number of credits	2	Year	/semesters	2024/Second semester		
Days and Mon. periods	3 Class	s style Lectur (Face-	e •to-face cour	se)	Language of instruction	Japanese		
[Overview and pu	irpose of the	course]						
[Course objective	es]							
[Course schedule	e and content	s]						
,2times,								
,4times, 6times								
,2times,								
,1time,								
Course requirem	ontel							
None	ientoj							
[Evaluation meth	ods and polic	;y]						
[Textbooks]								
[References, etc.]								
(Reference boo	oks)							
				c	ontinue to 鉄筋	コンクリート構造 II(2)		

鉄筋コンクリート構造**II(2)**

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	ımber	U-EN	G24 34	4038 LJ74							
Course title (and course title in English)	鉄骨橋 Steel(冓造II Constructio	n II			Inst nan and of a	ructor's ne, job tit I departm Iffiliation	tle, nent	Graduate Sc Professor,KC Disaster Prev Associate Profe Graduate Sc Senior Lectur	hool of Engineering DETAKA YUUJI vention Research Institute essor,KURATA MASAHIRO hool of Engineering er,INAMASU HIROYUKI	
Target yea	r 3rd	d year students o	or above	Number credits	r of		2	Year	/semesters	2024/Second semester	
Days and periods	Мс	on.2	Class	s style	Lecture (Face-1	; to-fa	ice cours	se)	Language of instruction	Japanese	
[Overview	and	purpose o	f the	course]							
This course focuses on buckling of components/frames and connections of components, factors that control the functionality and safety of steel frame structures, explaining in detail their theoretical background and discussing applications to structural design. Also, students are assigned suitable exercises to teach them practical structural design techniques.											
[Course o	bjecti	ves]									
techniques. In terms of t actual buildi	he dep ngs.	partment 's	learni	ng/educatio	onal goa	ıls, C	2. practio	cal ski	lls and C3. A	bility to construct.	
The lot 3rd			ntem	S]							
Central cor behavior of equations	npress	ion column ns with initi	Euler al defl	buckling th lection or ea	eory / c	:han ity /	ges in b bucklin	ucklin Ig load	g load due to analysis usir	boundary conditions / 1g virtual work	
The 4th clas Inelastic bu residual stre	s: Colu ickling ss upo:	umn inelasti g according n buckling l	c buck to tang load	ding; gent modulı	us theor	y an	d reduce	ed moo	dulus theory	/ the influence of	
The 5th clas Basic theor buckling of	s: Buc y of bi frames	kling slope uckling slop with unrest	deflec be defl tricted	tion and bu ection / buc horizontal	ckling o ckling o displace	of fra f fra eme	amewor mes wit nt / restr	ks; h restr: raint ef	icted horizor fects against	ital displacement / buckling	
The 6th-7th Pure torsio buckling of	class: 1 n of cc plates ,	Buckling of omponents / / buckling le	beam warpi oads o	is and buckling of comp of simply-su	ling of p oonents ipported	plate / the l pla	s; ory of la tes	ateral I	ouckling of b	eams / theory of	
The 8th clas Overview o	s: Desi of seisi	ign overviev mic design J	w of co proced	omponents lures / dema	and con anded ca	inect apac	tions and ities of o	d dema compo	anded capacition of the capacity of the capaci	ties; nnections	
The 9th-11th	he 9th-11th class: Component design;										
							• – –	c	Continue to		

鉄骨構造II(2)

Compression members / flexural members / components under bending moments and axial force

The 12th-14th class: Connection design;

Full penetration welding / fillet welding / friction connections by high-strength bolts / tensile connections by high-strength bolts

<<Final examination>>

The 15th class: Confirmation of learning attainment; confirmation of learning attainment

[Course requirements]

Would be preferable to have completed Steel Construction I, Mechanics of Building Structures I-III, and Advanced Calculus I & II.

[Evaluation methods and policy]

The score of final examination (80%), the scores of exercises assigned in the classes (20%)

[Textbooks]

Kazuo INOUE / Keiichiro SUITA 『建築鋼構造 - その理論と設計 - 』(Kajima Institute Publishing) ISBN:978-4306033443

[References, etc.]

(Reference books)

Minoru WAKABAYASHI 『鉄骨の設計』(Kyoritsu Shuppan)ISBN:978-4320076464

[Study outside of class (preparation and review)]

Prepare and review for the class using the textbook and the reference book. Enhance to understand by exercises during the classes and on the textbook.

(Other information (office hours, etc.))

Please bring a scientific calculator.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course Yuji KOETAKA (Taisei Corp., 2 years)

(3) Details of practical classes delivered based on instructors ' practical work experience Lectures are given with practical viewpoints based on the experiences of structural engineers.

Course nu	umber	U-EN	G24 340)39 SJ74						
Course title (and course title in English)	設計》 Atelie	寅習III r Practice o	f Archite	ectural De	sign III	Inst nam and of a	ructor's ne, job tit departm ffiliation	tle, (Graduate Sch Professor,HI Graduate Sch Professor,KA Graduate Sch Professor,KA Graduate Sch Professor,TC Graduate Sch Associate Prof Graduate Sch Assistant Profe	nool of Engineering RATA AKIHISA nool of Engineering ANETA TAKASHI nool of Engineering ANKI KIYOKO nool of Engineering MISHIMA YOSHIAKI nool of Engineering essor,IWAMOTO KAORU nool of Engineering essor,KIYOYAMA YOHEI
Target yea	r 3r	d year students (or above	Number credits	of		3	Year/	semesters	2024/First semester
Days and periods	Mo	n.4,5,Fri.4,5	Class	style	Semina (Face-t	r o-fa	ce cour	se)	Language of instruction	Japanese
[Overview	and	purpose o	of the c	ourse]						
[Course o	bjec ti	ives]								
[Course s	chedu	ule and co	ontents]						
,14times, ,14times,										
,2times,										
[Course re	eauire	ementsl								
None	•	-								
[Evaluatio	on me	thods and	l policy	/]						
								C	ontinue to	設計演習III(2)

未更新

設計演習**Ⅲ(2)**

[Textbooks]

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										未更新		
Course nu	umber	r l	J-ENG24 3	4040 SJ74								
Course title (and course title in English)	設計 Atelie	演習IV er Pract	7 tice of Arch	itectural De	Inst nan anc of a	tructor's ne, job tii I departn affiliation	tle, nent	Graduate Sch Professor,HI Graduate Sch Professor,M Part-time Lect Part-time Lect Graduate Sch Assistant Profe Assistant Profe	hool of Engineering RATA AKIHISA hool of Engineering IURA KEN urer,YAMAMOTO ASAKO urer,FUJIMOTO SOSUKE hool of Engineering essor,KIYOYAMA YOHEI hool of Engineering ssor,HAYAKAWA SAYURI			
Target year Bit year students or above Number of credits 3 Year/semesters 2024/Second semesters Days Seminary Seminary Seminary Seminary Seminary												
Days and periods Mon.5,Tue.3,4,5,Wed.5 Class style Seminar (Face-to-face course) Language of instruction Japanese												
[Overview	and	purpo	ose of the	course]								
issues of apa to comprehe architectural	Aims to acquire basic knowledge of architectural space design and various architectural expertise through the ssues of apartment complexes and cultural complexes. In particular, we aim to cultivate the practical ability to comprehensively express architectural programs and appropriate structural and environmental systems as architectural spaces. In principle, it will be a common issue for each affiliate.											
Students lea	rn arc	hitectu	ral abilities	to answer r	nodern	soci	al and c	ultura	l issues.			
[Course s	ched	ule an	nd content	ts]								
- Collective	Hou	sing		-								
In the first h and collectiv space, semi- lifestyle, and [Teachers:]	alf of ve resi public I the s Miura	the des idence. c space skills to , Yama	sign exercis The course , private spa) compreher amoto and s	e, students of provides ir ace, and intr isively plan tructural an	design r nstructio roductio n the stru d enviro	nult on o on o ictu onm	i-family f design f ancilla re, envir ental tea	dwell skills ry fact onme achers	ling space inc to propose th ilities to supp nt, and design ,14times]	luding shared residence e arrangement of public ort the resident's 1.		
Cultural (Compl	lex										
Public place backgrounds design skills comprehens environmen	Public places in modern society need to be able to accept the diverse values of people of all ages, backgrounds, and orientations. In the second half of the design exercise, the course provides instruction of lesign skills for a cultural facility with a complex program such as a gallery, library, and theater, and skills to comprehensively plan the structure, environment, and design. [Teachers: Ezoe, Hirata and structural and environmental teachers,14 times]											
Evaluate	Evaluate learning achievement by joint exhibitions. [2 times]											
								(Continue to	設計演習 Ⅳ(2)		

設計演習**Ⅳ(2)**

[Course requirements]

None

[Evaluation methods and policy]

Grades are evaluated based on the design works and their presentations.

[Textbooks]

Instructed during class

[References, etc.]

(Reference books)

Reference materials will be provided during classes.

[Study outside of class (preparation and review)]

Preparations are required during classes.

(Other information (office hours, etc.))

