	ode										
	業数 [:] ginee	ring Math	emati	ics C		de	filiated partment b title,Na		Asso	ociate Professo	ntion Research Institute r,NISHIJIMA KAZUYOSHI rer,KOSAKA ATSUSHI
ar	2nd y	ear students of	or above	Number	of cred	lits	2		urs	e offered eriod	2019/Second semester
	Wed.	-		ss style	Lecture	e				Language	Japanese
۱d	Purp	oose of t	he C	ourse]							
oa	ls]										
ch	edul	e and Co	onten	ts]							
_											
uiı	reme	nt]									
°oi	int of	view, a	nd At	tainment	levels	of E	Evaluat	ion]		
]											

[Reference books, etc.] (Reference books)

Numbering

Course titl <English>

Target ye

Day/perio

[Outline a

[Course G

[Course S

,5times ,1time,

,5times ,3times

1time,

[Class req None

[Method, F

[Textbook

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.))

*Please visit KULASIS to find out about office hours.

	学倫理 gineering Ethic			A.(())				ol of Energy Science		
		cs		depa	liated artment, title,Nar	me Gra	Graduate School of Energy Science Professor, TAKUDA HIROHIKO Graduate School of Engineering Professor, ATOMI HARUYUKI Graduate School of Engineering Senior Lecturer, KANEKO KENTAROU			
Target year	4th year students o	or above Numbe	r of cred	its	2	Cours year/p	e offered eriod	2019/First semester		
Day/period	Гhu.3	Class style	Lecture				Language	Japanese		
Outline and	Purpose of t	he Course]								
								s and scientists.		
structors from	various facult	ies give lecture	s about et	hics i	in their	researc	h fields.			
Course Goal	s]									
he goal of this		erstand enginee	ering ethic	s, an	id to de	velop tl	ne ability to	judge by yourself when		
ou encounter e	inical issues.									
Course Sche	dule and Co	ontents]								
enerating. Intro- geneering and ngineering ething ingineering Ething eage of inform thical theories articular ethica trt-view concep agineering. Son e QOL-evalua comita: Enginee thics of biotect chnology and i cossible, at least roblems accom esearch and en elongs thereto.	ducing some c engineering et ics as an applie ics by compar- nation technolo for engineerin leontology, vir l problems in et t for engineerin en erractical ex- tion will be dis rring Science) nology and st stem cell engir technically. In panying techn The sense of c	ogy. (M. Mizut g ethics. (5/2) 1 rtue ethics. prof engineering eth ing. (5/9) 1 time camples in med scussed from bo em cell researcio enering, editing n this lecture, I lological develo cs. (5/23) 1 time ethics necessary rtance of equita	ural disast ccussed. (I, 0) 1 time. In eer fields c ani: Gradu time. Thi essional e ics. (T. Ise. . Concept ical-care a oth function h. (5/16) 1 of the hui will introco pment. (C . It is said to how how how how how how how bility and	ters a X. K n this of Ap aate S is lec thics eda: (of "C und w on-op time man duce S. Eir that conc fair	and con Lishida: s lecture pplied E School cture foo cture foo cture foo graduai quality velfare ptimizin c. With genome these la raku: In the	structic Global e, I will Ethics. A of Lette cus on y thich w te Scho of life" fields w ng view the rapi e that g atest tec dustrial t will d esearch	n accidents, Engineering is how the be And show its rs) various idea: il be useful il be useful il be useful il be useful il be useful il be useful point and an point and an chenologies a Chemistry) o no ill, mus and enginee	geotechnical 2) asic Idea of s unique character in s in ethics for thinking about) for human related luced, and problem of rt view point. (N. ent of genome editing generations has become nd think about ethical		

工学倫理(2)

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medicines and food productions. Associated with it, problems of their safety and ethics are arising, which should be addressed by our societies. In this class, the recent progress in biology-related techniques, and problems we have and will have in near future are described. (M. Shirakawa: Industrial Chemistry) Patents and ethics (Part 1). (6/6) Itime. This course will teach the students about 1) patent systems which protect inventions and research results and 2) ethical issues in patents. The first class, in preparation for the next subject of patent ethics, introduces Japan's patent system with comparisons to the patent systems in the world's major countries and international framework. (M. Nakagawa: Electrical and Electronics Engineering)

Patents and ethics (Part 2). (6/13) Itime. Students, equipped with the basic knowledge of patent systems by the previous lecture, will get familiar with actual case studies on ethical and legal issues in patents. (M. Nakagawa: Electrical and Electronics Engineering)

Nakagawa: Electrical and Electronics Engineering) Ethics required for advanced science. (6/27) Itime. Engineers and researchers are at the forefront of preventing harm caused by advanced chemistry. Think about social roles and ethics required by engineers and researchers through relationships between chemical substances and environmental problems, efforts to avoid hazards of nanomaterials. (K. Miura: Industrial Chemistry)

Ethics in press release. (7/4) 1 time. Press Release is an essential process for introducing the research to our society through various medias. In this lecture, issues related to Press Release in University are addressed and discussed. (K. Umeno: Informatics and Mathematical Science) Failure accidents and inspection/maintenance (7/11) time. On the occasions of failure accidents of vehicles

Failure accidents and inspection/maintenance (7/11) 1time. On the occasions of failure accidents of vehicles and plants, the appropriateness of inspection/maintenance of their structures is often questioned. Some actual failure accidents are reviewed to discuss the importance of inspection/maintenance together with the relation to engineering ethics. (S. Biwa: Engineering Science) Ethics in nuclear engineering. (7/18) 1time. Discussion on engineering ethics in the TEPCO accident from

Ethics in nuclear engineering. (7/18) 1time. Discussion on engineering ethics in the TEPCO accident from view point of Tsunami evaluation by the Japanese government. (I. Takagi: Engineering Science) Ethical issues on sound design. (7/25) 1 time. Every working things consuming energy emits acoustic sound. Even a small sound energy affect human as noise and may create annoyance and health problems. Sound problems of various things are introduced in the lecture. Ethical issues, which shall be considered during design and operation environment, will be discussed. (Y. Takano: Architecture)

[Class requirement]

None

[Method, Point of view, and Attainment levels of Evaluation] Class participation and reports.

[Textbook]

Lecture materials will be distributed

[Reference books, etc.]

(Reference books)	L
^P Omnibus Engineering Ethics (Kyoritsu Shuppan Co., Ltd.) ISBN:978-4320071964	
Practical Engineering Ethics - A Short Course, New Edition a (Kagaku-Dojin Publishing Company, INC)	
ISBN:9784759811551	
^P Engineering Ethics (Revised Edition) (CORONA PUBLISHING CO., LTD.) ISBN:978-4-339-07798-	
8	
^P World of Engineering Ethics (3rd Edition) (Morikita Publishing Co., Ltd.) ISBN:978-4-627-97303-9	L
Continue to 工学倫理(3)	1

工学倫理(3)

[Regarding studies out of class (preparation and review)] The assignment of the report will be given for each lesson.

(Others (office hour, etc.))

The class order is subject to change

*Please visit KULASIS to find out about office hours

Numbering	g code	•									
Course title <english></english>		亨論 duction to E	nginee	ering		de	iliated partment b title,Na	:, me	Seni Gra Seni Gra Gra Sen Gra	nior Lecture aduate Scho ior Lecturer, M aduate Scho nior Lecture aduate Scho nior Lecture aduate Scho	ol of Engineering r,MAEDA MASAHIRO ol of Engineering IATSUMOTO RIYOUSUKE ol of Engineering r,YOROZU KAZUAKI ol of Engineering ,KANEKO KENTAROU ol of Engineering r,ASHIDA RIYUUICHI
Target ye	ear 1	st year students	or above	Number	of crec	lits	1			e offered eriod	2019/Intensive, First semester
Day/perio		tensive		ss style	Lectur	e				Language	Japanese
[Outline a	nd Pı	urpose of	the C	ourse]							
[Course G	oals]										
[Course S	ched	ule and C	onter	nts]							
,1~2times, ,6times,											
[Class red	quirer	nent]									
None											
[Method, I	Point	of view, a	nd A	ttainment	levels	of E	Evaluat	ion]]		
[Textbook	(]										
[Referenc											
(Referei		,									
[Regardin	g stu	dies out o	f clas	ss (prepar	ation a	nd	review)]			
(Others (
*Please visit	t KUL	ASIS to fin	d out a	about office	hours.						

