								未更新
Course nur	nber	U-ENG24 22	2102 LJ74					
•	Ľ業数≐ Enginee	学 C ring Mathematio	cs C		Instructor's name, job ti and departr of affiliatior	itle, nent	Professor,OC Graduate Scl Professor,OC Disaster Prev Professor,NI Graduate Scl	nool of Engineering GURA DAISUKE nool of Engineering DTANI MAKOTO rention Research Institute SHIJIMA KAZUYOSHI nool of Engineering rer,HAYASHI KAZUKI
Target year	2nd y	ear students or above	Number credits	r of	2	Year	/semesters	2025/Second semester
Days and periods	Wed.	3 Class	s style	Lecture (Face-t	to-face cour	rse)	Language of instruction	Japanese
[Overview a	and pu	Irpose of the	course]					
[Course ob	jective	es]						
-	hedule	e and content	s]					
,5times, ,1time, ,5times, ,3times, ,1time,								
[Course red	quirem	ients]						
None								
[Evaluation	n meth	ods and polic	;y]					
[Textbooks	5]							
[Reference:		-						
(Referend	ce boo	ks)						
[Study outs	side of	class (prepa	ration and	d revie	w)]			
(Other info	ormatio	on (office hou	Irs, etc.))					
*Please visit l	KULAS	SIS to find out a	bout office	hours.				

										天史新 天史新
Course nu	Imbe	er U-EN	(G20 42	2105 LJ77						
	e T学倫理 Engineering Ethics			nam and	ructor's ne, job tit departn ffiliation	nent	Professor,NIITSU KIICHI Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,IMAHORI HIROSHI Graduate School of Engineering Professor,SUZUKI MOTOFUMI Part-time Lecturer,TATEBA TAKAFUMI Graduate School of Informatics Professor,UMENO KEN Graduate School of Engineering Professor,SUGIYASU KAZUNORI Graduate School of Engineering Professor,HANAZAKI HIDESHI Graduate School of Engineering Professor,KAWASE MOTOAKI Office of Institutional Advancement and Communications NAKAGAWA MASAYUKI Graduate School of Engineering Professor,KISHIDA KIYOUSUKE Graduate School of Engineering Professor,OONISHI MASAMITSU Graduate School of Engineering Professor,KANETA TAKASHI Graduate School of Engineering Professor,ITOH SADAHIKO Graduate School of Engineering			
Target yea	r	4th year students	or above	Number credits	r of		2	Yea	/semesters	2025/First semester
Days and periods	Γ	Thu.3	Class	s style	Lecture (Media		sed cour	rse)	Language of instruction	Japanese
[Overview	and	d purpose (of the	course]						
		ased on engir various facul	U	1		0		-	U	s and scientists.
[Course o	bjec	ctives]								
The goal of t you encounte			derstan	d engineeri	ing ethic	s, ai	nd to de	velop	the ability to	judge by yourself when
[Course so	cho	dulo and or	ntont	പ						

[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.

工学倫理**(2)**

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.)

[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)² (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

[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

										未更新		
Course nu	ımbe	r U-EN	G20 12	2108 LJ77								
Course title (and course title in English)	序論 duction to E	nginee	ring		nan and	tructor's ne, job ti I departn affiliation	tle, nent	Professor, Y A Graduate Scl Professor, AF Graduate Scl Professor, HA Graduate Scl Professor, NC Graduate Scl Professor, OC Graduate Scl Professor, Ta Office of Institution Program-Specifi Graduate Scl	hool of Management AMAMOTO TAKASHI hool of Engineering RAKI YOSHIKAZU hool of Engineering ANAZAKI HIDESHI hool of Informatics DMURA TAISHIN hool of Engineering GOSHI TOMOKI hool of Informatics kayuki ITO al Advancement and Communications ic Professor,KITANI TETSUO hool of Engineering er,ISHITSUKA KAZUYA			
Target yea	r 1	st year students	or above	Number credits	of		1	Year	/semesters	2025/Intensive, First semester		
Days and periods	Iı	ntensive	Class	s style	Lecture (Face-t		ace cour	se)	Language of instruction	Japanese		
[Overview	and	purpose o	of the	course]								
developmen First, we off expected to Then, we of future proble	Overview and purpose of the course] Ingineering is to inquire after truth, to develop useful technologies, and to establish ways how to give back evelopment results of technology to the society. First, we offer special lectures regarding the basic knowledge that students in faculty of engineering are xpected to have. Then, we offer a series of intensive lectures about how engineering can suggest solutions of current and uture problems of our society, the value of technology, and the responsibilities that researchers and engineers re expected to fulfill.											
[Course o	bject	tives]										
social comm	unity ng tec	. They find when the second seco	value in	n studying o	enginee	ring	and be	come to	o consider wh	take as a member of nat they do in future by ecially problems about		
[Course s	ched	lule and co	ontent	s]								
role of engir Intensive lec and technolo reconfirming	eerin ctures ogy. L g imp ities t opini	g in society. ,6times, A so .ectures are f ortance to st o consider o ons of other	eries of for und udy en wn futt studen	f lectures of lerstanding gineering a ure path. Es ts.	ffered by the role nd to w	y sp tha ork	ecial leo t techno as a reso	cturers logy is earcher	playing on g playing in n and enginee	arn engineering, and the lobal stages of science nodern society, for r in society, and are to immarize the lecture		

Continue to 工学序論(2)

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.

*Please visit KULASIS to find out about office hours.

Course nu	ımbe	er	U-EN	G20 32	2402 SE77							
					ノシップ 1 rnational Inte	ernship 1	nam and	ructor's ne, job tit departm ffiliation	nent	Professor,HO Graduate Sc	hool of Engineering ONDA MITSURU hool of Engineering er,KOWHAKUL, Wasana	
Target yea	r	3rd y	ear students o	or above	Number credits	of		1	Year	/semesters	2025/Intensive, year-round	
Days and periods]	Inter	nsive Class style Seminar (Face-to-face course) Language of instruction Japanese and English									
[Overview	and	d pu	urpose o	f the	course]							
The internships and related training programs (lasting less than three months) offered through the Faculty of Engineering at Kyoto University, whether conducted overseas or domestically but expected to have a similar educational effect as internships abroad, are targeted. The aim is to cultivate independence, proactivity, internationality, and language skills by placing students in diverse environments, thereby contributing to their career development after graduation.												
[Course o	bjec	tive	es]									
sensibilities, of cultural re such as over	the ecept seas	imp tiver univ	rovement ness (cros versities a	of for s-cultu nd cou	eign langua Iral adaptab npanies.	ige prof	icier	ncy (con	nmuni	cation skills)	of international , and the enhancement verse environments	
[Course s	che	dule	e and co	ntent	s]							
[Submission Complete an takes place a	d su	bmi	t the form	' Int	ernational I	Internsh	ip P	lan'at	least	one month be	fore the internship	
[Overseas in Participate in		-		oad.								
[Results deb Internship pa		-		on the	results of th	neir inte	rnsh	ip and c	liscuss	their finding	5 .	
[Course re	equi	rem	nents]									
Have sufficient language skills in the language(s) spoken at the internship site. * Must have purchased the prescribed overseas travel insurance before traveling to the internship site. * Have submitted an overseas travel registration form in advance.												
[Evaluatio	n m	eth	ods and	polic	;y]							
International Educational	[Evaluation methods and policy] After registering for the course, one month prior to participating in the internship, students must fill out the " International Internship Plan" on the designated form and submit it to the Undergraduate Student Section of Educational Affairs Division for prior review by the faculty members of the ER center. After completion of the internship, students will be awarded credits (100%) based on the submission of an											

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)**

internship report and the content of the presentation at the debriefing session.

It is also advisable to submit a certificate of completion from the institution hosting the internship.

The decision to grant credits for graduation will be made by each undergraduate school. If the credits are not approved as credits required for graduation, the ER center will make the decision. In this case, the credits will be treated as excess credits.

Whether the internship is approved as credit for "1" (1 credit) or "2" (2 credits) of the International Internship Program of the Faculty of Engineering is determined based on the duration of the internship and the content of the practical training during the internship period, but in the case of "2," overseas travel is required.

[Textbooks]

Not used

[References, etc.]

(Reference books)

None

[Study outside of class (preparation and review)]

Please consult with your supervisor about your proposal before submitting it to us. Further instructions will be given as appropriate.

(Other information (office hours, etc.))

Before participating in an internship program, please inquire with the administrative office of your undergraduate school to determine whether or not the internship you wish to participate in will be approved as a credit toward completion of the program. For other information, please contact the ER center.

ER center Tel: 075-383-2048 Mail: 090aglobal mail2.adm.kyoto-u.ac.jp (Replace with @)

*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	U-ENC	G20 22	2403 SJ77						
Course title (and course title in English)					ミナー I (企業言 or methodology in	·	nan and	ructor's ne, job tit I departm Iffiliation	nent		nool of Engineering rer,hirai yoshikazu
Target yea	r	2nd year st	tudents o	or above	Number credits	of		1	Year	/semesters	2025/Intensive, year-round
Days and periods	Ι	ntensive	e	Class	s style	Semina (Face-t		ice cour	se)	Language of instruction	Japanese
[Overview	and	d purpo	ose o	f the	course]						
The purpose of this course is to study about how worldwide leading company, institute, etc. make proposals and find solutions for expanding their own technologies to the international market. Throughout hands-on training on their laboratory, students investigate the methodology of team organization, proposal, market prediction and conception ability by group works. After the investigation, students are expected to improve their comprehension and explanation capability. As extended exersice subject of this course, the Global Leadership Seminar II is opened in the second semester.											
[Course o	bjec	tives]									
											ity for processes of ompanies by group
[Course s	che	dule ar	nd co	ntent	s]						
Week 1, Gui Week 2-13, Week 14, Pr Week 15, Fi	Hano e-pro	ds-on tra esentatio	on								
[Course re	equi	rement	ts]								
How to regist class.	ster v	will be a	innoun	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	proł	nibited t	o skip	hands	s-on trainin	g. Evalu	atic	on will b	e base	d on presenta	tion.
[Textbook	s]										
Not used											
[Reference	es, e	etc.]									
(Referer	nce	books)								
									— — _C	ontinue to グローバル・リ	

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

Course nu	ımbe	ər	U-EN	G20 32	2502 SE77							
					ノシップ 2 rnational Inte	ernship 2	nan and	ructor's ne, job tit departm ffiliation	nent	Professor,HC Graduate Scl	hool of Engineering ONDA MITSURU hool of Engineering er,KOWHAKUL, Wasana	
Target yea	r	3rd ye	ear students o	or above	Number credits	of		2	Year	/semesters	2025/Intensive, year-round	
Days and periods]	Inten	ensive Class style Seminar (Face-to-face course) Language of instruction Japanese and English									
[Overview	w and purpose of the course]											
Engineering educational international	The internships and related training programs (lasting less than three months) offered through the Faculty of Engineering at Kyoto University, whether conducted overseas or domestically but expected to have a similar educational effect as internships abroad, are targeted. The aim is to cultivate independence, proactivity, internationality, and language skills by placing students in diverse environments, thereby contributing to their career development after graduation.											
[Course o	bjec	tive	es]									
sensibilities, of cultural re such as over	the ecept seas	impi tiven univ	rovement ness (cros versities a	of for s-cultu nd cou	eign langua Iral adaptab npanies.	ige prof	icier	ncy (con	nmuni	cation skills)	of international , and the enhancement verse environments	
[Course se	che	dule	e and co	ntent	s]							
[Submission Complete an takes place a	d su	bmit	t the form	' Int	ernational I	Internsh	ip P	lan'at	t least	one month be	efore the internship	
[Overseas in Participate ii		-		road.								
[Results deb Internship pa		<u> </u>	, -	on the	results of th	neir inte	rnsh	ip and c	liscuss	their finding	5 5.	
[Course re	equi	rem	nents]									
* Must have	Have sufficient language skills in the language(s) spoken at the internship site. * Must have purchased the prescribed overseas travel insurance before traveling to the internship site. * Have submitted an overseas travel registration form in advance.											
[Evaluatio	n m	eth	ods and	polic	;y]							
International Educational	[Evaluation methods and policy] After registering for the course, one month prior to participating in the internship, students must fill out the " nternational Internship Plan" on the designated form and submit it to the Undergraduate Student Section of Educational Affairs Division for prior review by the faculty members of the ER center. After completion of the internship, students will be awarded credits (100%) based on the submission of an											

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)**

internship report and the content of the presentation at the debriefing session.

