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Careford requirements] Image: Section Finder Sectin Finder Section Finder Section Finder Sectio	Course title (and course Engineering Mathematics C Instructor's name, job title, and department of affiliation Instructor's Part-time Lecturer,KOSAKA ATSUSHI Target year Ind year students or above Number of credits 2 Year/semesters 2021/Second semester	Graduate School of Informatics Professor,KANDA TAKAYUKI Graduate School of Engineering Professor,MATSUBARA ATSUS Graduate School of Engineering Senior Lecturer,KANEKO KENTAR Graduate School of Engineering Professor,KAGEYAMA HIROSE Graduate School of Letters Associate Professor,KODAMA SATO Graduate School of Letters Associate Professor,KODAMA SATO Graduate School of Letters Associate Professor,KODAMA SATO Graduate School of Engineering Professor,KODAMA SATO Graduate School of Engineering Professor,MATSUSAKA SHUII Title in Engineering Ethics and department
Image: Second	[Course requirements] None	Associate Professor,NAGAKI AIICHIR Graduate School of Engineering Professor,MIURA KEN Graduate School of Energy Scien Professor,HIRATO TETSUJI
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Course number U-ENG20 12108 LJ77			工学序論(2)
Course title (and course title in English)	Instructor's name, job title, and department of affiliation	Graduate School of Engineering Senior Lecturer, TAKATSU HIROSHI Graduate School of Engineering Senior Lecturer, KANEKO KENTAROU Graduate School of Engineering Professor, TAJI TAKAHIRO Graduate School of Engineering Professor, TAJI TAKAHIRO Graduate School of Engineering Professor, TAJI TAKAHIRO Graduate School of Engineering Professor, HIRATO TETSUJI Graduate School of Engineering Professor, HIRATO TETSUJI Graduate School of Engineering Professor, HIRATO TETSUJI Graduate School of Engineering Professor, HIRHARA TAKASHI Graduate School of Engineering Professor, KAWASE MOTOAKI Graduate School of Engineering	[Course requirements] None [Evaluation methods and policy] Evaluation will be based on participation and essays assigned in every intensive lecture. [Textbooks] Specify if necessary. [Reference books) Specify if necessary. [Study outside of class (preparation and review)]
Target year list year students or above Number of cred	lits 1 Yea	Professor, YAMASHITA NOBUO ar/semesters 2021/Intensive, First semester	Specify if necessary.
Days and periods Intensive Class style Lectur			(Other information (office hours, etc.))
Days and periods Intensive Class style Lectur [Overview and purpose of the course]	e	Language of instruction Japanese	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.
development results of technology to the society. First, we offer special lectures regarding the basic kno expected to have. Then, we offer a series of intensive lectures about how future problems of our society, the value of technology are expected to fulfill. [Course objectives] Students learn basic matters such as attitudes and respu- social community. They find value in studying enginee understanding technology can suggest solutions of pro safety and security.	engineering can , and the respons nsibilities they ar ring and become	suggest solutions of current and ibilities that researchers and engineers re expected to take as a member of to consider what they do in future by	*Please visit KULASIS to find out about office hours.
[Course schedule and contents]			
Special lectures, Itime, About basic knowledge and att role of engineering in society. Intensive lectures, 6times, A series of lectures offered h and technology. Lectures are for understanding the rol reconfirming importance to study engineering and to w be opportunities to consider own future path. Essays an content and opinions of other students. Schedule of the lectures are announced later.	y special lecturer that technology ork as a research e assigned in eve	rs playing on global stages of science is playing in modern society, for er and engineer in society, and are to	
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		未更新	

工学部国際インターンシップ1(2)

[References, etc.]

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

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

Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

(1) Category A course that includes off-campus training classes.

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

(3) Details of practical classes delivered based on instructors' practical work experience

[Course requirements]

Described in the application booklet for each internship program. The registrant is requested to have enough language skills for the participation.

Overseas Internship, Itime, The contents to be acquired should be described in the brochure of each internship

Final Presentation, 1 time, A presentation by the student is required followed by discussion among participants

Seminar

Acquisition of international skills with the training of foreign language through the internship programs hosted by the University, the Faculty of Engineering, or the undergraduate school the applicant belongs to.

nstructor's

name, job title, and department of affiliation

Approved

Year/semesters 2021/Intensive, year-round

arguage of instruction Japanese and English

[Evaluation methods and policy]

[Course schedule and contents]

Course number U-ENG20 32402 SE77

[Overview and purpose of the course]

工学部国際インターンシップ1

Faculty of Engineering International Internship 1

Brd year students or above Number of credits 1

Class style

Course titl

(and course

Target year Days and periods Intensive

rogram.

[Course objectives]

title in

English)

Marit rating is done based on the presentation or reports after each internship program. Each Department responsible to identify if the credit earned by this subject to be included as mandatory ones or not. If the rerefit is not included in the undergraduate school in which the participant belongs to, the credit is granted by the Global Leadership Education Center as a optional credit. The number of credits, either 1 or 2, will be determined depending on the contents and the duration of the program that the participant has participated in.

[Textbooks]

Continue to 工学部国際インターンシップ1(2)↓↓↓

(Reference books)

The acquisition of international skills with the training of foreign language through the to internship programs hosted by the University is the major expectation to the students.

Course number U-ENG20 22403 SJ77	グローバル・リーダーシップセミナー I (企業調査研究) (2)
Course title (and course title in English)	[References, etc.] (Reference books)
Target year Ind year students or above Number of credits 1 Year/semesters 2021/Intensive, year-round	(Related URLs)
Days and periods Intensive Class style Seminar Language distution Japanese	http://www.glc.t.kyoto-u.ac.jp/ugrad
[Overview and purpose of the course]	[Study outside of class (preparation and review)]
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	Investigating companies in advance. Analyzing the result from hands-on training. Preparing presentation.
training on their laboratory, students investigate the methodology of team organization, proposal, market	(Other information (office hours, etc.))
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.	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.
[Course objectives] The goal of this course is to improve student's comprehension and explanation capability for processes of	[Courses delivered by instructors with practical work experience]
proposal and expansion on the international market investigating worldwide leading companies by group work.	(1) Category An omnibus course delivered by invited lecturers and guest speakers from different companies, etc.
[Course schedule and contents]	(2) Details of instructors' practical work experience related to the course
Week 1, Guidance Week 2-13, Hands-on training Week 14, Pre-presentation Week 15, Final presentation	(3) Details of practical classes delivered based on instructors' practical work experience
[Course requirements] How to register will be announced later. Students who want to join this course is requested to attend the first class.	
[Evaluation methods and policy]	
Students are prohibited to skip hands-on training. Evaluation will be based on presentation.	
[Textbooks]	
Not used	

未更新 Course number U-ENG20 32502 SE77 Course titl Instructor's name, job title, and department of affiliation 工学部国際インターンシップ2 (and course title in Faculty of Engineering International Internship 2 Approved English) Brd year students or above Number of credits 2 Year/semesters 2021/Intensive, year-round Target year Days and periods Intensive Class style arguage of instruction Japanese and English Seminar [Overview and purpose of the course] Acqusition of international skills with wth the training of foreign language through the participation to the international internship programs held by the Faculty of Engineering or its subsidiary bodies. [Course objectives] The acquisition of international and foreign language skills through the participation to international programs is expected. Detailed objectives of the participation should be identified by each program. [Course schedule and contents] Overseas Internship, 1 time, The contents to be acquired should be described in the brochure of each internship rogram. Final Presentation, 1 time, A presentation by the student is required followed by discussion among participants [Course requirements] Described in the application booklet for each internship program. The registrant is requested to have enough language skills for the participation. [Evaluation methods and policy] Marit rating is done based on the presentation or reports after each internship program. Each Department responsible to identify if the credit earned by this subject to be included as mandatory ones or not. If the rerefit is not included in the undergraduate school in which the participant belongs to, the credit is granted by the Global Leadership Education Center as a optional credit. The number of credits, either 1 or 2, will be determined depending on the contents and the duration of the program that the participant has participated in. [Textbooks] Continue to 工学部国際インターンシップ2(2)↓↓↓

工学部国際インターンシップ2(2)

[References, etc.] (Reference books)

[Study outside of class (preparation and review)]

(Other information (office hours, etc.))

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

*Please visit KULASIS to find out about office hours.

[Courses delivered by instructors with practical work experience]

Category
 A course that includes off-campus training classes.

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

Course number U-ENG20 22503 SJ77		ブローバル・リーダーシップをミナー=(イノベーションとその享集化)(2)
(and course 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) name, job title, Sen	iduate School of Engineering ior Lecturer,KANEKO KENTAROU	a goal is made through presentation of the proposal as well as a submitted report.
	iduate School of Engineering ior Lecturer.TAKATSU HIROSHI	[Textbooks]
English)	ioi Leculei, i AKA150 intoosiii	Will be indicated as necessary.
arget year 2nd year students or above Number of credits 1 Year/set	mesters 2021/Intensive, Second semester	
Days and periods Intensive Class style Seminar	uuqu of instruction Japanese	[References, etc.]
	superior superior	(Reference books)
[Overview and purpose of the course]		Will be indicated as necessary.
This course is a small-group workshop program where students are supposed by themselves aiming at creating new social values. In concrete, abilities of p		
trained through group works in residential training and skills of presentation		[Study outside of class (preparation and review)]
enhanced through oral presentations regarding contents of the proposal at eac		Will be indicated as necessary.
preliminary draft to its completion.		(Other information (office hours, etc.))
[Course objectives]		Course open period: October to January
Ability of planning, from extraction or setting up challenges to proposal of so	olutions aiming at creating new	
social values, is trained through group works.		*It depends on divisions which students belong to whether the earned credits are admitted as credits required for graduation. Please refer to the syllabus of your division.
[Course schedule and contents]		
*Depending on the situation of COVID-19 pandemic, all lectures will be given by the situation of COVID-19 pandemic, all lectures will be given by the situation of the situation	ven online and residential	*Please visit KULASIS to find out about office hours.
training will be canceled.		[Courses delivered by instructors with practical work experience]
		(1) Category
Orientation, ltime, A brief overview and a schedule of the course are explaine	d and working groups are	
organized.		(2) Details of instruction?
Lectures,2times,Lectures by experts are given.		(2) Details of instructors' practical work experience related to the course
Group works,3times,Setting up challenges, extraction of problems, collecting are done.	g information, and group works	
Residential training,7times,Through intensive group works based on discussi	on, a proposal for solving	(3) Details of practical classes delivered based on instructors' practical work experience
problems is planned, a draft report is made, and a few presentations are made		
Preliminary review meeting, I time, A preliminary review meeting is held and		
Report meeting, 1time, Final presentations are made and reports are submitted		
[Course requirements]		
None		
[Evaluation methods and policy]		
*Depending on the situation of COVID-19 pandemic, all lectures will be given by the situation of COVID-19 pandemic.	ven online and residential	
training will be canceled.		
is required to join the residential training. A report meeting is held and con oncerning abilities in group discussion to extract or set up challenges and to		
	* * ッグローバル・リーダーシップセミナール(イノベーションとその真要性)(の↓↓↓	
Contract	//w /w/ / / ///にく/ 川(1/1) /コノビビジ学来以(4)***	

Course num	her	U-EN	IG23 1	3001 LJ77	U-ENG	G23 13001	LJ73		未更新
Course title (and course 坩	球工		Global	Engineerii	ıg	Instructor's name, job ti and departn of affiliation	nent	KANKEI KY Graduate Scl Professor,YC Graduate Scl	hool of Engineering 'OIN hool of Engineering DNEDA MINORU hool of Engineering ssor,FUJIMORI SHINICHIRO
arget year	4th ye	ear students	or above	Number	of cred	its 2	Yea	r/semesters	2021/First semester
Days and period	Wed.	4	Clas	s style	Lecture			Language of instruction	Japanese
Overview a	nd pu	rpose	of the	coursel					-
-	edule	and c	onten	ts]					
[Course req	uirem	ients]							
[Course sch) [Course req None [Evaluation	uirem	ients]							
[Course req	uirem meth	ients]							
[Course req None [Evaluation [Textbooks]	uirem meth	ients] ods an							
[Course req None [Evaluation	uirem meth	ods an							
[Course req None [Evaluation [Textbooks]	uirem meth	ods an	d poli	cy]	nd reviev	<pre>////////////////////////////////////</pre>			
[Course req None [Evaluation [Textbooks] [References (Referenc	uirem meth	ods an	d poli	cy]	nd review	w)]			
[Course req None [Evaluation [Textbooks] [References (Referenc	uirem meth , etc.j e boo	lents] ods an ks) class	d poli	cy])	w)]			

Course title (and course title in English)	町学 I tural PlanningI		na	structor's ame, job ti nd departn f affiliation	nent		nool of Engineering fessor,YOSHIDA TETSU
Target year 2nd ye	ear students or above	Number	of credits	3 2	Year	/semesters	2021/Second semester
Days and periods Tue.1	Class	s style	Lecture			Language of instruction	Japanese
[Overview and pu	-	-					
Lecture on the basic le planning and designin functions and program (explanatory) theory t	ng the architect ns, building typ	ure, as wel bes. In addi	l as the inte ition, we w	erpretatio ill give a	n and lectur	the process of e on the basis	f establishment of
[Course objective	s]						
human psychology ar [corresponding learni design and planning a	nd behavior in l ng / educationa aspects of archi	ouilt enviro il goal] B. 1 tecture	onment.				theories to understand lity to understand the
[Course schedule	and content	s]					
and its transition, and							
Understand the conce	g, 1 time, pt of the unit s	pace of bui	ldings and	deepen t	heir un	iderstanding of	
Dimensional planning Understand the conce human body, dimensi Planning of capacity a Understand the plann fluctuation in the num	g, 1 time, pt of the unit s on of motion r and size,1time, ing of capacity	pace of bui equired for and size o	ildings and designing	deepen ti , dimensio	heir ur onal pl	derstanding of anning of uni	of the measure of t space and so on.
Understand the conce human body, dimensi Planning of capacity : Understand the plann fluctuation in the nun Evaluation, I time, Lecture on evaluation building and deepen t	g, 1 time, pt of the unit s ion of motion r and size, 1 time, ing of capacity aber of people t as and living en their understand	pace of bui equired for and size o using facili vironment	ildings and designing f regional f ty and the evaluation	deepen ti , dimensio facilities a overflow s done in	heir un onal pl and pre metho	derstanding of anning of uni ediction of po d. anning and de	of the measure of t space and so on. pulation fluctuation,
Understand the conce human body, dimensi Planning of capacity : Understand the plann fluctuation in the nun Evaluation, l time, Lecture on evaluation	g, 1 time, pt of the unit s; on of motion r and size, 1 time, ing of capacity of capacity as and living en their understand and so on. ime,	pace of bui equired for and size o using facili vironment ding of the	ldings and designing. f regional it ty and the evaluation weight det	deepen ti , dimensio facilities a overflow s done in erminatio	heir un onal pl and pre metho the pl	derstanding of anning of uni ediction of po d. anning and de hod and the e	of the measure of t space and so on. pulation fluctuation, esign process of the valuation method such
Understand the conce human body, dimensi Planning of capacity Understand the plann fluctuation in the nun Evaluation, ltime, Lecture on evaluation building and deepen t as max-min principle Durablity planning, lt Lecture on durable pl	g, 1 time, pt of the unit s on of motion r and size, 1 time, ing of capacity uber of people t as and living en their understand and so on. ime, anning of space ,2 times,	pace of bui equired for and size o using facili vironment ding of the e building.	ldings and designing, f regional f ty and the evaluation weight det Understan	deepen ti , dimension facilities a overflow s done in erminatic d the soci	heir un onal pl and pro metho the pl on methon ial dura	derstanding c anning of uni ediction of po id. anning and de hod and the e	of the measure of t space and so on. pulation fluctuation, esign process of the valuation method such d conversion etc of

寨計画学 I (2)	建築計画学 (3)
ilding type,3times, :ture on the type of daily behavior, room type / building type, type of combination / division of space, cept of flow line etc. Also, lecture on the process of establishment of representative building types such as ools and hospitals since modern times and deepen their understanding	(Other information (office hours, etc.)) [Grading evaluation] Examination. [Office Hour] (reception of questions, etc.) Tuesday 12: 00-13: 00. If more information about office hours, please check KULASIS. *Please visit KULASIS to find out about office hours.
nction, Program,2times, tures on concepts and changes of functions and programs in architectural design.	
vironmental psychology, l time, us on environmental psychology, positive (explanatory) theory to explain human psychology in the vironment and give lecture on the spread of the object, and outline affordance and others.	
ximity, Privacy, Security, Itime, ture on the concept of proximity studies (proxemics) from animal behavioral theory, cultural hropology and how they are applied to architectural planning studies such as privacy awareness and crime vention etc.	
al exam/Confirmation of learning achievement nfirm the proficiency level of lecture content.	
xdback,1time	
ourse requirements]	
ne	
valuation methods and policy]	
amination	
extbooks]	
tribute original documents every time and help to understand using projector projection slide.	
eferences, etc.]	
Reference books) roduced during class roduce reference book at every lesson	
tudy outside of class (preparation and review)]	
ase carefully read the materials distributed in the lesson and review the content of the lesson. vould be good enough, if you could get an understanding that "plan" thought to be general can change oughout the lesson.	
this end, it is recommended obtaining information on the planning and operation of each type of new hitecture and building from newspapers, television, and the internet.	