Numbering co	ode										
		ミナー I Leadershi		業調査研究 inar I)	de	iliated partment p title,Na	me	Sen Gra	ior Lecture iduate Scho	ol of Engineering r,YOROZU KAZUAKI ol of Engineering r,MAEDA MASAHIRO
Target year	2nd y	ear students (or above	Number	of cred	lits	1			e offered eriod	2019/Intensive, year-round
Day/period	Inter	nsive	Cla	ss style	Semina	ar				Language	Japanese
[Outline and	Purp	oose of t	he C	ourse]							
training on their prediction and c their compreher Leadership Sem [Course Goa The goal of this	r labo conce nsion ninar Is] cour	pratory, sti ption abil and expla II is open se is to in	udents ity by anation ed in t	s investigate group worl n capability the second s	e the me ks. After As ext semester	thoc r the ende r.	lology of investi- ed exers	of tea gatio ice s expl	am o on, s subj	organization students are ect of this c	aroughout hands-on h, proposal, market expected to improve ourse, the Global ity for processes of
proposal and ex work.	panti	on on the	interr	national mai	rket inve	esitg	ating w	orld	wid	e leading co	ompanies by group
[Course Sch	edul	e and Co	onten	ts]							
Week 1, Guidar											
Week 2-13, Ha											
Week 14, Pre-p Week 15, Final											
Week 15, Pillar	prese	mation									
[Class requir	eme	nt]									
How to register	will	be annou	nced la	ater. Studen	ts who	wan	t to join	this	cou	arse is reque	ested to attend the first
class.											
Mathad Dai	-		- A 4	talumant	lavala	- 4 5	welvet	lan	1		
[Method, Poi Students are pro									-		ution.
students are pro	mon	eu to skip	mand	s-on trainin	g. Evan	lanc	n win b	e ba	iseu	on presenta	uon.
[Textbook]											
Not used											
└											
									Cor	ntinue to G L セミ	ミナーI(企業調査研究) (2)

GLセミナーI(企業調査研究)(2)

[Reference books, etc.]

(Reference books)

*

(Related URLs)

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

[Regarding studies out of class (preparation and review)]

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

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours.

Numbering code Affiliated 工学部国際インターンシップ1 Course title department, Job title,Name <English> Faculty of Engineering International Internship Approved Course offered year/period Target year Brd year students or above Number of credits 2019/Intensive, year-round Day/period Intensive Class style Language Japanese and English Seminar [Outline and Purpose of the Course] 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. [Course Goals] 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 Schedule and Contents] Overseas Internship,1time,The contents to be acquired should be described in the brochure of each internship program. Final Presentation, 1 time, A presentation by the student is required followed by discussion among participants. [Class requirement] Described in the application booklet for each internship program. The registrant is requested to have enough language skills for the participation. [Method, Point of view, and Attainment levels of Evaluation] 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 credit 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. [Textbook] [Reference books, etc.] (Reference books) [Regarding studies out of class (preparation and review)] (Others (office hour, etc.)) It is required for students to check if the internship program to participate in could be evaluated as part of

*

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.

	らしセミナー I lobal Leadersh	I (課題解決演 ip Seminar II	留) de	filiated epartment ob title,Na	, Ser Gra	nior Lecture aduate Scho	ol of Engineering r,MAEDA MASAHIRC ol of Engineering ,KANEKO KENTAROU
Target year	r 2nd year students	or above Number of	of credits	1	Cours year/p	e offered eriod	2019/Intensive, Second semester
Day/period	Intensive	Class style	Seminar			Language	Japanese
-	d Purpose of	-					t or set up challenges
rained throug	h group works	in residential traini tations regarding c	ing and ski	lls of pre	esentatio	on and comr	and problem-solving are nunication are the process from a
[Course Go	als]						
		raction or setting u gh group works.	p challeng	es to pro	posal of	solutions a	iming at creating new
[Course Scl	hedule and C	ontents]					
		experts are given. 1p challenges, extr	action of p	nchlones	collect		
Residential tra problems is pl Preliminary re Report meetin [Class requ	anned, a draft r view meeting, g,1time,Final p	hrough intensive g eport is made, and time,A preliminar resentations are m	a few pres y review n	s based of entations neeting is	on discu s are ma s held ai	ssion, a proj ide. nd discussio	Ŭ,
Residential tra problems is pla Preliminary re Report meetin [Class requ None	anned, a draft r view meeting, g,1time,Final p irement]	eport is made, and time,A preliminar	a few pres y review n ade and rep	s based of centations neeting is ports are	on discu s are ma s held an submitt	ssion, a proj ide. nd discussio	posal for solving
Residential tra problems is pl Preliminary re Report meetin [Class requ None [Method, Pc It is required to concerning abi	anned, a draft r view meeting, g, 1time, Final p irement] bint of view, a o join the resid ilities in group	eport is made, and time,A preliminar resentations are m and Attainment ential training. A r	a few pres y review m ade and rep levels of eport meet act or set up	s based of sentations neeting is ports are Evaluat ing is help o challen	on discu s are ma s held an submitt 	ssion, a proj ide. nd discussio æd. omprehensi to propose	posal for solving
Residential tra problems is pl Preliminary re Report meetin [Class requ None [Method, Pc It is required to concerning abi a goal is made [Textbook]	anned, a draft r view meeting, g, 1time, Final p irement] bint of view, a o join the resid ilities in group	eport is made, and time,A preliminar resentations are m and Attainment ential training. A r discussion to extra tatation of the proper	a few pres y review m ade and rep levels of eport meet act or set up	s based of sentations neeting is ports are Evaluat ing is help o challen	on discu s are ma s held an submitt 	ssion, a proj ide. nd discussio æd. omprehensi to propose	ve evaluation

G L セミナーI I (課題解決演習) (2)
[Reference books, etc.]
(Reference books)
Will be indicated as necessary.
[Regarding studies out of class (preparation and review)]
(Others (office hour, etc.))
Course open period: October to January
How to register the course will be instructed.
*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.
*Please visit KULASIS to find out about office hours.

* Numbering code Affiliated 工学部国際インターンシップ2 Course title department, Job title,Nan <English> Faculty of Engineering International Internship Approved Course offered year/period 2019/Intensive, year-round Target year Brd year students or above Number of credits 2 Class style Dav/period Intensive Language Japanese and English Seminar [Outline and Purpose of the Course] Acquisition 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 Goals] 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,1time,The contents to be acquired should be described in the brochure of each internship program. Final Presentation, 1 time, A presentation by the student is required followed by discussion among participants. [Class requirement] Described in the application booklet for each internship program. The registrant is requested to have enough language skills for the participation. [Method, Point of view, and Attainment levels of Evaluation] 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 redit 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. [Textbook] [Reference books, etc.] (Reference books) [Regarding studies out of class (preparation and review)] (Others (office hour, 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 hour

Numbering	g code									
Course title <english></english>			lobal Engineerinş	g	de	Affiliated department, Job title,Name		Pro Gra Ass	ol of Engineering ADA HITOSHI ol of Energy Science ssor,HAMA TAKAYUKI ol of Engineering IN	
Target ye	e ar 4th ;	ear students	or above Number	of cred	lits	2			e offered eriod	2019/First semester
Day/perio	d Wed	.4	Class style	Lecture	e				Language	Japanese
[Outline a	nd Pur	pose of t	the Course]							
[Course G	ioals]									
[Course S	chedu	le and Co	ontents]							
0										
[Class rec	luireme	ent]								
None										
[Method,	Point o	f view, a	nd Attainment	levels	of E	Valuat	ion]		
[Textbook	(]									
[Referenc	e book	s, etc.]								
(Refere	nce bo	oks)								
[Regardin	g stud	ies out o	f class (prepar	ation a	nd	review)]			
(Others (office I	nour, etc	.))							
*Please visi	t KULA	SIS to fin	d out about office	e hours.						