It is also advisable to submit a certificate of completion from the institution hosting the internship.

The decision to grant credits for graduation will be made by each undergraduate school. If the credits are not approved as credits required for graduation, the ER center will make the decision. In this case, the credits will be treated as excess credits.

Whether the internship is approved as credit for "1" (1 credit) or "2" (2 credits) of the International Internship Program of the Faculty of Engineering is determined based on the duration of the internship and the content of the practical training during the internship period, but in the case of "2," overseas travel is required.

[Textbooks]

Not used

[References, etc.]

(Reference books)

None

[Study outside of class (preparation and review)]

Please consult with your supervisor about your proposal before submitting it to us. Further instructions will be given as appropriate.

(Other information (office hours, etc.))

Before participating in an internship program, please inquire with the administrative office of your undergraduate school to determine whether or not the internship you wish to participate in will be approved as a credit toward completion of the program. For other information, please contact the ER center.

ER center Tel: 075-383-2048 Mail: 090aglobal mail2.adm.kyoto-u.ac.jp (Replace with @)

*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 num	ber	U-EN	G20 22	2503 SJ77								
				(イノベーションと ion and its comme	,	nan and	ructor's ne, job tit I departm iffiliation	tle, nent	Professor,HC Graduate Scl	hool of Engineering ONDA MITSURU hool of Engineering rrer,hirai yoshikazu		
Target year	2nd	nd year students or above Number of credits 1 Year/semesters 2025/Intensive, Second semester										
Days and periods	and Intensive Class style (Face-to-face course) Language of instruction Japanese									Japanese		
[Overview a	[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.												
 Distinguishe students will e Activity Bud development n Presentation 	 [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. 											
Director of ES stabilization for Order of the R https://hillslife - Seiichi Nishi Supports the d https://www.as - Kentaro Kane Director of RIf continuously in https://kaneko- https://www.ri - Teppei Tsush business, wena https://www.so - Hideki Aoyat	L Res r cam ising S jp/lea moto, evelop tem.ce eko, P sume sume ima, C ima, C ony.cc na, Sp n tech comm	earch Inst eras and 5 Sun, Gold rning/201 Honorary oment of s r.jp/about rofessor (ikan Semi ting new s tsumei.ac. i.ac.jp/res Open Inno m/ja/Sony pecial App nology Li nunication	itute): 5G cor Rays 8/05/(Profe science /resea Ritsum condu semico jp/ earch/ pvatior yInfo/l pointm nkRay	A leading mmunicatio with Rosett 06/new-pers ssor (Chair e and techno rcher/nishin neikan Univ ctor Applic onductor ma center/risa/ n Dept., IP 1 DiscoverSon ent Lecture (TM) and v	Japanes in techno te. spective man of ology in moto versity, cation re aterials. Div., So ony/artic er, Pana	e inn olog 6/ the 1 the Rese sear ny (les/2 soni	novator, ies. Rec Kyoto A Kyoto a earch O ch cente Corporat 202203/ c HD: I	known ipient dvanc area an rganiza er): Co tion: Fo wena/ Develop ne inter	n for invention of the Purple ed Technolog ad the growth ation of Scier -founder of F ounder of So per of the vis mational stan	Ribbon Medal and the gy Research Institute): of ventures and SMEs. nce and Technology; FLOSFIA and Patentix, ny's smartwatch ible light dardization of the		
								Co	ntinue to グローバル・リーダー	-シップセミナー॥(イノベーションとその事業化)(2)		

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)

- Tsutomu Mukai, Senior Manager, Panasonic HD: Promotes open innovation with venture companies in Israel.

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.

In addition to the mentors, you can learn about the support system for startups and patent strategies from the invited lecturers. For those considering starting a startup, there is information that can be immediately utilized, and for others, there are valuable lessons that will be beneficial when entering society.

More information can be found on the following page (in Japanese): https://www.erc.t.kyoto-u.ac.jp/ugrad

[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 December 6th and 7th, 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] (4 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] (7 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.

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)

[Course requirements]

If the number of students enrolling in the course is large, the maximum number of students may be determined.

[Evaluation methods and policy]

[Evaluation Method]

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

III. Oreilly, Charles A. ^PLead and Disrupt: How to Solve the Innovator's Dilemma (Stanford Business Books, 2021) ISBN:978-1503629523

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 W301, Research Building 9 (subject to change in lecture room).

- Orientation: October 3

- Fundamentals of Group Work: October 17

- Special Lectures, In-Person Group Work: October 10, 24, 31; November 7, 14, 28; December 5, 12, 19, 26; January 9

- Camp: December 6 (Sat) 13:00 - December 7 (Sun) 13:00 @ AWL Keihoku (tentative)

- Preliminary Review Session: January 16

- Final Presentation: January 17 (Sat)

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) (4)

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)

*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 2025:

https://www.t.kyoto-u.ac.jp/fs/erc/2025Fall_GL_seminar2

For details on office hours, please check KULASIS.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

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

Course nu	ımbe	er	U-EN	G23 13	3295 LJ73	U-EN	G23	13295	LJ77				
-		-	芝総論 co Civil, Envi	ronmental	and Resources E	ingineering	nan and	ructor's ne, job tit departm ffiliation	tle, (nent]	Graduate Sch KANKEI KY Graduate Sch Professor, TA Graduate School Associate Pro	OIN 1001 of E XAOKA of Global En	ngineerin MASAI wironmental	eg KI l Studies
Target yea	r	4th ye	ar students	or above	Number credits	of		2	Year/	semesters	2025/Fi	rst semes	ster
Days and periods	v	Ved.4	4	Class	s style	Lecture (Face-t		ce cour	se)	Language of instruction	Japanes	e	
[Overview	and	d pu	rpose o	of the	course]								
する授業科 向や貢献す 導のもと,	目で べき 地球	ある こと (工学	5。系統 ≤がらが ≤に関連	的な誹 何です した [∮義によっ うるか」に ↓体的な課	て「地 ついて 題に自:	球工 解訪 身て	「学とい なすると 「取り組	1う学問 こともに 1むこと		それが [による 「地球	目指すべ ゼミ形式 工学科に	き方 の指 :在籍
[Course o	bjec	tive	s]										
地球工学	科に	:在新	雪する4 ⁴	手間に	何を学修す	「べきて	- , - ,	それに、	どのよ	うに取り組	むべきカ	を修得す	する。
[Course se	che	dule	and co	ontent	s]								
ガイダンス る。(1回)		講	遠の内容	(授業	š構成,全	体講義	の内]容,少	〉人数セ	ジミ実施要 領	(等)に	ついて説	明す
安全と工学 研究者とし	倫理 て持	!: 北 iつ /	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 説する	に際 。	₹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				地球]	□学が果た	すべき	役割	につい	Nて , ±	⊑木,環境,	資源の	各分野の	視点
少人数ゼミ つ少人数ゼ (調査・実	ミ形	式の	D授業を	受ける	ら。その中	で,各	教員	しに提示	された	:地球工学に			
研究現況の 活動を行っ める。(2回	てい							-					
								· – –		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7年4月2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7年4月2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。

*Please visit KULASIS to find out about office hours.

Course num	ber	U-EN	G24 24	4005 LJ74								
		画学 I ctural Plar	nningI			nan and	ructor's ne, job ti I departn Iffiliation	nent	Graduate Scl Professor,Ml	nool of Engineering IURA KEN		
Target year	Arget year 2nd year students or above Number of credits 2 Year/semesters 2025/Second semesters											
Days and periods	and Tue.2 Class style (Face-to-face course) Language of instruction Japanese											
[Overview a	nd pu	urpose o	f the	course]								
planning and d functions and p	Lecture on the basic knowledge on dimensional planning, scale planning, flow lines, etc. necessary for planning and designing the architecture, as well as the interpretation and the process of establishment of functions and programs, building types. In addition, we will give a lecture on the basis of positive (explanatory) theory to explain human psychology and behavior in built environment.											
[Course obj	ectiv	es]										
human psychol [corresponding	Understand the fundamental matters of the planning and design of architecture and the theories to understand human psychology and behavior in built environment. [corresponding learning / educational goal] B. Expertise and basic knowledge B2. Ability to understand the design and planning aspects of architecture											
[Course sch	edul	e and co	ntent	s]								
architecture an Unit and Dime	an ove d its e nsion	erview of evolution, al Plannin	the gen and in g: 1 se	nealogy of dicating the	architec e areas c ential di	tura cove men	ered by a sions ar	archited and units	ctural plannir s designers sh	nould understand,		
including aesth (stairs, slopes,								les, dir	nensions for	safety and comfort		
-	oncept ivacy	t of proxer and their	nics, v applic	which origination in arc	chitectu	re, a	•••			opology, including vacy awareness,		
Deepens under	Scale Planning: 1 session, Deepens understanding of scale planning for community facilities, forecasting population changes, variations in facility usage numbers, and the overflow rate method.											
Enhances unde	Foundations of Architectural and Regional Planning: 2 sessions, Enhances understanding of site planning, urban imagery, visual and optical illusions, land and diagrams, and the evolution of concepts and theories related to cities and regions.											
Special Lecture	es: 1s	essions,										
								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.

*Please visit KULASIS to find out about office hours.

							未更新
Course number	U-ENG24 2-	4006 LJ74		-			
Course title (and course 住居計i title in Living a English)	画学 and Housing De	sign		Instructor name, job and depar of affiliatio	title, tment		nool of Engineering sor,YANAGISAWA KIWAMU
Target year 2nd y	year students or above	Number credits	of	2	Yea	r/semesters	2025/Second semester
Days and Wed periods	.2 Class		Lecture (Face-t	o-face co	urse)	Language of instruction	Japanese
[Overview and pu	urpose of the	course]					
[Course objective	es]						
[Course schedule	e and content	s]					
,1time,							
,1time,							
,2times, ,1time,							
,1time,							
,3times,							
,2times,							
,3times,							
,1time,							
[Course requirem	nents]						
None	•						
[Evaluation meth	ods and polic	;y]					
-							
[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 number	U-ENG24 24	4007 SJ74				
Course title (and course title in Atelier F English)	-	itectural DesignI	Instructor's name, job t and departr of affiliatior	itle, nent	Associate Profess Graduate Sch Associate Profe Graduate Sch Associate Profe Graduate Sch Senior Lecture Part-time Lect Part-time Lect Part-time Lect Graduate Sch	nool of Engineering sor,YANAGISAWA KIWAMU nool of Engineering Sessor,NISHINOSAYAKA nool of Engineering essor,INOMATA KEISUKE nool of Engineering er,KOMIYAMA YOSUKE surer,UOYA SHIGENORI urer,YAMADA SUZUKO turer,HATA TOMOHIRO nool of Engineering ofessor,IWASE RYOKO
Target year 2nd ye	ear students or above	Number of credits	2	Year	/semesters	2025/First semester
Days and Mon.5 periods	,Fri.4,5 Class	s style Semina (Face-	ar to-face cour	rse)	Language of instruction	Japanese
[Overview and pu	rpose of the	course]				
Aims to acquire basic landscape and dwelling	0	architectural space	e design thro	ough th	ne issues of co	ntext of place,
[Course objective	es]					
Students learn archite the way of presentation		to get the sense of	context and	l answe	er dwelling iss	sues. Also, they learn
[Course schedule	and content	s]				
Landscape Students approach a s [Teachers: Taji, Kon Dwelling Considering the mean like without a purpos dwelling " by archite [Teachers: Taji, Yan	niyama, and Uo ning of dwelling e, and this is " ectural ways.	ya, 7times] g, it is not just a sp place of dwelling	pace of purp	ose, bu	t a place when	re you spend as you
[Course requirem	ents]					
None					Continue to	