Course nu	imbe	r U-EN	G24 24	006 LJ74						
Course title (and course title in English)		計画学 ng and Housi	ng Desi	ign		nan and	ructor's ne, job til departm ffiliation	tle, nent		nool of Engineering or,YANAGISAWA KIWAMU
arget yea	r 2	2nd year students (or above I	Number	of cred	its	2	Year	/semesters	2021/Second semester
Days and peri	ods W	/ed.2	Class	style	Lecture	e			Language of instruction	Japanese
Overview	and	purpose o	f the c	ourse]						
[Course o	bjec	tives]								
-	chec	lule and co	ntents]						
ltime, ltime,										
2times, 1time,										
1time,										
3times,										
2times, 3times.										
1time,										
[Course re	equi	rements]								
None		ethods and	policy	/]						
	n m									
	n m									
[Evaluatio										
[Evaluatio										
[Evaluatio										
				_						
[Evaluatio									_	
[Evaluatio									Continue to	[住居計画学(2] ↓ ↓ ↓

住居計画学(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 number U-ENG24 24007 SJ74			未更新	設計演習 (2)
		Professor, TAJ Graduate Scho Professor, MIU Disaster Preven Professor, MA	ntion Research Institute KI NORIO	[References, etc.] (Reference books)
(and course 設計演習 I na title in Atelier Practice of Architectural Design I ar	structor's ame, job title, nd department f affiliation	Associate Professor Graduate Scho Associate Profes Graduate Scho	ool of Engineering r,YANAGISAWA KIWAMU ool of Engineering ssor,NISHINOSAYAKA ool of Engineering KOMIYAMA YOSUKE	Introduced during class Reference materials will be provided during classes. [Study outside of class (preparation and review)] Preparations are required during classes.
		Part-time Lectu	rer,UOYA SHIGENORI	(Other information (office hours, etc.))
		Part-time Lectur	rer,YAMADA SUZUKO	Every Friday 18: 00-19: 00
Target year 2nd year students or above Number of credits	S 2 Year	/semesters	2021/First semester	*Please visit KULASIS to find out about office hours.
Days and periods Fri.3,4,5 Class style Seminar		Language of instruction J	apanese	[Courses delivered by instructors with practical work experience]
[Overview and purpose of the course]				(1) Category A course with practical content delivered by instructors with practical work experience
Aims to acquire basic knowledge of architectural space de landscape and dwelling space.	esign through th	ie issues of con	text of place,	(2) Details of instructors' practical work experience related to the course
[Course objectives]				
Students learn architectural abilities to get the sense of co the way of presentation.	ntext and answe	er dwelling issu	es. Also, they learn	(3) Details of practical classes delivered based on instructors' practical work experience
[Course schedule and contents] •Landscape Students approach a specific site to propose architectural [Teachers: Taji, Komiyama, and Uoya, 7times] •Dwelling Considering the meaning of dwelling, it is not just a space like without a purpose, and this is "place of dwelling". dwelling" by architectural ways. [Teachers: Taji, Yanagisawa, and Onishi, 7times]	e of purpose, bu	t a place where	you spend as you	
[Course requirements] None				
[Evaluation methods and policy]				
Grades are evaluated based on the design works and their	presentations.			
[Textbooks]				
Instructed during classes.		Continue to	段計演習 Ⅰ(2)↓↓↓	

		-								未更新
Course nu	imber	U-EN0	324 24	008 SJ74						
Course title (and course title in English)		껍II Practice o	f Archi	tectural D	esignII	nan and	tructor's ne, job ti I departn ffiliation	nent	Professor,HI Graduate Scl Professor,K/ Graduate Scl Professor,T/A Graduate School Professor,KC Graduate Scl Associate Pro Part-time Lectur Graduate Scl	tool of Engineering RATA AKIHISA tool of Engineering UNKI KIYOKO tool of Engineering JI TAKAHIRO of Global Environmental Studies DBAY ASHI HIROHIDE tool of Engineering fessor, YOSHIDA TETSU er,NAKAYAMA HIDEYUKI tool of Engineering fessor, WASE RYOKO
Farget yea	r 2nd	year students o	r above I	Number	of cred	its	2	Yea	/semesters	2021/Second semester
Days and perio	ods Mon	.4,5	Class	style	Semina	ar			Language of instruction	Japanese
Overview	and n	urnosa o	f the c	oursel						
ssues. Also,						aroa	ai conte	At all	answer mout	ern urban and learning
[Course s	chedul	e and co	ntents	5]						
[Teachers: K ●Elementar Students des	y, studen anki, H y Schoo ign an e rn and p ing env	irata and I ol lementary lay, and a ironment a	wase, 7 school lso lear nd land	7times] l at specifi n abilities dscape.	c sites i to desig	n Ky gn th	oto. Th	iey pro nprehe	nsively based	vace. ys for children to get on the relationship of
[Course re	quirer	nents]								
None										
[Evaluatio	n meth	ods and	policy	v1						
Grades are e					s and the	eir p	resentat	tions.		

設計演習II(2)

[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

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

Course n	umbe	er U-ENG	G24 24	4009 LJ74								建築環境工学
Course title (and course title in English)	建築	逐環境工学 I ironmental Eng	gineeri	ng of Archi	ecture I	nam and	ructor's ne, job tit departm ffiliation	tle, nent	Professor,HA Graduate Scl	nool of Engineering ARADA KAZUNORI nool of Engineering GURA DAISUKE		End-term exan Checking degr
arget yea	ar	2nd year students o	or above	Number	of credi	ts	2	Year	/semesters	2021/First semester	1	None
ays and peri	iods V	Wed.2	Class	s style	Lecture				Language of instruction	Japanese]	[Evaluation Score is evaluation
		d purpose o		-						ation, heat and		Score is evalua
nethods are spects. In s	e intro sumn		lition, cipants	evaluation s will acqui	methods re the kr	s wi now	ll be dis ledge a	scussed nd skill	1 in physiolog 1 to evaluate	al and calculation gical and psychological the building		Not used
Course o	obiec	tives1				_						[References (References
		ecture is to let nvironmental								to evaluate buildings	1	Shuichi Hokoi in Architecture
1: scientifi	fic abi	ility to solve r	robler	ms								
4: understa	tandir	ility to solve p ng environmer	ntal asj	pect of arch	nitecture,	,						[Study outs
4: understa	tandir		ntal asj	pect of arch	itecture,	,						[Study outs It is recommer
34: understa 21: ability t	tandir to rea	ng environmer llize actual bui	ntal asj ildings	pect of arch s	iitecture,	•	_					It is recommer (Other info
4: understa 1: ability t Course s architecture the role of a temperature	tandir to rea sche re and archi re, wi	dule and co climate (3 we tectural enviro	ntal asp ildings ntent eeks) onmer ition),	pect of arch s s] ntal enginee regional ch	ring. Flu	ictua stics				eorological conditions een the external		It is recommer
4: understa C1: ability t Course s rechitecture The role of the temperature nvironmen Thermal environmen	tandir to rea sche re and archi re, win nt arou wiron ly hea	ng environmer lize actual bui dule and co climate (3 we tectural envire nd, solar radia und the buildi ment (2 week	ntal asp ildings ntent eeks) onmen ution), ng and s) und dis	pect of arch s s] ntal enginee regional ch d indoor en ssipation mo	ring. Flu aaracteris vironme: echanisn	ictua stics nt.	s, and th ody tem	ne relat	ionship betw re regulation			It is recommer (Other info [Office hours] the teachers vi
14: understa 11: ability t Course s architecture ihe role of a temperature nvironmen ihermal environmen ihermal enviro	sche re and archi re, win nt arou dy hea d Sen er in t	ag environmer lize actual bui dule and co climate (3 we tectural envire d, solar radia und the buildi ment (2 week tt generation a sory body tem buildings (3 w n steady-state	ntent ildings ildings eeks) onmen ition), ng and s) ind dis iperatu reeks) heat c	s s s s s atal enginee regional ch d indoor en sipation m are index an onduction a	ering. Flu aaracteris vironmes echanism ad therm and therm	nctua stics nt. n, bo al e mal	s, and th ody tem nvironn characte	ne relation nperatur nental o	ionship betw re regulation design.	een the external	L	It is recommer (Other info [Office hours] the teachers vi
4: understa 1: ability t Course s rehitecture the role of a emperature avironmen hermal env (uman bod) omfort and leat transfe leation bet Heat supply ir quality a he causes a	tandir to rea schee e and archi re, wii nt arou viron dy hea d Sen: viron dy hea d Sen: viron dy hea d Sen: viron and v of ain	ng environmen lize actual bui dule and co c climate (3 we tectural envir nd, solar radia und the buildi ment (2 week at generation a sory body tem buildings (3 w n steady-state room temper rentilation (4 v	ntal asj ildings ntent eeks) onmer ttion), ng and s) md dis aperatu eeks) heat c ature, sv ooms	s s s s s tal enginee regional ch d indoor en ssipation mure index an onduction a unsteady-s)	ering. Flu naracteris vironme: echanisn nd therm and therr tate heat	nctua stics nt. n, bo al en mal con	ody tem nvironn characte	ne relat nperatu nental eristics n, indoc	ionship betw re regulation design. s and heat tran or humidity a	een the external mechanism, thermal nsfer coefficient of wall	L	It is recommer (Other info [Office hours] the teachers vi
4: understa 1: ability t Course s rechoice the construction rechoice the construction rechoice the construction rechoice the construction the construction of the con	tandir to rea schee e and archi re, wir nt arou wiron dy hea d Sen: er in b tweer y and and v of air wind wind wind	genvironmer lize actual bui dule and co climate (3 we tectural envir nd, solar radia und the buildi ment (2 week t generation a sory body tem buildings (3 w n steady-state I room temper ventilation (4 v pollution in r	ntal asj ildings ntent eeks) onmer tition), ng and s) nnd dis peratu eeks) heat c ature, veeks; tition ks)	pect of arch s s] stal engineer regional ct i indoor en ssipation mure index an onduction a unsteady-s) and necess	ering. Flu aaracteris vironme echanism ad therm and therr tate heat ary vent	nctua stics nt. n, bo al er nal e con	ody tem nvironn characte aduction on amo	ne relat nperatu nental eristics n, indoc	ionship betw re regulation design. s and heat tran or humidity a	een the external mechanism, thermal nsfer coefficient of wall nd dew condensation		It is recommer (Other info [Office hours] the teachers vi

[Course requ	lirements]
None	
[Evaluation	methods and policy]
Score is evalua	ted based on an end-term examination and other materials.
[Textbooks]	
Not used	
[References,	
	a books) Teturo Ikeda, Katsumichi Nitta 『Kenchiku Kankyo Kougaku II (Environmental engii II)』 (Asakura Shoten) ISBN:4254268637 (in Japanese)
	de of class (preparation and review)]
It is recommen	ded to work on Quiz to be distributed at the lecture.
(Other infor	mation (office hours, etc.))
the teachers via	No explicit office hours are designated. If participants need to have time for questions, E-mail with his/her name, students number and request for schedule of meeting.
*Please visit K	ULASIS to find out about office hours.

Course title		0-LIN	G24 24	4010 LJ74							
Course title (and course title in English) 社築環境工学II Environmental Engineering of Architecture II						nan and	tructor's ne, job til I departm iffiliation	nent	Graduate School of Engineering Professor, TAKANO YASUSHI Graduate School of Engineering Associate Professor, ISHIDA TAIICHIROL		
Target yea	r 2nd y	ear students	or above	Number	of cred	its	2	Yea	/semesters	2021/Second semester	
Days and perio	ods Fri.2		Class	style	Lecture	e			Language of instruction	Japanese	
[Overview	and pu	irpose o	f the	coursel							
	t. The co heir eval	ourse will luation me	also c	over the ps						e and comfortable f such environmental	
ICourse s	chedule			-							
 Vision and These lect 											
to derive pho lectures will the eye to th quantities, lu (2) Architec These lec application i	otometric cover the e light en uminous tural Lig ctures with archite reflection configura	c quantitie e structur nvironmer flux, ligh hting, Ca Il explain ectural lig on and tra ation facto	es (the e of th nt, spe t inten culation how to hting.	basis of lig e eye and i ctral lumin sity, illumi on of direc o measure The lecture	ght meas retina, se lous effic nance, a t illumin illumina es will co	sure ensa cien ind l ianc ince over	ment), a tion of l cy, radio uminan- e - 2 cla , the bas	nd pro ight th ometri ce. sses: is of a tation	wide relevant arough rods an c quantities an architectural li of the direct i	ironment, explain how definitions. The and cones, adaptation of nd photometric ghting, and its lluminance by a point by a surface light	

The nysics of vibration and sound. Foundations of Acoustic Design マ classes. These lectures will explain basic topics relating to the physics of vibration and sound and the foundation Continue to 建築環境工学II(2) ↓↓↓

建築環境工学II(2)

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]

ן ר

[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 number U-ENG24 24011 LJ74		建築構造力学 (2)
Course title (and course title in English)	Instructor's name, job title, and department of affiliation	[Course requirements] None [Evaluation methods and policy]
Farget year 2nd year students or above Number of		Term examination
Days and periods Fri.1 Class style L	Lecture Language of instruction Japanese	[Textbooks]
[Overview and purpose of the course]		中村恒善『構造力学 図説・演習I』(丸善)ISBN:4-621-03965-2
	pes, elements, and design of building structures. Mechanical	
	plications are shown. Definitions of stress and strain, ess resultants and deformation of bars, theory and application	[References, etc.]
of of statically determinate beams are also given.		(Reference books)
[Course objectives]		
To study fundamentals of mechanics of building s building structures 2 and 3.	structures, which form the basis of studying mechanics of	[Study outside of class (preparation and review)]
-		Explained during the class.
[Course schedule and contents]		
 Introduction nd guidance of the course. Role of and fundamentals of statics, (Ohsaki) 	i structural mechanics	(Other information (office hours, etc.)) *Please visit KULASIS to find out about office hours.
2. Displacement, strain, force, moment. Equilibri	um equations of free body. (Ohsaki)	r lease visit COLASIS to find out about office flours.
3. Deformation process of structural materials, e.g	g., steel and concrete,	
under external forces. Definition of elasticity, p viscosity. (Ohsaki)	lasticity, and	Posures delivered by instructors with prestical werk superiors.
Definition of stress and strain. Stress-strain rela	ationship, (Ohsaki)	[Courses delivered by instructors with practical work experience] (1) Category
5. Basic equations for frame analysis. Assumption		A course with practical content delivered by instructors with practical work experience
elementary analysis. (Ohsaki) 5. Definition of stress resultants of beams. (Ohsak	ri)	
 Definition of stress resultants of beams. (Onsaid Statically determinate beams. Methods for find 		(2) Details of instructors' practical work experience related to the course
stress resultants using equilibrium equations for	r free bodies. (Ohsaki)	
 Berivation of differential equations for beams. forces, shear forces, and bending moments. (Oh 		(3) Details of practical classes delivered based on instructors' practical work experience
9. Excercise for classes 1-8. (Kimura)	.saki)	
10. Assumption of plane sections. Axial stress du	e to axial force	
and bending moment. (Ohsaki)	(01 1)	
 Shear stress due to bending. Shear stress due to 2. Section properties and coordinate transformat 		
13. Stresses in the inclined section. Method using		
14. Excercise for classes 10-13. (Kimura)		
15. Final examination/ Learning achievement eva	luation. (Ohsaki)	
	Continue to 建築構造力学 I (2) ↓ ↓ ↓	
	未更新	
Course number U-ENG24 24012 LJ74		建築構造力学II(2)
	Graduate School of Engineering	
Course title	Instructor's Professor, TAKEWAKI IZURU	[Evaluation methods and policy]
(and course 建築構造力学II	name, job title, Graduate School of Engineering	Term examination
English) Mechanics of Building Structures II	and department of affiliation Professor, HAYASHI YASUHIRO Graduate School of Engineering	
	Associate Professor,KOHEI FUJITA	[Textbooks]