Every Tuesday 18: 00-19: 00

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

									未更新			
Course num	ber U-I	ENG24 24	041 LJ74									
Course title (and course 景 title in Th English)	観デザイン eory of Lan	ノ論 ndscape De	esign		Inst nan and of a	ructor's ne, job ti departn ffiliation	tle, nent	Graduate Sch Professor,TA Graduate Sch Senior Lecture	nool of Engineering JI TAKAHIRO nool of Engineering r,KOMIYAMA YOSUKE			
Target year	2nd year stude	ents or above	Number credits	of		2	Year	/semesters	2024/First semester			
Days and periods	Wed.5	Class	style	Lecture (Face-t	o-fa	ce cour	se)	Language of instruction	Japanese			
[Overview ar	nd purpos	e of the o	course]									
and outline the The course will proposals of a r	This course will provide an overview of theories related to urban landscapes, natural landscapes, and gardens and outline the meaning of signs, symbols, and space as concepts in environmental design methodologies. The course will describe issues related to landscape revival through a reading of the ideas and concrete proposals of a range of modern architects.											
[Course obje	ectives											
Of the learning The ability to u	Of the learning and education objectives listed by the department: B. Expertise and Basic Knowledge, B2. The ability to understand the design and planning aspects of architecture.											
[Course sch	edule and	contents	s]									
Transfiguration Since appearing the processes the each era, taking of habitation the architecture, vill Technology and architecture, vill Interpretation of architectural en These lectures explain the stru while exploring architectural an examples). (1) composition of English architecture (symbolism with architecture to be Student Assess obtained.	of Forms of g on the plan hat gave rise g them as for at should ex- llages, and t d architectur llages, town f Environm vironments will outline cture and m g various the d garden lan Built enviro landscape, cture and lan stone), (6 urban landsc ment - 1 cla	of Human I net, human e to archite rming land kist in the f towns, (3) re/towns, (6) and form ent and Co and interp the landsc neaning of eories relat ndscape co onments arr (3) Englis ndscape g b) Japanese cape. liss: An ass	Habitation, n beings ha ecture, villa dscapes alo future. (1) Urban theo (6) Commu- ms of habit omposition pretation of capes that v landscapes ting to the omposition nd landscap h architectu- ardens - 2 (, and La we built ages, and ong with Establis ories and inication. of Landsca ve create s based of spatial consect ure and (sensed ire and g	ndso var l tov arci hme d pro n an dsca ape (e an on h comp ls in land gardo r a l	cape For ious for wns, this hitectur ent of th ograms, d forms pe (Taji) d inhabi uman e position terms of y archi- lscape g lscape), ens - 2 (rmatio ms of s cours e, and e hum (4) Ar of hal i) - 7 c it arou xistence of lan of theo tecture (ardens (5) Jaj (symbol dersta	n (Takeyama) habitation. W se will trace the consider the a an sphere, (2) ncient urban la bitation, (7) The lasses: The condition nd architecture ce in terms of descape. They ries of design e, (2) Theories is -1 (landscape panese architecture bitsm with wa	 7 classes: hile looking back on the spacial concepts of the architecture and forms. The occurrence of the andscapes, (5) the future of the future of the future of the and the architectural theory, will also consider (and using specific to on the meaning and the with meaning), (4) the architecture and gardens - 1 the architecture and gardens - 1 the architecture and section the section of th			

_____ Continue to 景観デザイン論(2) 景観デザイン論**(2)**

[Course requirements]

None

[Evaluation methods and policy]

Grade Assessment Method:

Dr. Takeyama's portion of the course: Assessment will be based on short reports given in each class and written reports on a given theme.

Dr. Taji's portion of the course: Assessment will be based on written reports on a given theme.

Grade Assessment - views and levels of achievement:

Judgment will be based on students' level of understanding of the classes, and whether students have any fresh perspectives that emphasize the deepening of their own understanding.

[Textbooks]

子安増生 『芸術心理学の新しいかたち』(誠信書房)ISBN:9784414301625(竹山聖著「臨床建築 学 - 死の形式から生の形式へ」(上記所収)) traverse編集委員会 『建築学のすすめ』(昭和)ISBN:9784812215135

[References, etc.]

(Reference books) 竹山聖『独身者の住まい』(廣済堂出版)ISBN:4331509109 竹山聖『ぼんやり空でも眺めてみようか』(彰国社)ISBN:9784395010059 田路貴浩『環境の解釈学』(学芸出版)ISBN:4761523301 田路貴浩『イギリス風景庭園』(丸善)ISBN:4621047817

[Study outside of class (preparation and review)]

Read the material introduced in the class.

(Other information (office hours, etc.))

Office hour: before and after lectures

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course n	umber	U-EN	G24 44	4042 LJ74					,		
Course title (and course title in English)	耐風構 Wind	青造 Resistant S ^r	tructur	tes		Inst nan and of a	tructor's ne, job tir I departn affiliation	tle, nent	E P	Disaster Prev Professor,NI	rention Research Institute SHIJIMA KAZUYOSHI
Target year4th year students or aboveNumber of credits2Year/semester									semesters	2024/First semester	
Days and periodsTue.2Class styleLecture (Face-to-face course)										Language of instruction	Japanese
[Overview	and p	ourpose o	f the	course]							
wind pressu secure the b standards an [Course o Acquisition	re. The uilding d AIJ I bjecti of expe	course pro safety agai Recommend ves] ert and basi	vides t nst wi dations c knov	he explana nd and the s for Loads wledge on v	tion abo wind re on Bui	out ti sista lding sistar	he evalu int desig gs. nt design	n. Und	m :ho dei	ethod of des od based on rstanding of	sign wind load to the the related
	Consu					ICSIC	stant uca	sign.	_		
[Course s	chedu	le and co	ntent	s]							
Mechanism of wind genesis, 4 classes: These classes will provide an overview of the atmospheric circulation caused by the motion of the earth and the heat budget, the mechanism of wind genesis caused by low pressure system, front and topography, etc. These classes will then provide the explanation about the characteristics of strong wind, which is important for wind resistant design of building and structure with the description of its origin such as typhoon or tornado. Basics of wind force and pressure, 4 classes:										otion of the earth and and topography, etc. d, which is important th as typhoon or	
These classe also obtain e objects. Wind load	These classes will derive the governing equations of wind flow and explain the meaning of its physics. We also obtain equations for simple flows and show equations to evaluate the wind pressure on the surface of objects. Wind load, 3 classes:										
Wind load, 3 classes: These classes will explain the characteristics of natural wind, the observing technique and the prediction									and the prediction		

These classes will explain the characteristics of natural wind, the observing technique and the prediction method of wind speed for wind load estimation. We discuss the calculation method of wind loads for design.

Wind resistant design, 3 classes:

These classes will explain the vibration caused by wind pressure on the walls and the design method to secure the building against wind load, and explain the calculation method of design wind load based on the Building Standards Act and AIJ Recommendations for Loads on Buildings.

Feedback, 1 class: This class will provide feedback.

Continue to 耐風構造(2)

耐風構造**(2)**

[Course requirements]

Architectural Structural engineering, fluid dynamics, meteorology will be useful.

[Evaluation methods and policy]

Report(s)

[Textbooks]

Instructed during class

[References, etc.]

(Reference books)

AIJ ^CRecommendations for Loads on Buildings (2015) To be introduced during the class

(Related URLs)

(None)

[Study outside of class (preparation and review)]

To be indicated during the lecture.

(Other information (office hours, etc.))

Course nu	umbe	er	U-EN	G24 24	4043 LJ74							
Course title (and course title in English)	course title and course tle in anglish) 建築・都市行政 Building and Urban Administration							ructor's ne, job tit departm ffiliation	ile, nent	Part-time Lecturer, YAMAMOTO KAZUHIRO Part-time Lecturer, TAKAGI KATSUHIDE Part-time Lecturer, FUMIYAMA TATSUAKI		
Target yea	r	2nd y	ear students	or above	Number credits	of		2	Year	/semesters	2024/First semester	
Days and periodsWed.4Class styleLecture (Face-to-face course)Language of instructionJapanese											Japanese	
[Overview	and	l pu	irpose c	of the	course]							
This class w architecture an examinat	This class will deepen your understanding of the interaction of various administrative organs relating to architecture and urban planning in urban management, as well as the nature of their respective roles, through an examination of the laws concerning their delineation and the specific case of Kyoto City.											
[Course o	bjec	tive	es]									
of constructi U nderstand in urban mar U nderstand	ion a ing c nage ing t	ctivi of the men he re	ities. e interact it. oles, syste	ion of ems an	various adr	ninistra of archi	tive tectu	organs i ire and u	relatin urban j	g to architect planning relat	ure and urban planning ted laws.	
[Course s	cheo	dule	e and co	ntent	s]							
General Out organization and a view o related issue	line s of of rec s in t	- 1 c Kyo luire the p	class: Thi to City go ed archite planning,	s class overnn ctural j design	will provid nent, main personnel), a, construct	de an ou policies as well ion, and	of c as a ma	e of the construc in outlin nagemen	situati tion an e of th nt of b	on in Kyoto (nd urban plan ne roles of adm puildings in K	City (topography, ning administrations, ministrative organs and yoto City.	
Urban Plann the various s developmen Administrati	syster t pro ion a	Adm ms r jects nd c	inistratio elated to s, develor current iss	n - 3 c urban oment j sues.	lasses: The planning (l permission,	ese class and use , etc.), a	es w regu s we	vill prov ulations ell as the	ide a ł , distri e role j	nistorical and ct planning, u played by the	systematic outline of Irban facilities, urban Urban Planning	
Landscape A various syste the case of B	Landscape Administration - 2 classes: These classes will provide a historical and systematic outline of the various systems of landscape preservation and formation under the Landscape Act and Ordinances based on the case of Kyoto City, as well as the role played by the Landscape Administration and current issues.											
Architectura Administrati Administrati	l Ad ion's ion a	mini role nd c	istration - and the courrent iss	· 2 clas current sues ba	sses: These issues it fa used on the	classes ices, as case of	will well Kyo	provide as the r to City.	e a hist ole pla	torical outline ayed by the A	of the Architectural	
Architectura Building Sta of the flexib	rchitectural Law - 4 classes: These classes will provide an outline of the fundamental structure of the uilding Standards Act and related laws and regulations, and their operation in practice, as well as the outline f the flexible preservation system and the practical operation in Kyoto City.											