	l築計画学 I rchitectural Plar	ningI			Affiliated department, Job title,Name					ol of Engineering essor,YOSHIDA TETSU		
Target year	2nd year students	or above	Number	of credi				ourse offered ar/period		2019/Second semeste		
Day/period	Fri.3	Cla	ss style	Lecture				L	Language	Japanese		
Outline and	Purpose of t	he Co	ourse]									
planning and d functions and j		hitect	ure, as well pes. In addi	as the ir	iterpi will g	etation give a	1 and lectu	f the	e process of on the basis	tc. necessary for f establishment of of positive		
[Course Go	als]											
human psycho corresponding	logy and behavi	or in t ationa	ouilt enviro al goal] B. H	nment.		0				theories to understand lity to understand the		
	architectural pla											
and its transition Dimensional p Understand the	on, and show the lanning, 1 time, e concept of the	e areas unit sj	s to be cove	ered by a	rchite d dee	ectural epen th	plan eir u	ning inde	g studies.	planning in architectur of the measure of it space and so on.		
Understand the	pacity and size, e planning of ca he number of p	pacity	and size of							pulation fluctuation,		
building and d	luations and liv	erstand								esign process of the valuation method such		
Durablity plan Lecture on dur buildings.		f space	e building.	Understa	nd tł	ne soci	al du	rabl	le years and	d conversion etc of		
	gement,2times, 1g on facility ma	anager	nent in the	office, re	view	the tr	ansit	ion	of facility	management and the		
Building type,	3times,											
								_		建築計画学 1 (2)		

Lecture on the type of daily behavior, room type / building type, type of combination / division of space,
concept of flow line etc. Also, lecture on the process of establishment of representative building types such a schools and hospitals since modern times and deepen their understanding
Function, Program,2times, Lectures on concepts and changes of functions and programs in architectural design.
Environmental psychology, ltime, Focus on environmental psychology, positive (explanatory) theory to explain human psychology in the environment and give lecture on the spread of the object, and outline affordance and others.
Proximity, Privacy, Security, Itime, Lecture on the concept of proximity studies (proxemics) from animal behavioral theory, cultural anthropology and how they are applied to architectural planning studies such as privacy awareness and crime prevention etc.
Final exam/Confirmation of learning achievement, ltime, Confirm the proficiency level of lecture content.
Feedback,1time
[Class requirement]
None
[Method, Point of view, and Attainment levels of Evaluation]
Examination
[Textbook]
Distribute original documents every time and help to understand using projector projection slide.
[Reference books, etc.]
(Reference books)
Introduced during class
Introduce reference book at every lesson
[Regarding studies out of class (preparation and review)]
Please carefully read the materials distributed in the lesson and review the content of the lesson.
It would be good enough, if you could get an understanding that "plan" thought to be general can change
It would be good enough, if you could get an understanding that "plan" thought to be general can change hroughout the lesson.
It would be good enough, if you could get an understanding that "plan" thought to be general can change
It would be good enough, if you could get an understanding that "plan" thought to be general can change hroughout the lesson. To this end, it is recommended obtaining information on the planning and operation of each type of new
It would be good enough, if you could get an understanding that "plan" thought to be general can change hroughout the lesson. To this end, it is recommended obtaining information on the planning and operation of each type of new

建築計画学 I **(2)**

建築計画学 I (3) (Others (office hour, etc.)) [Grading evaluation] Examination. [Office Hour] (reception of questions, etc.) Friday 12: 00-13: 00 *Please visit KULASIS to find out about office hours.

* Numbering code Affiliated Course title <English> 住居計画学 Living and Housing Design Graduate School of Engineering Associate Professor, YANAGISAWA KIWAMU department, Job title,Name Course offered year/period Target year 2nd year students or above Number of credits 2 2019/Second semester Day/period Wed.2 Class style Lecture Language Japanese [Outline and Purpose of the Course] [Course Goals] [Course Schedule and Contents] ,1time, ,1time, ,2times, ,1time, .1time. ,3times, ,2times, ,3times, ,1time, [Class requirement] None [Method, Point of view, and Attainment levels of Evaluation] [Textbook] [Reference books, etc.] (Reference books) [Regarding studies out of class (preparation and review)] (Others (office hour, etc.)) *Please visit KULASIS to find out about office hours.

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Numbering	g co	de									
Course title <english></english>		↑演習Ⅰ lier Practice o	f Arcl	nitectural D	esignI	de	iiliated partment b title,Nai	, me	Pro Gra Pro Gra Ass Par Par Gra	fessor, TAK duate Scho fessor, KAN duate Scho ociate Profe t-time Lectu t-time Lectu duate Scho	ol of Engineering EYAMA KIYOSHI ol of Engineering KI KIYOKO ol of Engineering essor,TAJI TAKAHIRG rer,UOYA SHIGENOR urer,ONISHI MAKI ol of Engineering ssor,太田 裕通
Target ye	ear	2nd year students	or above	Number	of crec	lits	2			e offered eriod	2019/First semester
Day/perio	bd F	ri.3,4,5	Cla	ss style	Semin	ar				Language	Japanese
[Outline a	nd F	Purpose of	the C	ourse]							
[Course G	Goal	s]									
[Course S	Sche	dule and Co	onten	its]							
,, ,7times, ,7times, ,1time, ,,											
[Class red	quire	ement]									
None											
[Method,	Poir	nt of view, a	nd At	tainment	levels	of E	Evaluat	ion]			
[Textbook	(]										
									- <u>-</u>	ontinue to	- _{設計演習} I (2)

											~	
Numbering	g cod	le										
				f Arch	chitectural DesignII			iliated partment b title,Na	Pr Gra Pr Gri Pr Gri Gri Ass Gri Ass Gri	Graduate School of Engineering Professor,TAKEYAMA KIYOSHI Graduate School of Global Environmental Studies Professor,KOBAYASHI HIROHIDE Graduate School of Engineering Professor,HIRATA AKIHISA Graduate School of Engineering Associate Professor,TAJI TAKAHIRO Graduate School of Engineering Associate Professor,YOSHIDA TETSU Graduate School of Engineering Associate Professor,YANAGISAWA KIWAMU Graduate School of Engineering Associate Professor,YANAGISAWA KIWAMU Graduate School of Engineering		
Target ye	ar	2nd ye	ar students o	or above	Number	of cred	Cours			se offered period	2019/Second semester	
Day/perio	d M	lon.4	,5	Cla	ss style	Semina	ır			Language	Japanese	
[Outline a	nd P	d Purpose of the Course]										
[Course G	ioals	5]										
				_								
[Course S .7times.	cneo	aule	and Co	onten	tsj							
,7times, .7times.												
,1time,												
[Class red	uire	men	nt]									
None			•									
[Method, I	Poin	tof	viow a	nd At	tainmont	lovole	of F	valuat	ionl			
Internou, i			view, ai		tannient	level3		valuat				
[Textbook	4]											
[Referenc	e bo	oks,	, etc.]									
(Refere	nce l	lood	(S)									
									d	ontinue to	 設計演習II(2)	

殳計演習 Ⅰ (2)				
Reference bo	oks, etc.]			
(Reference	books)			
Regarding st	udies out of class	s (preparation	and review)]	
	ce hour, etc.))			
Please visit KU	LASIS to find out a	bout office hours		

設計演習II(2) [Regarding studies out of class (preparation and review)] (Others (office hour, etc.)) *Please visit KULASIS to find out about office hours.

Numbering of	ode								
Course title 결 <english> E</english>	tecture I	Affiliated departme Job title,N		Profess Gradua	Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Professor,OGURA DAISUKE				
Target year	get year 2nd year students or above Number of credits 2 Course offered year/period								2019/First semester
Day/period	//period Wed.2 Class style Lecture Language							Japanese	
[Outline and	Purpos	e of the C	ourse]						
[Course Go									
B1) scientific architecture, C						ironn	nental e	ngineeri	ing aspects in
[Course Scl	nedule a	nd Conten	nts]						
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Numbering	code									
								Graduate School of Engineering Professor, TAKANO YASUSHI Graduate School of Engineering Associate Professor, ISHIDA TAIICHIRO Graduate School of Engineering Associate Professor. OOTANI MAKOT		
Target yea	r 2nd ye	ar students or ab	ove Number	of cred	lits	2			e offered eriod	2019/Second semester
Day/period	Fri.2	c	Class style Lectu						Language	Japanese
[Outline and Purpose of the Course]										

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

[Course Goals]

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

[Course Schedule and Contents]

Vision and Photometry- 2 classes: These lectures will consider how the human visual system responds to the light environment, explain how to derive photometric quantities (the basis of light measurement), and provide relevant definitions. The lectures will cover the structure of the eve and retina, sensation of light through rods and cones, adaptation of the eye to the light environment, spectral luminous efficiency, radiometric quantities and photometric quantities, luminous flux, light intensity, illuminance, and luminance.