(and course title in English)		發構造力学II chanics of Bui	lding	Structures	П	and	ne, job til I departm Iffiliation	nent j	Graduate School of Engineering Professor,HAYASHI YASUHIRO Graduate School of Engineering Associate Professor,KOHEI FUJIT		
Target yea	r	2nd year students o	or above	Number	of cred	lits	2	Year/	semesters	2021/Second semest	
Days and peri	ods I	Fri.1	Clas	s style	Lectur	e			Language of instruction	Japanese	
-		d purpose o		-							
resisting fra displacemer	me. it me	Theory of stat	ically s met	indetermin hod) are des	ate bear	ns a	nd buck	ling of	columns. Th	truss and moment- e force method and t rminate beams.	
[Course o	bje	ctives]									
	dy th	ne theory of sta								erminate beams. In ad the theory of	
[Course s	che	dule and co	nten	ts]							
Differential Theory of st	equa atica	on of a bar and ation for deflea ally indetermin terms of unkr	etion nate b	curve of a b eams 1, 3 c	eam an lasses,	d M	ohr's the		or deflection	analysis.	
		ally indeterminethod in terms				nts.					
		ninate truss an ss resultants in				usse	s and m	oment-i	resisting frar	nes.	
	qua			problem of a	a colum	n. E	igenvalı	ie analy	vsis. Slope-d	eflection method for	
Conduct fee	dbao	term exam, 1 o ck using term o		through KU	JLASIS						
[Course re	equ	irements]									
None											

[References, etc.] (Reference books)

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

[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]

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

Continue to 建築構造力学II(2)↓↓↓

Course number U-ENG24 24013 LJ74	建築材料(2)
Course title Instructor's Graduate School of Eng Professor,KANEKO YC Graduate School of Eng	SHIO
and course 建築材料 name, job title, Professor,HAYASHI Ÿ tte in Building Materials and department nglish) of affiliation Professor,NISHIYAMA	ASUHIRO Nothing in particular
Graduate School of Eng Professor,KOETAKA	neering Grades will be evaluated by a final exam and the achievement level of the course will be confirmed
rget year 2nd year students or above Number of credits 2 Year/semesters 2021/Seco	nd semester [Textbooks]
tys and periods Mon.2 Class style Lecture Language distution Japanese	Not used Not used
Overview and purpose of the course]	
ectures will be given on the properties of the materials making up a building. In this lecture, the	[References, etc.]
anufacturing method, basic physical properties, mechanical properties, usage examples in build rth will be explained regarding concrete, steel, wooden materials, finishing materials in general	
aterials, and others.	Introduced during class To be introduced during class
,	
Course objectives]	[Study outside of class (preparation and review)]
earning the manufacturing method, material characteristics, examples of use in buildings, and so garding construction materials such as concrete, steel, woody materials, and the finishing mater	
ake up buildings. Among the learning and educational goals listed by the department, the goals	D
spertise and basic knowledge, and B3. the ability to understand structural aspects of architecture	(other mornation (once nours, etc.))
	[Office hours] (reception of questions, etc.) To be indicated during the lecture
Course schedule and contents]	*Please visit KULASIS to find out about office hours.
duidance (1 time): The content of this lecture (composition of lesson, contents of whole lecture, or earning target will be described.	,
Concrete (4 times): Production method and properties of cement, properties of aggregate/admixtu	[Courses delivered by instructors with practical work experience]
or producing concrete, compounding design, properties of fresh concrete/test method, and mecha	nical and (1) Category
hysical properties of hardened concrete will be explained.	A course with practical content delivered by instructors with practical work experience
Steel material (3 times): Raw materials of steel, steel making technology and its history, classificat chemical composition of steel materials, physical properties and the stress/strain relation of steel h	
indemical composition of steel materials, physical properties and the stress/strain relation of steel i ind the test methods of physical properties will be explained.	lateriais,
Wooden/timber structure (4 times): Regarding material properties, such as the strength of wood a	the hand have been a set of the s
structural materials of wooden buildings, the deterioration of wood, durability, fire resistance, the form, construction method, and the structure design of wooden buildings will be explained, and th be on reflecting on wooden building design, construction, maintenance, and management based o recognition of timber. Finishing material (2 times): The differences between structural materials and finishing materials.	e focus will the correct
naterial properties to be utilized, examples of use in buildings, and so forth will be discussed. inal Exam. (1 time): A feedback class, including posting example model answers on KULASIS, onducted.	
ionauctea.	
	L
Course number U-ENG24 24016 LJ74	建築設計論(2)
	建築設計論(2)
Course title Instructor's	
	neering Evaluation of learning achievement, once, evaluation of learning achievement.

2nd year students or above Number of credits 2 Year/semesters 2021/First semester Target year Days and periods Mon.2 Class style anguage of instructio Lecture Japanese [Overview and purpose of the course] Architectural design requires architectural imagination that comprehensively links knowledge from various fields and presents it as a new overall picture. At the same time, flexible thinking ability is required to position architecture in the dynamic relationship of reality and to embody the concept. We will discuss the ideas and examples that underlie these abilities from the three aspects of architectural design Framework / Reality / Actuality. [Course objectives] B. Expertise / basic knowledge, ability to understand B2 architectural design / planning aspects Develop the ability to understand the relationship between the ideas, technologies, and social backgrounds that support architectural design and actual design activities through various examples, and to make unique considerations. [Course schedule and contents]

Architectural design framework, 5 times, unraveling the ideas behind architecture and discovery perspectives based on various cases including non-architecture 01 Overview 02 Artificial / Natural 03 Architecture as a solid 04 Space / Environment 05 Karamarishiro Architectural design reality, 5 times, showing abundant examples of what is happening at the actual architectural design and production site 06 Notation 07 model 08 Engineering (Structure) 09 Engineering (Environment) 10 construction Architectural design charity, 5 times, consider what architecture can bring to the real world, based on world

Architectural design charity, 5 times, consider what architecture can bring to the rear workt, based on workt examples 11 architect 1

12 architect 2 13 Architectural Commitment 1

14 Architectural Commitment 2

15 Fusion with urban environment

Continue to 建築設計論(2)↓↓↓

[Course requirements]

[Evaluation methods and policy]

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

[Textbooks]

Akihisa Hirata 『Tangling』 (LIXIL publishing, 2011) ISBN:isbn{} {9784872751666}

[References, etc.]

 (Reference books)

 Akihisa HIRATA
 "Discovering New Akihisa Hirata Architectural Works"," (TOTO publishing, 2018)

 ISBN-978787063730
 (Shinkenchikusya, 2017)

 Toyo Ito, Sou Fujimoto, Akihisa HIRATA 2017-2003," (Shinkenchikusya, 2017)

 Toyo Ito, Sou Fujimoto, Akihisa HIRATA Jun Sato
 [Creating New Principles for 21st Century Architecture," (INAX Publishing, 2009) ISBN: {} 9784872751581 {}

 Akihisa Hirata, others
 [Architect's Reading Techniques," (TOTO publishing, 2010) ISBN: 9784872751581 {}

 Akihisa Hirata, others
 [Architect's Reading Techniques," (TOTO publishing, 2010) ISBN: 9784887063143

 Toyo Ito, Kumiko Inui, Sou Fujimoto, Akihisa Hirata
 [architecture possible here?," (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

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

_____Continue to 建築設計論(3) ↓ ↓ ↓

築設計論(3)	Course number U-ENG24 34017 LJ74							
Details of practical classes delivered based on instructors' practical work experience	Course title (and course title in English) 都市設計学 Instructor's urban Planning and department of affiliation affiliation	SHI HIROHI						
	Target year Bird year students or above Number of credits 2 Year/semesters 2021/FB	irst semester						
	Days and periods Mon.3 Class style Lecture Laquage distution Japanes	ie						
	[Overview and purpose of the course]							
	and going forwards the nature of cities will have a large impact on human life and the global er this course, students will learn about the fundamental structure of the city and urban developme modern period onwards as well as current challenges faced by cities from the physical perspect architecture and from the social perspective of human beings. They will acquire the ability to co- direction in which cities should progress in the future.	ent from the tive of						
	[Course objectives]							
	Of the learning and education objectives listed by the department, this course develops: C: Prac (C2: Ability to understand the social role of architectural activity).	tical Skills:						
	[Course schedule and contents]							
	Urban Concepts and Structures - 3 classes: 1. Outline of the class 2. Basic structures of cities 1 3. Basic structures of cities 2							
	Urban development of modern cities - 4 classes: 4. Outline of the development of modern cities 5. Focusing on E. Howard's urban philosophy 6. Focusing on Le Corbusier's urban philosophy							
	7. Focusing on the urban movement of Metabolism							
	Current trends of modern cities (Recreating city value) - 4 classes 8. Reconstructing urban communities 9. Creating urban landscapes 10. Inheriting historical cities 11. Constructing safe cities	9. Creating urban landscapes 10. Inheriting historical cities						
	Current trends of modern cities (Establishing environmentally low impacting cities) - 3 classes 12. The idea of the compact city 13. The potential of urban wooden structures 14. Urban architecture by passive design							
	14. Urban architecture by passive design Continue to 都市設計	計学(2)↓						

都市設計学(2)	Course number U-ENG24 34018 LJ74
Student Assessment - 1 class 15. Assessment of the level of understanding of materials in the lecture series	Course title (and course) title in Building Equipment System English)
[Course requirements]	Associate Professor, IBA CHIEMI
None	Target year Brd year students or above Number of credits 2 Year/semesters 2021/First semester
[Evaluation methods and policy]	Days and periods Thu.1 Class style Lecture Language distruction Japanese
Assessment of achievement and grading is based on attendance (short lecture reports) (50%) and submission of a written assignment (50%).	[Overview and purpose of the course] The lecture will cover the operating principles and basics of the system for building equipment such as air-
[Textbooks]	conditioning equipment, plumbing sanitation equipment, and lighting equipment, and will discuss design
Related material will be distributed.	methods that take energy saving and global environmental protection into consideration.
	[Course objectives]
[References, etc.]	Students will understand the role and principle of operation of building equipment, and learn the basis for
(Reference books) Introduced during class	considering equipment planning in harmony with architectural planning. Students will acquire B. Expertise and basic knowledge and B4. Ability to understand environmental engineering aspects of architecture among the learning and educational goals set in the department.
[Study outside of class (preparation and review)]	[Course schedule and contents]
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 (3) Details of practical classes delivered based on instructors' practical work experience	Air conditioning process, (3 times) Analysis method of air condition such as temperature, humidity, enthalpy, operation principle of various air conditioning processes Heat load calculation method, (2 times) Various heat loads, external weather for design, room load calculation Air conditioning planning, (2 times) Air conditioning planning, zoning, air conditioning Heat source equipment, (1 time) Principles of basic heat source equipment such as refrigerators and boilers Duct design method (1 time) Flow energy conservation in pipes, duct friction resistance, equivalent diameter, duct design method d drainage sanitation equipment, (2 times) Water quality standards and pollution prevention, water supply and drainage system design method, Hot water supply system and energy conservation Lighting equipment, (2 times) Direct illuminance, indirect illuminance calculation, luminous flux method, brightness evaluation, lighting method, lighting equipment, use of natural light, light source, light color, color temperature, color rendering Special Lecture, (1 time) Lecture by specialists in the practice of building equipment Confirmation of learning achievement, (1 time) Understanding of lecture contents and confirmation of proficiency

建築設備システム(2)	未更 Course number U-ENG24 34019 LJ74
[Course requirements]	Course title (and course) 鉄筋コンクリート構造 I Instructor's Graduate School of Engineerin Professor.NISHIYAMA MINE
Students who take this course must have prior knowledge of Architectural Environmental Engineering I(U-	(and course) 鉄筋コンクリート構造 I title in Reinforced Concrete Structures I and department Graduate School of Engineerin
ENG24 24009 LJ74) and II(U-ENG24 24010 LJ74).	English) of affiliation Associate Professor, TANI MASA
	Target year Brd year students or above Number of credits 2 Year/semesters 2021/First semes
[Evaluation methods and policy]	
The grade is evaluated by a term-end examination.	Days and periods Fri.2 Class style Lecture Language of instruction Japanese [Overview and purpose of the course]
[Textbooks]	
Not used	
	[Course objectives]
[References, etc.]	[
(Reference books)	
SHASEJ 『Knowledge of air conditioning and sanitation equipment』 (Ohmsha Ltd.) ISBN:978-4-274-	[Course schedule and contents]
22039-5 SHASEJ 『Practical knowledge of air conditioning equipment planning and design』(Ohmsha Ltd.)ISBN:	,2times,
978-4-274-22038-8	,3times,
Supervised by Saburo Murakawa / edited by Keiji Yoshimura and Tomoko Uno IIIlustration building	,3times, .3times,
equipment』 (Gakugei Shuppansha) ISBN:978-4-7615-2628-3	,3times,
edited by Architectural Institute of Japan 『Lighting and color design in architectural environment』 (Ohmsha Ltd.) ISBN:978-4-274-10275-2	,1time,
Olinisha Edd.) 15D(C)/0-4-2/4-102/5-2	
	[Course requirements]
[Study outside of class (preparation and review)]	None
It is recommended that students take an appropriate review through Quiz, etc., which will be presented during the lecture.	[Evaluation methods and policy]
(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)	[Textbooks]
*Please visit KULASIS to find out about office hours.	
[Courses delivered by instructors with practical work experience]	[References, etc.]
(1) Category	(Reference books)
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	

] [

鉄筋コンク	リー	ト構造	l (2)
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[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

Course title (and course di title in S English)		造 I onstruction	I			nan and	ructor's ne, job tit departm ffiliation	nent	Disaster Prevention Research Institut Professor,IKEDA YOSHIKI Graduate School of Engineering Professor,KOETAKA YUUJI		
Target year	3rd y	ear students or	above N I	umber o	of cred	its	2	Yea	r/semesters	2021/First semester	
Days and period	is Thu.	2 C	lass s	style	Lecture	e			Language of instruction	Japanese	
frame constru the theory of	iction, t plastici steel fr	the make-up ty, which d ame constru	o of fran etermir uction;	med cons nes collap and expl	struction ose load ains stru	1, an , on	d outlin e of the	e of d main	esign method factors contro	naterial used in steel s; describes in detail slling the functionality ods. Also, appropriate	
[Course ob	jectiv	es]									
knowledge ar [Course sc The 1st-3rd c steel and its	e depar nd B3. 2 hedul lass: St raw ma	tment's le Ability to co e and con eel producti aterials / his	earning ompreh tents] ion and story of	/education aend arch I the prop	onal goa itectura perties o oduction	ls: E l stri f ste	3. Specia acture.	alized rial; / type	knowledge a	nd fundamental erial and their chemical w steel materials for	
The 4th class typical fram of connecting	eworks	and examp	le fram	neworks o	of large	stru	ctures /	types		omponents / overview	
The 5th class mechanical									frames; of framewor	ks	
The 6th class overview of			esign m	nethods							
The 7th-8th c steel materia shearing force	ıl yield	criteria / fu	lly plas	stic mom						luence of axial force or	
	nber pl	astic collaps	se / def	finition o	f plastic	col	lapse an	d coll	apse mechani	sms / principle of	
	nber pl	astic collaps	se / def	finition o	f plastic	col	lapse an			sms / principle	

铁骨構造 (2)	鉄骨構造 I (3)
The 11th class: Theorem of plastic collapse;	Yuji KOETAKA (Taisei Corp., 2 years)
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	(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
< <final examination="">></final>	
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)	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造―その理論と設計―』(Kajima Institute Publishing) ISBN:978-4306033443 [References, etc.]	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造-その理論と設計-』(Kajima Institute Publishing) ISBN:978-4306033443	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造ーその理論と設計―』(Kajima Institute Publishing) ISBN:978-4306033443 [References, etc.] (Reference books)	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造ーその理論と設計―』(Kajima Institute Publishing) ISBN:978-4306033443 [References, etc.] (Reference books) Minoru WAKABAYASHI 『鉄骨の設計』(Kyoritsu Shuppan)ISBN:978-4320076464	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造ーその理論と設計-』(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.	
Kazuo INOUE / Keiichiro SUITA 『建築鋼構造ーその理論と設計-』(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.	
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Kazuo INOUE / Keiichiro SUITA 『建築鋼構造ーその理論と設計ー』(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.	