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 nui	nbe	r U-EN	G24 24	4008 SJ74								
Course title (and course title in English) Henglish Number of							tructor's ne, job tit I departm Iffiliation	tle, nent	Professor, KA Graduate Sch Professor, HI Graduate School of Professor, KC Graduate Sch Associate Profe Kyoto Unive Not fixed Graduate Sch Professor, TA Part-time Leo Part-time Leo Part-time Lectur	nool of Engineering JI TAKAHIRO cturer,KAWAI Toshiaki cturer,TAKANO Yohei er,NAKAYAMA HIDEYUKI		
									Part-time Lect	urer,YAMADA SUZUKO		
I arget year 2nd year students or above credits 2 Year/semesters 2025/Second												
Days and periodsMon.4,5Class styleSeminar (Face-to-face course)Language of instructionJapanese												
[Overview	and	purpose o	f the	course]								
Aims to acqu Elementary S			lge of	architectur	al space	des	ign thro	ough th	e issues of U	rban Landscape and		
[Course ob	ject	tives]										
Students learn issues. Also,						urba	an conte	xt and	answer mode	ern urban and learning		
[Course sc	hed	lule and co	ntent	s]								
In Kyoto city [Teachers: Ka Elementary Students desi together, lear the surroundi	[Course schedule and contents] Urban Context n Kyoto city, students try to understand the urban context and propose architectural space. Teachers: Kanki, Hirata and Iwase, 7times] Elementary School Students design an elementary school at specific sites in Kyoto. They propose new ways for children to get ogether, learn and play, and also learn abilities to design them comprehensively based on the relationship of he surrounding environment and landscape. [Teachers: Kobayashi, Yoshida, Yanagisawa, Miura, Maki and Taji, 7times]											
	-							c	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

Course nu	ımbe	er	U-ENG24 24009 LJ74									
	建築環境工学 I Environmental Engineering of Architecture I Instructor's name, job title, and department of affiliation Graduate School of Engineering Professor,HARADA KAZUNOI Graduate School of Engineering Professor,OGURA DAISUKE								ARADA KAZUNORI			
Target yea	r	2nd y	d year students or al		or above Number credits		of		Year/semesters		2025/First semester	
Days and periods	s Wed.		ed.2 Cla		s style	Lecture (Face-t	co-face course)		se)	Language of instruction	Japanese	
[Overview	and	d pu	irpose o	f the	course]							
moisture tran methods are aspects. In su performance	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 o	[Course objectives]											
with respect B1: scientific B4: understa	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 se	che	dule	and co	ntent	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 a The causes o ventilation, y	of air	pol	lution in 1	rooms,	, necessary			rates, m	echani	sm of ventila	tion, buoyancy	
Radiation heat transfer (2 weeks) Continue to 建築環境工学 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.

[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.

*Please visit KULASIS to find out about office hours.

Course nu	umbe	er	U-ENG24 24010 LJ74									
Course title (and course title in English)			竟工学II nental Eng	ineerii	ng of Archite	ecture II	name, job title, and department			Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,OOTANI MAKOTO		
Target yea	irget year 2nd ye			vear students or above Number of credits				2	Year	/semesters	2025/Second semester	
Days and periods		Fri.2		Class	s style	Lecture (Face-t	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)

未更新

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.

*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 Acoustical noise source analysis and reduction in real environment

(3) Details of practical classes delivered based on instructors ' practical work experience Practical example of improving acoustical environment

										未更新	
Course nu	ımbe	er U-EN	G24 24	4011 LJ74							
		§構造力学 I hanics of Bui	lding	ding StructuresI			ructor's ne, job ti I departn Iffiliation	nent	Graduate School of Engineering Professor,OOSAKI MAKOTO Graduate School of Engineering Associate Professor, Graduate School of Engineering Senior Lecturer,HAYASHI KAZUKI		
Target yea	r	2nd year students of	or above Number of credits				2	Year	/semesters	2025/First semester	
Days and periods	and Fri.		Class style		Lecture (Face-to-		o-face course)		Language of instruction	Japanese	
[Overview	and	l purpose o	f the	course]							
models, basi mechanical j of of statical [Course o To study fun	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 objectives] To study fundamentals of mechanics of building structures, which form the basis of studying mechanics of building structures 2 and 3.										
-	[Course schedule and contents] 1. Introduction nd guidance of the course. Role of structural mechanics										
 Displacen Deformatiunder exteviscosity. (Definition Basic equelementary Definition Statically stress resu Derivation forces, she Excercise Assumptiand bendi Shear str Section p Stresses Stresses Stresses 	nent, ion p rnal Ohs of s ation ation ation dete ltant of s dete ltant for c ion o ng m ess c prope in th e for	als of statics, strain, force, rocess of stru forces. Defini- aki) tress and stra s for frame an lysis. (Ohsak tress resultan rminate beam s using equili- differential equili- differential equili- differential equili- differential equili- classes 1-8. (Hosa lue to bending erties and coo e inclined sec classes 10-13 ation/ Learnin	mome ctural ition o in. Str nalysis i) ts of b s. Me brium juation ding r Gimura ons. A iki) g. She rdinat ttion. I 3. (Kin	ent. Equilib materials, of f elasticity, ess-strain ro s. Assumpti- eams. (Ohs thods for fin equations for s for beams noments. (C a) xial stress due e transform Method usin nura)	e.g., stee plastici elationsl ons and aki) nding re or free l s. Diagr Dhsaki) lue to as e to torc ation. ((ng Mohi	el ar ty, a ty, a hip. l app action bodi ams xial jue. Ohsa r's ci	nd concr and (Ohsaki proxima on force es. (Ohs for axis force (Ohsaki aki) ircle. (O	ete, i) tions f es and saki) al	or		
					·			_c	 Continue to 逐	■	

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

										未更新		
Course nu	umbe	er U-EN	G24 2	4012 LJ74								
Course title (and course title in English)		發構造力学II hanics of Bu	ilding	Structures I	Instructor's name, job title, and department of affiliation				Graduate School of Engineering Professor, ARAKI YOSHIKAZU Graduate School of Engineering Associate Professor, KOHEI FUJITA			
Target yea	r	2nd year students	or above	Number of credits			2	Year	/semesters	2025/Second semester		
Days and periods	and Fri.1			Class style Lecture (Face-t			e to-face course) ^{Langua}			Japanese		
-		d purpose o		-								
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 o	[Course objectives]											
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.												
		dule and co		-								
		n of a bar and tion for defle							for deflection	analysis.		
		lly indetermi terms of unk				l rea	octions.					
	Theory of statically indeterminate beams 2, 3 classes, Displacement method in terms of unknown displacements.											
Statically determinate truss and frame, 4 classes, Analysis of stress resultants in statically determinate trusses and moment-resisting frames.												
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												

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.]

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

[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.

*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 24	4013 LJ74							
							nan and	tructor's ne, job tit I departm affiliation	tle, nent	Kyoto University Not fixed Graduate School of Engineering Associate Professor, SUGINO MINA		
Target yea	arget year 2nd year students			or above	Number of credits			2	Year	/semesters	2025/Second semester	
Days and periods	and Mon.2			Class style Lectur (Face				ace cour	se)	Language of instruction	Japanese	
[Overview	and	d pu	irpose c	of the	course]							
manufacturi	ng m	netho	od, basic	physic	al propertie	es, mech	anic	cal prope	erties,	usage examp	ng. In this lecture, the les in buildings, and so ng structural materials,	
[Course o	bjec	ctive	es]									
regarding co	nstru mon	uctio g the	on materia e learning	als suc g and e	h as concre ducational	te, meta goals li	ıl ma sted	aterials, by the c	and we	oody materia nent, the goa	ings, and so forth ls that make up ls are B. expertise and	
[Course se												
learning targ Concrete (6 for producin mechanical a Metal materi properties ar and the test n Wooden/tim structural ma form, constru- be on reflect recognition of Final Exam. A feedback of	get w time g co and p ial (3 nd ph ber s ateria uctio ing c of tir class	vill be ncrei physion of time nysic ods struction als of on me on we nber	e describe Production te, compo- ical prope- es): Raw cal proper of physic ture (4 ti- f wooder ethod, an rooden bu	ed. n methoundin erties of rates of cal pro- mes): n build ad the s uilding	and and prop of design, p of hardened tials of steel f steel mater perties will Regarding r ings, the de structure de design, con	perties of ropertie l concre l, steel r rials, all be expl material eteriorat sign of nstructio	of ce s of te, a maki oye aine pro ion (woo on, r	ement, p fresh cc nd envin ing techn d steel n ed. perties, of wood oden bui naintena	roperti oncrete ronmer nology nateria such a , durab ldings ance, a	es of aggrega /test method, ntal issues wi and its histo ls and nonfer s the strength bility, fire res will be expla	le lecture, etc.) and the ate/admixture, method , construction method, ill be explained. ry, mechanical rrous metal materials, n of wood as the istance, the structural ined, and the focus will ent based on the correct ducted.	
[Course re			_									
Nothing in p	artic	cular										

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						
	轻設計論 nitectural Des	ign M	ethod		nam and	ructor's le, job tit departm filiation	nool of Engineering RATA AKIHISA		
Target year	2nd year students of	or above	Number credits	r of		2	Year	/semesters	2025/First semester
Days and M periods	Ion.2	Class	s style	Lecture (Face-t		ce cour	se)	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	ll picture. A relationshi	At the sa p of real	me t lity a	ime, fle nd to er	xible t mbody	hinking ability the concept.	wledge from various ty is required to We will discuss the design Framework /
[Course objec	-		·	1.0		1 •		• / 1 •	
-	ty to understa	and the	e relationsh	ip betw	een t	he idea	s, tech	nologies, and	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	cases includi tural as a solid onment			-	e ide	as behi	nd arcl	nitecture and	discovery perspectives
Architectural des architectural desi 06 Notation 07 model 08 Engineering (09 Engineering (10 construction	gn and produ Structure)	ction s	-	bundant	t exa	mples c	of what	is happening	g at the actual
Architectural des examples 11 architect 1 12 architect 2 13 Architectural			, 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