Architectural Lighting, Calculation of direct illuminance - 2 classes: These lectures will explain how to measure illuminance, the basis of architectural lighting, and its application in architectural lighting. The lectures will cover computation of the direct illuminance by a point light source, reflection and transmission of light, uniform diffusion, direct illuminance by a surface light source, and configuration factors. Daylighting, 1 class: The lecture will explain how to obtain a position of the sun and the sun shadow region of a building.

Color System Basics - 2 classes: Beginning with the mechanism through which people perceive color, this lecture will explain the color system for quantitative descriptions of colors. This lecture will cover the nechanism of color vision, the three attributes of color, the Munsell color system, and the CIE XYZ color

The Nature of Sound and its Physiological and Psychological Effects - 3 classes: Radiated acoustical wave from a source is affected by various objects that exists along its propagation path, until it reaches human ears and is perceived as sound. These lectures will outline the nature of sound propagation, the function of the uman auditory system, and physiological and psychological human responses to sound

The Physics of Vibration and Sound: Foundations of Acoustic Design - 4 classes: These lectures will explain basic topics relating to the physics of vibration and sound#8211the foundation of all acoustic design#8211 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. --------------------Continue to 建築環境工学II(2)

建築環境工学II(2)

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

[Class requirement]

[Method, Point of view, and Attainment levels of Evaluation] Evaluation will be based on final examination scores

[Textbook]

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(in Japanese)

[Reference books, etc.]

(Reference books) To be introduced during the course

[Regarding studies out 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.

(Others (office hour, 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

Numbering code Graduate School of Engineering Professor.OOSAKI MAKOTO Affiliated 建築構造力学I Graduate School of Engineering Associate Professor, Mechanics of Building StructuresI <English> Job title,Nam Graduate School of Engineering ssistant Professor, KIMURA TOSHIAKI Course offered vear/period 2nd year students or above Number of credits Target year 2019/First semester Dav/period Fri.1 Class style Lecture Language Japanese [Outline and Purpose of the Course] This course presents the fundamentals on the shapes, elements, and design of building structures. Mechanical

nodels, basic concepts and theories, and their applications are shown. Definitions of stress and strain, nechanical properties of structural materials, stress resultants and deformation of bars, theory and application of of statically determinate beams are also given.

[Course Goals]

To study fundamentals of mechanics of building structures, which form the basis of studying mechanics of building structures 2 and 3.

[Course Schedule and Contents]

- 1. Introduction nd guidance of the course. Role of structural mechanics
- and fundamentals of statics, (Ohsaki) 2. Displacement, strain, force, moment. Equilibrium equations of free body. (Ohsaki)
- 3. Deformation process of structural materials, e.g., steel and concrete,
- under external forces. Definition of elasticity, plasticity, and
- viscosity. (Ohsaki)
- 4. Definition of stress and strain. Stress-strain relationship. (Ohsaki)
- Basic equations for frame analysis. Assumptions and approximations for elementary analysis. (Ohsaki)

- Definition of stress resultants of beams. (Ohsaki)
 Statically determinate beams. Methods for finding reaction forces and
- stress resultants using equilibrium equations for free bodies. (Ohsaki) 8. Derivation of differential equations for beams. Diagrams for axial
- forces, shear forces, and bending moments. (Ohsaki) 9. Excercise for classes 1-8. (Kimura)
- Assumption of plane sections. Axial stress due to axial force and bending moment. (Ohsaki)

- 13. Stresses in the inclined section. Method using Mohr's circle. (Ohsaki)
- 4. Excercise for classes 10-13. (Kimura)
- 15. Final examination/ Learning achievement evaluation. (Ohsaki)

Shear stress due to bending. Shear stress due to torque. (Ohsaki)
 Section properties and coordinate transformation. (Ohsaki)

建築構造力学 I(2) 建築構造力学II(2) [Method, Point of view, and Attainment levels of Evaluation] [Class requirement] Term examination lone [Method, Point of view, and Attainment levels of Evaluation] [Textbook] Term examination T.Nakamura (ed.); Mechanics of building structures I: Illustrative description and exercises; Maruzen. isbn{ 4621039652} [Textbook] 中村恒善『構造力学 図説・演習I』(丸善)ISBN:4-621-03965-2 [Reference books, etc.] [Reference books, etc.] (Reference books) [Regarding studies out of class (preparation and review)] Solve the exercise problems at the end of chapters of the text. [Regarding studies out of class (preparation and review)] (Others (office hour, etc.)) Explained during the class Office hour: Before and after the class (Others (office hour, etc.)) *Please visit KULASIS to find out about office hours visit KULASIS to find out about office hours

Numbering code Graduate School of Engin Professor. TAKEWAKI IZURU Affiliated 建築構造力学Ⅱ Graduate School of Engineering Professor,HAYASHI YASUHIRO Course title Mechanics of Building Structures II <English> ob title,Nam Graduate School of Engine Associate Professor, KOHEI FUJITA Course offered 2nd year students or abov Number of credits Target year 2019/Second semeste Dav/period Fri.1 Class style Lecture Language Japanese [Outline and Purpose of the Course] Axial deformation of a bar and bending deformation of a beam. Statically determinate truss and moment esisting frame. Theory of statically indeterminate beams and buckling of columns. The force method and the lisplacement method (stiffness method) are described in the theory of statically indeterminate beams. Exercises are given for each subject. [Course Goals] Study analysis method of bending deformation of beams and theory of statically indeterminate beams. In addition study the theory of statically determinate truss and moment-resisting frame and the theory of uckling of columns. [Course Schedule and Contents] Axial deformation of a bar and bending deformation of a beam,1 class, Differential equation for deflection curve of a beam and Mohr's theorem for deflection analysis Theory of statically indeterminate beams 1, 3 classes Force method in terms of unknown stress resultants and reactions Theory of statically indeterminate beams 2, 3 classes Displacement method in terms of unknown displacements. Statically determinate truss and frame, 4 classes Analysis of stress resultants in statically determinate trusses and moment-resisting frames Buckling of column, 3 classes, Governing equation for a buckling problem of a column. Eigenvalue analysis. Slope-deflection method for ouckling analysis Feedback using term exam, 1 class, Conduct feedback using term exam through KULASIS [Class requirement] None Continue to 建築構造力学II(2)

Numbering code Graduate School of Engineering 建築材料 Professor, KANEKO YOSHIO Course title departm <English> **Building Materials** Graduate School of Engineering Professor,HAYASHI YASUHIRO Job title Nar Course offered year/period Target year 2nd year students or above Number of credits 2019/Second semeste Language Japanese Day/period Mon.2 Class style Lecture [Outline and Purpose of the Course] Lectures will be given on the properties of the materials making up a building. In this lecture, the manufacturing method, basic physical properties, mechanical properties, usage examples in buildings, and so forth will be explained regarding concrete, steel, wooden materials, finishing materials in general building aterials, and others. [Course Goals] Learning the manufacturing method, material characteristics, examples of use in buildings, and so forth egarding construction materials such as concrete, steel, woody materials, and the finishing materials that nake up buildings. Among the learning and educational goals listed by the department, the goals are B. expertise and basic knowledge, and B3. the ability to understand structural aspects of architecture. [Course Schedule and Contents] Guidance (1 time): The content of this lecture (composition of lesson, contents of whole lecture, etc.) and the earning target will be described. Concrete (4 times): Production method and properties of cement, properties of aggregate/admixture, method for producing concrete, compounding design, properties of fresh concrete/test method, and mechanical and physical properties of hardened concrete will be explained. Steel material (3 times): Raw materials of steel, steel making technology and its history, classification and chemical composition of steel materials, physical properties and the stress/strain relation of steel materials, and the test methods of physical properties will be explained. Wooden/timber structure (4 times): Regarding material properties, such as the strength of wood as the structural materials of wooden buildings, the deterioration of wood, durability, fire resistance, the structural form, construction method, and the structure design of wooden buildings will be explained, and the focus will be on reflecting on wooden building design, construction, maintenance, and management based on the correct recognition of timber Finishing material (2 times): The differences between structural materials and finishing materials, as well as material properties to be utilized, examples of use in buildings, and so forth will be discussed. Final Exam. (1 time):A feedback class, including posting example model answers on KULASIS, will be conducted. [Class requirement] Nothing in particular

(Reference books)

Continue to 建築材料(2)