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Course title (and course title in English)		産 I ction Engineering	g and Manag	gement I	nan and	tructor's ne, job til I departm iffiliation	tle, nent	Professor,KA Graduate Sch	nool of Engineering NETA TAKASHI 1001 of Engineering 2essor,NISHINOSAYAK/
Farget yea	r 2nd y	year students or above	Number	of cred	lits	2	Year	/semesters	2021/First semester
Days and peri	ods Wed	.1 Clas	s style	Lecture	e			Language of instruction	Japanese
[Overview	and pu	urpose of the	course]						
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[Course s	chedul	e and content	ts]						
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建築生産 | (2) Textbook Chapter 6, 6.4 12. Cost management Quantity surgers and Quantity survey and cost estimation. Cost control through design process. Variety of procurement and contract for building projects. Supervision of construction and inspection. Variety of procurement and contract for ounding 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. [Textbooks] huzo FURUSAKA 『KENCHIKU-SEISAN』 (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. _____Continue to 建築生産「(3)↓↓↓

築生産 (3)	未更 Course number U-ENG24 34022 LJ74
Courses delivered by instructors with practical work experience] Category course with practical content delivered by instructors with practical work experience Details of instructors' practical work experience related to the course Details of practical classes delivered based on instructors' practical work experience	Course title (and course title in English) 建築構造力学III Instructor's 加explicition Graduate School of Engineerin Professor, TAKEWAKI IZURU Graduate School of Engineerin Associate Professor, OOSAKI MAKOTO Graduate School of Engineerin Associate Professor, TAKEWAKI IZURU Graduate School of Engineerin Associate Professor, COSAKI MAKOTO Graduate School of Engineerin Associate Professor, KOHEI FI Graduate School of E
Dearis of practical classes activered based on instructors practical work experience	Target year Brd year students or above Number of credits 4 Year/semesters 2021/First semes
	Days and periods Tue.2,Wed.2 Class style Lecture Language distriction Japanese
	[Overview and purpose of the course]
	Slope-deflection method and moment distribution method. Force method and displacement method (stiff method), Matrix method for structural analysis. Principles of virtual work and energy methods. Fundame theory of structural analysis and theory of plastic analysis of frames.
	[Course objectives]
	Study force method, displacement method (stiffness method) and matrix method for structural analysis. I addition study slope-deflection method and theory of plastic analysis of frames.
	[Course schedule and contents]
	Fundamental theory of structural analysis and slope-deflection method, 4 classes, Frame analysis model and governing equation for slope-deflection method.
	Moment distribution method, 1 class, Moment distribution method without nodal lateral displacement.
	Three-dimensional frame, 2 classes, Plane frames with equal horizontal displacements. Shear force distribution formula. Structural design of building frames.
	Displacement method and force method, 9 classes, Member stiffness matrix and system stiffness equation for truss and moment-resisting frame. Treatment mid-span loads.
	Principles of virtual work, 5 classes, Principle of virtual displacement. Unit virtual displacement method and stiffness method. Principle of vi force. Unit virtual force method.
	Principles of energy methods, 3 classes, Stationary and minimum principles of total potential energy and complementary energy.
	Plastic limit analysis and elastic-plastic analysis, 5 classes, Load-deformation curve for an elastic-perfectly plastic beam, plastic hinge, plastic collapse, virtual work
	Continue to 建築構造力学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]

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

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

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Course number	U-ENG24 4	4027 LJ74					
Course title (and course title in English)	画学II ctural Planning	Ш	1	Instructor's name, job ti and departn of affiliation	nent	Graduate Scl Professor,Ml	hool of Engineering IURA KEN
Target year 4th y	ear students or above	Number	of credi	ts 2	Year	/semesters	2021/First semester
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To foster the practic nvironment C. Practical skills C1. The ability to cr	-	gn architec	tural spa	ce based or	the ir	nteractions of	humans with their
[Course schedule and contents] Architectural Planning & Environmental Psychology - 1 class: This class will provide an explanation of the position of environmental psychology and environmental behavior research, after an overview of the social nature, role, and meaning of architectural planning. Students will also learn about the problems that exist in architectural planning by examining examples. People-Environmental Reserach & design 1:4 classes,Deepen understanding of human vision, behavior, dimensions, and posture as the basis of planning People-Environmental Reserach & design 2: 3 classes,After reviewing past research findings on perception, behavior, cognition, memory, and intelligibility, learn basic concepts and knowledge for planning and designing architectural spaces based on the relationship between humans and the environment. Safety, security and universal design- 2classes,Learn about architectural planning and universal design for diverse users from the perspectives of safety and accident prevention and usability Date-based design method-3 classes,Learn practical examples of planning methods based on data, such as ergonomics, statistics, and ergonomics. Final Examination:Evaluate learning achievement. Follow up- 1class							
						Continue to	

建築計画学II(2)

[Course requirements] Jone

[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.

建築生産田 Construction Engineering and Management III and department of affiliation Year Sid year students or above Number of credits 2 Year/semesters 2021/Second semester d periods Tue.1 Class style Lecture 加速機構的 Japanese view and purpose of the course] grad management method in building construction project will be explained. Construction ement and construction technology, integrated with information and communication technology, will explained with the latest project reports. se objectives] uire the basic knowledge on supervision and construction management. Se schedule and contents] duction uction process based on drawings and specifications. bok Chapter 7 mining and management. Considering schedule, quality, cost, safety, environment. bok Chapter 7 mining and management. Se Chapter 7 mining and management on and reporting system, procurement system, Value engineering. bok Chapter 7 mining and management. Se tranagement and ICT ng Information Modeling and other applications. bok Chapter 10, 10.5-10.6 ert management and ICT ng Information Modeling and other applications. bok Chapter 10, 10.7-10.8 Construction Control uction planning and control.	purse tile ie in ngeityish w 操生痘田 Construction Engineering and Management II and course of affiliation rget year ind year students or abov Number of credits 2 Year/semesters 2 Year/semesters 2 Year/semesters 2 2 Year/semesters 2 2 Year/semesters 2 2 2 2 2 2 2 2 2 2 2 2 2	ourse numbe	r U-ENG	G24 34	028 LJ74					
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name, job title

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zo FURUSAKA 『KENCHIKU-SEISAN』(Riko Tosho)ISBN:978-4-8446-0863-9
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textbook before and after the lecture

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ls of instructors' practical work experience related to the course

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建築論(2)

未更新

Graduate School of Engineering

Japanes

2021/First semester

Professor, TAJI TAKAHIRO

Year/semesters

anguage of instructi

scourse 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, (Taii)

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 "principl 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

(5) Light: This lecture will introduce the observations of gestalt psychology concerning the phenomenon and spatial nature of light and consider its symbolism. (6) Nature: This lecture will explain how nature has been

imitated and interpreted as a basis for architecture. (Taji) Student Assessment - 1 class: An assessment of whether a basic knowledge and understanding of architectural theory has been obtained.

[Course requirements] Jone

[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)]

ead the material introduced in the cla

(Other information (office hours, etc.)) Office hour: before and after lecture

Please visit KULASIS to find out about office hours.

initiated and interpreted as a basis for architecture. (Tajii) Student Assessment - 1 class: An assessment of whether a basic knowledge and understanding of architectural theory has been obtained. [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 Continue to 建築論(2)↓↓↓

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

Course number U-ENG24 34029 LJ74

Theory of Architecture

[Overview and purpose of the course]

Brd year students or above Number of credits 2

Lecture

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, architectis 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)

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

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

Class style

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Target year

Days and periods Wed.3

[Course objectives]

(Takeyama)

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建築論(3)	Course number U-ENG24 34030 LJ74
	Course title
Courses delivered by instructors with practical work experience]) Category	(and course 都市 · 地域論 name, job title, Graduate School of Engineering
course with practical content delivered by instructors with practical work experience	title in English) Theory of Living Space in the Region and department of affiliation Professor,KANKI KIYOKO
Details of instructors' practical work experience related to the course	Target year Students or above Number of credits 2 Year/semesters 2021/Second semester
etails of practical classes delivered based on instructors' practical work experience	Days and periods Mon.2 Class style Lecture Language distution Japanese
	[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 globa 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 theo and systems.
	[Course objectives]
	B.Basic and Professional Knowledges, B2.Architectural Design and Living space Design with Planningoriented view, C.Practical Skills, C2. Ability to understand Social aspects of Architecture and Planning, E.Global View for Planning, E2. Ability to understand global and local culture
	[Course schedule and contents]
	 (1) Building Control and Development Control, From one site till the region(3 classes) the single site and facing street (historic area and narrow streets) Simulation of the transition of the area Zoning systems, roles, advantages, disadvantages Land Use Planning - urban land use, rural land use, natural land use (2) Micro scale planning and design, community identity and district plan (2 classes) district plan, community agreements regulation and a scivities district plan system in Japan and in Germany Community action, participation, history of participatory planning and design, Machidukuri (3) Landscape and Town scape (2 classes) History of the debates and community actions related Landscape disfigurement Conservation and Creativity Landscape planning zone, Conservation area design, Heritage area, Natural and Cultural Landscape (4) Open space design (2 classes) Urban development and open space design, Ecological design Parks and Open spaces, Children's participation, Play park, Maintenance and participation (5) Space for traffic (1 class) Urban Planning Road Designation (Japan), Public transport design and city center development, Pedestria Zone in the cities (Japan, Germany) (6) Development Project Design, Urban Regeneration (2 classes) Land readjustment, History of (rural and urban) land readjustment
市·地域論(2)	
- ^ しいべんの間 (と)	Course number U-ENG24 34032 LJ74
velopment Project regulations, incentive planning, ban sprawl, Mini-Development(Japan), Gated community development Master Plan, Regional Plan (1 class) ban planning district master plan, Urban Planning master plan	
omprehensive plan for the local government rban Shrink design, Change of the urban policy, population flame,	Target year Brd year students or above Number of credits 2 Year/semesters 2021/First semester
History of Modern urban planning (1 class) story of Urban theory	Days and periods Mon.1 Class style Lecture Language distuitor Japanese
istory of Planning Home work feed back (1 class)	[Overview and purpose of the course]
purse requirements]	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).
valuation methods and policy]	
home works (40%) and Examination(at the official examination term)(60%). The assignments for 2 home works will be shown during the lectures.	[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
extbooks] e prints will be distributed in each time.	objectives listed by the department: C: Practical Skills C1: The ability to create buildings.
pdf files same with the prints will be uploaded on PandA.	[Course schedule and contents] Measurement and Evaluation of Sound and Acoustic Material - 3 classes: These lectures will evaluin basic

[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.

pace and color difference, color temperature, and color rendering index. tudent Assessment - 1 class: Assessment of students' understanding and application of course material. Continue to 建築光 · 音環境学(2) ↓ ↓ ↓

natters relating to the measurement of the physical properties of sound, as well as explaining various acoustic neasures 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. Lectures will cover xy chromaticity diagrams, calculating additive color mixtures, uniform color

	未更新
建築光・音環境学(2)	Course number U-ENG24 34034 LJ74
[Course requirements]	Course title (and course 建築構造解析 name, job title,
Students must have taken Architectural Environmental Engineering II. [Evaluation methods and policy]	title in Analytical Methods of Building Structures and department of affiliation of affiliation Professor, TAKEWAKI IZURU Disaster Prevention Research Institut Professor, MARUYAMA TAKASI
Evaluation will be based on final examination scores.	
	Target year Brd year students or above Number of credits 2 Year/semesters 2021/Second semester
[Textbooks]	Days and periods Wed.2 Class style Lecture Laquage distructor Japanese
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	[Overview and purpose of the course]
	An elementary outline will be given including the finite element method used for building structural design, as well as various structural analysis methods, dynamic properties of the building frame and its constituent
[References, etc.]	elements, mechanical properties of planar boards, and the design method.
(Reference books)	
Introduced during class	[Course objectives]
	Learning the basics and applications of structural analysis methods, the basic theory of dynamics, and the
[Study outside of class (preparation and review)]	basic theory of the parallel plate. The educational goal is to acquire expert and basic knowledge. Among the learning and educational goals listed in the department, the goal is to have C. practical ability and C1. the
Students are required to prepare by reading textbook sections prior to each lecture.	ability to realize buildings.
Additionally, students shall deepen their understanding by reviewing material covered after each lecture and	
ask their instructors about any points that are unclear	[Course schedule and contents]
(Other information (affine house at))	Structural design and structure analysis method (6 times): Lectures will be given on the fundamental and
(Other information (office hours, etc.))	applied structural analysis method utilized in building structure design. First, the characteristics of various structural analysis methods will be introduced, including the finite element method used for building
Office hours (taking questions): Questions will be taken as appropriate. Students are to make an appointment with the relevant teacher.	structural analysis methods will be introduced, including the limite element method used for building structural design by using actual building design examples. Next, the finite element method will be explaine
	as well as its basic theory and application, and the analysis accuracy and the application method in actual
*Please visit KULASIS to find out about office hours.	building structure design will be explained. In addition, the construction and application of a dynamic model
	necessary for actual structural design will be outlined. Building vibration analysis (4 times): The fundamentals of vibration theory necessary for the vibration
	analysis of buildings will be explained. Next, regarding the forced vibration of buildings when external force
	act upon them, the case of sinusoidal external force will be covered as an example. In addition, the nature of
	the irregular wave external force as an example of earthquake vibration, wind pressure, and so forth will be
	explained as external forces that are actually applied to buildings. After that, the handling of forced vibration
	when an irregular wave external force is applied will be explained. In addition, vibrations of continuous joist will also be explained.
	Theory of flat plate structure (4 times): Dynamic theory, analysis method, and the design method of parallel
	plate structural elements, such as walls and floors, will be explained. The linear governing equation of
	parallel plates subjected to in-plane deformation under the assumption of plane stress will be introduced, as
	well as the solution using the Fourier series. Next, the governing equations of parallel plates subjected to the out-of-plane bending deformation based on the assumption of normal line preservation will be derived, and
	several examples of solution methods will be outlined. In addition, the basic idea of parallel plate element
	design and usage in actual buildings will be explained.
	Final Exam. (1 time): A feedback class, including posting example model answers on KULASIS, will be conducted.
	Continue to 建築構造解析(2) ↓ ↓
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建筑株法のため	不足利