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)				Instructor's name, job tit and departm of affiliation	le,	Professor,KC Graduate School	of Global Environmental Studies DBAYASHI HIROHIDE of Global Environmental Studies of essor,OCHIAI CHIHO
Target year 3rd ye	ear students or above	Number o credits	of	2	Year	/semesters	2025/First semester
Days and Mon. periods	3 Class		ecture Face-t	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 count he nature of citie will learn about rds as well as cu the social persp ties should prog	ntry is develo es will have a the fundame urrent challen pective of hu	oped on a large ental st nges fa iman b	r developing impact on ructure of th ced by citie	g, citie humar he city s from	s are faced wa life and the and urban de the physical	global environment. In evelopment from the perspective of
[Course objective							
Of the learning and e (C2: Ability to under	-	-		-	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 Urban development of 4. Outline of the deve 5. Focusing on E. Ho 6. Focusing on Le Co 7. Focusing on the ur Current trends of mod	s cities 1 cities 2 of modern cities elopment of mo- oward's urban phorbusier's urban ban movement	- 4 classes: dern cities hilosophy philosophy of Metabolis:		- 4 classes			
 Reconstructing urb Creating urban lan Inheriting historic Constructing safe 	dscapes cal cities	S					
Current trends of mo 12. The idea of the co 13. The potential of u	ompact city	-	ironm	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						
		き設備システ lding Equipm		'stem		nan and	tructor's ne, job tit I departm offiliation	tle, nent	Professor,OC Graduate Sch Professor,ISI Graduate Sch	nool of Engineering GURA DAISUKE nool of Engineering HIDA TAIICHIROU nool of Engineering ofessor,IBA CHIEMI
Target yea	r	3rd year students	or above	Number credits	' of		2	Year	/semesters	2025/First semester
Days and periods	Т	`hu.1	Clas	s style	Lecture (Face-t		ice cours	se)	Language of instruction	Japanese
[Overview	and	d purpose o	of the	course]						
conditioning	equ		nbing s	sanitation eq	quipmen	nt, ar	nd lighti	ing equ	ipment, and	uipment such as air- will discuss design n.
[Course o	bjec	tives]								
engineering	aspe	ects of archite	cture a	among the le	-			-		environmental department.
-		dule and co		-						
operation pri Heat load ca Air condition Heat source Duct design duct design Water supply water supply Lighting equ brightness ev temperature, Special Lect	incip lcula ning equij meth meth y and y and ipmovalua colo ure,	ble of various ation method, planning, (2 pment, (1 tim hod (1 time) l hod d drainage sau l drainage sys ent, (2 times) ation, lighting or rendering (1 time) Lect	air cor , (2 tim times) ne) Prin Flow e nitation stem do) Direc g meth	nditioning p nes) Various Air conditi nciples of b energy conse n equipmen esign metho t illuminant od, lighting	processe s heat lo ioning p asic hea ervation at, (2 tim od, Hot ce, indir ce, indir cequipm in the p	es bads, blann at som n in p nes) wate rect i nent, bract	, externa ning, zor urce equ pipes, du Water q water q r supply illumina use of n ice of bu	al weath ning, ai uipmen uct frict quality = ance cal natural uilding	her for design r conditionin t such as refr tion resistance standards and m and energy lculation, lun light, light so equipment	are, humidity, enthalpy, n, room load calculation g igerators and boilers e, equivalent diameter, d pollution prevention, conservation ninous flux method, ource, light color, color confirmation of
							· – –	c	 ontinue to 建	築設備システム (2)

[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 [『]Illustration building equipment』 (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 number	U-ENG24 34019 L	J74				
Course title (and course title in English)	ンクリート構造 I ced Concrete Structure	es I	Instructor's name, job tir and departn of affiliation	nent		ool of Engineering NI MASANORI
Target year 3rd y	ear students or above Num	nber of its	2	Year	/semesters	2025/First semester
Days and periods	Class style	Lecture (Face-t	o-face cour	se)	Language of instruction	Japanese
[Overview and pu	urpose of the cours	e]				
[Course objective	es]					
[Course schedule	e and contents]					
,2times,						
,3times,						
,3times,						
,3times, ,3times,						
,1time,						
[Course requirem	nents]					
None						
[Evaluation meth	ods and policy]					
[Textbooks]						
-						
				C	ontinue to 鉄筋	コンクリート構造 I (2)

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	burse number U-ENG24 34020 LJ74											
	and course 鉄骨構造 I name, job title, Disaster Frevention Research Institute e in Steel Construction I and department Drofessor, IKEDA YOSHIKI											
Target year	3rd y	ear students of	or above	Number credits	of		2	Year	/semesters	2025/First semester		
Days and periods	Thu.2	2	Class style Lecture (Face-to-face course) Language of instruction Japanese									
[Overview and	nd pu	urpose o	f the	course]								
frame construct the theory of pl and safety of st exercises are as	tion, t astici eel fra signe	he make- ty, which ame const ed to teach	up of f deterr ructio	framed cons nines collag n; and expl	struction ose load ains stru	n, an I, on	d outlin e of the	ne of de main f	esign method Factors contro	naterial used in steel s; describes in detail lling the functionality ods. Also, appropriate		
[Course obje	ective	es]										
behavior of stee In terms of the knowledge and	el fran depar B3. A	ne structu tment 's Ability to	res, as learni compi	s well as de ng/educatio rehend arch	sign me onal goa	thoc ls: E	ls based 3. Specia	thereo	on.	d the mechanical nd fundamental		
[Course sch				-		6	. .	• •				
	w ma	aterials / h	istory	of steel pro	oduction	tec	hniques	/ type		erial and their chemical w steel materials for		
The 4th class: H typical framew of connecting n	vorks	and exam	ple fr	ameworks	of large	stru	ctures /	types		omponents / overview		
The 5th class: S mechanical ch		•	-							٢S		
The 6th class: I overview of d	-		design	methods								
steel material	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 hearing force on upon fully plastic moments											

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.))

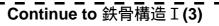
Please bring a scientific calculator.

*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-EN	G24 24021 I	_J74									
	生産 I ruction Engin	neering and N	Ianagement I	Instructor's name, job t and departi of affiliation	itle, nent	Professor,KA Graduate Scl	nool of Engineering ANETA TAKASHI nool of Engineering fessor,NISHINOSAYAKA					
Target year 2r	nd year students o	or above Nu crec	nber of lits	2	Year	/semesters	2025/First semester					
Days and We periods	and Wed.1 Class style (Face-to-face course) Language of instruction Japanese											
[Overview and	purpose o	of the cours	se]									
Stakeholders and t process including		-	-		-							
[Course object	ives]											
To acquire the kno B-B2.	owledge on l	building con	struction pro	cess.								
[Course sched	ule and co	ntents]										
Project delivery m Textbook Chapter 5-6. Project manag Outline of project Textbook Chapter 7. Project planning Project process an management. Textbook Chapter 8-10. Design in pro	of the lectur 1 arket ket of Japan 2 1 codes codes for pro- 3 1 ulations, state ethods, cont 4 gement management 5 3 nd phases. Part c 6, 6.1 oject proces and specific ering, quant c 6, 6.2-6.3	res. and oversea ofessionals in ndards, jobs tracts, procu nt in buildin, roject planni s cation requir	s. Activities a building co and roles that rement system g construction ng, briefing, ed in a const	nstruction. at are involv m. n. feasibility ruction pro	ved with	h building con	nstruction projects.					
·					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

									未更新			
Course nu	umber	U-EN	G24 34	4022 LJ74								
Course title (and course title in English)	and course 建築構造力学III Mechanics of Building StructuresIII English) Mumber of											
Target yea	r 31	rd year students	or above	Number credits	r of	4	Year	/semesters	2025/First semester			
Days and periods	Tue.2, Wed.2 Class style (Face-to-face course) Language of instruction Japanese											
[Overview	and	purpose o	of the	course]								
-	atrix n	nethod for st	tructur	al analysis.	Princip	les of virtua	ıl work	-	ment method (stiffness nethods. Fundamental			
[Course o	bject	ives]										
Study force addition stud									ructural analysis. In			
[Course s	ched	ule and co	ontent	:s]								
Fundamenta Frame analy				•	1		,	,				
Moment dist Moment dist					ral disp	lacement.						
Three-dimer Plane frames building frar	s with				nts. Shea	ar force dist	ributio	n formula. St	ructural design of			
Displacemer Member stif mid-span loa	fness					for truss and	d mom	ent-resisting	frame. Treatment of			
Principles of Principle of force. Unit v	virtua	l displacem	ent. Ui		isplacer	nent method	1 and s	tiffness meth	od. Principle of virtual			
Principles of Stationary an	•				ential en	ergy and co	omplen	nentary energ	у.			
Plastic limit Load-deforn	•		-	•			`		lapse, virtual work 重要構造力学 III(2)			

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 nu	umb	er U-I	ENG24 44	4023 SJ74							
Course title (and course title in English)		を環境工学 har of Practice in		Environmental E	Engineering	nan and	ructor's ne, job ti I departn Iffiliation	tle,	Graduate School of Engineering 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 Graduate School of Engineering Associate Professor,NII DAISAKU Disaster Prevention Research Institut Associate Professor,NISHINO TOMOAK Graduate School of Engineering Associate Professor,Sun Anyo		
Target yea	r	4th year stude	nts or above	Number credits	of		2	Year/	semesters	2025/First semester	
Days and periods	١	Wed.1,2	se)	Language of instruction	Japanese						
[Overview	an	d purpos	e of the	course]							
each topic, e skills while	in A exam inter	Architecture oples of des cacting with	e 1&2, an sign probl	d to develo lems are suj	p capab	ility	' in appl	ying th	e knowledge	vironmental to real projects. For problems by their own	
[Course o	bjeo	ctives]									
architecture	and A2: C	their mutu Capability i	al relation in underst	nships. Corr anding the	respond	ing g	goals fo	r educa	tion of depar	ngineering in tment are; A: global res, C: Practical skills,	
[Course s	che	dule and	content	s]							
Heat transfe	r and	d vapor cor	ndensatio	n [3 weeks]							
Air-conditio	ning	g system [3	weeks]								
(1) Sound le distance, noi (2) Transmi	uilding acoustics [3 weeks] 1) Sound levels, frequency characteristics and 1/3 octave bands, dB summations, sound attenuation by istance, noise reduction by barriers 2) Transmission loss, sound insulation, frequency analysis and evaluation 3) Reverberation time calculation, acoustical design of optimum reverberation time										
lighting and	colo	or [1 week]									
Sunshine an	d da	ylighting [1 week]					<u>.</u>	 ontinue to 建	築環境工学演習 (2)	

建築環境工学演習(2)

ventilation and smoke control for evacuation [2 weeks]

Basic subjects on ventilation design such as Velnouille 's formula, pressure difference, friction coefficients, wind pressure coefficients, neutral plane height.
 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.

[Courses delivered by instructors with practical work experience]

(1) Category

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

Continue to 建築環境工学演習(3)

建築環境工学演習(3)

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

Course nu	ımbe	ər	U-EN	G24 44	4027 LJ74							
Course title (and course title in English)	and course 建築計画学II itle in Architectural Planning II inglish)							ructor's ne, job ti I departn Iffiliation	nent	Graduate School of Engineering Professor,MIURA KEN Part-time Lecturer,Nagata Hisako Part-time Lecturer,Matsumori Orie		
Target yea	r	4th ye	ar students (or above	Number credits	[·] of		2	Year	/semesters	2025/First semester	
Days and periods	nd Wed.3 Class style								se)	Language of instruction	Japanese	
[Overview	and	d pu	rpose o	of the	course]							
and design. The relations planning and of thought in architectural such as the bastudies #821 interaction.	In oth hip b d des the plar pehav 1 tab	her we betwee ign c theo nning viora king a	vords, thi een huma of a living ry and pr based o l and cog a method	is class ans anc g envin ractice on the s gnitive dology	s provides a d their envir conment (th of architec study of hur sciences), that views	in outlin ronment at inclu tural pla nan-env and how architec	ne of t, an des anni viror v to ctura	E method d using architec ng, we wannent in apply th al planni	ds for o that ev ture) will ex ateracti is app ng as t	observing, rec valuation as the After an initial plain a new a ion (which inder roach to plan the design of	corporates disciplines ning and research case human-environment	
To foster the environment C. Practical C1. The abil	t skills	s			gn architec	tural spa	ace l	oased or	1 the ir	nteractions of	humans with their	
[Course s	che	dule	and co	ntent	s]							
followed by Environmen environmen	Course schedule and contents] roduction: 1 session, Overview of the social aspects, roles, and significance of architectural planning, lowed by an explanation of the lecture's positioning. vironmental Behavior Theory: 1 session, Explains the positioning of environmental psychology and vironmental behavior studies, learning about their relationship with architectural planning issues and their plication examples.											
	natics in Architecture, Urban, and Regional Planning: 1 session, Learning about mathematical analysis ods in architecture and urbanism, isovists, and their application examples.											