Continue to 建築・都市行政(2)

建築・都市行政**(2)**

Exercises - 1 class: In this class, you will gain a basic understanding of the Building Standards Act and related laws and regulations, and learn the basics of business conduct through practical case studies.

Case Study - 1 class: This class will provide a study of current issues related to construction and urban administration.

Student Assessment - 1 class: Conclusion of the course and assessment of the level of learning achieved.

Report examination - Assignment presentation at 12th lecture. / Confirmation of the learning arrival degree.

[Course requirements]

None

[Evaluation methods and policy]

Results of the report examination(80%), Attendant evaluation(20%)

[Textbooks]

Listed separately

[References, etc.]

(Reference books)

To be distributed and introduced during lectures

[Study outside of class (preparation and review)]

Use the lecture materials distributed in the class for review. Use the textbook for preparations and review for the class.

(Other information (office hours, etc.))

Office hours: (for questions, etc.) before and after lectures

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course All three part-time lecturers are Kyoto City government staff. They belong to City Planning Bureau.

(3) Details of practical classes delivered based on instructors ' practical work experience Lectures of building regulations are the educational background requirements for the architect exam.

											未更新
Course n	umb	er	U-EN	G24 4	4044 SJ74						
Course title (and course title in English)	e 設計演習 V Atelier Practice of Architectural Design V					esign V	Inst nan and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sc Professor,KJ Graduate Sc Professor,KJ Graduate Sc Professor,KJ Graduate Sc Professor,TC Graduate Sc Professor,DA Graduate Sc Professor,DA Graduate Sc Professor,DA Graduate Sc Professor,CJ Graduate School Professor,KC Disaster Prev Professor,M Graduate Sc Associate Profes Graduate Sc Associate Profes Senior Lecture Graduate Sc	hool of Engineering RATA AKIHISA hool of Engineering ANETA TAKASHI hool of Engineering ANKI KIYOKO hool of Engineering DMISHIMA YOSHIAKI hool of Engineering IURA KEN hool of Engineering NIELL , Thomas Charles hool of Engineering AJI TAKAHIRO of Global Environmental Studies DBAYASHI HIROHIDE vention Research Institute AKI NORIO hool of Engineering sor,YANAGISAWA KIWAMU hool of Engineering fessor,YOSHIDA TETSU hool of Engineering er,KOMIYAMA YOSUKE hool of Engineering pfessor,IWASE RYOKO hool of Engineering pfessor,YASUDA KEI
Target yea	r	4th ye	ear students of	or above	Number credits	r of		3	Year	/semesters	2024/First semester
Days and periods	Т	'ue.3,4	4,5,Wed.5	Class	s style	Semina (Face-1	r to-fa	ce cour	se)	Language of instruction	Japanese
[Overview	/ an	d pu	irpose o	of the	course]						
[Course o	bje	ctive	es]								
[Course s	che	dule	e and co	ntent	s]						
,29times,											
,1ume,											
L											
									C	continue to	設計演習 Ⅴ(2)

設計演習 ∨ **(2)** ,29times, ,1time, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books) [Study outside of class (preparation and review)] (Other information (office hours, etc.)) *Please visit KULASIS to find out about office hours. [Courses delivered by instructors with practical work experience] (1) Category A course with practical content delivered by instructors with practical work experience (2) Details of instructors ' practical work experience related to the course (3) Details of practical classes delivered based on instructors ' practical work experience

											未更新
Course nu	umb	er	U-EN	G24 4	4045 SJ74						
Course title (and course title in English)	構〕 Exe	告設 ercise	計演習 e on Struc	ctural I	Design		Inst nan and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sch Professor,NI Graduate Sch Professor,KC Graduate Sch Associate Pro Graduate Sch Assistant Proh Kyoto Unive Not fixed	nool of Engineering SHIYAMA MINEHIRO nool of Engineering DETAKA YUUJI nool of Engineering fessor,TANI MASANORI nool of Engineering fessor,SATOU YUUICHI ersity
Target yea	r	4th y	ear students	or above	Number credits	r of		2	Year	/semesters	2024/First semester
Days and periods]	Fri.4	,5	Clas	s style	Semina (Face-t	r to-fa	ce cours	se)	Language of instruction	Japanese
[Overview	ı an	d pu	urpose o	of the	course]						
[Course o	bje	ctive	es]								
[Course s	che	edule	e and co	ontent	ts]						
,2times,											
,2times, 5times											
,6times,											
[Course re	equ	iren	nents]								
None											
[Evaluatio	on n	neth	ods and	l polio	cy]						
[Textbook	s]										
-											
	=						_ •		- - C	continue to	構造設計演習 (2)

構造設計演習**(2)**

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

											未更新
Course nu	ımb	er	U-EN	G24 44	4046 EJ74						
Course title (and course title in English)	構 Labo	造・木 pratory	才料実験 Tests of St	ructural	Mateials and	Members	Inst nan and of a	ructor's ne, job ti I departn Iffiliation	tle,	Graduate Sch Professor, KC Graduate Sch Associate Profes Graduate Sch Senior Lecture Graduate Sch Assistant Profe Graduate Sch Assistant Profe Kyoto Unive Not fixed	nool of Engineering DETAKA YUUJI nool of Engineering fessor,TANI MASANORI nool of Engineering sor, S U G I N 0 M I N A nool of Engineering er,INAMASU HIROYUKI nool of Engineering Sessor,SATOU YUUICHI nool of Engineering ssor,TAKATSUKA KOHEI rsity
Target year	٢	4th ye	ar students o	or above	Number credits	r of		2	Year/	semesters	2024/First semester
Days and periods	I	Mon.3	3,4	Class	s style	Experir (Face-t	nent :o-fa	ce cour	se)	Language of instruction	Japanese
[Overview	an	d pu	rpose o	f the	course]						
[Course ol	bje	ctive	s]								
[Course so	che	dule	and co	ntent	s]						
,3times, ,1time, ,3times, ,2times, ,3times, ,3times,											
[Course re	equ	irem	ents]								
None											
[Evaluatio	n m	netho	ods and	polic	cv]						
									<u>c</u>	ontinue to 椿	ちょうしんしょう。 調査・材料実験(2)

構造・材料実験**(2)**

[Textbooks]

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

							未更新			
Course number	U-ENG24 44	047 LJ74								
Course title (and course title in English)	全設計 ety Design of Bi	uildings		Instructor's name, job ti and departr of affiliatior	tle, nent	Graduate School of Engineering Professor, HARADA KAZUNORI Disaster Prevention Research Institute Associate Professor, NISHINO TOMOAKI Graduate School of Engineering Associate Professor NIL DAISAKU				
Target year 4th y	ear students or above	Number credits	of	2	Year	2024/First semester				
Days and periods	Class	s style	Lecture (Face-t	o-face cour	rse)	Language of instruction	Japanese			
[Overview and pu	urpose of the o	course]								
In this lecture, basic are explained.	Even though not outstanding, many safety measures are implemented into buildings and built-environment. In this lecture, basic knowledge of fire phenomena and principles to design and maintain fire safe buildings are explained.									
[Course objective	es]									
B1:scientific ability to B4:understanding en C1:ability to realize a	to solve problem vironmental asp actual buildings	ns ect of archit	tecture							
Introduction (1 week		ວງ								
The history of fire di is presented.	sasters in buildin	ngs is introd	luced. I	Following t	he hist	ory, framewo	rk of fire safety design			
Physics and chemistr Basic knowledge of f fully-developed fires	ry of fire (6 weel fire phenomena are introduced.	ks) such as igni	tion, bı	urning, fire	plume	, initial fire sp	pread, flashover and			
Fire safety design of buildings (7 weeks) Methods for fire safety design are introduced on fire compartmentation, egress of people, firefighting activity, smoke control and structural fire resistance.										
End-term examination and evaluation of achievements (1 week) Check degree of understanding.										
[Course requirem	nents]									
Preliminary knowled ENG24 24010 LJ74] desirable.	lge on Environm is assumed. The	ental engine e knowledge	eering i e on Bu	in Architec iilding Equ	ture I[U ipment	J-ENG24 240 System [U-E	009 LJ74] and II[U- ENG24 34018 LJ74] is			
					c	Continue to	建築安全設計 (2)			

建築安全設計(2)

[Evaluation methods and policy]

Score is evaluated based on end-term examination and other materials.

[Textbooks]

Harada Kazunori [®]Kenchiku Kasaino Mekanizmuto Kasaianzen Sekkei (Mechanizm of Building Fires and Safety Design)[』] (The Building Center of Japan,2007) ISBN:978-4-889-10146-1

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

It is recommended to review the lectured contents using handouts and/or quiz distributed at the class.

(Other information (office hours, etc.))

[Office hour] Office hours are not specifed but opportunity for QampA will be arranged upon request. Contact the lecturer via mail with your name, student ID and time of your convenience up to three candidates.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	umber U-ENG24 14051 LJ74											
Course title (and course title in English)	建孚 Intr	主築工学概論<建築> ntroduction to Architectural Engineering					Instructor's name, job title, and department of affiliation			Graduate School of Engineering Professor, ARAKI YOSHIKAZU Graduate School of Engineering Professor, NISHIYAMA MINEHIRO Graduate School of Engineering Professor, KOETAKA YUUJI Disaster Prevention Research Institute Professor MATSUSHIMA SHINICHI		
Target yea	Ist year students or above Number of Credits		of		2	Year/	semesters	2024/Second semester				
Days and periods	ľ	Mon.	1	Class	sstyle	Lecture (Face-t	re -to-face course)			Language of instruction	Japanese	
[Overview and purpose of the course]												

This course will provide an overview of various building structures (wooden structures, steel structures, reinforced concrete structures, composite structures, etc.), and discuss the characteristics of structural materials that comprise architecture, as well as the structural principles of architecture. These explanations will focus on the relationship between the characteristics of various types of disturbance affecting buildings (in the natural and artificial environment), on the one hand, and the response of building structures, on the other, as well as between the target performances of architectural spaces and the combined principles of structures.