建染体运附价(2)	Course number U-ENG24 34035 LJ74
[Course requirements]	Course title (and course) 建築基礎構造 hame, job title, baster Prevention Research Institut Professor,MATSUSHIMA SHINICH Disaster Prevention Research Institut Disaster Prevention Research Institut
Building structural mechanics I, II, and III	(and course 建築基礎構造 name, job title, Disaster Prevention Research Institut title in Building Foundation Engineering and department of affiliation Professory, Yuki Sakai English) Graduate School of Engineering of affiliation Graduate School of Engineering
[Evaluation methods and policy]	Associate Professor,KOHEI FUJITA
The evaluation will be done by the final exams, and the achievement level of the course will be confirmed.	Target year Ath year students or above Number of credits 2 Year/semesters 2021/First semester
[Textbooks]	Days and periods Mon.2 Class style Lecture Language distinction Japanese
Not used Not used	[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
[References, etc.]	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
(Reference books)	behavior of the ground. Therefore, this course will first describe the fundamental dynamic characteristics of
Introduced during class	soil and ground. Then, the behavioral characteristics, the mechanisms and methods of evaluation when a load
To be introduced during the class	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.
[Study outside of class (preparation and review)]	
To be indicated during the lecture	[Course objectives]
	Learn basic knowledge of soil and ground, understand basic theory of the load applied to ground and
(Other information (office hours, etc.))	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.
[Office hours] (reception of questions, etc.) It will be indicated during the lectures.	Among the learning and education objectives listed by the department: B. Expertise and Basic Knowledge,
*Please visit KULASIS to find out about office hours.	B3. Ability to understand the structural aspects of architecture.
[Courses delivered by instructors with practical work experience]	[Course schedule and contents]
(1) Category	Outline of Architectural Foundation Structures, 1 time, This lecture will outline the overall position relating
A course with practical content delivered by instructors with practical work experience	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
(2) Details of instructors' practical work experience related to the course	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.
(3) Details of practical classes delivered based on instructors' practical work experience	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 by presenting examples 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 evaluatiing the
	mechanical behavior of the ground from ground survey and explain the process of designing the foundation structure based on the evaluation results.
	Continue to 建築基礎構造(2) ↓↓↓

築基礎構造(2)	Course number U-ENG24 34036 LJ74
udent Assessment, 1 time, Assessment of the how much students have achieved the learning objectives.	Course title (and course title in Course title (and course title in Instructor's name, job title, and department Graduate School of Engineering Professor,HAYASHIYASUHIRC Graduate School of Engineering
Course requirements]	English) of affiliation Associate Professor, S U G I N O M I N
one	
Evaluation methods and policy]	Target year Brd year students or above Number of credits 2 Year/semesters 2021/Second semes
ased on the final examination	
ased on the final examination	Days and periods Wed.3 Class style Lecture Languaged instructor Japanese
[extbooks]	[Overview and purpose of the course]
References, etc.] (Reference books)	Seismic design of structures requires an accurate understanding of the dynamic behavior of structures durin 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, a 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 t earthquake-proof design methods.
umio Kuwahara 『Geotechnical Engineering』 (Morikita Publishing) ISBN:978-4627505117	
oji Tominaga Building Foundation Strucures (Ohmsha) ISBN:978-4274214486	[Course objectives]
	Learn about basic theories of vibrational analysis of seismic motion in architectural structures, as well as
Study outside of class (preparation and review)]	foundational concepts of earthquake-proof design. In terms of the department' s learning/educational goals
ecommended to prestudy the terminology and review calculation problems.	B. Specialized knowledge and fundamental knowledge and B3. Ability to comprehend architectural structural
	[Course schedule and contents]
(Other information (office hours, etc.))	History of earthquake-proof structures, 1 class: We will explain the characteristics of the seismic movemen
Please visit KULASIS to find out about office hours.	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.
Courses delivered by instructors with practical work experience]	Linear response in single degree of freedom systems, 6 classes: After explaining the meaning of modeling a
) Category	building in a single degree of freedom systems, o trasecs. 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
course with practical content delivered by instructors with practical work experience	freedom systems and the vibration phenomena indicated by their general and special solutions. Based on
) Details of instructors' practical work experience related to the course	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 discus the ways in which a building's natural period, damping ratio, and input seismic motion characteristics
) Details of practical classes delivered based on instructors' practical work experience	influence response.
Johans of pravilent endses derivered dased on instructions - pravilent work experience	Non-linear response in single degree of freedom systems, 2 classes: We will discuss single degree of freedor system response with random interference. First, after demonstrating single degree of freedom system response with random interference, we will explain the influence of the non-linear 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, 2 classes: After explaining the composition methods of equations of motion in multiple degree of freedom systems, we will discuss eigenvalue analysis and modal Continue to 耐震構造(2)↓↓↓

Building response and earthquake-proof design, 3 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 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.

Confirmation of learning attainment, 1 lecture: In addition to summarizing the classes, the degree of learning attainment will be confirmed.

[Course requirements]
None
[Evaluation methods and policy]
Evaluation is performed by the final examination.
[Textbooks]
Not used
Additional teaching materials: in-class printouts, PowerPoint documents,
[References, etc.]
(Reference books)
[Study outside of class (preparation and review)]
Review contents of previous classes and quizzes before taking every class.
(Other information (office hours, etc.))
[Grading] Based on final examination. Attendance and so on are also taken into account.
[Office hours] (Open for questions, etc.) After end of 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
Continue to 耐震構造(3)↓↓↓

one

Course number U-ENG24 34037 LJ74	鉄筋コンクリート構造II(2)
Course title (and course) title in Reinforced Concrete Structures II and department Reinforced Concrete Structures II and department Graduate School of Engineering	[Study outside of class (preparation and review)]
English) of affiliation Associate Professor, TANI MASANORI	
arget year brd year students or above Number of credits 2 Year/semesters 2021/Second semester	(Other information (office hours, etc.)) *Please visit KULASIS to find out about office hours.
ays and periods Mon.3 Class style Lecture Language distructor Japanese	
Overview and purpose of the course]	[Courses delivered by instructors with practical work experience]
	 Category A course with practical content delivered by instructors with practical work experience
Course objectives]	(2) Details of instructors' practical work experience related to the course
	(3) Details of practical classes delivered based on instructors' practical work experience
Course schedule and contents] 2times,	(3) Details of practical classes derivered based on historicity practical work experience
ttimes, itimes,	
Ptimes, time,	
Course requirements]	
lone	
Evaluation methods and policy]	
Textbooks]	
[References, etc.] (Reference books)	
Course number U-ENG24 34038 LJ74	鉄骨構造II(2)
Course itile Instructor's Graduate School of Engineering Professor, KOETAA YUUJI and department Steel Construction II and department Disaster Prevention Research Institute	Compression members / flexural members / components under bending moments and axial force
English) of affiliation Associate Professor, KURATA MASAHIRO	The 12th-14th class: Connection design; Full penetration welding / fillet welding / friction connections by high-strength bolts / tensile connections by high-strength bolts
arget year Brd year students or above Number of credits 2 Year/semesters 2021/Second semester	<< Final examination>> The 15th along Conference of Longian efficiency to
lays and periods Thu.2 Class style Lecture Language distuded Japanese Overview and purpose of the course]	The 15th class: Confirmation of learning attainment; confirmation of learning attainment
his course focuses on buckling of components/frames and connections of components, factors that control	[Course requirements]
ae functionality and safety of steel frame structures, explaining in detail their theoretical background and iscussing applications to structural design. Also, students are assigned suitable exercises to teach them ractical structural design techniques.	Would be preferable to have completed Steel Construction I, Mechanics of Building Structures I-III, and Advanced Calculus I & II.
Course objectives]	[Evaluation methods and policy]
Understand the theory of buckling of steel frame structure components and frames, and learn how to design hem. Also, understand the connections by high strength bolts and welds, and learn connection design	The score of final examination (80%), the scores of exercises assigned in the classes (20%)
echniques. nerms of the department's learning/educational goals, C. practical skills and C3. Ability to construct ctual buildings.	[Textbooks] Kazuo INOUE / Keiichiro SUITA 『建築鋼構造-その理論と設計-』(Kajima Institute Publishing) ISBN:978-4306033443
[Course schedule and contents]	
The 1st-2nd class: Column elastic buckling;	[References, etc.]

Central compression column Euler buckling theory / changes in buckling load due to boundary conditions / behavior of columns with initial deflection or eccentricity / buckling load analysis using virtual work equations

The 3rd class: Column inelastic buckling; Inelastic buckling according to tangent modulus theory and reduced modulus theory / the influence of residual stress upon buckling load

The 4th-5th class: Buckling slope deflection and buckling of frameworks; The tury of class, blocking slope deflection and outking of name works, Basic theory of buckling slope deflection / buckling of frames with restricted horizontal displacement / buckling of frames with unrestricted horizontal displacement / restraint effects against buckling

The 6th class: Buckling of beams; Pure torsion of components / warping of components / theory of lateral buckling of beams

The 7th class: Buckling of plates; Theory of buckling of plates / buckling loads of simply-supported plates

The 8th class: Design overview of components and connections and demanded capacities; Overview of seismic design procedures / demanded capacities of components and connections

The 9th-11th class: Component design; Continue to 鉄骨構造II(2)↓↓↓

(Reference books) (Kenerence 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	設計演習叫(2)
Course number U-ENG24 34039 SJ74		iΩi /皮白Ⅲ(2)
Course title (and course 設計演習III) title in Atelier Practice of Architectural Design III english) and departmen of affiliation		[Study outside of class (preparation and review)]
	Associate Professor, YOSHIDA TETSU	(Other information (office hours, etc.))
	Part-time Lecturer, ONISHI MAKI Graduate School of Engineering Assistant Professor, IWASE RYOKO	*Please visit KULASIS to find out about office hours.
Target year Brd year students or above Number of credits 3	/ear/semesters 2021/First semester	[Courses delivered by instructors with practical work experience]
Days and periods Mon.4,5,Fri.4,5 Class style Seminar	Language of instruction Japanese	(1) Category A course with practical content delivered by instructors with practical work experience
[Overview and purpose of the course]		(2) Details of instructors' practical work experience related to the course
[Course objectives]		(3) Details of practical classes delivered based on instructors' practical work experience
[Course schedule and contents] .14times, .14times, .2times, .2times,		
[Course requirements]		
None		
[Evaluation methods and policy]		
[Textbooks]		
[References, etc.] (Reference books)		
	Continue to 設計演習Ⅲ(2)↓↓↓	

										未更新
Course nu	umber	U-ENC	324 3	4040 SJ74						
Course title (and course title in English)			Arch	itectural De	sign IV	nan and	ructor's ne, job tit departm ffiliation		Professor,HII Graduate Sch Professor,MI Part-time Lectu Part-time Lectu Graduate Sch	nool of Engineering RATA AKIHISA nool of Engineering IURA KEN urer,YAMAMOTO ASAKO urer,FUJIMOTO SOSUKE nool of Engineering fessor,IWASE RYOKO
Target yea	r Brd y	ear students o	r above	Number	of cred	its	3	Year	/semesters	2021/Second semester
Days and perio	odsTue.3,	4,5,Wed.4,5	Clas	s style	Semina	ır			Language of instruction	Japanese
[Overview	and p	urpose o	f the	course]						
architectural [Course of Students lear [Course set	bjectiv rn archit	es] tectural abi	ilities	to answer 1						
and collectiv space, semi- lifestyle, and [Teachers:] Cultural C Public place backgrounds design skills	re reside public s I the ski Miura, Y Complex s in moc s, and or for a cu ively pla tal teach	ence. The c pace, priva Ils to comp amamoto dern societ ientations. iltural facil un the struc ers,14 time	y nee In the lity w cture, es]	provides in ace, and int nsively plan tructural and d to be able e second ha ith a compl environmen	to acce lf of the struction the structure to acce lf of the ex prognat, and c	on of on of actua onmo pt the des ram lesig	f design f ancillai f ancillai re, envir ental tea ne divers sign exer such as gn. [Tead	skills ry faci onmer chers, se valu rcise, t a gall	to propose the lities to suppo nt, and design 14times] ues of people of the course pro- ery, library, an	
								,	Continue to	- 設計演習IV(2)↓↓↓

設計演習IV(2) [Course requirements] _ _ _ _ one [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 (3) Details of practical classes delivered based on instructors' practical work experience

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Target year	r 2nd y	ear students	or above N	lumber	of cred	its 2	Т	Year	/semesters	2021/First sem	nester
Days and perio	ds Wed.	5	Class	style	Lecture	e			Language of instruction	Japanese	
[Overview	and pu	irpose d	of the c	ourse]	1						
and outline th	he mean vill desc	ing of sig ribe issue	gns, sym es relatec	bols, and l to lands	space as	s conce	pts in	envii	ronmental des	indscapes, and g sign methodolog eas and concrete	gies.
[Course of	-		4.4	P - 1	1 .1 1			T	2 10	· ** • • •	Da
Of the learnin The ability to										sic Knowledge,	ы2.
each era, taki of habitation architecture, Technology a architecture, Interpretation architectural These lecture explain the st while explori- architectural examples). (1 composition English archi (symbolism v architecture t	ing them that sho villages and arch villages n of Env environ es will o tructure ing vario and gard 1) Built of lands itecture with stor to urban	as formi- buld exist , and tow- itecture/t , towns, a ironment ments an- utline the and mean ous theori- den lands environm cape, (3) and lands en), (6) Ja landscap	ing lands t in the fit vns, (3) U towns, (6 and form t and Cou d interpr e landsca ning of L ies relati scape con- nents anc) English scape gas apanese - be.	scapes ald iture. (1) Jrban the 6) Commiss of habi imposition retation of andscape ng to the imposition d landscap architect rdens - 2 architect	ong with Establis ories and unication tation. n of Lan f landsc: we creat s based n method pes creat ure and (sensed ure and g	a archite hment of d progra- n and for dscape ape (Ta e and ir on hum compos ds in ter ted by a landsca landsca gardens	ecture, of the ams, (orms of (Taji) ji) habit ition of ms of urchite upe ga upe), (- 2 (s	, and huma (4) An of hab - 7 c arou: istence of lan 5 theo eccture rdens 5) Jap ymbo	consider the an sphere, (2) ncient urban l bitation, (7) T lasses: The cc and architectur ce in terms of dscape. They rise of design. They rise of design c, (2) Theories - 1 (landscap panese archit bilism with wa nding of land	e spacial conce architecture and The occurrence andscapes, (5) he future of omposition of al structures an architectural th will also consis (and using spec on the meaning, e with meaning, cture and garde ter), (7) From scape design has 最親デザイン論(d e of deory, der cific g and), (4) s been s been
]
		11 100		10 L 17 -							更新
Course nu	mber	U-EN	G24 440)42 LJ74							
Course title (and course title in English)		告 esistant S	Structure	s		Instruc name, j and de of affili	job title partme		Professor,M. Disaster Prev	ention Research ARUYAMA TA ention Research sor,NISHIJIMA KA	AKASHI Institute
Target year	th y	ear students	or above N	lumber	of cred	its 2		Year	/semesters	2021/First sem	nester
Days and perio	ds Tue.2	2	Class	style	Lecture	e			Language of instruction	Japanese	Γ
[Overview											
This course v	will prov	ide an ov	verview	of variou	s meteor	rologica	al phe	nome	na causing th	e wind genesis	to

nderstand the wind force on building structures, and discuss the relation between flow around building and wind pressure. We explain the evaluation method of design wind load to secure the building safety against wind and the wind resistant design method based on the Building Standards Act, Building Standard Law Enforcement Order and AJJ Recommendations for Loads on Buildings.

[Course objectives]

Acquisition of expert and basic knowledge on wind resistant design. Understanding the estimation of wind load and the construction from the stand point of wind resistant design.

[Course schedule and contents]

Mechanism of wind genesis, 4 classes Mechanism of Wind genesis, 4 classes: These classes will provide an overview of the atmospheric circulation caused by the motion of the earth and the heat budget, the mechanism of wind genesis caused by low pressure system, front and topography, etc. We will explain the characteristics of strong wind which is important for wind resistant design of building and structure with the description of its origin such as typhoon or tornado.

Basic of wind force and pressure, 4 classes:

These classes will derive the governing equations of wind flow and explain the meaning of its physics. We also obtain equations for simple flows and show equations to evaluate the wind pressure on the surface of objects.

Wind load, 3 classes:

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

Wind resistant design, 3 classes:

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

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

Continue to 耐風構造(2)↓↓↓

景観デザイン論(2)

[Course requirements]

[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]

ア安増生『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 学一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)

竹山璽『独身者の住まい』(廣済堂出版)ISBN:4331509109 竹山璽『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 cla

(Other information (office hours, etc.))