· · · · ·	nd Attainment levels of Evaluation]
irades will be evaluated by a	final exam, and the achievement level of the course will be confirmed.
[Textbook]	
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[Reference books, etc.]	
(Reference books)	
ntroduced during class To be introduced during class	
o be introduced during class	
	of class (preparation and review)]
to be indicated during the lea	ture
Others (office hour, etc	.))
Office hours] (reception of q	uestions, etc.) To be indicated during the lecture
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		[Regarding studies out of class (preparation and review)]									
(Others (office hour, etc.))											
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建築設計論**(2)**

<english></english>	建築設 Archite	H 1 H.4	ign Method	c	Affiliated lepartment lob title,Na	, Pro	ol of Engineering ATA AKIHISA ol of Engineering r,MAEDA MASAHIRO			
Target ye	ar 2nd y	year students o	or above Number	of credit	s 2	Cours year/p	e offered eriod	2019/First semester		
Day/perio			Class style	Lecture			Language	Japanese		
[Outline and Purpose of the Course]										
Practitioners of architectural design must have the architectural creativity to bring together knowledge from various fields in an integrated manner and present a complete, new picture. At the same time, creative thinking is needed to position architecture within a dynamic relationship with reality and turn concepts into reality. This course will discuss ways of thinking and examples that underly these capabilities from three perspectives of architectural design: frameworks/reality/actuality.										
[Course G	ioals]									
B. Expertise architecture	and Bas	sic Knowle	edge, B2. The ab	ility to uno	derstand t	he desig	n and plann	ing aspects of		
[Course S	chedul	e and Co	ontents]							
Architectural Design Frameworks - 5 classes: We will untie the ideas and heuristic viewpoints behind architectural various examples, including non-architectural examples. Reality in Architectural Design - 5 classes: We will discuss occurences in actual architectural design and at the construction site, with abundant examples. Actuality in Architectual Design - 4 classes: We will consider what architectural design is capable of bringing about in the real world, based on real world examples. Student Assessment - 1 class: Assessment of learning achieved. [Class requirement] None [Method, Point of view, and Attainment levels of Evaluation] Based on attendance and evaluation of written reports [Textbook] 『建築とは からまりしろ をつくることである』(LIXIL出版社))										
[Textbook]		ation of written 1	reports		-)			
[Textbook 『建築とは [Reference] はから e book	まりしろ s, etc.]	ation of written 1	reports		-)			
Textbook 『建築とは [Referencd (Referencd 『Discover 『JA108 Al 『20XXの3 『建築家の] e book nce boo ing New kihisa H 建築原現 D読書術	まりしろ s, etc.] oks) 平田晃久 IRATA 2(聖へ』(II 5』(TOT	ation of written i をつくること R建築作品集』 017-2003』(新 NAX出版)	reports こである』 (TOTO出 建築社)	(LIXIL	-)			

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Course title <english></english>		「設計学 an Planning				dep	iliated partment p title,Na	, Pr Gr A	Graduate School of Global Environmental Studies Professor, KOBAYASHI HIROHIDE Graduate School of Global Environmental Studies Associate Professor, OCHIAI CHIHO			
Target ye	ar	3rd year students o	r above	Number	of cred	its	2		se offered period	2019/First semester		
Day/perio				s style	Lecture	•			Language	Japanese		
[Outline a	nd I	Purpose of t	he Co	ourse]								
[Course G	ioal	sj										
[Course S	che	dule and Co	ontent	is]								
[Class req	luire	ement]										
None												
[Method, I	Poir	nt of view, ar	nd Att	ainment	levels	of E	valuat	ion]				
[Textbook	4]											
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(Referei	nce	books)										
[Regardin	g st	udies out of	i class	s (prepara	ation a	nd ı	review)]				
(Others (offic	ce hour, etc.))									
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Numbering	g code										
Course title <english></english>		備システ g Systems		ems		Affiliated departme Job title,	ent, Name	Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Associate Professor,ISHIDA TAIICHIROU Graduate School of Engineering Associate Professor.IBA CHIEMI			
Target ye	ear Brdy	ear students	or above	Number	of cred	lits 2		ourse ear/pe	e offered eriod	2019/First semester	
	r/period Thu.1 Class style Lecture Language Japanese								Japanese		
[Outline and Purpose of the Course]											
[Course G	ioals]										
[Course S	chedul	e and Co	onter	nts]							
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,3times, .2times,											
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[Class red	quireme	ent]									
None											
[Method,	Point o	f view, a	nd A	ttainment	levels	of Evalu	atio	n]			
[Textbook	(]										
[Referenc	e book	s, etc.]									
(Refere	nce bo	oks)									
[Regardin	g studi	es out o	f clas	ss (prepar	ation a	nd revie	w)]				
(Others (office h	our, etc.))								
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Numbering	g co	de												_
Course title <english> Steel Construction I</english>						department, lob title Name Professor,IK Graduate Sc				fessor,IKEI duate Scho	ention Research Institute EDA YOSHIKI ool of Engineering fessor,KOETAKA YUUJI			
Target ye	ar	3rd year students	or above	Number	of cred	lits	2			e offered eriod	201	9/First	semest	.er
Day/perio	d 1	Гhu.2	Cla	ss style	Lecture	е				Language	Japa	inese		
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[Course G	ioal	s]				_		_						
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[Textbook	4]													
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(Refere	nce	books)												
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		ce hour, etc												
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Numbering c	ode										
	Course title <english> Beinforced Concrete Structures I</english>								Profess Gradua Associa	or,NISH te Scho te Profe	ol of Engineering HYAMA MINEHIRO ol of Engineering ssor,TANI MASANORI
Target year	3rd y	ear students	or above	Number	of cred	lits	2		ourse of ar/perio		2019/First semester
Day/period Fri.2 Class style Lecture Language Japanese										Japanese	
[Outline and	Pur	pose of t	the C	ourse]							
[Course Goa	als]										
[Course Sch	edul	e and Co	onten	its]							
,2times, ,3times, ,3times, ,3times, ,3times, ,1time,											
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None											
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[Textbook]											
[Reference											
(Referenc	e boc	oks)									
[Regarding	studi	es out o	f clas	s (prepar	ation a	nd	review)]			
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Numbering	g co	de												
Course title <english></english>	~~~	築生産 I nstruction Engir	neering and Manag	ement I	dep	iliated partment p title,Na		ne Professor, KANETA TAKASHI						
Target ye	ar	2nd year students of	or above Number (of cred	lits	2		urse offered ar/period	2019/First semester					
Day/perio		Wed.1	Class style	Lecture	e			Language	Japanese					
[Outline a	nd	Purpose of t	he Course]											
			a building constr ning, architectura											
[Course G	ioa	ls]												
To acquire t B-B2.	[Course Goals] To acquire the knowledge on building construction process. B-B2.													
[Course S	iche	edule and Co	ontents]											
1. Introducti	ion													
			eering and manag	ement.										
		es of the lectur	es.											
Textbook C														
2. Construct														
Textbook C			and overseas. Ac	nvities	and	voiume	S OI	construction n	larket.					
3. Regulatio														
			fessionals in buil	ding co	nstri	uction								
Textbook C			icononano ini oun	ung co.		ienom.								
4. Building														
			adards, jobs and r	oles tha	t are	involv	ed w	vith building co	onstruction projects.					
			tracts, procurement					e	1 5					
Textbook C														
5-6. Project														
			nt in building con	struction	n.									
Textbook C														
Project pl					c									
managemen		and phases. Pl	roject planning, b	riering,	reas	ibility s	tuay	y, programming	g, development					
Textbook C		stor 6 6 1												
		project proces	s											
				a constr	ructi	on proj	ect.	Cost managem	ent, design review,					
			ity survey, value					0						
		oter 6, 6.2-6.3		-	-									
11. Engineer														
			ample, design rev	iew, cor	ncur	rent eng	inee	ering, collabora	tion in design,					
		gn, value engir	ieering.											
Textbook C														
12. Cost ma	nag	ement												
								Continue to	o建築生産 I (2)					

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Quantity survey and cost estimation. Cost control through design process.	- 1
Textbook Chapter 6, 6.5	
13. Procurement and contract	
Variety of procurement and contract for building projects. Supervision of construction and inspection.	
Textbook Chapter 6, 6.6-6.7	
14. Maintenance	
Maintenance in the age of global ecology. Demolish and waste treatment. Reuse and recycle of material.	
Textbook Chapter 6, 6.8	
15. Final examination/ Learning achievement evaluation	
16. Feedback	
[Class requirement]	
Social science and economics taught in High School.	
[Method, Point of view, and Attainment levels of Evaluation]	
Absolute evaluation (raw score)	
Evaluation will be based on active participation and the examination.	
* *	
[Textbook]	
Shuzo FURUSAKA 『KENCHIKU-SEISAN』 (Riko Tosho) ISBN:978-4-8446-0863-9	
[Reference books, etc.]	
(Reference books)	
introduced during class	
[Regarding studies out of class (preparation and review)]	
Read the text book before and after the lecture.	
(Others (office hour, etc.))	
Contact to:	
kaneta@archi.kyoto-u.ac.jp	
*Please visit KULASIS to find out about office hours.	