[Course objectives]

At the initial phase of the study of architectural structures, acquire the necessary fundamental knowledge and basic concepts and learn about the organization of academic systems.

[Course schedule and contents]

Building structural mechanics and structural design, 4 classes: Building structures are deformed by the effects of various loads, and internal forces arise. We will discuss the mechanics laws governing such behavior of structures and the basic concepts of building structural mechanics that predict it, without use of mathematical formulas whenever possible. We will discuss displacement and deformation, force and equilibrium, force and deformation, mechanical characteristics of structural elements such as joists, beams and columns, and various structures such as framed structures and shell construction.

Steel structure, 3 classes: These classes will explain the following: a) raw materials of steel, ironmaking techniques and their history, properties of steel material, b) examples of buildings constructed of steel material and their detailed structures, c) process from design to construction and examples of construction. We will explain the principles of earthquake-resistant structures and base isolation in a manner that is easy to understand, and present various dampers to damper building vibration.

Structural materials in buildings, concrete structures, 4 classes: These classes will discuss basic information about main structural materials such as iron, steel, concrete, and wood. With respect to concrete and steel composite structures such as RC, SRC, and CFT, we will explain foundational structural principles, principles of resistance to dead load, live load, and earthquake load, and structural detailings of buildings in practice.

Seismic design, Soil and foundations, Wooden houses, 3 classes : Our country is a leading earthquake-prone

Continue to 建築工学概論<建築>(2)

建築工学概論<建築>(2)

country in the world. It is a very important issue how to design safer buildings analyst earthquakes. The generating mechanism of earthquakes, the seismic ground motion propagation in the soil, and the response of a building are explained. Then, the foundamental concept of seismic design is explained. Moreover, basic knowledge of the soil and foundations, and wooden structure are also outlined.

Confirmation of learning attainment, 1 class: This class will summarize the course and confirm learning attainment.

[Course requirements]

None

[Evaluation methods and policy]

In addition to the final examination(80 points), an evaluation of normal points(20 points) is also performed.

[Textbooks]

Not used

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

None

(Other information (office hours, etc.))

[Office hours] Will be detailed during class.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course None

							未更新		
Course number	U-ENG	24 34052 LJ74							
Course title (and course 都市環 title in Urban) English)	境工学 Environmen	t Engineering	Instructor's name, job tit and departm of affiliation	ile, ient	Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Professor,ISHIDA TAIICHIROU Disaster Prevention Research Institute				
Target year 3rd	year students or	above Number credits	r of	2	Year	r/semesters 2024/Second sem			
Days and Thu periods	.1 C	class style	Lecture (Face-t	to-face cours	se)	Language of instruction	Japanese		
[Overview and p	urpose of	the course]							
In this course, lectures will be given on; 1) The state of the art of global environmental impact by buildings and cities, 2) Environmental control methods concerning with reduction of global warming, 3) heat island mechanism and its reduction, 4) luminous environment control in urban area, 5) mitigation of urban disaster such as by fires and tsunami.									
[Course objectiv	ves]								
The participants are situations. B1:scientific ability	The participants are to acquire knowledge on basic ideas of controlling environment in daily and emergent situations.								
B4:understanding en C1:ability to realize	nvironmenta actual build	al aspect of archi lings	itecture						
[Course schedu	le and con	tents]							
Global environment Environmental prob architectural scales.	tal problems blems are ide The role of	and architecture entified in the hi architecture in t	e (2 wee erarchy the age	eks) structure of of sustainab	globa le deve	l, semi-globa elopment is d	l, regional, urban, and iscussed.		
Development of urban area and urban pollution (1 week) During the era of urban spreading, many urban pollution problems were raised. The history of reduction of urban pollution is looked back and identify that thermal pollution is the yet-to-be solved problem on urban environment and on impact on global environment.									
The urban thermal environment (4 weeks) The reasons for urban warming such as heat island phenomenon are explained. Special emphasis is made on the mechanism of heat island, the effect of urban coverage on heat balance of urban surfaces, heat accumulation to the deep ground area, multiple reflection of solar rays, emission of urban heat generated by human activities.									
Control of urban the Various measures as	ermal enviro re discussed	onment (2 weeks such as cross ve	s) entilatio	on through u	rban a	rea, spot and/	or linear vegetation,		
[c	Continue to	都市環境工学 (2)		

都市環境工学**(2)**

high reflectance roofs, water mist, and heat recovery systems.

Sunshine planning for buildings in urban area (2 weeks)

The lectures cover effects of sunshine, calculation of sun position and sunlight illuminance, evaluation of sunshine using the sun shadow and sunlight diagrams, the building standard law on sun shadow regulations, and daylighting for a residential house. In addition, by overviewing a concept and technology of daylighting for buildings, new methods for daylight planning to achieve both energy saving and human comfort are discussed.

City fire (3 weeks)

Impacts of fires following earthquake and tsunami on urban environment are overviewed by introducing the causes of fire occurrences, the mechanism of fire spread, and the human behaviors in past large-scale fires. How fire risk in cities should be controlled is discussed.

End-term examination and evaluation of achievements (1 week) Checking degree of understanding.

[Course requirements]

Preliminary knowledge on Environmental engineering in Architecture I[U-ENG24 24009 LJ74] and II[U-ENG24 24010 LJ74] is assumed. The knowledge on Building Equipment System [U-ENG24 34018 LJ74] is desirable.

[Evaluation methods and policy]

Score is evaluated based on end-term examination and other materials.

[Textbooks]

None specified. Handouts will be supplied on site.

[References, etc.]

(Reference books)

To be suggested during the course.

[Study outside of class (preparation and review)]

It is recommended to review the lectured contents using handouts and/or quiz distributed at the class.

(Other information (office hours, etc.))

No explicit office hours are designated. If participants need to have time for questions, contact the teachers via E-mail with his/her name, student number and request for schedule of meeting.

Course number	U-ENG24 3	4053 LJ74								
Course title (and course title in English) 行動・建築デザイン論 Instructor's name, job title, and department of affiliation Disaster Prevention Research In Professor, MAKI NORIO										
Target year3rd year students or aboveNumber of credits2Year/semesters20								2024/First semester		
Days and Tue.4 periods	4 Clas	s style	Lecture (Face-t	o-fa	ce cour	se)	Language of instruction	Japanese		
[Overview and pu	urpose of the	course]								
This course gives the basic knowledge of architecture and space design from the view pont of the relation between man and behavior. The topics on scientific methods of man-environment studies are explained. Natural disaster will be highlighted in this lecture. Various design practices based on these principles, such as housing after natural disaster, disaster and build environments, design for disaster reduction, and design for safer communities will be discussed.										
[Course objective	es]									
To understand the ar	rchitectural and	urban space	es from t	he v	viewpoi	nt of re	elation with d	isaster.		
[Course schedul	e and conten	ts]								
[Course schedule and contents] Various Concepts on Human behavior and Environment, 2times, Man perceives environment based on diverse information such as form, color, movement, sound, and fragrance, acts in environment, reads environment as the significant world, and memorizes the place and landscape of environment. We explain such mechanism on perception, behavior, cognition, and memory in Man-Environment relations. Moreover we refer to the fundamental characteristics of human behavior including concept of identity and orientation, roundabout route, excursion characteristics, prospect and refuge, ordinary and extra-ordinary behavior. disaster and environmental transition, 3times, Basic understanding about disaster and build environment will be discussed. And the relationship among disaster, man, and environment will be explained based on environment design. Disaster and Cities, 3times, Impact of disaster to cities will be discussed from the view point of behavior and man-environment design. CEPTED, 2times, Design for crime prevention will be explained based on CEPTED (Crime Prevention through Environment Design). Design for Disaster Risk Reduction, 2times, Design scheme for Disaster risk reduction will be explained based on Affordance, and risk communication. Confirmation of the learning degree, 1time, Summary of the lecture and evaluation of the learning degree FeedBack, 1time.										

行動・建築デザイン論**(2)**

[Course requirements]

None

[Evaluation methods and policy]

by term-end examination

[Textbooks]

using handout prints and slides

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Read the newspaper article on disaster

(Other information (office hours, etc.))

Please contact to the following e-mail; maki.norio.8v#kyoto-u.ac.jp (# should be changed to `)

Course nu	Course number U-ENG24 34054 LJ74									
Course title (and course title in English)	建算 Apj	条応 Died	用数学 Mathema	atics fo	or Architect	ure	Instructor's name, job tit and departm of affiliation	tle, nent	Graduate School of Engineering Professor,OOSAKI MAKOTO Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Professor,OOTANI MAKOTO Disaster Prevention Research Institute Professor,NISHIJIMA KAZUYOSHI	
Target yea	rget year 3rd year students or above Number of credits				2	Year/	semesters	2024/First semester		
Days and periods	I	Fri.3		Class	s style	Lecture (Face-t	o-face cour	se)	Language of instruction	Japanese
[Overview and purpose of the course]										
Applied Mathematics required for understanding architecture such as architectural planning, structural design, environmental design is taught. It is aimed that students will acquire the ability to understand and analyze the architecture from mathematical viewpoint.										
[Course objectives]										

Successful students will be able to describe and analyze phenomena related to architecture with mathematics. In particular, among the learning and education objectives listed by the department: B, B2, D and D1 will be acquired.