Office hour: before and after 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

(3) Details of practical classes delivered based on instructors' practical work experience

耐風構造(2)

[Course requirements]

Architectural Structural engineering, fluid dynamics, meteorology will be useful

[Evaluation methods and policy]

By reports or examination

[Textbooks]

No textbook, using notebook

[References, etc.] (Reference books)

To be introduced during the class

(Related URLs) (None)

[Study outside of class (preparation and review)] To be indicated during the lectur

(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.

Course muscless	U-ENG24	24042 I 174					
Course number Course title (and course title in English) Lugger			n	Instructor's name, job tit and departm of affiliation	ent	Part-time Lectu	r, YAMAMOTO KAZUHIRC rer, TAKAGI KATSUHIDE er, FUMIYAMA TATSUAK
Target year 2nd y	vear students or abov	Number	of credi	its 2	Year	/semesters	2021/First semester
Days and periods Wed	.4 Clas	s style	Lecture	;		Language of instruction	Japanese
an examination of th [Course objective Corresponding learn of construction active	es] ing and educat	-		*		•	lerstand the social role
U nderstanding of th in urban managemer U nderstanding the r	e interaction of at. oles, systems a	nd outlines				-	ure and urban planning ed laws.
[Course schedule General Outline - 1 o organizations of Kyo and a view of require related issues in the	class: This clas to City govern ed architectural	s will provi ment, main personnel),	policies	of construc			
the various systems i development project	ninistration - 3 related to urbar s, development	classes: The planning (l	ion, and ese classe and use	managemen es will prov regulations,	nt of b ide a l distri	uildings in Ky nistorical and s ct planning, u	ninistrative organs and yoto City. systematic outline of rban facilities, urban
the various systems i development project Administration and o Landscape Administ	ninistration - 3 related to urbar s, development current issues. ration - 2 class undscape preser	classes: The planning (l permission es: These cl vation and	ion, and ese classe and use , etc.), as asses wil formation	management es will prov regulations, s well as the ll provide a n under the	nt of b ide a l distri role j histor Lands	uildings in Ky nistorical and ct planning, u played by the ical and system scape Act and	ninistrative organs and yoto City. systematic outline of rban facilities, urban Urban Planning matic outline of the Ordinances based on
the various systems i development project Administration and o Landscape Administ various systems of la the case of Kyoto Ci	ninistration - 3 related to urbar s, development current issues. ration - 2 class undscape prese ty, as well as the istration - 2 class e and the current	classes: The planning (l permission es: These cl vation and he role playe usses: These tt issues it fa	ion, and ese classe land use , etc.), as asses wil formation ed by the classes vaces, as v	managemen es will prov regulations, s well as the Il provide a n under the I Landscape will provide well as the r	nt of b ide a l distri role j histor Lands Admi e a hist ole pl	uildings in Ky nistorical and a ct planning, u played by the ical and system ical and system inistration and torical outline	ninistrative organs and yoto City. systematic outline of rban facilities, urban Urban Planning matic outline of the Ordinances based on current issues. of the Architectural
the various systems of development project Administration and of Landscape Administ various systems of la the case of Kyoto Ci Architectural Admin Administration's rolo Administration and of Architectural Law	ninistration - 3 related to urbar s, development surrent issues. ration - 2 class undscape preses ty, as well as the istration - 2 class e and the current surrent issues b 4 classes: Thes Act and related	classes: The planning (l permission es: These el vation and he role playousses: These tt issues it fa ased on the e classes wi laws and re	ion, and ese classe land use : , etc.), as asses wil formation ed by the classes y acces, as y case of F Il provid gulations	managemenes s will provide as n under the Landscape will provide well as the vell as the r Xyoto City. e an outline s, and their	nt of b ide a l distri role p histor Lands Admi a hist ole pla	uildings in Ky nistorical and et planning, u played by the ical and syste scape Act and nistration and torical outline ayed by the A e fundamental ion in practice	ninistrative organs and yoto City. systematic outline of rban facilities, urban Urban Planning matic outline of the Ordinances based on current issues. of the Architectural rchitectural

(and course) 設計演習 V and department in Horses of Architectural Design V and department Professor,KOBAYASHI HIROHIDE	Course nun	nber	U-ENC	324 44	4044 SJ74		_				未更新
Jays and periods Tue:3,4,5,Wed.S Class style Seminar Jayaput listholin Japanese [Overview and purpose of the course]			-	? Arch	itectural De	zsign V	nan and	ne, job til I departm	nent	Professor, HII Graduate Sch Professor, RA Graduate Sch Professor, RA Graduate Sch Professor, TO Graduate Sch Professor, DA Graduate Sch Professor, DA Graduate Sch Professor, DA Graduate Sch Professor, DA Graduate Sch Professor, GA Sociate Profe Graduate Sch Associate Profe Graduate Sch	RATA AKIHISA iool of Engineering NETA TAKASHI iool of Engineering MISHIMA YOSHIAKI iool of Engineering MISHIMA YOSHIAKI iool of Engineering URA KEN iool of Engineering NIELL, Thomas Charles iool of Engineering JI TAKAHRO of Global Environmental Studies BAYASHI HIROHIDE ention Research Institute KI NORIO iool of Engineering fessor, YOSHIDA TETSU iool of Engineering fessor, IWASE RYOKO iool of Engineering
[Overview and purpose of the course]	arget year	4th ye	ear students of	r above	Number o	of cred	its	3	Year	/semesters	2021/First semester
· · · · · ·	• •				-	Semina	ar			Language of instruction	Japanese
[Course objectives]	[Overview a	and pu	irpose of	the	coursej						
	[Course obj	jective	s]								

建築・都市行政(2)

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

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

[Course requirements]

[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]

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.

設計演習V(2)

[Course schedule and contents]

29times, 1time,

one

[Course requirements]

[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

Course number	U-ENG24 44045 SJ74			未更新	構造設計演習(2)
purse title nd course 構造語 le in Exerc	5計演習 sie on Structural Design	Instructor's name, job title, and department of affiliation	Graduate School of H Professor,NISHIYAN Graduate School of H Professor,KOETAKA Graduate School of H Associate Professor,TA	AA MINEHIRO Engineering A YUUJI Engineering	[References, etc.] (Reference books)
nglish)			Part-time Lecturer,NISH Graduate School of F Assistant Professor,SA	Ingineering	[Study outside of class (preparation and review)]
rget year 4t	a year students or above Number	of credits 2 Ye	ar/semesters 2021/F	irst semester	(Other information (office hours, etc.))
ys and periods Fri	-	Seminar	Language of instruction Japanes	ie	*Please visit KULASIS to find out about office hours.
Overview and	ourpose of the course]				
					[Courses delivered by instructors with practical work experience]
Course objecti	ves]				 Category A course with practical content delivered by instructors with practical work experience
					(2) Details of instructors' practical work experience related to the course
imes,	ile and contents]				(3) Details of practical classes delivered based on instructors' practical work experience
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Course require	montel				
one	mentoj				
valuation met	hods and policy]				
extbooks]					
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			Continue to 俩迫改a	/────────────────────────────────────	
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Course number U-ENG24 44046 EJ74 Gourse title (and course and course (and course) (and course) (and course) (and course) (and course) (and course) (and course) (bitle, and department) (assicate Professor, TAKI ASANON Graduate School of Engineering Assicate Professor, TAKI MASANON Graduate School of Engineering Assicate Professor, TAKI ASUKAK ACHE Experiment Farget year th year students or above Mumber of credits 2 Year/Semesters 2021/First semester Days and periods Mon.3.4 Class style Experiment appartituted Jamps, 2 [Course objectives]								未更新
Course title (and course title in English) Instructor's mame, job title, and department, ittle in English) Instructor's raduate School of Engineering Associate Professor, TANI MASANOR, and department, of affiliation Target year th year students or above Mumber of credits 2 Year/semesters 2021/First semester Days and periods Mon.3,4 Class style Experiment Imput distudts Japanese [Course objectives] [Course schedule and contents]	Course numbe	er U-EN	G24 44046 EJ74					
Class style Experiment Langen distribution Japanese Days and periods Mon.3,4 Class style Experiment Langen distribution Japanese [Overview and purpose of the course] [Course objectives] [Course schedule and contents]	(and course 構造 title in Labo			Members	name, job til and departm	nent	Professor,NI Graduate Scl Professor,KC Graduate Scl Associate Profes Graduate Scl Associate Profes Graduate Scl Assistant Pro Graduate Scl	SHIYAMĂ MINEHIRC hool of Engineering DETAKA YUUJI hool of Engineering fessor, TANI MASANOR hool of Engineering sor, SUG INO MINA hool of Engineering fessor, SATOU YUUCH hool of Engineering
[Overview and purpose of the course] [Course objectives] [Course schedule and contents] 3times, 1time, 3times, 2times, 3times, 3times, 3times, 3times, 3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	arget year	4th year students	or above Number of	of cred	its 2	Year	/semesters	2021/First semester
[Course objectives] [Course schedule and contents] 3times, 1time, 3times, 2times, 3times, 3times, 3times, 3times, 3times, 3times, 3times, 3times, 1time, 3times, 2times, 3times, 3times, 1time, 3times, 2times, 3times, 1time, 3times, 1time, 3times, 1time, 3times, 1time, 3times, 1time, 3times, 1time, 3times, 1time, 1time, 3times, 1time, 1time, 3times, 1time, 1time, 3times, 1time,	Days and periods N	Aon.3,4	Class style	Experi	ment		Language of instruction	Japanese
[Course schedule and contents] 3times, 1time, 3times, 2times, 3times, 3times, 3times, 3times, 3times, 3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	Overview and	d purpose o	of the course]					
[Course schedule and contents] 3times, 1time, 3times, 2times, 3times, 3times, 3times, 3times, 3times, 3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)								
[Course schedule and contents] 3times, 1time, 3times, 2times, 3times, 3times, 3times, 3times, 3times, 3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)								
Jimes, ICourse requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	[Course object	ctives]						
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Jimes, ICourse requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	Course sche	dule and co	ontents		_			
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3times, 3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	- /							
3times, [Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)								
[Course requirements] None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)								
None [Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	Junes,							
[Evaluation methods and policy] [Textbooks] [References, etc.] (Reference books)	[Course requi	rements]						
[Textbooks] [References, etc.] (Reference books)	None							
[Textbooks] [References, etc.] (Reference books)	[Evaluation m	ethods and	l policy]		_			
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	[References,	etc.]						
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構造・材料実験(2)
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[
[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
(5) Details of practical classes derivered based on instructors practical work experience

Course nun	nber U-ENG	G24 4404	7 LJ74						建築安全設計(2)
	書築安全設計 'ire Safety Desig	n of Build	dings	Instructo name, jo and depa of affiliat	r's b title, artment ion	Professor,H. Disaster Prev Associate Prof Graduate Sc	hool of Engineering ARADA KAZUNO vention Research Ins fessor,NISHINO TOM hool of Engineering ofessor,NII DAISA	RI stitute OAKI	[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 LJ7 desirable.
Target year	4th year students o	or above Nu	umber of o	credits 2	Year	semesters	2021/First semest	er	[Evaluation methods and policy]
Days and period	s Fri.2	Class st	tyle Le	ecture		Language of instruction	Japanese		Score is evaluated based on end-term examination and other materials.
[Overview a	and purpose o	of the co	urse]						
	, basic knowledg						nd built-environmen ain fire safe buildin		[Textbooks] Harada Kazunori 『Kenchiku Kasaino Mekanizmuto Kasaianzen Sekkei (Mechanizm of Building Fires Safety Design)』 (The Building Center of Japan) ISBN:9784889101461
		antal phys	io chamics	Inhanomana	of fire a	meral princi	ples of fire safety		[References, etc.]
B4:understand	ability to solve p ling environmen realize actual bui	ntal aspect	of archited	ture					
[Course sch	hedule and co	ontents]							[Study outside of class (preparation and review)] It is recommended to review the lectured contents using handouts and/or quiz distributed at the class.
- Introduction (The history of	1 week)	-	s is introdu	ced. Followin	g the histo	ory, framewo	ork of fire safety de:	sign	It is recommended to review the lectured contents using handouts and/or quiz distributed at the class. (Other information (office hours, etc.))
Introduction (The history of is presented. Physics and cl	1 week) f fire disasters in hemistry of fire (buildings			0		2		It is recommended to review the lectured contents using handouts and/or quiz distributed at the class.
Introduction (The history of is presented. Physics and cl Basic knowled	1 week) f fire disasters in hemistry of fire (dge of fire pheno	buildings (6 weeks)			0		ork of fire safety des pread, flashover and		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.
Introduction (The history of is presented. Physics and cl Basic knowled fully-develope	1 week) fire disasters in hemistry of fire (dge of fire pheno ed fires are introc	buildings (6 weeks) omena suc duced.	ch as ignitio		0		2		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 candi
Introduction (The history of is presented. Physics and cl Basic knowled fully-develope Fire safety des Methods for fi	l week) f fire disasters in hemistry of fire (dge of fire pheno ed fires are introc sign of buildings	(6 weeks) (6 weeks) omena suc duced. s (7 weeks are introo	ch as ignitio s) duced on fi	on, burning, fi	re plume,	initial fire s	2	4	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 candi *Please visit KULASIS to find out about office hours.
Introduction (The history of is presented. Physics and el Basic knowled fully-develope Fire safety des Methods for fi smoke control End-term exat	1 week) f fire disasters in hemistry of fire (dge of fire pheno ed fires are introc sign of buildings ire safety design	6 weeks) omena suc duced. s (7 weeks are introc ire resista aluation o	ch as ignitic s) duced on fi nce.	on, burning, fi re compartme	re plume, ntation, e	initial fire s	pread, flashover and	4	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 candi *Please visit KULASIS to find out about office hours. [Courses delivered by instructors with practical work experience] (1) Category
Introduction (The history of is presented. Physics and cl Basic knowled fully-develope Fire safety des Methods for fi smoke control End-term exat	l week) f fire disasters in hemistry of fire (dge of fire pheno ed fires are introc sign of buildings ire safety design and structural fi mination and eva	6 weeks) omena suc duced. s (7 weeks are introc ire resista aluation o	ch as ignitic s) duced on fi nce.	on, burning, fi re compartme	re plume, ntation, e	initial fire s	pread, flashover and	4	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 candi *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
Introduction (The history of is presented. Physics and cl Basic knowled fully-develope Fire safety des Methods for fi smoke control End-term exat	l week) f fire disasters in hemistry of fire (dge of fire pheno ed fires are introc sign of buildings ire safety design and structural fi mination and eva	6 weeks) omena suc duced. s (7 weeks are introc ire resista aluation o	ch as ignitic s) duced on fi nce.	on, burning, fi re compartme	re plume, ntation, e	initial fire s	pread, flashover and	4	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 candi *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

Graduate School of Engineering Professor,HAYASHI YASUHIRO

Graduate School of Engineering Professor,NISHIYAMA MINEHIRC

Disaster Prevention Research Institute Professor,MARUYAMA TAKASH

Year/semesters 2021/Second semester

Language of instruction Japanese

Graduate School of Engineering Professor, TAKEWAKI IZURU

建築工学概論<建築>(2)

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 ttainment

[Course requirements]

Jone

[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)]

(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]

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

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 country in the world. It is a very important issue how to design safe buildings and through the result of the second state of

Instructor's

Lecture

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

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.