Universal Design & Barrier-Free Law: 2 sessions, Learning about architectural planning that considers the elderly and people with disabilities, universal design, and barrier-free law from the perspectives of safety, accident prevention, and usability.

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

Continue to 建築計画学II(2)

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								
	建築生 Construc		neering	and Manage	ement II	Instructor's name, job title, and department of affiliation			Professor,KA Graduate Scl Associate Pro	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	2025/Second semester		
Days and periods	Tue.											
[Overview	and p	u <mark>rpose</mark> c	of the	course]								
Planning and management be also expla	and con	nstruction	techno	ology, integ	grated w					Construction ation technology, will		
[Course ob	ojectiv	es]										
To acquire th C-C1.	e basic	knowledg	ge on s	upervision	and con	istru	ction m	anager	nent.			
[Course so	hedul	e and co	ntent	s]								
 Introduction Construction Textbook Cli Planning Construction Textbook Cli Managen Project team Textbook Cli Project ma Building Infi Textbook Cli Project ma Building Infi Textbook Cli Ino-14. Construction Taught by V Textbook Cli Final exa Feedback 	a process napter 7 g and m a planni napter 8 ment m design napter 1 nageme ormatic napter 1 nageme ormatic napter 1 nageme ormatic napter 9 minatio	anagemen ng and ma d, 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/ Learni	t anagen -10.4 ion an).6 T ng and).8 ntrol. Kiuchi.	nent. Consi d reporting other appli	dering s system	, pro	dule, qu	-	·			
			.		13.5							
Requested to	master	"Constru	ction E	ingineering	; and Ma	anag	gement I	" in 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)	建築 The	を論 ory of Archite	ecture			nan and	ructor's ne, job ti departn ffiliation	tle, nent	Graduate School of Engineering Professor,TAJI TAKAHIRO Graduate School of Engineering Associate Professor,INOMATA KEISUK		
Target yea	r	3rd year students o	or above	Number credits	of		2	Year/	semesters	2025/First semester	
Days and periods		Ved.3	Class	s style	Lecture (Face-t		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)

未更新

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)

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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

r U-ENO	JZ4 34	4030 LJ74								
itle rse 都市・地域論 Theory of Living Space in the Region Instructor's and department of affiliation Graduate School of Engineering Professor,KANKI KIYOKO										
Brd year students o	or above	Number credits	of		2	Year	/semesters	2025/Second semester		
hu.2	Class	s style			ce cours	se)	Language of instruction	Japanese		
purpose o	f the	course]	1							
[Overview and purpose of the course] Here we discuss several series of theories and methods for understanding and planning urban and rural planning. We should know spacial as well as historical views. In the Urban and Rural Planning, we should concern and design the physical aspects as well as social aspects of the living spaces. Specially in the contemporary planning, we collaborate within and without local communities, while cooperating with global ongoing activities. For the architectural students, it is necessary to study the ways to design the living spaces with deep understanding of urban planning theory and systems, as well as to find the new ideas for updating such theory and systems. [Course objectives] B.Basic and Professional Knowledges, B2.Architectural Design and Living space Design with										
bal View for	Plann	ing、E2. A	•	·			-			
trol and Devend facing stree , roles, advan ing - urban la lanning and d mmunity agree tem in Japan on, participan d Town scape ebates and co ad Creativity ning zone, Co esign (2 class nent and oper spaces, Netwo open space, fic (1 class) Road Design	elopme et (his tages, and us lesign, eemen and in tion, h e (2 c ommun onserv ses) n space vorks : Child nation	ent Control, storic area a disadvanta e, rural lance, rural lance, community ts regulation (Germany listory of pa lasses) nity actions ration area c e design, Ec for the safet ren's partici	ind narro ges 1 use, na y identif n and ac articipated related lesign, H cologica ty of the pation, 2	ow s ntura ty ar ctivi ory j Lan Heri l de l livi Play	streets) S I land u nd distric ties planning dscape o tage area sign ng spac	Simula se ct plan g and d disfigu a, Natu es Mainter m and	tion of the tra (2 classes) esign, Machi rement ural and Cultu nance and par city center de	ansition of the area dukuri tral Landscape		
	anning and control and Dever bal View for lule and co roles, advanting and control and Dever bal view for lule and co rol and Dever d facing street roles, advanting and control and Dever roles, advanting and control and control and Dever roles, advanting and control and	and year students or above and year students or above anu.2 Classe purpose of the geveral series of the uld know spacial a gn the physical aspe- nning, we collabor and the physical aspe- nning, we collabor and the physical aspe- nning, we collabor and students, it is ne- urban planning the tives] essional Knowledge- view, C.Practical bal View for Plann ule and content rol and Development and facing street (his proles, advantages, ing - urban land us anning and design nunuity agreement tem in Japan and in on, participation, h d Town scape (2 classes) nent and open spaces spaces, Networks a open space, Child fic (1 class)	Ard year students or above Number credits nu.2 Class style purpose of the course] everal series of theories and n uld know spacial as well as hi gn the physical aspects as well nning, we collaborate within a d. ral students, it is necessary to urban planning theory and sys tives] essional Knowledges, B2.Ard view, C.Practical Skills, C2 bal View for Planning, E2. A lule and contents] rol and Development Control, nd facing street (historic area a proles, advantages, disadvanta ing - urban land use, rural land anning and design, communit nmunity agreements regulatio to min Japan and in Germany on, participation, history of pa d Town scape (2 classes) ebates and community actions d Creativity ning zone, Conservation area of esign (2 classes) nent and open space design, E0 spaces, Networks for the safe open space, Children's partici- fic (1 class) Road Designation (Japan), Pu	ry of Living Space in the Region And year students or above Number of credits nu.2 Class style Lecture (Face-t purpose of the course] reveral series of theories and methods uld know spacial as well as historical an the physical aspects as well as socia nning, we collaborate within and with a. ral students, it is necessary to study th urban planning theory and systems, as tives] essional Knowledges, B2.Architectur view, C.Practical Skills, C2. Ability bal View for Planning, E2. Ability to lule and contents] rol and Development Control, From co ad facing street (historic area and narro r, roles, advantages, disadvantages ing - urban land use, rural land use, na anning and design, community identif nmunity agreements regulation and ac tem in Japan and in Germany on, participation, history of participated d Creativity ning zone, Conservation area design, H esign (2 classes) ent and open space design, Ecologica spaces, Networks for the safety of the open space, Children's participation, fic (1 class) Road Designation (Japan), Public tra	• 地域論 ry of Living Space in the Region and of a and year students or above Number of credits anu.2 Class style Lecture (Face-to-fa Lecture (Face-to-fa purpose of the course] several series of theories and methods for ruld know spacial as well as historical view and the physical aspects as well as social as aning, we collaborate within and without is. ral students, it is necessary to study the was urban planning theory and systems, as we tives] essional Knowledges, B2.Architectural E view, C.Practical Skills, C2. Ability to und lule and contents] rol and Development Control, From one s and facing street (historic area and narrow s roles, advantages, disadvantages ing - urban land use, rural land use, natura anning and design, community identity ar nunuity agreements regulation and activitiem in Japan and in Germany on, participation, history of participatory p d Town scape (2 classes) ebates and community actions related Lan d Creativity ing zone, Conservation area design, Heritesign (2 classes) nent and open space design, Ecological de spaces, Networks for the safety of the livit open space, Children's participation, Play fic (1 class) Road Designation (Japan), Public transponent	 ・地域論 ry of Living Space in the Region Iname, job tit and departm of affiliation Index space of the course] Index space (2 classes) Iname, job tit and pen space design, Ecological design spaces, Networks for the safety of the living space open space, Children's participation, Play park, M fic (1 class) Index participation (Japan), Public transport design 	 地域論 ry of Living Space in the Region name, job title, and department of affiliation rd year students or abov Number of credits 2 Year, nu.2 Class style Lecture (Face-to-face course) purpose of the course] everal series of theories and methods for understanding uld know spacial as well as historical views. In the Urba gn the physical aspects as well as social aspects of the liv nning, we collaborate within and without local commun the physical aspects as well as social aspects of the liv nning, we collaborate within and without local commun the physical aspects as well as social aspects of the liv nning, we collaborate within and without local commun the physical aspects as well as social aspects of the liv nning, we collaborate within and without local commun the physical aspects. B2.Architectural Design and Liv. tives] essional Knowledges, B2.Architectural Design and Liv. view, C.Practical Skills, C2. Ability to understand global lule and contents] rol and Development Control, From one site till the regin difficing street (historic area and narrow streets) Simula roles, advantages, disadvantages ing - urban land use, rural land use, natural land use lanning and design, community identity and district plan munuity agreements regulation and activities em in Japan and in Germany on, participation, history of participatory planning and di d Town scape (2 classes) ebates and community actions related Landscape disfigu d Creativity ning zone, Conservation area design, Heritage area, Natu esign (2 classes) ehat and open space design, Ecological design spaces, Networks for the safety of the living spaces open space, Children's participation, Play park, Mainter fic (1 class) Road Designation (Japan), Public transport design and (Japan, Germany) 	• 地域論 ry of Living Space in the Region name, job title, and department of affiliation Graduate Sci Professor,KA ind year students or abov Number of credits 2 Year/semesters nu.2 Class style Lecture (Face-to-face course) Langage instructor purpose of the course] Lecture (Face-to-face course) Lecture (Face-to-face course) Leagage instructor purpose of the course] Lecture (Face-to-face course) Leagage instructor Leagage instructor purpose of the course] Leagage instructor Leagage instructor Leagage instructor purpose of the course] Leagage instructor Leagage instructor<		

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)	建築光・音環境学 Lighting and Acoustics in Architecture					name, job title, and department			Graduate School of Engineering Professor,ISHIDA TAIICHIROU Graduate School of Engineering Professor,OOTANI MAKOTO		
Target yea	Brd year students of	or above Number of credits				2	Year/semesters		2025/First semester		
Days and periods		lon.1	Class	s style	Lecture (Face-t	ure ce-to-face course)			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)		構造解析 ytical Metho	Building Str		name, job title, and department			Disaster Prevention Research Institute Professor,IKEDA YOSHIKI Graduate School of Engineering Professor,ARAKI YOSHIKAZU		
Target yea	r 3	rd year students o	or above	Number credits	of		2	Year	/semesters	2025/Second semester
Days and periods	W	ed.2	Class	s style	Lecture (Face-t	re -to-face course)			Language of instruction	Japanese
[Overview and purpose of the course]										

This course offers an introductory overview of structural analysis methods used in building design. Key topics include the finite element method, as well as various vibration analysis techniques for buildings and their components.

[Course objectives]

Learning the basics and applications of structural analysis methods, and the basic theory of structural dynamics.

The educational goal is to acquire basic and expert knowledge about static and dynamic analysis of building structures.

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 structural analysis methods (8 times):

The basics and applications of structural analysis methods used in building design are explained. Through practical examples, the characteristics of various structural analysis methods, including the finite element method (FEM), are introduced. The FEM is explained with its basic theory and applications, focusing particularly on analytical accuracy and its use in actual structural design. The fundamental examples are applications to a one-dimensional elastic body and a beam, with hand-calculation examples provided to deepen the understanding of the FEM's basic theory. The formulation of the FEM is linked with basic concepts of discretization, shape functions, strong and weak forms, and continuity of solutions, and it is related with the principle of virtual work from structural mechanics, and the matrix displacement method. Finally, an overview of mechanical modeling and its applications in actual structural design is provided.