[Course schedule and contents]

Application of differential equations to architecture (Nishijima)

- 1. Ordinary differential equation: Applications of ordinary differential equations to analysis of architecture
- 2. Partial differential equation: Applications of partial differential equations to analysis of architecture

Applications of probability to architecture (Nishijima)

- 3. Reliability analysis, application to analysis of architecture
- 4. Monte Carlo simulation, application to analysis of architecture

Applications of Fourier transform to architecture (Otani)

- 5. Fourier series and transform
- 6. Impulse responses, convolution, analysis of linear system
- 7. Correlation function, spectrum, applications to analysis of architecture

Applications of Laplace transform to architecture (Ogura)

- 8. Definition of Laplace transform and characteristics
- 9. Applications to solutions to ordinary differential equations
- 10. Applications to solutions to partial differential equations, applications to analysis of architecture

Applications of optimization methods to architecture (Ohsaki)

11. Formulation of optimization problems, condition of optimality

12. Methods of optimizations, applications to analysis of architecture

Continue to 建築応用数学(2)

未更新

建築応用数学(2)

Applications of calculus of variation to architecture (Ohsaki)

13. Definition of functional, Euler's equation

14. Method of Ritz-Galerkin, applications to analysis of architecture

15. Verification of how students understand: Check how students understand the contents in previous 14 classes. (All)

[Course requirements]

Calculus, mathematical statistics and industrial mathematics C are prerequisite.

[Evaluation methods and policy]

Final examination

[Textbooks]

Katoh, Hokoi, Takahashi, Ohsaki [®]Mathematics for architectural engineering, (in Japanese) ¹ (Asakura Shoten,) ISBN:978-4-254-11636-6

[References, etc.]

(Reference books)

松下泰雄著 『フーリエ解析 基礎と応用』(培風館) ISBN:9784563011093 (textbook used in industrial mathematics C)

E.クライツィグ著、阿部寛治訳 『フーリエ解析と偏微分方程式』(培風館)ISBN:4563011177(reference used in industrial mathematics C)

小林昭七著 『曲線と曲面の微分幾何』 (裳華房, 1995) ISBN:478531091X (reference used in industrial mathematics C)

Other references may be provided in classess.

[Study outside of class (preparation and review)]

Explained in the class.

(Other information (office hours, etc.))

Please contact teachers in advance when you have questions.

							未更新		
Course numbe	r U-ENG	G24 34055 LJ74							
Course title (and course title in Arch English)	情報システ itectural info	ム学 rmation Systems	Instructor's name, job ti and departn of affiliation	tle, nent	Graduate School of Engineering Professor,KANETA TAKASHI Graduate School of Engineering Associate Professor,NISHINOSAYAKA				
Target year	arget year3rd year students or aboveNumber of credits2Year/semesters2024/Fin								
Days and Tr periods	ue.3	Class style	Lecture (Face-t	o-face cour	se)	Language of instruction	Japanese		
[Overview and	purpose o	f the course]							
Information mode construction proje	eling on archi ect will be int	tecture will be le roduced.	ectured.	Also researd	ch and	development	applied to building		
[Course object	tives]								
To acquire the ba in architectural de D-D1	To acquire the basic knowledge of operations research, information and communication technology applied in architectural design and planning. D-D1								
[Course sched	lule and co	ntents]							
 1-3. Outline on architectural information system Techno-literacy, knowledge management. 4-7. Mathematical programming Linear programming, Non-linear programming, Integer programming, Graph theory, Meta-heuristics, Fuzzy theory. 8-11. Building information modeling 12-14. Application to architecture and urban engineering 15. Final examination/ Learning achievement evaluation 16. Feedback 									
[Course requir	ements]								
Basic knowledge should be mastere	on mathemated.	tics. quotComput	tational I	Practice on .	Archit	ectural Desig	n and Engineeringquot		
[Evaluation methods and policy] * Evaluation method Evaluation will be based on final examination (80%) and participation in class (20%). Evaluation for participation in class includes attendance and short reports conducting every class. * Evaluation policy Achievement of goals is evaluated according to the grade evaluation policy of the undergraduate / graduate school of Engineering.									
					,	 Continue to 建约	築情報システム学 (2)		

建築情報システム学**(2)**

[Textbooks]

Instructed during class

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Read the material introduced in the class.

(Other information (office hours, etc.))

Contact to: kaneta@archi.kyoto-u.ac.jp

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

										未更新		
Course nu	ımbe	er U-ENG	G24 14	4057 LJ74								
Course title (and course title in English)						Inst nan and of a	ructor's ne, job ti I departn Iffiliation	tle, nent	Graduate Sch Associate Prof	Fraduate School of Engineering		
Target yea	r	1st year students o	or above	Number credits	of		2	Year	/semesters	2024/First semester		
Days and periods	Т	`ue.3	Class	s style	Lecture (Face-t	o-fa	ice cour	se)	Language of instruction	Japanese		
[Overview	and	d purpose o	f the	course]								
The objectiv the housing	e of in wl	this course is hich the reside	for stu ents of	idents to un f those citie	iderstan s have l	d th ivec	e histori l and ac	ical ch ted alo	aracteristics ong the course	of Japanese cities and of history.		
[Course o	bjec	tives]										
Students will learn an outline of the history of Japanese cities and housing and acquire the basic principles used to shape society in the present and future.Of the learning and education objectives listed by the department: B. Expertise and Basic Knowledge, B2.The ability to understand the design and planning aspects of architecture.												
[Course s	chee	dule and co	ntent	s]								
1 What is ur 2 Spatial stru 3 Transform 4 Central an 5 Medieval n 6 Castle citic 7 Urban cult 8 Early mod 9 Kyoto in th 10 Osaka in 11 Edo in th 12 Local citi 13 Urban mod 14 Modern u 15 Feedback Student Asso	ban l actur atior d loc religi es in ure s ern g he ea the e e ear es in oderr urban	history? re of ancient c n of ancient ci cal cities in the ious cities the Warring S seen in Rakuc governance sy arly modern pe arly modern pe n the early modern n culture ent - 1 class	ities ties ar e Mide States hu Ra stem a eriod period riod dern p	nd appearan dle Ages period kugaizu and castle c	ce of to ities	wnł	nouses					
[Course re	equi	rements]										
Sufficient re required.	adin	g and writing	of Jap	panese, liste	ning ab	ility	and bas	sic knc	wledge of Jaj	panese history are		
						_	. – –	(Continue to	日本都市史 (2)		
日本都市史**(2)**

[Evaluation methods and policy]

Examination at the end of the term

[Textbooks]

Not used

[References, etc.]

(Reference books)

Introduced during class

[Study outside of class (preparation and review)]

Read the material introduced in the class.

(Other information (office hours, etc.))

Taking questions: questions will be accepted by e-mail at any time.

							未更新				
Course number	U-ENG24 34	4058 LJ74									
Course title (and course title in English)日本建築史 History of Japanese ArchitectureInstructor's name, job title, and department of affiliationGraduate School of Engineering Professor, TOMISHIMA YOSH											
Target year 3rd	year students or above	Number of credits	F	2	Year	ar/semesters 2024/Second seme					
Days and We periods	Days and periods Wed.1 Class style Lecture (Face-to-face course) Language of instruction Japanese										
[Overview and p	ourpose of the	course]									
This course will describe Japanese architectural history from ancient to modern times, with a focus on temple and shrine architecture. Connections will be drawn to the social and cultural background of this architecture. The objective is for students to understand the characteristics of space, technology, and design in Japanese architecture. Lectures will be given on the topics listed below, with some topics given more or less emphasis.											
[Course objectiv	ves]										
B. Expertise and Basic Knowledge B2. The ability to understand the design and planning aspects of architecture.											
[Course schedu	le and content	s]									
Japanese Architectu Japanese architectu periods 4. Temple Daibutsuyo architec Settchuyo architect and Buddhist archit medieval era 12. M Feedback Student Assessmen	ral History - 14 c ral styles and shri architecture in the cture 7. Zen mon ure 9. The develo tecture 10. The H furomachi period t - 1 class.	classes: 1. Intro ine architecture e Asuka and N asteries and Ze opment of arch Iondo (Main H architecture	oduction e 3. Bud Jara peric enshuyo nitectural Iall) in N 13. Mode	- purpo dhist To ods 5. T Archite techno ew Bud ern shrir	se of a emple femple cture { logy fro dhism ne arch	rchitectural h Monasteries i architecture i 8. Medieval J om antiquity 11. Shrine an itecture 14. C	istory 2.Traditional n the Asuka and Nara in the Heian period 6. apanese style and to the medieval era, rchitecture in the Craftsmen and tools 15,				
[Course require	ments]										
It would be prefera and archaeology, as	ble for students to s well as architect	be interested ure.	in relate	d discip	lines si	uch as Japane	se history, art history,				
[Evaluation met	hods and polic	;y]									
Examination at the	end of the term										

日本建築史**(2)**

[Textbooks]

『日本建築史図集』(彰国社) isbn{}{9784395008889}

[References, etc.]

(Reference books)

富島義幸『平等院鳳凰堂 現世と浄土のあいだ』(吉川弘文館) isbn{}{9784642080323}

[Study outside of class (preparation and review)]

Read the material introduced in the class.

(Other information (office hours, etc.))

Taking questions: questions will be accepted by e-mail at any time.