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

[Class requirement] None

[Method, Point of view, and Attainment levels of Evaluation]

Term examination

[Textbook]

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

[Reference books, etc.]

(Reference books)

[Regarding studies out 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

(Others (office hour, etc.)) Office hour: Before and after the class

*Please visit KULASIS to find out about office hours.

Numbering	g code										
Course title <english></english>	Course title 建築構 <english> Mechai</english>		構造力学III hanics of Building StructuresIII					t, ime	Graduate School of Engineering Professor, TAKEWAKI IZURU Graduate School of Engineering Professor, OOSAKI MAKOTO Graduate School of Engineering Associate Professor, Graduate School of Engineering Assistant Professor, KOHEI FUU Graduate School of Engineering Assistant Professor, KIMRA TOSI		
Target ye	ar 31	ar 3rd year students or above Number of credits 4 Course offered year/period					2019/First semester				
Day/perio	d Tu	e.2,Wed.2	Cla	ss style	Lectur	e				Language	Japanese
	atrix n	nethod for st	ructui	al analysis.	Princip	les	of virtua	al w			ment method (stiffness methods. Fundamental
[Course G	ioals]										
Study force addition stud											ructural analysis. In
[Course S	ched	ule and Co	onten	its]							
Fundamenta Frame analy Moment dis Moment dis Three-dimen	sis mo tributi tributi nsiona	odel and gov on method, on method v l frame, 2 cl	ernin 1 clas vithou asses,	g equation f s, it nodal late	for slope	e-de lace	flection ment.	met	hod		
Plane frame building fra		equal horizo	ontal o	displacemer	nts. Shea	ar fo	orce dist	ribu	tion	formula. St	ructural design of
Displacemer Member stif mid-span los	fness					for	truss and	d me	ome	nt-resisting	frame. Treatment of
Principles of Principle of force. Unit v	virtua	l displaceme	nt. U		isplacer	nen	t methoo	d an	d sti	ffness meth	od. Principle of virtual
Principles of Stationary a					ential er	nerg	y and co	omp	leme	entary energ	y.
Plastic limit Load-deform								ic h	inge	, plastic col	lapse, virtual work
									C	ontinue to	建築構造力学III(2)

Numbering		ada									*		
	Seminar of Practice in Architectural Environmental Engineerin					Affiliated department, Job title,Name			Graduate School of Engineering Professor,TAKANO YASUSHI Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Associate Professor,ISHIDA TAIICHIRC Graduate School of Engineering Associate Professor,OTANI MAKOT Disaster Prevention Research Institut Associate Professor,NISHINO TOMOAI Graduate School of Engineering Associate Professor,IBA CHIEMI Graduate School of Engineering Associate Professor,IBA CHIEMI				
Target ye	ar	4th year students of	or above	Number	of cred	its	2	Cou	urs	e offered eriod	2019/First semester		
Day/perio	d	Wed.1,2	Cla	ss style	Semina	ar				Language	Japanese		
Engineering For each top	in ic,		amp I sign p	, and to dev problems ar	elop ca	pab	ility in a	pply	ing	the knowle	vironmental edge to real projects. e the problems by their		
[Course G		-											
their mutual Capability ii	rel 1 ui	ashionships. Co	orresp	onding goa	ls for ed	luca	tion of a	lepa	rtm	ent are; A: g	g in architecture and global capability, A2: l skills, C1: Capability		
-		edule and Co											
HVAC syste Building acc lighting and	em, cou col teri	stics,3times, lor,1time, istics and dayli	ghting	,1time,									

ventilation and smoke control for evacuation,2times,(1) Basic subjects on ventilkation design such as Velnouille#039s for mula, pressure difference, friction coefficients, wind pressure coefficients, newtral plane height. (2) Smoke control design for escape from fire in a building

" special lecture and/or site visit, ltime,Special lecture or site visit are to be planned to introduce design and construction of environmental control systems of real building projects. ,1time,

The participants are required to study Building Systems Design (40180), Environmental engineering in Architecture I (40090) and II (40100) prior to join this course. In addition, the knowledge on Building Systems Design (40180), Urban Environment Engineering (40520), Lighting and Acoustics in Architecture (40320), Thermal Environment Design of Architecture (40600) is desirable.

[Method, Point of view, and Attainment levels of Evaluation] Score is evaluated based on reports and participation.

[Textbook]

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

[Reference books, etc.] (Reference books)

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

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours.

建築計画学II(2)

[Textbook]

Classes will make use of printed handouts and projected slides. Subjects will be given written reports to be completed outside class, with corresponding presentations in class.

Appointments can be made by email.

[Reference books, etc.] (Reference books)

Introduced during class

Numbering code

[Regarding studies out of class (preparation and review)]

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

(Others (office hour, etc.))

Appointments can be made by email

*Please visit KULASIS to find out about office hours.

Numberin	g coo	de								
Course title <english></english>		結一回学II nitectural Plan	nning	П		de	iliated partment p title,Na		Graduate Scho Professor,MIU	ol of Engineering IRA KEN
Target ye	ear	4th year students (or above	Number	of cred	lits	2		urse offered ar/period	2019/First semester
Day/perio	od V	Ved.3	Cla	ss style	Lectur	e			Language	Japanese
[Outline a	ınd F	Purpose of t	he C	ourse]						
and design. the relations planning an of thought is architectura such as the	In ot ship b d des n the l plar behav	her words, this between huma ign of a living theory and puning based o vioral and cog	is clas ins an g envi ractice n the gnitive	s provides a d their envi ronment (th e of archited study of hun e sciences),	an outlir ronmen nat inclu ctural pla man-env and hov	ne of t, an des anni viror v to	methoo d using architec ng, we ument in apply th	ds fo that ture will ntera nis a	or observing, rea evaluation as t). After an initi- explain a new a action (which in pproach to plan	al overview of schools
[Course C To foster the		-	o desi	ign architec	tural spa	ace l	based or	ı the	e interactions of	humans with their
environmen	t	•		0	1					
C. Practical		-								
C1. The abi	nty to	o create build	ings.							
[Course S	Sche	dule and Co	onten	its]						
position of e nature, role,	enviro , and	onmental psy	cholog rchite	gy and envi ctural plann	ronment ing. Stu	tal b	ehavior	rese	earch, after an o	an explanation of the overview of the social problems that exist in
[Class red	quire	ement]								
None										
[Method,	Poin	t of view, a	nd At	ttainment	levels	of E	valuat	ion]	
Based on w	ritten	reports (50 ⁴	%) a	ind final exi	aminatio	on (50%)			

Course title <english></english>	~~~~	登生産II struction Engin	eering	and Manage	ement II	de	iliated partment b title,Na	, Pro	ofessor,KAN	ol of Engineering IETA TAKASHI urer,KIUCHI TOSHIO
Target ye	ar	3rd year students o	r above	Number	of cred	lits	2	Cours year/p	e offered eriod	2019/Second semester
Day/perio				ss style	Lecture	e			Language	Japanese
[Outline a	nd F	Purpose of t	he C	ourse]						
Planning and management method in building construction project will be explained. Construction management and construction technology, integrated with information and communication technology, will be also explained with the latest project reports.										
[Course G	ioal	s]								
To acquire t C-C1.	he ba	asic knowledg	e on s	supervision	and cor	istru	iction m	anagem	ent.	
[Course S	che	dule and Co	onten	ts]						
Constructio Textbook C 2-6. Plannin Constructio Textbook C 7-8. Manage Project tear Textbook C 9. Project m Building In Textbook C 10-14. Cons Constructio Taught by ^V Textbook C	[Course Schedule and Contents] 1. Introduction Construction process based on drawings and specifications. Textbook Chapter 7 2-6. Planning and management. Construction planning and management. Considering schedule, quality, cost, safety, environment. Textbook Chapter 8, 10, 10.1-10.4 7-8. Management method Project team design, information and reporting system, procurement system, Value engineering. Textbook Chapter 10, 10.5-10.6 9. Project management and ICT Building Information Modeling and other applications. Textbook Chapter 10, 10.7-10.8 10-14. Construction Control Construction planning and control. Taught by Visiting Lecturer Kiuchi. Textbook Chapter 9, 11 15. Final examination/ Learning achievement evaluation 16. Feedbook									
[Class rec	luire	ement]								
Requested to	o ma	ster "Construc	ction I	Engineering	g and Ma	anag	gement I	" in adv	ance.	
[Method,	Poin	t of view, a	nd At	tainment	levels	of E	Evaluat	ion]		
		ion (raw score								
Evaluation v	vill t	be based on ac	tive p	articipation	and the	e exa	aminatic	n.		
'										