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

or varies roads, and methic 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

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

other, as well as between the target performances of architectural spaces and the combined principles of

name, job title and department of affiliation

Course number U-ENG24 14051 LJ74

建築工学概論<建築>

[Overview and purpose of the course]

Introduction to Architectural Engineering

1st year students or above Number of credits 2

Class style

Course title

(and course

Target year

tructures

Days and periods Mon.1

[Course objectives]

[Course schedule and contents]

tructures such as framed structures and shell construction.

title in

English)

Continue to 建築工学概論<建築>(2)↓↓↓

English) Target year 3rd y Days and periods Thu. I [Overview and pu Many buildings are a In this course, lecture and cities, 2) Enviror	ear students or al ear students or al increase of the gri- immental commental swill be gri- mmental com- sduction, 4) sunami.	t in cities and iven on; 1) Th throl methods of luminous env nowledge on b blems l aspect of arc	e of credi Lecture majority e e state of t concerning ironment of basic ideas	f human a he art of g g with redu control in	vertivities global er uction o urban an	Professor,HA Graduate Scl Associate Profe Disaster Prev Associate Profe (semesters) aggap dishtdor s are carried of nvironmental f global warn rea, 5) mitiga	out inside of buildings. I impact by buildings ming, 3) heat island tion of urban disaster
Days and periods Days and periods [Overview and pu [Overview and pu In this course, lectur and cities, 2) Environ such and and its re such as by fires and the [Course objective The participants are to situations. B1:scientific ability the B1:scientific ability to B1:scientific ability to C1:ability to realize a [Course schedule]	I CI Irpose of the communities of the swill be gi- mmental com- duction, 4) sunami. os acquire kr to acquire kr	lass style the course] d in cities and in cities and in cities and iven on; 1) Th htrol methods of luminous env nowledge on b blems l aspect of arc	Lecture majority o e state of t concerning ironment o	f human a he art of g g with redu control in	ctivities global er uction o urban ar	Language of instruction s are carried of nvironmental f global warr rea, 5) mitiga	Japanese out inside of buildings. impact by buildings ming, 3) heat island tion of urban disaster
[Overview and pt Many buildings are a In this course, lectur and cities, 2) Environ mechanism and its re such as by fires and t [Course objective The participants are t situations. B1:scientific ability t B4:understanding en C1:ability to realize : [Course scheduld	urpose of t inccumulated es will be gi- umental com duction, 4) isunami.	the course] i in cities and i iven on; 1) Th trol methods of luminous env nowledge on b blems l aspect of arc	majority o e state of t concerninț ironment o	he art of g g with redu control in	global en uction o urban an	s are carried o nvironmental f global warr rea, 5) mitiga	out inside of buildings. I impact by buildings ming, 3) heat island tion of urban disaster
Many buildings are a In this course, lectur and cities, 2) Environ mechanism and its re such as by fires and t [Course objective The participants are t situations. B1:scientific ability t B4:understanding en C1:ability to realize : [Course scheduld	coumulated es will be gi imental com iduction, 4) isunami. es] to acquire ki to acquire ki to solve prob	t in cities and iven on; 1) Th throl methods of luminous env nowledge on b blems l aspect of arc	e state of t concerning ironment o basic ideas	he art of g g with redu control in	global en uction o urban an	nvironmental f global warr rea, 5) mitiga	l impact by buildings ming, 3) heat island ation of urban disaster
C1:ability to realize a			hitecture				
	and sustaina	able developm			f global	, semi-global	I, regional, urban and
urban pollution is loo The reasons for heat The reasons for heat	in area and u an spreading oked back ar island and it island in urt	urban pollutio ng, many urbar nd identify tha its reduction m ban space are	on (1 week n pollution at thermal neasures (2 explained) problems pollution i weeks) followed	s were ra is one o by poss	aised. The his f the yet-to-b ible measure:	story of reduction of be solved pollution. s to reduce it. Special
emphasis is made up optimization of energ Control of urban the Lectures are given or mist system, heat rec	gy use in reg mal environ 1: the benefi	gional area and nment by arch ĩt of urban veg	d heat reco itectural d getation, re	overy/exha esign (4 w oof garden	ust syst veeks) is, cool i	tems.	ce, water mist, e, cool spot by water
Sunshine planning fo The lectures cover ef							

都市環境工学(2)

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

City fire (3 weeks)

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

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

[Course requirements]

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

[Evaluation methods and policy]

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

[Textbooks]

None specified. Handouts will be supplied on site

[References, etc.]

(Reference books) To be suggested during the course.

[Study outside of class (preparation and review)]

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

(Other information (office hours, etc.))

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

*Please visit KULASIS to find out about office hours

行動・建築デザイン論(2)

未更新

[Evaluation methods and policy]

by term-end examination

[Textbooks]

sing 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 `)

*Please visit KULASIS to find out about office hours.

Course tit nstructor' 行動・建築デザイン論 name, job title, (and course Disaster Prevention Research Institute title in Behavior and Architectural Design Theory and department of affiliation Professor, MAKI NORIO English) Brd year students or above Number of credits 2 Year/semesters 2021/First semester Target year Days and periods Tue.4 Class style anguage of instruct. Japanese Lecture [Overview and purpose 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 objectives] o understand the architectural and urban spaces from the viewpoint of relation with disaster. [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 oute, excursion characteristics, prospect and refuge, ordinary and extra-ordinary behavior. isaster 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 nan-environment desgin. Architeture desgin for disaster,2times,Design of public facilites to respond disaster will be discussed from the view point of man-environment design. CEPTED,2times,Desgin 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 onfirmation of the learning degree, I time, Summary of the lecture and evaluation of the learning degree FeedBack, 1time. [Course requirements] one

Course number U-ENG24 34053 LJ74

Continue to 行動・建築デザイン論(2)↓↓↓

	未更新	
Course number U-ENG24 34054 LJ74		建築応用数学(2)
Course title and course title in English) Applied Mathematics for Architecture Applied Mathematics for Architecture of affiliation associate Professor, O name, job title, and department of affiliation Associate Pri Disaster Pre	shool of Engineering OSAKI MAKOTO Hool of Engineering GURA DAISUKE hool of Engineering ofessor,OOTANI MAKOTO vention Research Institute ssey,NSHIIJMA KAZUYOSHI	[Course requirements] Calculus, mathematical statistics and industrial mathematics are prerequisite. [Evaluation methods and policy] Final examination
arget year Brd year students or above Number of credits 2 Year/semesters	2021/First semester	[Textbooks]
ays and periods Fri.3 Class style Lecture Language distude Overview and purpose of the course]		Katoh, Hokoi, Takahashi, Ohsaki 『Mathematics for architectural engineering, (in Japanese)』 (Asakura Shoten,) ISBN:978-4-254-11636-6
applied Mathematics required for understanding architecture such as architectural pla environmental design is taught. It is aimed that students will acquire the ability to un		[References, etc.]
rchitecture from mathematical viewpoint.		(Reference books)
Course objectives]		
Ordinary and partial differential equations, integral transform,		
probability theory and statistics, calculus of variation		[Study outside of class (preparation and review)]
Course schedule and contents]		Explained in the class.
 Ordinary differential equation: Solutions to constant-coefficient ODE's. (Nishijima Ordinary differential equation: Solutions to variable-coefficient ODE's. (Nishijima Fourier transform: Applications of Fourier transform to analysis of architecture (Or Fourier transform: Fourier series for periodic function, impulse response, and con Laplace transform: Definition of Laplace transform; and applications of Solutions to ODE's. (Ogura) Laplace transform: Applications to solutions to DE's. (Ogura) Laplace transform: Applications to solutions to DE's. (Ogura) Laplace transform: Applications to solutions to DE's. (Ogura) Laplace transform: Applications to solutions to partial differential equations (PDE' 0. Probability and statistics: Basics of probability theory, types of probability distrib analysis of architecture (Nishijima) Calculus of variation: Definition of functional, and Euler's equation. (Ohsaki) Calculus of variation: Method of Ritz-Galerkin (Ohsaki) Verification of how students understand: Check how students understand the contlasses. (All)) ani) volution. (Otani) ansform to analysis of s). (Ogura) utions, and applications	*Please visit KULASIS to find out about office hours.
Continue to	建築応用数学(2)↓↓↓	

										未更新
Course num	ber	U-EN	G24 34	4055 LJ74						
		根システ tural info		on Systems		nan and	tructor's ne, job ti I departn Iffiliation	tle, nent	Professor,KA Graduate Scl	nool of Engineering NNETA TAKASHI nool of Engineering fessor,NISHINOSAYAKA
Farget year	3rd ye	ar students	or above	Number	of cred	its	2	Yea	r/semesters	2021/First semester
Days and periods	Tue.3		Class	s style	Lecture	e			Language of instruction	Japanese
[Overview and Information motion pro- construction pro-	deling	g on arch	itectur	e will be le	ectured.	Also	o researe	ch and	development	applied to building
[Course obje										
To acquire the in architectural D-D1					esearch,	info	ormatio	n and o	communicatio	n technology applied
[Course sch	edule	and co	ontent	s]						
theory. 8-11. Building 12-14. Applicat 15. Final exami 16. Feedback	inform tion to	nation me architec	odeling ture ar	g nd urban en	igineerir	ng	-Eranilli	ung, O	лари шеогу, 1	Meta-heuristics, Fuzzy
[Course requ	uirem	ents]								
Basic knowledg should be mast		nathema	itics. q	uotComput	tational l	Prac	tice on	Archit	ectural Desig	n and Engineeringquot
[Evaluation I	metho	ods and	l polic	y]						
 Evaluation m Evaluation wi Evaluation for Evaluation po Achievement school of Engir 	ll be b r partic olicy of goa	cipation i ls is evai	in class	s includes a	attendan	ce ai	nd shor	t repor	ts conducting	

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] 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 number U-ENG24 14057 LJ74	未更新	日本都市史(2)
Course title (and course title in English)	Instructor's name, job title, and department of affiliation	[Textbooks] 日本建築学会編『日本建築史図集』(彰国社) isbn{} {9784395008889}
Target year Ist year students or above Number of cred	lits 2 Year/semesters 2021/First semester	[References, etc.]
Days and periods Tue.3 Class style Lecture		(Reference books)
[Overview and purpose of the course]	e anguige e insuevoir sapariese	
The objective of this course is for students to understan	nd the historical characteristics of Japanese cities and	[Study outside of class (preparation and review)]
the housing in which the residents of those cities have	lived and acted along the course of history.	Read the material introduced in the class.
[Course objectives]		(Other information (office hours, etc.))
Students will learn an outline of the history of Japanese	e cities and housing and acquire the basic principles	Taking questions: questions will be accepted by e-mail at any time.
used to shape society in the present and future. Of the learning and education objectives listed by th The ability to understand the design and planning aspec	he department: B. Expertise and Basic Knowledge, B2. cts of architecture.	*Please visit KULASIS to find out about office hours.
[Course schedule and contents] ntroduction - 1 class: 1, Introduction (significance of u Antiquity - 1 class: 3, Ancient Miyakonojo Antiquity - 1 class: 3, Pit-dwellings and raised-floor dw Antiquity - 1 class: 4, Imperial palaces in antiquity Antiquity - 1 class: 5, Housing in Miyakonojo Antiquity - 1 class: 5, Shinden-zukuri Medieval Era - 1 class: 7, Transformation of the Heian Medieval Era - 1 class: 9, Establishment of the Shoin-z Modern Era - 1 class: 10, Formation of the castle-town Modern Era - 1 class: 11, Characteristics of the three ci Modern Era - 1 class: 12, The shoin (drawing room) an Modern Era - 1 class: 13, Private houses Modern Era - 1 class: 14, Modern cities class: 15, Feedback Student Assessment - 1 class [Course requirements]	vellings capital, and Kamakura and Hiraizumi Egoverning cities zukuri style ities (Edo, Kyoto, and Osaka)	
None		
[Evaluation methods and policy]		
Examination at the end of the term		

0								未更新
Course ni	umber	U-ENG24 3	4058 LJ74					
Course title (and course) History of Japanese Architecture English)			n	istructor's ame, job ti nd departn f affiliation	nent	Graduate School of Engineering Professor, TOMISHIMA YOSHIA		
Farget yea	r Brd y	ear students or above	Number	of credit	s 2	Year	/semesters	2021/Second semeste
Days and perio	ods Wed	.1 Class	s style	Lecture			Language of instruction	Japanese
[Overview	/ and pi	urpose of the	course]					
and shrine a The objectiv	rchitectu /e is for s	re. Connections students to unde	s will be dra rstand the c	wn to the	social an stics of sp	d cultu ace, te	iral backgrour chnology, and	with a focus on temple ad of this architecture. I design in Japanese more or less emphasis.
[Course o	bjectiv	es]						
B. Expertise architecture.		sic Knowledge	B2. The	e ability to	understa	nd the	design and pl	anning aspects of
[Course s	chedul	e and content	s]					
and Buddhis	st archite a 12. Mi	cture 10. The H aromachi period	Iondo (Mai	n Hall) in	New Buc	ldhism	11. Shrine a	to the medieval era, rchitecture in the Craftsmen and tools 1:
[Course re								
It would be	preferab			ted in rela	ted discip	lines s	such as Japane	ese history, art history,
[Evaluatio	on meth	ods and polic	cv]					
Examination	1 at the e	nd of the term						
Textbook	(s]							
- Contractor								
『日本建築	史図集。	」(彰国社) i	sbn{}{978	43950088	89}	_		
[Referenc	es, etc.	』(彰国社) i]	sbn{}{978	43950088	89}			
[Referenc (Referen	es, etc. nce boo	』(彰国社) i]				(館)	isbn{}{97846	
[Referenc (Referen 冨島義幸『	es, etc. nce boo 平等院/	』(彰国社) i] oks)	と浄土のあ	いだ』(吉川弘文	(館)	isbn{}{97840	i42080323}
[Referenc (Referen 冨島義幸『 [Study ou	es, etc. nce boo 『平等院』 tside of	』(彰国社) i] bks) 鳳凰堂一現世 &	< 浄土のあ ration and	いだ』(吉川弘文	〔 館〕	isbn{}{97846	542080323}
[Referenc (Referen 冨島義幸『 [Study ou Read the ma	es, etc. nce boo 平等院 tside of aterial int	」(彰国社) i] oks) 鳳凰堂—現世 ど f class (prepa	<浄土のあ ration and class.	いだ』(吉川弘文	(館)	isbn{}{97846	542080323}
[Referenc (Referen 冨島義幸『 [Study ou Read the ma (Other in	es, etc. nce boo 平等院/ tside of nterial int formati	』(彰国社) i] bks) 鳳凰堂一現世 ł f Class (prepa troduced in the o	≤浄土のあ ration and class. urs, etc.))	いだ』(d review	吉川弘文]		isbn{}{97846	542080323}

	mber	U-EN0	G24 24	4059 SJ74						
Course title (and course title in English) 上菜情報処理演習 Computational Practice on Architectural Design and Engineerin		Ingineering	Instructor's name, job title, and department of affiliation			Graduate School of Engineering Associate Professor, VANGISAWA KIV Graduate School of Engineering Associate Professor, IBA CHIEI Disaster Prevention Research In Associate Professor, KIBATA MASA Graduate School of Engineering Assistant Professor, TAKATSUKA K Graduate School of Engineering Assistant Professor, TAKATSUKA K Graduate School of Engineering Assistant Professor, TAKATSUKA K				
Target year	• 2nd	d year students o	or above	Number o	of cred	lits	2	Year	r/semesters	2021/Second semester
Days and perio	ds Fri.	4,5	Class	s style	Semina	ar			Language of instruction	Japanese
	Forma	t, Array, Fi solving ski	le Rea lls, and	ding and W d D1 Proble	/riting,	and	Sub-rou	utine. 7	The course are	eaches Branching, Data e intended for B1
[Guidance] 1 [Introduction [Application [Example of [Intermediate	class to pro of pro the con e progr	ogramming gramming mputer app ramming (3	(1st te (2nd te licatio	erm)] 4 clas erm)] 1 clas on for buildi	ss ing desi	gn]	4 classe	:s		
[Guidance] 1 [Introduction [Application [Example of [Intermediato [Achievemen	class to pro of pro the con e progr nt test]	ogramming gramming mputer app ramming (3 1 class	(1st te (2nd te licatio	erm)] 4 clas erm)] 1 clas on for buildi	ss ing desi	gn]	4 classe	:S		
[Guidance] 1 [Introduction [Application [Example of [Intermediate [Achievemen	class to pro of pro the con e progr nt test]	ogramming gramming mputer app ramming (3 1 class	(1st te (2nd te licatio	erm)] 4 clas erm)] 1 clas on for buildi	ss ing desi	gn]	4 classe	:S		
[Guidance] 1 [Introduction [Application [Example of [Intermediate [Achievemer [Course re None [Evaluatio	class n to pro of pro the con e progr nt test] equire	ogramming gramming (mputer app ramming (3 1 class ments] hods and	(1st te (2nd te licatio rd terr polic	erm)] 4 clas erm)] 1 clas n for buildi n)] 4 classe	ss ing desi s					ent tests. The former

l築情報処理演習(2)	Course number U-ENG24 34060 LJ74
Textbooks]	Course title
ot used	(and course) 建築温熱環境設計 title in English) Thermal Environment Design of Architecture and department English) Professor,OGURA DAISUKE Graduate School of Engineering Associate Professor,IBA CHIEN
References, etc.]	Target year Brd year students or above Number of credits 2 Year/semesters 2021/Second semesters
(Reference books)	Days and periods Tue.2 Class style Lecture Language distution Japanese
ogate (Online programming service, 980 JPY/month) https://prog-8.com/ ajime Kitaichi: Programming Excersize Python 2019 http://hdl.handle.net/2433/245698	[Overview and purpose of the course]
rchitectural Institute of Japan, Information System Committee, Design Science Education Method Sub- mmittee, quot Introduction to Design and Computing - Generation / Analysis / Optimization of	In this course, basic concepts for controlling thermal environment of daily habitation space such as especi dwellings. Practical methods for pasive thermal environment control is described.
rchitectural Forms and Functions using Python	[Course objectives]
ther handouts are distributed during lectures and practice.	The participants will be trained so that he/she can develope conceptual design of passive controlling elem and their combination for use in dwellings. Corresponding goals for education of department are C: Pract
Study outside of class (preparation and review)]	skills, C1: Capability in Realize Building Projects.
eview the handouts distributed during the lectures before the practice sessions.	[Course schedule and contents]
(Other information (office hours, etc.))	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
Courses delivered by instructors with practical work experience]) Category course with practical content delivered by instructors with practical work experience	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.)
course with practical content delivered by instructors with practical work experience 2) Details of instructors' practical work experience related to the course	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.
i) Details of practical classes delivered based on instructors' practical work experience	Solar shading and utilization, (1 time) The thermal environment is improved by intercepting solar radiatic 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 provia 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 wo 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 i descrived. The merits and demerits of water (2 times) As typified by water spraying in the middle of summer, water the effect of evaporative latent heat and improving the thermal environment. Based on the above, the environment acontrol plan using water is described. The commissioning of the house, (1 time) Whether the constructed house has the intended performance at Continue to 建築温熱環境設計(2) .