Course nu	mber	U-EN	G24 24	4059 SJ74							
Course title (and course title in English)	建築情 Computation	報処理演 nal Practice on	꾑 Architect	ural Design and F	Engineering	Instructor's name, job t and depart of affiliatio	s itle, ment 1	Graduate School of Engineering Associate Professor, YANAGISAWA KIWAMU Graduate School of Engineering Associate Professor, IBA CHIEMI Disaster Prevention Research Institute Associate Professor, KURATA MASAHIRO Graduate School of Engineering Associate Professor, NII DAISAKU Graduate School of Engineering Senior Lecturer, INAMASU HIROYUKI Graduate School of Engineering Assistant Professor, YASUDA KEI			
Target year	2nd y	year students of	or above	Number credits	[.] of	2	Year	/semesters	2024/Second semester		
Days and periods	Fri.4	,5	Class	s style	Semina (Face-t	r :o-face cou	rse)	Language of instruction	Japanese		
[Overview	and pu	urpose o	of the	course]							
The course provides lectures and exercises to acquire fundamental knowledge for analyzing engineering problems in architecture using computers. The participants will study data processing using a programming language and learn program design, coding and data analysis.											
[Course ob	ojectivo	es]									
The participa engineering u Types, Data I Scientific pro	nts are using PC Format, oblem-se	expected Cs. The co Array, Fi olving ski	to lear ourse u le Rea lls, an	n fundamen ses a progr ding and W d D1 Proble	ntal kno amming /riting, a em Find	wledge for g language and Sub-ro ling and Sc	solving named utine. T lving S	g numerical pr Python and te The course are kills.	coblems in architectural eaches Branching, Data intended for B1		
[Course so	hedul	e and co	ntent	s]							
[Guidance] 1 [Introduction [Application [Example of [Intermediate [Achievemen	class to prog of prog the com progra tt test] 1	gramming ramming pputer app mming (3 class	(1st te (2nd te lication (2nd terr	erm)] 4 clas erm)] 1 clas n for build n)] 4 classe	ses ss ing desi es	gn] 4 class	es				
[Course re	quiren	nents]									
None											
[Evaluation	n meth	ods and	polic	;y]							
The course g	rades ar	e based o	n the c	uizzes and	exercis	es during c	lasses a	nd achieveme	ent tests.		
[Textbooks	5]										
Not used											
	. – –						c	continue to 建	築情報処理演習 (2)		

建築情報処理演習(2)

[References, etc.]

(Reference books)

Progate (Online programming service, 980 JPY/month) https://prog-8.com/ Hajime Kitaichi: Programming Excersize Python 2019 http://hdl.handle.net/2433/245698

Architectural Institute of Japan, Information System Committee, Design Science Education Method Subcommittee. quot Introduction to Design and Computing - Generation / Analysis / Optimization of Architectural Forms and Functions using Python

Other handouts are distributed during lectures and practice.

[Study outside of class (preparation and review)]

Review the handouts distributed during the lectures before the practice sessions.

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	umbo	er	U-EN	G24 34	4060 LJ74								
Course title (and course title in English)	建斜 The	登温熱環境設計 mal Environment Design of Architecture						ructor's ne, job tit I departm Iffiliation	tle, nent	Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Associate Professor,IBA CHIEMI			
Target year 3rd year students or above Number of credits					of		2	Year	r/semesters 2024/Second semes				
Days and periods	r	Sue.2		Class style Lectur (Face				re e-to-face course) Language of instruction Japanese					
[Overview and purpose of the course]													
In this course, basic concepts for controlling thermal environment of daily habitation space such as especially dwellings. Practical methods for pasive thermal environment control is described.													

[Course objectives]

The participants will be trained so that he/she can develope conceptual design of passive controlling elements and their combination for use in dwellings. Corresponding goals for education of department are C: Practical skills, C1: Capability in Realize Building Projects.

[Course schedule and contents]

The weather and the building, (1 time) The house is a shelter to mitigate the fluctuation of the external weather and create a comfortable space, and its form is inseparable from the weather conditions. As an overview, we discuss the relationship between weather and architectural forms, and outline the meteorological elements necessary for considering the thermal environment design of houses.

The thermophysiology of the human body, (1 time) A method to evaluate how the combination of thermal elements such as temperature, humidity, airflow, and radiation are related to human comfort based on the thermophysiology of the human body are lectured.

Thermal insulation plan (2 times) Thermal insulation is the most basic method of thermal environment control. The method of thermal insulation plan (external heat insulation, internal heat insulation, etc.) according to the external weather, and exemplifies a practical structure method and its characteristics are lectured.

Solar shading and utilization, (1 time) The thermal environment is improved by intercepting solar radiation in summer and incorporating solar radiation into the room in winter. This section describes how to use solar shading devices such as eaves and window materials, and points to keep in mind.

Use of heat capacity (2 times) In order to control the indoor thermal environment, it is necessary to provide an appropriate heat capacity to the building frame, such as walls, floors, and ceilings is outlined, and the methodology for applying it is described.

Ventilation and ventilation plan, (2 times) Ventilation in hot weather often improves indoor thermal environment, and is often actively adopted in hot areas. On the other hand, inadvertent ventilation can worsen the thermal environment. The effects of ventilation and points to consider in planning are lectured. Indoor air pollution (2 times) The relationship between the actual state of indoor air pollution and health hazards caused by VOCs such as formaldehyde are lectured, and a method for planning a healthy house is descrived.

The merits and demerits of water (2 times) As typified by water spraying in the middle of summer, water has the effect of evaporative latent heat and improving the thermal environment. Based on the above, the

Continue to 建築温熱環境設計(2)

未更新

建築温熱環境設計(2)

environmental control plan using water is described.

The commissioning of the house, (1 time) Whether the constructed house has the intended performance at the time of design, mainly on the house equipment such as heat insulation / airtightness, heating / cooling equipment, and ventilation equipment are lectured.

Confirmation of learning achievement, (1 time) Confirmation of lecture understanding and proficiency

[Course requirements]

The participants are required to study Environmental engineering in Architecture I (U-ENG24 24009 LJ74) and II (U-ENG24 24010 LJ74) prior to join this course.

[Evaluation methods and policy]

The grade is evaluated by a term-end examination.

[Textbooks]

None specified. Handouts will be supplied on site.

[References, etc.]

(Reference books)

To be suggeted during the course.

[Study outside of class (preparation and review)]

It is recommended that students take an appropriate review through Quiz, etc., which will be presented during thelecture.

(Other information (office hours, etc.))

[Office Hour] (Reception of questions, etc.) Before and after the lecture time (Students who wish to ask questions at other times must make an appointment with the teacher)

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

											未更新	
Course nu	umb	er	U-EN	G24 1	4061 SJ74							
Course title (and course title in English)	ourse title Ind course tle in Atelier Practice of Architecural Design, Basis nglish)							ructor's le, job tit departm ffiliation	:le, hent	Graduate School of Engineering Professor,HIRATA AKIHISA Graduate School of Engineering Assistant Professor,YASUDA KEI Graduate School of Engineering Assistant Professor,IWASE RYOK Graduate School of Engineering Assistant Professor,HAYAKAWA SAYUF Graduate School of Engineering Assistant Professor,KIYOYAMA YOHI		
Target yea	r	1st ye	st year students or above Number of credits						Year	/semesters	2024/Second semester	
Days and periods]	Mon.4	4,5	Clas	s style	Semina (Face-t	r to-fa	ce cours	se)	Language of instruction	Japanese	
[Overview	ı an	d pu	irpose c	of the	course]							
[Course o	bje	ctive	es]									
[Course s	che	dule	and co	ontent	s]							
,7times, ,7times, ,1time,												
[Course re	equ	irem	ents]									
None												
[Evaluatio	on n	nethe	ods and	l polic	>y]							
[Textbook	(s]											
									C	Continue to	設計演習基礎 (2)	

設計演習基礎**(2)**

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course num	ber	U-EN	G24 1	4064 LJ74								
Course title (and course 世 title in Hi English)	Course title (and course title in English)世界建築史 History of World ArchitectureInstructor's name, job title, and department of affiliationGraduate School of Engineering Professor, TOMISHIMA YOSHIAK Graduate School of Engineering 											
Target year	et year list year students or above Number of credits 2 Year/semesters 2024/Second								2024/Second semester			
Days and periods	Mon	.3	Clas	s style	Lecture (Face-t	e to-fa	ace cour	se)	Language of instruction	Japanese		
[Overview a	nd pı	urpose o	f the	course]								
This course will discuss the history of predominantly European architecture, with its origins in Greece and Rome, as well as Eastern architecture that has a close relationship with Japan. The objective is to give students an understanding of architectural diversity, the relationship between political systems, cultural background, and architectural space, and how architectural characteristics and trends of thought in each era have set the course of modern architecture.												
[Course obj	ectiv	es]										
 B. Expertise and Basic Knowledge B2. The ability to understand the design and planning aspects of architecture E. International Perspective E1. The ability to position architectural activity in diverse social systems 												
[Course sch	edul	e and co	ntent	s]								
Europe - 8 clas Renaissance an China - 4 class Imperial palace Korean Penins India - 1 class: class: 15, Feed Student Assess	ses: 1 ad Bar es: 9- e and 1 ula - 1 14. Ir back ment	-2. Ancie coque 8. 1 10. Chine housing fo class: 13 ndia and Is - 1 class	nt Gre 8th an se Bud or the 6. Arch slamic	ece and Ro nd 19th cent Idhist Arch people nitecture of Architectu	me 3-5 tury arc itecture the Kor re	. Pro hite 11. ean	e-Roman cture Chines Peninsu	nesque, e religi la	, Romanesqu	e, and Gothic 6-7. ure 12. Chinese		
[Course req	uiren	nents]										
None												
[Evaluation	meth	ods and	polic	cvl								
An examinatio	n will	be held a	t the e	nd of term.								
								C	continue to	世界建築史(2)		

世界建築史**(2)**

[Textbooks]

その他,『西洋建築史図集』三訂版、日本建築学会編、彰国社刊 isbn{}{4395000215} 『東洋建築史図集』日本建築学会編、彰国社刊 isbn{}{4395000878}

[References, etc.]