Continue to 建築計画学II(2)

[Textbook]	
Shuzo FURUSA	A ^P KENCHIKU-SEISAN _a (Riko Tosho) ISBN:978-4-8446-0863-9
[Reference bo	ks, etc.]
(Reference Introduced durin	
[Regarding st	dies out of class (preparation and review)]
Read the textboo	before and after the lecture.
(Others (offic	hour atc.)
Contact to: kaneta@archi.k	
Contact to: kaneta@archi.k	to-u.ac.jp

Theory of Architecture Graduate School of Engineering Associate Professor, TAJI TAKAHIRC <English> .loh title Nam Course offered year/period Target year Brd year students or above Number of credits 2019/First semester Day/period Wed.3 Class style Lecture Language Japanese [Outline and Purpose of the Course] Through an inspection of discourse concerning architecture, this course will investigate a range of architectural theory. This course will describe the historical significance of architecture as a discourse, and the potential for its reflection back on architectural behavior, while taking up the architectural theory of architects such as Vitruvius, Alberti, and Piranesi, and the architectural theory of philosophers such as Plato Val#233rv, and Derrida (Takevama). 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)

departm

[Course Goals]

Numbering code

Course title

建築論

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

Topics and Methods in Architectural Theory - 1 class: The scope of architectural studies is thought to have two phases (the production and reception (use) of buildings), and three standards (empirical, theoretical, and ideal). This lecture will consider the position of architectural theory within such a scope and examine themes in architectural theory. (Taji) Basic Concepts in Architectural Theory 1 (6 classes): (1) Architecture: This lecture will confirm that the

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

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 discourse of architects and philosophers, and possible reflections back onto architectural behavior. (Takeyama) -----

Continue to 建築論(2)

Graduate School of Engineerin

Professor, TAKEYAMA KIYOSHI

建築論(2)

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

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

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

[Class requirement] None

[Method, Point of view, and Attainment levels of Evaluation]

Evaluation will be based on written reports on given topic

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.

[Textbook]

Instructed during class

[Reference books, etc.]

(Reference books) Introduced during class

To be indicated as appropriate

[Regarding studies out of class (preparation and review)]

Read the material introduced in the class (Others (office hour, etc.))

Office hour: before and after lectures

*Please visit KULASIS to find out about office hours

Numbering	l code										
Course title <english></english>	都市		g Space	in the Reg	ion	Affiliated department Job title,Na	· ,			ol of Engineer IKI KIYOKO	ing
Target ye	ar Bi	rd year students	or above	Number	of credi	ts 2			offered riod	2019/Second	semes
Day/perio	d M	on.4	Cla	ss style	Lecture				Language	Japanese	
[Outline a	nd Pi	urpose of	the Co	ourse]							
concern and contemporation going acti	desig y plan vities tectur g of u	n the physic ming, we co al students,	cal aspe ollabor , it is ne	ects as well ate within a ecessary to	as social and without study the	aspects of out local co ways to d	f the l ommu lesign	livir initi 1 the	ng spaces. S es, while c living spa	Planning, we s Specially in the ooperating wit ces with deep for updating su	e h globa
[Course G	oals										
										of Architecture alture	and
Planning、 I	.Glot	al View for	r Plann	ing、E2. A							and
Planning, H [Course S 1) Building the single s	Glob Ched Contr ite an	al View for ule and Corrol and Deve	r Plann onten elopme eet (his	ing, E2. A ts] ent Control, storic area a	bility to From or ind narro	understand	l glot he re	oal a gior	nd local cu	ılture	
Planning, F [Course S 1) Building the singles Zoning sys Land Use I 2) Micro sc district pla	Glob Contr ite an tems, Planni ale pla n, con	ule and Co ule and Co rol and Deve d facing stra roles, advar ng - urban 1 anning and umunity agr	r Plann onten elopme eet (his ntages, land us design, reemen	ing, E2. A ts] ent Control, storic area a disadvanta e, rural land, , communit ts regulatio	bility to From or ind narro ges d use, nat y identity	understand ne site till t w streets) ural land u y and distri	he re Simu	gior gior	nd local cu n(3 classes) on of the tra)	
Planning, F [Course S 1) Building the singles Zoning sys Land Use I 2) Micro sc district pla district pla Communit	Glob Contri te an tems, Planni ale pla n, con n syster y action	al View for ule and Cev rol and Dev d facing stra roles, advar ng - urban l anning and o munity agr em in Japan on, participa	r Plann onten elopme eet (his ntages, land us design, reemen a and in ation, h	ing, E2. A ts] ent Control, storic area a disadvanta e, rural land , communit ts regulatio a Germany uistory of pa	bility to From or ind narro ges d use, nat y identity n and act	understand ne site till t w streets) ural land u and distri ivities	he re Simu ise ict pla	gior latic	nd local cu n(3 classes) on of the tr 2 classes)) ansition of the	
Planning, F Course S 1) Building the singles Zoning syss Land Use I 2) Micro sc district pla district pla Communit 3) Landscap History of Conservati	Contra Contra tems, Planni ale plan, con a syste y action the de con and	ule and C rol and Deve d facing stro roles, advar ng - urban l anning and d amunity agr em in Japan on, participa I Town scap bates and cd d Creativity	r Plann onten elopme eet (his ntages, land us design, reemen a and in ation, h be (2 c ommun	ing, E2. A ts] ent Control, storic area a disadvanta e, rural land, communit ts regulation a Germany uistory of pa lasses) nity actions	bility to From or nd narro ges 1 use, nat y identity n and act urticipato related I	understand ne site till t w streets) ural land u v and distri ivities ry plannin, Landscape	he re Simu ise ct pla g and disfig	gior latic des gure	nd local cu n(3 classes) on of the tr 2 classes) sign, Machi ment) ansition of the	area
Planning, F Course S 1) Building est Zoning sys Land Use I 2) Micro sc district pla Communit 3) Landscap History of Conservati Landscape 4) Open spa	Contra Contra ite and Planni Ale plan 1 syste 7 actions on any planni ce de clopm	al View for ule and C: role and Deve d facing strr roles, advar ng - urban 1 anning and munity agr em in Japan on, participa I Town scap bates and c d Creativity ing zone, C sign (2 clas ent and ope ent and ope ent and ope	r Plann elopme eet (his ntages, land us design, reemen a and in ation, h be (2 c ommun Conserv sses) en space	ts] ent Control, storic area a disadvanta e, rural lanc, communit ts regulation Germany istory of pe lasses) nity actions ation area c e design, Ed	bility to From or and narro ges d use, nat y identity n and act urticipato related I lesign, H cological	understanc he site till t w streets) ural land u and distri- ivities ry plannin, andscape eritage are design	he re Simu use act pla disfig	gior latic des gure	nd local cu n(3 classes) on of the tr 2 classes) sign, Machi ment	ulture	area
Planning, F Planning, F Course S 2 Doing sys Land Use I 2) Micro sc district pla district pla	Glob Contri tems, Planni ale plan	al View for ule and C . roles, advar ng - urban I anning and c munity agr em in Japan n, participa Town scap bates and c d Creativity ing zone, C sign (2 clas ent and open spaces, Nett open spaces, Nett open space, (c 1 class)	onten elopma eet (his ntages, land us design, reemen a and in ation, h be (2 c commun Conserv sses) en space works , Child	ing, E2, A ts] ent Control, storic area a disadvanta e, crural lanc, communit ts regulatio to Germany istory of pa lasses) nity actions ation area of e design, E4 for the safe ren's partici	From or ind narro ges d use, nat y identity n and act urticipato related I design, H cological ty of the pation, F	understance ne site till (t w streets) : ural land u and distri ivities ry plannin, .andscape eritage are design living spac lay park, ?	l glob he re Simu ise cct pla disfig a, Na ces Maint	gior latic an (2 des gure ntura	nd local cu n(3 classes) n of the tr 2 classes) iign, Machi ment al and Cultu nce and pa) ansition of the idukuri ural Landscape rticipation	area
Planning, F [Course S 1) Building the single s Zoning sys Land Use I 2) Micro sc district pla district pla	Glob Contri ite an tems, Planni ale planni ale p	al View for ule and C . rol and Deve d facing str roles, advar g - urban 1 anning and amunity agr em in Japan munity agr em in Japan to Town scap bates and co d Creativity ing zone, C sign (2 class spaces, Nets open space, ic (1 class) Road Desig (Japan, Ger	onten elopme eet (his ntages, land us design, reemen a and in ation, h be (2 c ommu conserv sses) en space sses) en space commu conserv sses) en space conserv sses) en space conserv sses) en space conserv sses) en space conserv sses) en space conserv sses) en space conserv sses en space conserv sses conserv sses en space conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv sses conserv ss conserv sses conserv sses conserv sses conserv sses con	ing, E2. A ts] ent Control, storic area a disadvanta e, crural lance, communit ts regulation (Germany istory of pa lasses) inity actions ration area c e design, Et for the safe ren's partici (Japan), Pu	bility to From or and narro ges 1 use, nat y identity n and act related I design, H cological ty of the pation, F ublic tran	understand he site till (w streets) - ural land u / and distri- ivities ry plannin, _andscape feritage are design living space living space lay park, ?	l glob he re Simu ise cct pla disfig a, Na ces Maint	gior latic an (2 des gure ntura	nd local cu n(3 classes) n of the tr 2 classes) iign, Machi ment al and Cultu nce and pa) ansition of the idukuri ural Landscape	area
Planning, F [Course S [1) Building the single s Zoning sys Land Use I (2) Micro sc district pla district pla district pla district pla district pla district pla History of Conservati Landscape (4) Open spa Urban dev Parks and 4 Communit (5) Space fo	Colot Contri ite an tems, lanni ale planni ale planni ale planni ale planni ale planni ale planni ce de con and planni ce de con and planni ce de con and con and cona	al View for ule and C . torol and Deve d facing stra roles, advar ng - urban 1 munity agr em in Japan n, participa t Town scap- bates and cc d Creativity ing zone, C sign (2 clas ent and ope spaces, Netto open space, ic (1 class) Road Desig (Japan, Geri Project Desi nt, History of	onten onten elelopme eet (his and us design, reemen and in, konserv sses)	ing, E2, A ts] ent Control, storic area a disadvanta e, rural land, communit ts regulatio a Germany istory of p lasses) nity actions ration area c e design, E4 for the safe ren's partici (Japan), Pu ban Regence al and urban	bility to From or and narro ges I use, nat y identity n and act urticipato related I design, H cological ty of the pation, F ublic tran eration (2 n) land re	understand he site till t w streets) ural land t and distri- ivities ry plannin, andscape eritage are design living spac living spac living spac living spac living space living space	he re Simu use det pla disfig wa, Na wes Maint gn an	gior latic an (2 des gure ntura	nd local cu n(3 classes) n of the tr 2 classes) iign, Machi ment al and Cultu nce and pa) ansition of the idukuri ural Landscape rticipation	area