Building Vibration Analysis (6 times):

The basics of modelling and analytical methods used in structural dynamics are explained on vibration theory. First, an equation of motion for a multi-degree-of-freedom system is shown, and the corresponding eigenvalue problem is explained to extract the vibration characteristics of a building from its equation of motion. Next, the diversity of damping models is introduced, and an eigenvalue problem based on the state equation is shown to deal with various damping models. Earthquake response analysis methods are introduced in the time and frequency domains. The equation of motion and the state equation are also expressed in the discrete-time system. In relation to this, difference methods and numerical integrations are explained. In response analysis, the mode superposition method is also taken up in connection with the

Continue to 建築構造解析(2)

建築構造解析(2)

eigenvalue problem. The models dealt with include bending and shear vibration, torsional vibration, and rocking vibration. The analytical models are dealt with not only from the perspective of earthquake-resistant structures, but also from the perspective of seismic isolation and passive vibration control. The basics of wave propagation theory are explained to understand the vibration of a continuum, and a continuum model and its vibration analysis are also mentioned. Note that vibration analysis in the linear range is mainly dealt with.

Final Examination (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 achievement level of the course will be evaluated via the final examination.

[Textbooks]

車谷麻緒、 寺田 賢二郎 『例題で学ぶ有限要素解析』(森北出版、2021)

Regarding structural design and structural analysis methods, the upper book (in Japanese) will be used. Regarding structural dynamics, the original teaching material for six lectures will be distributed.

[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

(2) Details of instructors ' practical work experience related to the course For 30 years, one of the professors had supported vibration analysis work in in a private company.

(3) Details of practical classes delivered based on instructors ' practical work experience Earthquake response analysis is required for high-rise buildings or seismically isolated ones.

Course nu	er	U-ENG	G24 34	4035 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 yea	4th ye	ear students o	or above	Number of credits			2	Year/semesters		2025/First semester	
Days and periods	Aon.	2	Class style Lecture (Face-1			e to-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 foundation structure is influenced not only by the foundation structure itself, but also largely by the dynamic											

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	r U-EN	U-ENG24 34036 LJ74									
		討震構造 Earthquake Resistant Structures					ructor's ne, job tit departm ffiliation	nent	Graduate School of Engineering Associate Professor, SUGINO MINA		
Target year3rd year students or aboveNumber of credits					of		2	Year	/semesters	2025/Second semester	
Days and periods		Ved.3	Class	ass style Lecture (Face-			ce cours	se)	Language of instruction	Japanese	
[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)

未更新

Ī	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.

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category

A certificate-bearing course that includes practical classes related to the certificate.

Continue to 耐震構造(3)

耐震構造**(3)**

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

						未更新
Course number	U-ENG24 34	4037 LJ74				
Course title (and course title in English)	ンクリート構造 ced Concrete Str		Instructor's name, job tit and departm of affiliation	nent		nool of Engineering NI MASANORI
Target year 3rd y	ear students or above	Number of credits	2	Year/	semesters	2025/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	nentsl					
None						
[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)	鉄骨構 Steel C	造II Construction	n II			nan and	ructor's ne, job tit I departm Iffiliation	tle, nent	Professor,KC Disaster Prev Associate Profe Graduate Sci	hool of Engineering DETAKA YUUJI vention Research Institute essor,KURATA MASAHIRO hool of Engineering er,INAMASU HIROYUKI
Target yea	r 3rd	year students o	or above	Number credits	r of		2	Year	/semesters	2025/Second semester
Days and periods	Mon	1.2	Class	s style	Lecture (Face-t		ce cours	se)	Language of instruction	Japanese
[Overview	and p	urpose o	f the	course]						
the function	ality and pplicatio	d safety of ons to strue	steel fi	frame struct design. Als	tures, ex	kplai	ning in	detail	their theoreti	ts, factors that control cal background and ises to teach them
[Course o	bjectiv	'es]								
actual buildi	ngs.				onal goa	lls, C	2. practio	cal ski	lls and C3. A	bility to construct
[Course s The 1st-3rd										
Central con	npressio	on column	Euler	buckling th						boundary conditions / ng virtual work
The 4th clas Inelastic bu residual stre	ckling a	according	to tang	-	us theor	y an	d reduce	ed mod	dulus theory ,	/ the influence of
	y of bud	ckling slop	pe defle	ection / buc	ckling of	f fra	mes wit	th restr	icted horizon ffects against	ntal displacement / buckling
The 6th-7th Pure torsio buckling of	n of con	nponents /	/ warpii	ng of comp	ponents	/ the	ory of la	ateral l	ouckling of b	eams / theory of
									anded capacit nents and co	
The 9th-10tl	n class: (Componer	nt desig	gn;						
			·		· — — ·		· – –	c	Continue to	

鉄骨構造II(2)

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

The 11th-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.

											未更新
Course nu	umb	er	U-EN	G24 3-	4039 SJ74						
Course title (and course title in English)		†演習 lier ₽		f Arch	itectural De	sign III	nan and	ructor's ne, job tit departm ffiliation	ile, nent	Professor,HI Graduate Sch Professor,KA Graduate Sch Professor,KA Graduate Sch Professor,TC Graduate Sch Associate Prof Graduate Sch Assistant Profe Part-time Lee	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 cturer,ONISHI MAKI
Target yea	r	3rd ye	ear students	or above	Number credits	r of		3	Year/	semesters	2025/First semester
Days and periods			.,5,Fri.4,5		-	Semina (Face-t		ce cour	se)	Language of instruction	Japanese
[Overview	an	d pu	rpose c	of the	course]						
[Course o	bjeo	ctive	s]		-					-	
[Course s	che	dule	and co	ontent	ts]						
,14times,											
,14times, ,2times,											
[Course re	equi	irem	ents]								
None											
[Evaluatio	on m	netho	ods and	l polic	cy]						
									c	ontinue to	 設計演習 III(2)

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

						天史新 天史新
Course number	U-ENG24 34	4040 SJ74				
Course title (and course title in English)		tectural Design IV	Instructor's name, job ti and departn of affiliation	tle, nent	Professor,HII Graduate Sch Professor,MI Part-time Lectu Part-time Lectu Graduate Sch	nool of Engineering RATA AKIHISA nool of Engineering URA KEN urer,YAMAMOTO ASAKO urer,FUJIMOTO SOSUKE nool of Engineering essor,KIYOYAMA YOHEI
Target year 3rd y	ear students or above	Number of credits	3	Year/	semesters	2025/Second semester
Days and Mon.5,T periods	ue.3,4,5,Wed.5 Class	s style Semina (Face-t	r to-face cour	se)	Language of instruction	Japanese
[Overview and pu	urpose of the	course]				
issues of apartment of	complexes and c express architect In principle, it v	ultural complexes. tural programs and	In particula appropriate	r, we a structu	im to cultivat aral and envir	al expertise through the te the practical ability ronmental systems as
Students learn archit	ectural abilities	to answer modern	social and c	ultural	issues.	
[Course schedule	e and content	s]				
Collective Housin	g					
	nce. The course pace, private spa lls to comprehen amamoto and st	provides instruction ace, and introduction provides a size of the structure of the structur	on of design on of ancilla acture, envir	skills t ry facil onmen	o propose the ities to suppo t, and design	
Public places in mod backgrounds, and or	ientations. In the	e second half of the	e design exe	rcise, tl	ne course pro	•

backgrounds, and orientations. In the second half of the design exercise, the course provides instruction of design 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 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

Course nu	umbo	ər	U-EN	G24 24	4041 LJ74						
Course title (and course title in English)		-	ザイン論 of Landsc		esign		nam and	ructor's ne, job ti departn ffiliation	tle, nent	Professor,TA Graduate Sch Associate Profe Graduate Sch	nool of Engineering AJI TAKAHIRO nool of Engineering essor,INOMATA KEISUKE nool of Engineering er,KOMIYAMA YOSUKE
Target yea	r	2nd y	ear students o	or above	Number credits	of		2	Year/	semesters	2025/First semester
Days and periods		Ved.	5	Class	s style	Lecture (Face-t		ce cour	se)	Language of instruction	Japanese
[Overview	an	d pu	irpose o	f the	course]						
and outline t	the n will o	iean lesci	ing of sig ribe issue	ns, syı s relate	mbols, and ed to landsc	space as	s coi	ncepts in	n envir	onmental des	indscapes, and gardens sign methodologies. eas and concrete

[Course objectives]

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 schedule and contents]

Transfiguration of Forms of Human Habitation, and Landscape Formation (Takeyama) - 7 classes: Since appearing on the planet, human beings have built various forms of habitation. While looking back on the processes that gave rise to architecture, villages, and towns, this course will trace the spacial concepts of each era, taking them as forming landscapes along with architecture, and consider the architecture and forms of habitation that should exist in the future. (1) Establishment of the human sphere, (2) The occurrence of architecture, villages, and towns, (3) Urban theories and programs, (4) Ancient urban landscapes, (5) Technology and architecture/towns, (6) Communication and forms of habitation, (7) The future of architecture, villages, towns, and forms of habitation.

Interpretation of Environment and Composition of Landscape (Taji) - 7 classes: The composition of architectural environments and interpretation of landscape (Taji)

These lectures will outline the landscapes that we create and inhabit around architectural structures and explain the structure and meaning of landscapes based on human existence in terms of architectural theory, while exploring various theories relating to the spatial composition of landscape. They will also consider architectural and garden landscape composition methods in terms of theories of design (and using specific examples). (1) Built environments and landscapes created by architecture, (2) Theories on the meaning and composition of landscape, (3) English architecture and landscape gardens -1 (landscape with meaning), (4) English architecture and landscape gardens - 2 (sensed landscape), (5) Japanese architecture and gardens - 1 (symbolism with stone), (6) Japanese architecture and gardens - 2 (symbolism with water), (7) From architecture to urban landscape.

Student Assessment - 1 class: An assessment of whether a basic understanding of landscape design has been obtained.