 $(\ {\rm Reference\ books\ })$

Introduced during class

[Study outside of class (preparation and review)]

Read the material introduced in the class.

(Other information (office hours, etc.))

Taking questions: questions will be accepted by e-mail at any time.

							未更新				
Course number	U-ENG24 44	065 LE74									
Course title (and course 専門英 title in English)	語 for Architecture			Instructor's name, job title, and department of affiliation Part-time Lecturer,TSOI, Esther							
Target year 4th	year students or above	Number o credits	of	2	Year	r/semesters 2024/First semester					
Days and Thu. periods	.4 Class	s style	ecture Face-to	o-face cours	se)	Language of instruction	Japanese and English				
[Overview and p	urpose of the	course]									
Le Corbusier said, in	n Vers une archit	ecture [Towa	ards ar	n Architectu	re] (19	923)					
"You employ stone, wood and concrete, and with these materials you build houses and palaces. That is construction. Ingenuity is at work. But suddenly you touch my heart, you do me good, I am happy and I say: 'This is beautiful. That is Architecture. Art enters in. '"											
Mies van der Rohe said, "God is in the details. "," Less is more. "," Architecture starts when you carefully put two bricks together. There it begins. "Mies van der Rohe was originally from Germany and had moved to America. Corbusier was originally from Switzerland and had moved to France. Architecture has local concerns, and yet its influence is global, and sometimes timeless.											
Although English do language of arts and architectural issues	oes not have the l l science, as well with the use of E	argest numb as in interna nglish.	er of n tional	ative speak project coll	ers in t aborati	the world, it is ions. In this c	s the global working lass we will explore				
[Course objectiv	ves]										
Able to use basic Er	 nglish for commu	nicating and	l presei	nting archit	ectural	ideas.					
Able to use basic English for communicating and presenting architectural ideas. A1 Communication ability A2 Understanding architecture from different perspectives B2 Understanding architectural design and spatial planning C2 Understanding how architecture affects society C3 Acting with correct judgement based on historical and social understanding D2 Having one 's unique viewpoint E2 Understanding global and local values											
[Course schedul	le and contents	s]									
Wk 1: An overview Louis Kahn, Renzo	and introduction Piano, KPF, Ren	to famous W n Koolhaas	Vesterr . plus	n architects some previo	like Le ous pro	e Corbusier, N ojects that I ha	Mies van der Rohe, ad worked on.				
Wk 2: Corbusier: Do presented on Wk 5 (om-ino & Villas (design sketches a	1. Primitive and presentat	hut of tion of	the modern a simple vi	n. Intro illa bas	oduction to find a sed on the the	rst assignment to be ory of 5 points.)				
Wk 3: Corbusier: D	om-ino & Villas	2. Five poin	ts of a	new archite	ecture.						
					c	Continue to					

專門英語**(2)**

Wk 4: Review on technical terms. Reference to Francis Ching 's Building Construction Illustrated.

Wk 5*: Presentation of the villa design sketches based on Corbusier 's 5 points. Submit speech and sketch.

Wk 6: (a break) "From Shinto to Ando": a discussion on Japanese architecture phenomenon.

Wk 7: Mies: Use of materials. Read Steen Eiler Rasmussen 's "Experiencing Architecture".

Wk 8: Look through some architectural examples in "Architecture Inside+Out".

Wk 9: A review on high rises -examples from Mies, KPF and Mori Building.

Wk 10: Building Skins: a look at facade details.

Wk 11*: Test: fill-in-the-blank technical terms. A review on Hong Kong Bank by Norman Foster.

Wk12: (a break) Landscape and art: Maya Lin, Michael Heizer, Richard Serra, James Turrell, Robert Smithson, Andy Goldsworthy. A look at Kazuyo Sejima 's 21st Century Museum in Kanazawa. Introduction to final assignment on proposing an exhibition space for an artist.

Wk 13: A look at museum designs and review on terms. Preliminary presentation.

Wk 14*: Final presentation on an exhibition space proposal.

Wk 15: Feedback class. Follow-up

No final examination. The schedule may be subject to change.

[Course requirements]

None

[Evaluation methods and policy]

Students will need to listen and read different texts, and solve the related problems. Students are expected to be able to write, discuss and present architecture in English at the end of the class. There will be no final examination. Attendance, class participation and exercise completion is important. No plagiarism. Students who have less than 60% in attendance will fail. Late arrival for more than 10 minutes or leaving early without satisfactory explanation will be considered non-attendance.

Homework - 40% Presentations - 40%. Attendance - 20%.

専門英語**(3)**

[Textbooks]

Steen Eiler Rasmussen, Experiencing Architecture, MIT Press, 1992.

Francis D.K. Ching, Building Construction Illustrated, John Wiley and Sons, 1991.

Francis D.K. Ching, A Visual Dictionary of Architecture, John Wiley and Sons, 2011.

Le Corbusier, Towards a New Architecture, Dover, 1986.

John Zukowsky & Robbie Polley, Architecture Inside+Out, Thames & Hudson, 2018.

Christian Schittich, in Detail Building Skins, Birkhauser, 2001.

Kevin Lynch, The Image of the City, Harvard-MIT Joint Center for Urban Studies Series, 1964.

[References, etc.]

(Reference books)

Kenneth Frampton, Modern Architecture: A Critical History, Thames and Hudson, 1992. https://doubleoperative.files.wordpress.com/2009/12/kenneth-frampton_modern-architecture.pdf

Junichiro Tanizaki, In Praise of Shadows, Leet 's Island Books, 1997. http://wwwedu.artcenter.edu/mertzel/spatial_scenography_1/Class%20Files/resources/In%20Praise%20of%20Shadows.pdf

Italo Calvino, Invisible Cities, Harcourt Brace & Co., 1972.

Gunter Nitschke, From Shinto to Ando, Academy, 1993.

Christian Schittich, in Detail Japan, Birkhauser, 2002.

Graphic Anatomy Atelier Bow-Wow, Toto, 2007.

Christian Norberg-Schulz, Genius Loci: Towards a Phenomenology of Architecture, Academy Editions Ltd, 1980.

(Related URLs)

http://corner-college.com/udb/cprogXw0KwCalvino_Italo_Invisible_Cities-pp5-23.pdf(Italo Calvino, Invisible Cities, Harcourt Brace & Co., 1972.)

https://openlab.citytech.cuny.edu/12101291coordination/files/2011/06/Rasmussen_and_Elam_Proportions. pdf(Steen Eiler Rasmussen, Experiencing Architecture, MIT Press, 1992.)

https://1drv.ms/w/s!AhVq_riAFrGsgSxgYqC1w03iiTBf(Mathematics of Ideal Villa)

https://cisematakblog.files.wordpress.com/2016/11/towards-a-new-architecture1-1.pdf(Le Corbusier, Towards a New Architecture, Dover, 1986.)

https://1drv.ms/b/s!AhVq_riAFrGsgSrsJ912MYAUaID3(Domino: Archetype)

http://www.east-asia-architecture.org/downloads/research/MA_-_The_Japanese_Sense_of_Place_-_Forum. pdf(Gunter Nitschke, From Shinto to Ando, Academy, 1993.)

Continue to 専門英語(4)

專門英語**(4)**

http://www.miguelangelmartinez.net/IMG/pdf/1960_Kevin_Lynch_The_Image_of_The_City_book. pdf(Kevin Lynch, The Image of the City, Harvard-MIT Joint Center for Urban Studies Series, 1964.) https://marywoodthesisresearch.files.wordpress.com/2014/03/genius-loci-towards-a-phenomenology-ofarchitecture-part1_.pdf(Christian Norberg-Schulz, Genius Loci: Towards a Phenomenology of Architecture, Academy Editions Ltd, 1980.)

https://1drv.ms/b/s!AhVq_riAFrGsgSl7_073rYqfkLCx(Construction History)

http://www.icomos-poland.org/pl/?option=com_dropfiles&format=&task=frontfile.download&catid=67&id= 66&Itemid=100000000000(Visual Dictionary of Architecture (by Francis Ching, 2011.))

http://www.east-asia-architecture.org/aotm/index.html(Hand or Machine (by Esther Tsoi, 2012.)) https://art21.org/artists/(Art21 (PBS))

[Study outside of class (preparation and review)]

Please read materials from the above URL. Research the meaning of words in advance and at your leisure.

(Other information (office hours, etc.))

About me: http://linkedin.com/in/kyokoto I can be reached by e-mail. Assignments will have to be handed in class.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course I worked in both government and private sector, in Civil & Structural Engineering & Architecture.

(3) Details of practical classes delivered based on instructors ' practical work experience These are essential academic background materials in Western Architecture for young professionals.

							_				
Course nu	ımbe	ber U-ENG24 14072 PJ74									
Course title (and course title in English)	建築 Fund	§造用 lame	i)実習 ntal Traini	ing in <i>i</i>	Architectural	l Design	Inst nam and of a	ructor's ne, job tit departm ffiliation	tle, nent	Graduate Sch Senior Lecture Part-time Lect Graduate Sch Assistant Pro Graduate Sch Assistant Profe	turer,HIRANO TOSHIKI turer,HIRANO TOSHIKI tool of Engineering ofessor,YASUDA KEI tool of Engineering essor,KIYOYAMA YOHEI
Target year 1st year students or above Number credits				Number credits	of		2	Year	/semesters	2024/First semester	
Days and periods	N	10n.:	3,4	Clase	s style	Practica (Face-t	al training to-face course)			Language of instruction	Japanese
[Overview	[Overview and purpose of the course]										
To acquire b	o acquire basic skills in presentation through a basic understanding of architectural form and spatial										

The course is divided into two sections, in which students taking both architectural hand drawing and CG/CAD in the first and second halves of the semester.