建築温熱環境設計(2)	Course n	umber	U-E
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 title (and course title in English)	設計演 Atelier I	
[Course requirements]	Target yea	r let v	ear studen
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.	Days and peri		
[Evaluation methods and policy]	[Overview	v and p	urpose
The grade is evaluated by a term-end examination.			
[Textbooks]	10		
None specified. Handouts will be supplied on site.	[Course o	bjectiv	es]
[References, etc.]	10	ala ala -	
(Reference books)	[Course s	cneau	e and d
To be suggeted during the course.	,7times,		
[Study outside of class (preparation and review)]	,1time,		
It is recommended that students take an appropriate review through Quiz, etc., which will be presented during thelecture.	[Course r	equiren	nentsl
(Other information (office house stal)	None	oquiion	
(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)	[Evaluatio	on meth	ods ar
*Please visit KULASIS to find out about office hours.			
[Courses delivered by instructors with practical work experience]	[Textbool	ks]	
(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	[Referenc	es, etc.]
	Refere	nce boo	oks)
(3) Details of practical classes delivered based on instructors' practical work experience			

										未更新	
Course nu	umbe	r U-EN	G24 1	4061 SJ74							
Course title (and course title in English)			Architecural Design, Basi			Instructor's name, job title, and department of affiliation			Graduate School of Engineering Professor,HIRATA AKIHISA Part-time Lecturer,HATA TOMOHIR Graduate School of Engineering Assistant Professor,YASUDA KEL		
Farget yea	r 1	lst year students	or above	Number	of cred	lits	2	Year	/semesters	2021/Second semester	
Days and peric	ods M	lon.4,5	Class	s style	Semina	ar			Language of instruction	Japanese	
[Overview	and	l purpose o	of the	course]							
[Course o	bject	tives]									
-	ched	lule and co	ntent	s]							
,7times, ,7times,											
,1time,											
[Course re	equir	rements]									
None											
[Evaluatio	on me	ethods and	polic	:y]							
[Textbook	s]										
[Reference (Reference		-									
Referen	ICE L	JOOKS/									
	_										

計演習基礎(2)	Course number U-ENG24 14064 LJ74
tudy outside of class (preparation and review)]	Course title (and course title in English) 世界建築史 History of World Architecture of affiliation of affiliation
Other information (office hours, etc.)	Target year list year students or above Number of credits 2 Year/semesters 2021/Second
ease visit KULASIS to find out about office hours.	
	Days and periods Mon.3 Class style Lecture Language of instruction Japanese
annes delivered by instructors with wasting working working an	[Overview and purpose of the course]
ourses delivered by instructors with practical work experience] Category Category	This course will discuss the history of predominantly European architecture, with its origins in Greec
course with practical content delivered by instructors with practical work experience	Rome, as well as Eastern architecture that has a close relationship with Japan. The objective is to giv students an understanding of architectural diversity, the relationship between political systems, cultur
	background, and architectural space, and how architectural characteristics and trends of thought in ea
Details of instructors' practical work experience related to the course	have set the course of modern architecture.
	[Course objectives]
Details of practical classes delivered based on instructors' practical work experience	B. Expertise and Basic Knowledge
	B2. The ability to understand the design and planning aspects of architecture E. International Persp
	E1. The ability to position architectural activity in diverse social systems
	[Course schedule and contents]
	Europe - 8 classes: 1-2. Ancient Greece and Rome 3-5. Pre-Romanesque, Romanesque, and Gothic
	Renaissance and Baroque 8. 18th and 19th century architecture
	China - 4 classes: 9-10. Chinese Buddhist Architecture 11. Chinese religious architecture 12. Chinese
	Imperial palace and housing for the people Korean Peninsula - 1 class: 13. Architecture of the Korean Peninsula
	India - 1 class: 14. India and Islamic Architecture
	class: 15, Feedback
	Student Assessment - 1 class
	[Course requirements]
	None
	[Evaluation methods and policy]
	An examination will be held at the end of term.
	[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.]
	(Reference books)
	Introduced during class
	Continue to 世界建築史(2

									未更新
世界建築史(2)		Course nu	mber	U-ENG24	44065 LE74	4			
[Study outside of class (preparation and review)]		Course title (and course title in English)		吾 for Architectu	re	n a	nstructor's name, job titl and departme of affiliation		ecturer, TSOI, Esther
Read the material introduced in the class.									
Other information (office hours, etc.))		Target yea	4th ye	ar students or abov	Number	of credit	t s 2	Year/semesters	2021/First semester
aking questions: questions will be accepted by e-mail at any time.		Days and perio	ds Thu.4	Clas	ss style	Lecture		Language of instructio	Japanese and English
lease visit KULASIS to find out about office hours.		[Overview	and pu	rpose of the	e course]				
		Le Corbusie	r said, in	Vers une arch	nitecture [To	owards an	Architectur	re] (1923)	
		construction 'This is be Mies van de carefully pui had moved t has local con Although Er language of architectural [Course o Able to use l A1 Commun	Ingenuit autiful. T r Rohe sa two bric o Americ cerns, ar glish doe arts and s issues w bjective poasic Eng ication a	ty is at work. hat is Archite hid, "God is icks together. T ca. Corbusier ad yet its influ- es not have thh science, as we rith the use of s]	But suddenl cture. Art et in the detail: There it begi was origina tence is glob e largest nuu ill as in inter English.	ly you toud nters in.' (s. "," Le ins. " Mid ally from S bal, and so mber of na rnational p	ch my heart " ess is more. es van der F witzerland metimes tir ative speake troject colla	t, you do me good "," Architecture Cohe was originall and had moved to neless. ers in the world, it borations. In this	nd palaces. That is , I am happy and I say: e starts when you y from Germany and France. Architecture is the global working class we will explore
		B2 Understa	nding arc	chitectural des	sign and spa	tial planni			
				w architecture ct judgement			d social und	derstanding	
		D2 Having o	ne's un	nique viewpoi obal and local	nt			6	
		[Course s	chedule	and conter	nts]				
								ike Le Corbusier, us projects that I l	Mies van der Rohe, ad worked on.
								. Introduction to a la based on the th	first assignment to be eory of 5 points.)
		Wk 3: Corbi	isier: Doi	m-ino & Villa	is 2. Five p	oints of a 1	new archite	cture.	
		Wk 4: Revie	w on tecl	hnical terms.	Reference t	to Francis	Ching's E	Building Construct	ion Illustrated. 專門英語(2)↓↓↓

専門英語(2)

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]

Jone

[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.

omework - 40% Presentations - 40%. Attendance - 20%

[Textbooks]

teen Eiler Rasmussen, Experiencing Architecture, MIT Press, 1992

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

_____Continue to 専門英語(3)↓↓↓

専門英語(3)

rancis 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://www.edu.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://ldrv.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.) 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-of-architecture-part1_.pdf(Christian Norberg-Schulz, Genius Loci: Towards a Phenomenology of Architecture,

_____Continue to 專門英語(4)↓↓↓

専門英語(4)

Academy Editions Ltd, 1980,) Academy Editions Eu, 1980.) https://ldrv.ms/b/s!AhVq_riAFrGsgSI7_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.)) http://www.icomconf.com/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]

Categor

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

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

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.

(and course) 建築造形実習 Fundamental Training in Architectural Design and department of affiliation dation of a filled to the second dation of the second dation dation dation dation dation of the second dation	Course number	U-ENG24 1	i 4072 PJ74								
Days and periods Mon.3,4 Class style Practical training Lange distance Days and periods Mon.3,4 Class style Practical training Lange distance Down and training in their visual representation. To acquire basic skills in presentation through a basic understanding of architectural form and spatial organisation, and training in their visual representation. 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. ICourse objectives] C. Practical skills, C1. Ability to realise architectural objects 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. ICourse 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 archi	Course title (and course) Instructor's 建築造形実習 Sen ame, job title, and department of affiliation Sen and department of affiliation						Senior Lecturer,KOMIYAMA YOSUKE Part-time Lecturer,IKEI TAKESHI Graduate School of Engineering				
[Overview and purpose of the course] To acquire basic skills in presentation through a basic understanding of architectural form and spatial organisation, and training in their visual representation. 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 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: Komiyama]. 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	Target year Ist year students or above Number of credits 2 Year/semesters 2021/First sem								2021/First semester		
To acquire basic skills in presentation through a basic understanding of architectural form and spatial organisation, and training in their visual representation. 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 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]. 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: Komiyama]. 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	Days and periods Mon.	.3,4 Clas	s style	Practic	al tr	aining		Language of instruction	Japanese		
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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	graphics and CAD.					oue					
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			architectural	hand di	rawi	ng, CG	and C	AD will be he	eld. [Teachers in		
			t 1 time Ev								

築造形実習(2)	Course num	nber	U-ENG24 44073 LJ74				
Course requirements]						Professor,TA Graduate Sc	hool of Engineering AKANO YASUSHI hool of Engineering ARADA KAZUNOR
ter her der an er der ander alle er der etter d						Graduate Sc	hool of Engineering
valuation methods and policy] dents will be assessed on the basis of their architectural drawings and CG/CAD submissions.	Course title				Instructor's		GURA DAISUKE hool of Engineering
dents will be assessed on the basis of their arcinectular drawings and CO/O/D submissions.		L築設備	計画法 neory of Building System		name, job title, and department		essor,ISHIDĂ TAIICHII hool of Engineering
extbooks]	English)	esign 11	leory of Dunding System		of affiliation	Associate Pro	fessor,OOTANI MAKO
ructed during class						Associate Pr Disaster Prev	hool of Engineering ofessor,IBA CHIEM /ention Research Insti essor.NISHINO TOMO
eferences, etc.]						Dire Tr	, KODAVAGULVOJ
(Reference books)							urer,KOBAYASHI YOI
roduced during class	Target year	4th year	students or above Number of	of cred	its 2 Ye	ar/semesters	2021/First semester
Analysis and a take of a large of a second take and an atom At	Days and periods	s Wed.4	Class style	Lecture		Language of instruction	Japanese
Study outside of class (preparation and review)] structions will be given in class when necessary.	[Overview a	nd pur	pose of the course]				
nacions will be given in class when necessary.			ities in buildings, includi				
Other information (office hours, etc.))			pment, and acoustic equi lesign theory of building				
ease visit KULASIS to find out about office hours.			0,00	lacintic	s menuding plai	ining and main	tenance is explained.
	[Course obj		•				
Annuan delivered by instance with one stine to all superious 1			heory including practical g and educational goals:				
Courses delivered by instructors with practical work experience]			ineering aspects of archit		i use and basic is	diowieuge, D4.	Ability to understand
course with practical content delivered by instructors with practical work experience	Course ech	andulo -	and contents]				
Details of instructors' practical work experience related to the course	Introduction, 1		and contents]				
beans of instructors practical work experience related to the course	what kind of e	quipmer	t is in the building and w				
Details of practical classes delivered based on instructors' practical work experience	context of the	global e	uilding is outlined. In par nvironment era is lecture ortance of comprehensive	d from t	he standpoint of	f energy-saving	
	The lecture wil	ill cover	ipment, 2 weeks lighting methods, light so Also recent advances in li				
	The basic info	rmation er/light e	acilities, 1 week such as power receiving electrical equipment in bu roduced.				
			quipment, 3 weeks tic/information equipment	nt for re	cording, reprodu		sting, and loudspeak 建築設備計画法(2)↓
	」 └──						

建築設備計画法(2)

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.

eismic design of building equipment, 1 week 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 esign 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 pecial 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 LI74), 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 one written examination.

[Textbooks]

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

[References, etc.] (Reference books)

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建築設備計画法(3)

[Study outside of class (preparation and review)] se handout/exercise sheet for review

(Other information (office hours, etc.))

Please visit KULASIS to find out about office hours

Office hour] Questions are accepted at occasion. Contact lecturers for the arrangement of 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 44999 GJ74		木史和	
Course title (and course 特別研究 Graduation Thesis English)		hool of Engineering ANKI KIYOKO	30th Presentation of the Graduation Thesis or Diploma Design.
	lits 0 Year/semesters	2021/Intensive, year-round	[Course requirements] Satisfy requirements for "Graduation Thesis" enrollment depend on year of admission
Farget year 4th year students or above Number of cred		2021/Intensive, year-round	[Evaluation methods and policy]
Days and periods Intensive Class style Semina	ar Language of instruction	Japanese	Based on the submitted Graduation Thesis or Diploma Design, grading will be determined as either p
Students are required to set a new topic in the fields of regard to either architectural, urban, and regional histor environmental factors, and their physiological/psychol solutions to the set topic; and to compile the research re Design.	ry or spaces/systems, or to struc ogical effects; to develop the ab	tural technology, ility to provide	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.
[Course objectives]			
From a new, previously unexamined perspective, with based on their personal viewpoint, students must acquii verifiable method of research or design related to archi From the learning and educational goals listed by the E A; Comprehension ability A1; Communication and presentation skills A2; Multi-faceted understanding of the values of archit C; Practical ability C; Understanding of the social role of designing or bu D; Innovation D2; Attaining an imaginative perspective	re the skills to effectively and si tectural planning, design, struct Department: tecture	ufficiently express a	[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 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.
[Course schedule and contents] For each lesson, proceed with discussions and guidance Ist - 3rd Setting the research and design task. 4th - 6th Collecting examples of previous studies or advanced de Consideration of research method or design direction. 7th #8211 9th Establishment of research hypothesis, design research 1 10th - 16th 10th - 16th Inplementation of surveys, experiments, theoretical stu- design. 17th - 22th Examination of the results obtained from former stage, 23rd - 29th Writing Graduation Thesis, or proceeding with drawing	esign techniques. plan, or design process. udies, numerical analysis, or cor or proceeding with design draw g and making models of Diplon	nsideration of basic	