_____ Continue to 景観デザイン論(2)

未更新

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

										未更新			
Course num	ber	U-EN	G24 4	4042 LJ74									
	風構 ind R	造 esistant S	tructu	res		nan and	tructor's ne, job ti d departn affiliation	nent		vention Research Institute SHIJIMA KAZUYOSHI			
Target year	4th y	vear students of	or above	Number credits	r of		2	Yea	r/semesters	2025/First semester			
Days and periods	Tue.2	2	Clas	s style	Lecture (Face-1		ace cour	se)	Language of instruction	Japanese			
[Overview and	•	-		-									
wind pressure. secure the build standards and A [Course obje Acquisition of o	This course will provide an overview of various meteorological phenomena causing the wind genesis to understand the wind force on building structures, and discuss the relation between flow around building and wind pressure. The course provides the explanation about the evaluation method of design wind load to secure the building safety against wind and the wind resistant design method based on the the related standards and AIJ Recommendations for Loads on Buildings. [Course objectives] Acquisition of expert and basic knowledge on wind resistant design. Understanding of the evaluation of wind load and the construction from the stand point of wind resistant design.												
[Course sch				_									
Mechanism of These classes w the heat budget These classes w for wind resista tornado. Basics of wind	wind vill pr , the p vill th .nt de force	genesis, 4 rovide an o mechanisi en provid ssign of bu	t class overvi m of w le the e uilding sure, 4	es: iew of the a vind genesis explanation g and structu	s caused about thure with	l by he cl the	low prea haracter descript	ssure s istics tion of	system, front of strong wind its origin suc	notion of the earth and and topography, etc. d, which is important th as typhoon or ng of its physics. We			
also obtain equ objects.	ations	s for simp								re on the surface of			
	vill ex	xplain the							• •	and the prediction 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 num	ber	U-EN	G24 24	4043 LJ74									
		都市行政 g and Urb		ministratio	n	nan and	tructor's ne, job ti I departn affiliation	tle, nent	TAKAGI KA 京都市都市記 FUMIYAMA	设所洛西支所 洛西担当区長 ATSUHIDE 一一局 建築景観担当局長 A TATSUAKI cturer,Okada Kousuke			
Target year	2nd y	ear students o	or above	Number credits	r of		2	Year	/semesters	2025/First semester			
Days and periods	Wed.	4	Class	s style	Lecture (Face-1		ace cour	se)	Language of instruction	Japanese			
[Overview a	nd pu	irpose o	f the	course]									
periods [Overview and purpose of the course] [Overview and purpose of the course] [Overview and purpose of the course] This class will deepen your understanding of the interaction of various administrative organs relating to urchitecture 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 objectives]													
[Course obj	ective	es]											
of construction Understanding in urban manag	[Course objectives] Corresponding learning and education objectives: C. Practical Skills C2. Ability to understand the social role of construction activities. U nderstanding of the interaction of various administrative organs relating to architecture and urban planning n urban management. U nderstanding the roles, systems and outlines of architecture and urban planning related laws.												
[Course sch	edule	e and co	ntent	s]									
General Outlin perceived from				-		orica	al overv	iew of	how urban is	ssues have been			
the various sys	tems 1 roject	elated to s, develop	urban ment j	planning (l	and use	reg	ulations	, distri	ct planning, u	systematic outline of urban facilities, urban Urban Planning			
various system	s of la	indscape j	oreserv	vation and f	formatio	n u	nder the	Lands	scape Act and	ematic outline of the l Ordinances based on d current issues.			
Architectural A Administration Administration	's role	and the c	current	issues it fa	aces, as	well	as the i	ole pla		e of the Architectural Architectural			
	lards A	Act and re	lated 1	aws and re	gulation	is, ai	nd their	operat	ion in practic	l structure of the e, as well as the outline			
Case Study - 2 administration		This clas	s will	provide a s	tudy of	curr	rent issu	es rela	ted to constru	action and urban			
F								(Continue to	建築・都市行政 (2)			

建築・都市行政**(2)**

Theme: Urban regeneration practice, Regional revitalization project

Student Assessment - 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 nu	umber	U-ENG24	44044 SJ74						
•	設計演 Atelier	習V Practice of A	rchitectural D	esign V	nan and	ructor's ne, job ti departn ffiliation	tle, nent	Professor,HI Graduate Sch Professor,KA Graduate Sch Professor,KA Graduate Sch Professor,TC Graduate Sch Professor,DA Graduate Sch Professor,DA Graduate Sch Professor,TA Graduate Sch Professor,TA Graduate Sch Disaster Prev Professor,MA Graduate Sch Associate Profess Graduate Sch Graduate Sch Assistant Profess Graduate Sch Assistant Profess Graduate Sch Graduate Sch Assistant Profess Graduate Sch Graduate Sch Graduate Sch Graduate Sch	nool of Engineering NIELL, Thomas Charles nool of Engineering AJI TAKAHIRO of Global Environmental Studies DBAYASHI HIROHIDE ention Research Institute
Target yea	r 4th	year students or ab	ove credits	r of		3	Year	/semesters	2025/First semester
Days and periods		3,4,5,Wed.5 Cla	-	Semina (Face-t		ce cour	se)	Language of instruction	Japanese
[Overview	and p	urpose of th	ne course]				_c	Continue to	 設計演習 V (2)

設計演習 V (2) [Course objectives] [Course schedule and contents] ,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)			計演習 e on Struc	ctural]	Design		nam and	ructor's ne, job tit departm ffiliation	nent	P C A C A	Professor, TA Graduate Scl Professor, KC Graduate Scl Assistant Pro Graduate Scl Assistant Pro	nool of Engineer NI MASANOF DOOL of Engineer DETAKA YUU, nool of Engineer fessor,SATOU Y nool of Engineer ofessor,Yamada	XI ring ring 'UUICHI ring Ryo
Target yea	r	4th y	ear students	or above	Number credits	r of		2	Year	r/s	semesters	2025/First sem	nester
Days and periods		Fri.4,			s style	Semina (Face-1		ce cour	se)		Language of instruction	Japanese	
[Overview	<i>i</i> an	d pı	urpose c	of the	course]								
[Course o	bje	ctive	es]										
[Course s	che	edule	e and co	ontent	ts]								
,2times,													
,2times, ,5times,													
,6times,													
[Course re	equ	irem	nents]										
None													
[Evaluatio	on n	neth	ods and	l polie	cy]								
[Textbook	(s]												
-													
									(Co	ontinue to	構造設計演習(2	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	mb	er	U-EN	G24 4	4046 EJ74						
•			才料実験 Tests of St	ructural	Mateials and	Members	nar anc	tructor's ne, job ti I departn affiliation	tle,	Professor, KC Graduate Sch Professor, TA Graduate Sch Associate Profes Kyoto Unive Not fixed Graduate Sch Graduate Sch Graduate Sch Graduate Sch Graduate Sch	aool of Engineering DETAKA YUUJI aool of Engineering NI MASANORI aool of Engineering sor, SUGINO MINA rsity aool of Engineering er, INAMASU HIROYUKI aool of Engineering Sessor, SATOU YUUICHI aool of Engineering fessor, Yamada Ryo
Target year	,	4th ye	ar students o	or above	Number credits	r of		2	Year/	semesters	2025/First semester
Days and periods	ľ	Mon.3	3,4	Class	s style	Experir (Face-t		t ace cour	se)	Language of instruction	Japanese
[Overview	an	d pu	rpose o	f the	course]						
[Course of	oje	ctive	s]						_		
[Course so	che	dule	and co	ntent	ts]						
,3times, ,1time, ,3times, ,2times, ,3times, ,3times,											
[Course re	qu	irem	ents]								
None											
[Evaluation	n m	netho	ods and	polic	cy]						
									<u>c</u>	ontinue to 棹	黄道・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

Course nu	Image: Problem in the problem in t												
				n of B	uildings		nan and	ne, job til departm	tle,] nent	Professor,HA Disaster Prev Associate Profe Graduate Sch	ARADA KAZUNORI ention Research Institute essor,NISHINO TOMOAKI 1001 of Engineering		
Target year 4th year students or above Number of credits 2 Year/semesters 2025/First semesters Days and periods Fri.2 Class style Lecture (Face-to-face course) Language of instruction Japanese [Overview and purpose of the course] Even though not outstanding, many safety measures are implemented into buildings and built-environment													
and	F	ri.2		Class	s style			ce cour	se)	Language of instruction	Japanese		
[Overview and purpose of the course]													
In this lectur 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 re explained.												
[Course objectives]													
design of bu B1:scientific B4:understar C1:ability to	[Course objectives] By understanding the fundamental physio-chemical phenomena of fire, general principles of fire safety lesign of building is acquired. B1:scientific ability to solve problems B4:understanding environmental aspect of architecture C1:ability to realize actual buildings												
[Course se				ntent	s]								
Introduction The history is presented.	of fir			buildi	ngs is intro	duced.]	Foll	owing tl	ne histo	ory, framewo	rk of fire safety design		
Physics and Basic knowl fully-develo	edge	e of f	fire pheno	mena	such as ign	ition, b	urni	ng, fire	plume,	initial fire sp	pread, flashover and		
Fire safety d Methods for smoke contr	fire	safe	ty design	are in	troduced or	n fire co	mpa	artmenta	ntion, eg	gress of peop	le, firefighting activity,		
End-term ex Check degre					n of achiev	ements	(1 w	/eek)					
[Course re	qui	rem	ents]										
•			-		-	-					009 LJ74] and II[U- ENG24 34018 LJ74] is		
		-							c	ontinue 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.

[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	ımb	er	U-ENG24 14051 LJ74									
Course title (and course title in English)		建築工学概論<建築> Introduction to Architectural Engineering						ructor's ne, job ti departn ffiliation	tle,] nent] (Graduate School of Engineering Professor, ARAKI YOSHIKAZU Graduate School of Engineering Professor, KOETAKA YUUJI Disaster Prevention Research Institute Professor, MATSUSHIMA SHINICHI Graduate School of Engineering Professor, TANI MASANORI		
Target year		1st ye	year students or above Number of credits					2	Year/	semesters	2025/Second semester	
Days and periods		Mon.	1	Class	s style	Lecture (Face-to-face course)			se)	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)

未更新

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

Course number U-ENG24 34052 LJ74											
-		境工学 Environme	ent En	gineering		Instructor's name, job title, and department of affiliation			Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Professor,ISHIDA TAIICHIROU Disaster Prevention Research Institute Associate Professor,NISHINO TOMOAKI		
Target year	3rd y	year students of	or above	Number of credits			2	Year/semesters		2025/Second semester	
Days and periods	Thu.	1	Class	s style	Lecture (Face-t		ice cour	se)	Language of instruction	Japanese	
[Overview	and p	urpose o	f the	course]							
Many buildings are accumulated in cities and majority of human activities are carried out inside of buildings. 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 ob	jectiv	es]									
The participants are to acquire knowledge on basic ideas of controlling environment in daily and emergent situations. B1:scientific ability to solve problems B4:understanding environmental aspect of architecture C1:ability to realize actual buildings											
[Course sc	hedul	e and co	ntent	:s]							
Global environmental problems and architecture (2 weeks) Environmental problems are identified in the hierarchy structure of global, semi-global, regional, urban, and architectural scales. The role of architecture in the age of sustainable development is discussed.											
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 thermal environment (2 weeks) Various measures are discussed such as cross ventilation through urban area, spot and/or linear vegetation, 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 an end-term examination (85%) and Quiz (15%).

[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								
	建築デザイン or and Architect		Theory	nam and	ructor's le, job tit departm ffiliation	nent	Disaster Prevention Research Institute Professor,MAKI NORIO			
Target year βrd y	year students or above	Number credits	of		2	Year	/semesters	2025/First semester		
Days and Tue.4 periods	4 Clas	s style	Lecture (Face-t		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 environmantal transition after disaster. 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 of public facilites to respond disaster will be discussed from the view point of 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	er	U-ENG24 34054 LJ74									
Course title (and course title in English)							Instructor's name, job ti and departr of affiliatior	itle, 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	3rd y	rd year students or above credits				2	Year	/semesters	2025/First semester		
Days and periods	nd Fri.3			Class style $\begin{bmatrix} L \\ (\end{bmatrix}$			o-face cour	rse)	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 num	ber	U-EN	G24 34	4055 LJ74							
Course title (and course title in English)							ructor's e, job tit departm filiation	nent	Graduate School of Engineering Professor, KANETA TAKASHI Graduate School of Engineering Associate Professor, NISHINOSAYAKA		
Target year3rd year students or aboveNumber of credits2Year/semesters2									2025/First semester		
Days and periods	Tue.3	3	Class	s style	Lecture (Face-t		ce cours	se)	Language of instruction	Japanese	
[Overview a	nd pւ	irpose c	of the	course]							
Information m construction p		-			ectured.	Also	researc	ch and	development	applied to building	
[Course obj	ective	es]									
To acquire the basic knowledge of operations research, information and communication technology applied in architectural design and planning. D-D1											
[Course sch	edule	e and co	ontent	s]							
 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 req	uirem	nents]									
	ge on	-	tics. qu	ıotComput	ational I	Pract	ice on A	Archit	ectural Desig	n and Engineeringquot	
-	[Evaluation methods and policy] * Evaluation method										
 * 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)		、都市史 ory of Japanes	都市史 y of Japanese Urban Space						Graduate School of Engineering Associate Professor,IWAMOTO KAORU				
Target yea	get year 1st year students or above Number of credits 2 Ye							Year	r/semesters 2025/First semester				
Days and periods	Т	`ue.3	Class	s style	Lecture (Face-t		ice cour	se)	Language of instruction	Japanese			
[Overview	and	d purpose o	f the	course]									
		this course is hich the reside								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	che	dule and co	ntent	s]									
[Course schedule and contents]1 What is urban history?2 Spatial structure of ancient cities3 Transformation of ancient cities and appearance of townhouses4 Central and local cities in the Middle Ages5 Medieval religious cities6 Castle cities in the Warring States period7 Urban culture seen in Rakuchu Rakugaizu8 Early modern governance system and castle cities9 Kyoto in the early modern period10 Osaka in the early modern period11 Edo in the early modern period12 Local cities in the early modern period13 Urban modernization14 Modern urban culture15 FeedbackStudent Assessment - 1 class													
[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.