[Course objectives]

C. Practical skills, C1. Ability to realise architectural objects

organisation, and training in their visual representation.

The student will have an accurate understanding of architectural form and spatial composition and be able to express this understanding using basic presentation techniques such as architectural hand drawing, computer graphics and CAD.

[Course schedule and contents]

Assignment briefing, 1 time, Lecture on architectural drawing and CG/CAD in architectural design and presentation, and assignment briefing. [Teachers in charge: Komiyama, Ikei].

Architectural hand drawing, 6 times, Students learn elementary architectural drawing techniques using pencil and inking, and learn the theory, composition and beauty of architecture through drawing. [Teacher in charge: Komiyama].

CG/CAD, 6 times, Students will learn the basic operations of 2D CAD software and 3D CG software, learn how to express architecture, and build a foundation for design and presentation using digital tools. [Teacher in charge: Ikei].

Review, 1 time, A joint critique of architectural hand drawing, CG and CAD will be held. [Teachers in charge: Komiyama, Ikei].

Evaluation of learning achievement, 1 time, Evaluation of learning achievement regarding the contents of this practical training. [Teachers in charge: Komiyama, Ikei].

Continue to 建築造形実習(2)

未更新

建築造形実習(2)

[Course requirements]

None

[Evaluation methods and policy]

Students will be assessed on the basis of their architectural drawings and CG/CAD submissions.

[Textbooks]

Instructed during class

[References, etc.]

(**Reference books**) Introduced during class

[Study outside of class (preparation and review)]

Instructions will be given in class when necessary.

(Other information (office hours, etc.))

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

											未更新	
Course nu	ımk	ber	U-EN	G24 44	073 LJ74							
Course title (and course title in English)	ourse title nd course le in nglish) aglish							ructor's ne, job ti departn ffiliation	tle, nent	Professor,HARADA KAZUNORI Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,OOTANI MAKOTO Graduate School of Engineering Associate Professor,IBA CHIEMI Disaster Prevention Research Institute Associate Professor,NISHINO TOMOAK Part-time Lecturer,KOBAYASHI YOICH Graduate School of Engineering Associate Professor.NII DAISAKU		
Target yea	arget year 4th year students or above Number of credits								Year	/semesters	2024/First semester	
Days and periods	Days and periods Wed.4 Class style Lecture (Face-to-face course) Language of instruction Japanese									Japanese		
[Overview and purpose of the course]												
There are va facilities, lig is introduced	There are various facilities in buildings, including air conditioning system, water supply and drainage facilities, lighting equipment, and acoustic equipment. In this lecture, the outline of various building facilities is introduced, and the design theory of building facilities including planning and maintenance is explained.											
[Course o	bje	ctive	es]									
Acquisition Correspondi the environn	of c ng l nen	lesigr learni tal en	n theory in ing and ec ngineering	ncludir lucatio gaspec	ng practical onal goals: ts of archit	l work s B. Expe ecture.	uch rtise	as plan e and ba	ning ar sic kno	nd maintenand owledge, B4.	ce of building facilities. Ability to understand	
[Course se	che	edule	e and co	ntent	s]							
Introduction, 1 week what kind of equipment is in the building and what kind of concept it is designed from the viewpoint of the relationship with the building is outlined. In particular, the importance of air-conditioning equipment in the context of the global environment era is lectured from the standpoint of energy-saving design considering the life cycle, and the importance of comprehensive planning with buildings is lectured.												
Design of lighting equipment, 2 weeks The lecture will cover lighting methods, light sources used in architecture, clear vision, and perceptual brightness of a space. Also recent advances in lighting systems using daylight will be introduced.												
Planning of electrical facilities, 1 week The basic information such as power receiving system, electric equipment capacity, distribution main facilities, power/light electrical equipment in buildings are explained. Also the recent power generation/ storage systems are introduced.												
						·			_c	 Continue to		

建築設備計画法(2)

Acoustical design of equipment, 3 weeks

Design of electroacoustic/information equipment for recording, reproduction, broadcasting, and loudspeaker according to the purpose and scale of the building is explained with emphasis on ensuring clarity in room, preventing howling, precautions for emergency broadcasting, and measures against noise from equipment.

Design of fire safety system, 2 weeks

The schematics of fire safety system, such as fire detection, suppression and egress guidance, are introduced in connection with building design.

Seismic design of building equipment, 1 week The state-of the-art of seismic damage to building equipment is introduced followed by principle of seismic design for them.

Maintenance and optimal operation, 1 week

Extending the service life of building equipment is very important from the viewpoint of the life cycle. The maintenance management using BEMS / HEMS, its effectiveness, and the periodic reporting system are lectured.

Introduction to actual design projects, 2 weeks Examples of superior design of building equipment are introduced.

Lecture by a practitioner, 1 week Special lecture is hold to listen to an end-cutting engineer to understand the actual state of practical design.

Evaluation of achievement, 1 week Achievement on above items will be evaluated.

[Course requirements]

Knowledge on Environmental Engineering in Architecture I(U-ENG24 24009 LJ74) and II(U-ENG24 24010 LJ74) are necessary. In addition, it is desirable that the participants have joined the following courses; Building equipment system(U-ENG24 34018 LJ74), Lighting and Acoustics in Architecture (U-ENG24 34032 LJ74), Urban Environment Engineering (U-ENG24 34052 LJ74), Thermal Environment Design of Architecture(U-ENG24 34060 LJ74).

[Evaluation methods and policy]

[Evaluation method]

Evaluation will be based on a report assignment and one written examination.

[Textbooks]

None specified. Exercise sheet will be provided during the lecture.

Continue to 建築設備計画法(3)

建築設備計画法(3)

[References, etc.]

(Reference books)

[Study outside of class (preparation and review)]

Use handout/exercise sheet for review.

(Other information (office hours, etc.))

[Office hour] Questions are accepted at occasion. Contact lecturers for the arrangement of office hours.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A course with practical content delivered by instructors with practical work experience

(2) Details of instructors ' practical work experience related to the course

Course nu	ımbe	u-EN	G24 4	4999 GJ74							
Course title (and course title in English)	特別研究 Graduation Thesis Instructor's name, job title, and department of affiliation Graduate School of Engineering Professor, MIURA KEN										
Target yea	Par4th year students or aboveNumber of credits0Year/semesters2024/Intensive, year-									2024/Intensive, year-round	
Days and periods	I	ntensive	Clas	s style	Semina (Face-t	r :o-fa	ice cour	se)	Language of instruction	Japanese	
[Overview	anc	l purpose o	f the	course]							
Students are required to set a new topic in the fields of planning, design, structure, or environment, with regard to either architectural, urban, and regional history or spaces/systems, or to structural technology, environmental factors, and their physiological/psychological effects; to develop the ability to provide solutions to the set topic; and to compile the research results in the form of Graduation Thesis or Diploma Design.											
[Course o	bjec	tives]									
From a new, based on the verifiable mo From the lea A; Compreh A1; Commu A2; Multi-fa C; Practical C2; Understa D; Innovatio D2; Attainin	prev ir pe ethoc rning ension nicat aceteo abilit andir g an	rsonal viewpo d of research o g and education ability ion and prese d understandi ty ng of the social imaginative p	minec pint, s pr des pr des pantatio ng of al role perspe	a perspective tudents mustign related to oals listed b n skills the values of of designine ective	e, with a st acquin to archit by the D of archit ng or bu	an u re th tectu eepa ectu ildir	nderstar e skills iral plan rtment: re ng archit	to effe	of both global ctively and su design, struct	and local values, afficiently express a ure, or environment.	
[Course se	cheo	dule and co	ntent	:s]							
For each lesson, proceed with discussions and guidance by the supervisor of your laboratory. 1st - 3rd Setting the research and design task. 4th - 6th Collecting examples of previous studies or advanced design techniques. Consideration of research method or design direction. 7th #8211 9th Establishment of research hypothesis, design research plan, or design process. 10th - 16th Implementation of surveys, experiments, theoretical studies, numerical analysis, or consideration of basic design. 17th - 22th											
Examination	of t	ne results obt	ained	trom forme	r stage,	or p	oroceedi	ng wit	h design draw	/ings and models.	
								C		術加附九(∠)	

特別研究**(2)**

23rd - 29th

Writing Graduation Thesis, or proceeding with drawing and making models of Diploma Design. 30th

Presentation of the Graduation Thesis or Diploma Design.

[Course requirements]

Satisfy requirements for "Graduation Thesis" enrollment depend on year of admission

[Evaluation methods and policy]

Based on the submitted Graduation Thesis or Diploma Design, grading will be determined as either passed or failed. The degree of achievement will be graded according to whether or not the thesis or design work expresses a new or unique viewpoint and addresses a previously unexamined topic, whether or not it demonstrates a verifiable method, and whether or not it is expressed effectively and sufficiently.

[Textbooks]

Supervision by your laboratory instructor.

[References, etc.]

(Reference books)

Supervision by your laboratory instructor.

[Study outside of class (preparation and review)]

Engaging in advance preparation and review, with active discussions between supervisor and student outside seminar times, and opportunities for multi-faceted consideration of research and design issues.

(Other information (office hours, etc.))