										不更利
Course num	ber	U-EN	G24 34	4058 LJ74						
	築史 of Japane	se Arc	chitecture		nan and	Instructor's name, job title, and department of affiliation				
Target year 3rd year students or above Number of credits							2	Year/semesters 2025/Second ser		
Days and periods	Wed	.1	Class	s style	Lecture (Face-1		ice cour	se)	Language of instruction	Japanese
[Overview a	nd pi	urpose o	f 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 objectives] B. Expertise and Basic Knowledge B2. The ability to understand the design and planning aspects of architecture.										
[Course sch	edul	e and co	ntent	s]						
Japanese archit periods 4. Ten Daibutsuyo arc Settchuyo arch and Buddhist a	tectura nple a chitectu itectu rchite 2. Mu	al styles a rchitectur ture 7. Ze re 9. The ecture 10. uromachi	nd shr e in th n mor devel The F	ine architec e Asuka an asteries and opment of a Iondo (Mai	eture 3. d Nara j d Zensh architec n Hall)	Buc perio uyo tural in N	ldhist Te ods 5. T Archite l techno lew Bud	emple Cemple cture logy fi ldhism	Monasteries architecture 8. Medieval J om antiquity 11. Shrine a	istory 2.Traditional in the Asuka and Nara in the Heian period 6. apanese style and to the medieval era, rchitecture in the Craftsmen and tools 15,
[Course req	uiren	nents]								
It would be pre and archaeolog					ted in re	elate	d discip	lines s	uch as Japane	ese history, art history,
[Evaluation methods and policy]										
Examination at	t the e	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.

*Please visit KULASIS to find out about office hours.

Course nu	ımb	er	U-EN	G24 24	4059 SJ74							
Course title (and course title in English)	ourse 建築情報処理演習 Computational Practice on Architectural Design and Engineering						Instructor's name, job title, and department of affiliation			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 Senior Lecturer, INAMASU HIROYUKI Graduate School of Engineering Assistant Professor, YASUDA KEI Graduate School of Engineering Assistant Professor, TAKATORI NOBUMITSU		
Target yea	r	2nd y	vear students of	or above	Number credits	of		2	Yea	/semesters	2025/Second semester	
Days and periods	ł	Fri.4,	,5	Class	s style	Semina (Face-t		ace cour	se)	Language of instruction	Japanese	
[Overview	an	d pı	urpose o	f the	course]							
The course provides lectures and exercises to acquire fundamental knowledge for analyzing engineering problems in architecture using programming. The participants will study data processing using a programming language and learn program design, coding and data analysis.												
[Course o	[Course objectives]											
engineering teaches Brar	usin Ichii	ig pr ng, E	ogrammir Data Type	ng tech s, Data	nniques. Th a Format, A	e course Array, Fi	e use le R	es a prog leading	gramm and W	ing language riting, and Su	roblems in architectural named Python and b-routine. ng and Solving Skills.	
[Course s	che	dule	e and co	ntent	s]							
[Guidance] 1 [Introduction [Intermediat [Application [Program De [Evaluation	n to e pro of j esigi	prog ogra prog n Exe	mming (2 ramming ercises] 4	nd ter (3rd te classe	m)] 3 class erm)] 3 clas							
[Course re	equ	iren	nents]									
None												
[Evaluatio	n m	neth	ods and	polic	cy]							
The course g	grad	es ar	e based of	n the c	quizzes and	exercis	es d	uring cl	asses.			
[Textbook	s]											
Not used	_						_		(Continue to 建	築情報処理演習 (2)	

建築情報処理演習(2)

[References, etc.]

(Reference books)

Paiza learning https://paiza.jp/

Hajime Kitaichi: Programming Excersize Python 2019 http://hdl.handle.net/2433/245698

Architectural Institute of Japan, Information System Committee, Design Science Education Method Subcommittee. ; 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-ENG	G24 34	4060 LJ74							
Course title (and course title in English)		築温熱環境設計 nermal Environment Design of Architecture					nan and	ructor's ne, job ti departn ffiliation	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 credits		2	Year/	semesters	2025/Second semester			
Days and periods	r					Lecture (Face-t		ce cour	se)	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)

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	umbe	r U-EN	G24 14	4061 SJ74							
(and course 設計演習基礎 title in Atelier Practice of Architecural Design, Basis						nam and	ructor's e, job tit departm filiation	tle, nent	Graduate School of Engineering Professor,HIRATA AKIHISA Graduate School of Engineering Assistant Professor,YASUDA K Graduate School of Engineering Assistant Professor,IWASE RYC Graduate School of Engineering Assistant Professor,KIYOYAMA YC		
Target yea	r	1st year students or aboveNumber of credits2Year/								2025/Second semester	
Days and periods	N	Ion.4,5	Class	style	Semina (Face-t		ce cour	se)	Language of instruction	Japanese	
[Overview	anc	l purpose c	of the	course]							
[Course o	bjec	tives]									
	_			_							
-	cheo	dule and co	ontent	sj							
,7times, ,7times, ,1time,											
[Course re	equi	rements]									
None											
[Evaluatio	n m	ethods and	l polic	y]							
[Textbook	s]										
								Ľ	Jonunue 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

										未更新	
Course nu	mbe	er U-EN	G24 1	4064 LJ74							
	P建築史 ory of World	Archi	tecture		Instructor's name, job title, and department of affiliation Graduate School of Engineer Professor, TOMISHIMA YOS Graduate School of Engineer Associate Professor, IWAMOTO						
Target year	•	1st year students o	or above	Number credits	[.] of		2	Year	/semesters	2025/Second semester	
Days and periods	N	Ion.3	Clas	s style	Lecture (Face-t		ce cour	Japanese			
[Overview	and	d purpose 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 ol	bjec	tives]									
 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 so	che	dule and co	ntent	:s]							
Renaissance China - 4 cla Imperial pala Korean Penin	and sses ace a nsula ss: 14 edba	Baroque 8. 1 : 9-10. Chine and housing fo a - 1 class: 13 4. India and Is ack	8th anse Buc or the Arch	nd 19th cent Idhist Arch people iitecture of	tury arc itecture the Kor	hiteo 11.	cture Chines	e relig	-	e, and Gothic 6-7. ure 12. Chinese	
[Course re	qui	rements]									
None											
		ethods and									
	101	will be held a	– –					,			
								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.

*Please visit KULASIS to find out about office hours.

						未更新						
Course number	U-ENG24 44	065 LE74										
Course title (and course title in English)	語 for Architecture		Instructor's name, job title, and department of affiliation									
Target year 4th ye	ear students or above	Number of credits	2	Year	ar/semesters 2025/First semester							
Days and Thu.4 periods	4 Class	style Lecture (Face-1	to-face cour	se)	Language of instruction	Japanese and English						
[Overview and pu	irpose of the c	ourse]										
Le Corbusier said, in	Le Corbusier said, in Vers une architecture [Towards an Architecture] (1923)											
"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 w	science, as well a	as in international	-			0						
[Course objective	es]											
Able to use basic Eng	glish for commu	nicating and prese	enting 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 schedule	e and contents											
Wk 1: An overview and introduction to famous Western architects like Le Corbusier, Mies van der Rohe, Louis Kahn, Renzo Piano, KPF, Rem Koolhaas plus some previous projects that I had worked on.												
	Wk 2: Corbusier: Dom-ino & Villas 1. Primitive hut of the modern. Introduction to first assignment to be presented on Wk 5 (design sketches and presentation of a simple villa based on the theory of 5 points.)											
Wk 3: Corbusier: Do	Wk 3: Corbusier: Dom-ino & Villas 2. Five points of a new architecture.											
wk 5. Corbusier: Doint-ino & vinas 2. Five points of a new architecture. Continue to 専門英語(2)												

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	ŧr	U-EN(<u>524</u> 12	4072 PJ74						
•			杉実習 ntal Traini	ing in A	Architectural	l Design	nam and	ructor's ne, job tit I departm ffiliation	tle, nent	Senior Lecture Part-time Lect Graduate Sch Assistant Pro Graduate Sch	nool of Engineering er,KOMIYAMA YOSUKE turer,HIRANO TOSHIKI nool of Engineering ofessor,YASUDA KEI nool of Engineering essor,KIYOYAMA YOHEI
Target year 1st year students or above Number of credits				of		2	2 Year/semesters 2025/First seme				
Days and periods	and Mon.3,4 Class style					Practica (Face-to		aining ace cours	se)	Language of instruction	Japanese
[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	nber	U-EN	G24 44	4073 LJ74							
•	burse 建築設備計画法 Design Theory of Building Systems								Graduate School of Engineering 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 TOMOAKI Graduate School of Engineering Associate Professor,NISHINO TOMOAKI Graduate School of Engineering Associate Professor,NISHINO TOMOAKI Graduate School of Engineering Associate Professor,NII DAISAKU		
Target year	Number of								2025/First semester		
Days and periods	nd Wed.4 Class style (Face-to-face course) Language of instruction Japanese										
[Overview and purpose of the course]											
facilities, ligh is introduced,	ting e and t	equipment, the design t	and ac	oustic equi	pment.	In th	is lectur	re, the	outline of var	y and drainage rious building facilities enance is explained.	
[Course ob	-	-									
-	g lear	rning and e	ducatio	onal goals:	B. Expe		-	-		ce of building facilities. Ability to understand	
[Course sc	hedu	ile and co	ontent	s]							
[Course schedule and contents] 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.											

_____Continue to 建築設備計画法(2)

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

										未更新		
Course nu	ımbe	er U-EN	G24 44	4999 GJ74								
Course title (and course title in English)]研究 luation Thesi	s			Instructor's name, job title, and department of affiliation							
Target yea	t year 4th year students or above Number of credits 0 Year/sem									2025/Intensive, year-round		
Days and periods	Ι	ntensive	Class	s style	Semina (Face-t		ice cour	se)	Language of instruction	Japanese		
[Overview	and	l purpose o	of 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.												
-	-				o		n danatar	. din a .	fhath alaba	l and local values		
based on the verifiable m From the lea A; Compreh A1; Commu A2; Multi-fa C; Practical C2; Underst D; Innovatic D2; Attainin	From a new, previously unexamined perspective, with an understanding of both global and local values, based on their personal viewpoint, students must acquire the skills to effectively and sufficiently express a verifiable method of research or design related to architectural planning, design, structure, or environment. From the learning and educational goals listed by the Department: A; Comprehension ability A1; Communication and presentation skills A2; Multi-faceted understanding of the values of architecture C; Practical ability C2; Understanding of the social role of designing or building architecture D; Innovation D2; Attaining an imaginative perspective											
[Course s	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 the results obtained from former stage, or proceeding with design drawings and models.												
								C	Continue to	特別研究 (2)		

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.))

*Please visit KULASIS to find out about office hours.