都市・地域論(2)

(7) Master Plan, Regional Plan (1 class) - Urban planning district master plan, Urban Planning master plan Comprehensive plan for the local government Urban Shrink design, Change of the urban policy, population flame, (8) History of Modern urban planning (1 class)- History of Urban theory History of Planning 9) Home work feed back (1 class) [Class requirement] Jone [Method, Point of view, and Attainment levels of Evaluation] · 2 home works and Examination(at the official examination term) The assignments for 2 home works will be shown during the lectures [Textbook] The prints will be distributed in each time. The pdf files same with the prints will be uploaded on PandA [Reference books, 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) sbn4761531290

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

[Regarding studies out 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.

(Others (office hour, etc.))

[Office hours] every monday, 16:15 - 18:00 (lecture room) Please get in contact by email (kanki@archi. kyoto-u.ac.jp).

*Please visit KULASIS to find out about office hours

建築光・音環境学**(2)**

[Class requirement]

Students must have taken Architectural Environmental Engineering II.

[Method, Point of view, and Attainment levels of Evaluation] Evaluation will be based on final examination scores

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

[Reference books, etc.]

[Textbook]

ntroduced during class

[Regarding studies out 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

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours.

Numbering code Graduate School of Engineerin Professor. TAKANO YASUSHI Affiliated 建築光・音環境学 Graduate School of Engineering Associate Professor, ISHIDA TAIICHIROU Course title Lighting and Acoustics in Architecture <English> lob title,Nam Graduate School of Engir ssociate Professor, OOTANI MAKOTO Course offered 3rd year students or abov Number of credits Target year 2019/First semester Dav/period Mon.1 Class style Lecture Japanese Language [Outline and Purpose of the Course] These lectures will cover the theory and techniques relating to acoustics, lighting, and color (among the

fundamental physical environmental elements to be considered in architectural design for realization of a comfortable and safe environment), and their applications in actual design. In order to take the course, students must have a basic understanding of related topics (covered in Architectural Environmental Engineering II).

[Course Goals]

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

[Course Schedule and Contents]

Measurement and Evaluation of Sound and Acoustic Material - 3 classes: These lectures will explain basic matters relating to the measurement of the physical properties of sound, as well as explaining various acoustic measures in noise and room acoustics and outlining how to measure them. Noise Control Design - 2 classes: These lectures will explain the processes relating to interior and exterior

Noise 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

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 space and color difference, color temperature, and color rendering index.

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

Numbering code Graduate School of Engineering Professor, KANEKO YOSHIO Affiliated 建築構造解析 Graduate School of Engineering Professor, TAKEWAKI IZURU Analytical Methods of Building Structure <English> Job title,Nam Disaster Prevention Research Institute Professor, MARUYAMA TAKASHI Course offered year/period Brd year students or above Number of credits Target year 2019/Second semester Dav/period Wed.2 Class style Lecture Language Japanese [Outline and Purpose of the Course] An elementary outline will be given including the finite element method used for building structural design,

as well as various structural analysis methods, dynamic properties of the building frame and its constituent elements, mechanical properties of planar boards, and the design method.

[Course Goals]

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

[Course Schedule and Contents]

Structural design and structure analysis method (6 times): Lectures will be given on the fundamental and applied structural analysis method utilized in building structure design. First, the characteristics of various structural analysis methods will be introduced, including the finite element method used for building structural design by using actual building design examples. Next, the finite element method will be explained, as well as its basic theory and application, and the analysis accuracy and the application method in actual building structure design will be explained. In addition, the construction and application of a dynamic model necessary for actual structural design will be outlined. Building vibration analysis (4 times): The fundamentals of vibration theory necessary for the vibration

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 joists 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.

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 建築光・音環境学(2)

Building structural mechanics I, II, and III [Method, Point of view, and Attainment levels of Evaluation] The evaluation will be done by the final exams, and the achievement level of the course will be confirmed [Textbook] Not used Not used [Reference books, etc.] (Reference books) introduced during the class [Regarding studies out of class (preparation and review)] To be indicated during the lecture (Others (office hour, etc.)) Office hours] (reception of questions, etc.) It will be indicated during the lectures. *Please visit KULASIS to find out about office hours.	uilding structural mechanics I, II, and III Method, Point of view, and Attainment levels of Evaluation] he evaluation will be done by the final exams, and the achievement level of the course will be confirmed Textbook] ot used ot used Reference books, etc.] (Reference books) ttroduced during class o be introduced during the class Regarding studies out of class (preparation and review)] o be indicated during the lecture Others (office hour, etc.)) Diffice hours] (reception of questions, etc.) It will be indicated during the lectures.	Class require	nent]
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Course title <english></english>		餐基礎構造 lding Founda	巷構造 Foundation Engineering					i, me	Disaster Prevention Research Institu Professor,MATSUSHIMA SHINIC Graduate School of Engineering Associate Professor,KOHEI FUJITA		
Target ye	Target year 4th year students or above Number of cr					Cou				e offered eriod	2019/First semester
Day/perio	d 1	Mon.2	Cla	ss style	Lectur	ure Language Japanese					
[Outline a	nd l	Purpose of	the C	ourse]							
In order to support an architectural structure safely on the ground, it is necessary to evaluate the behavior of the foundation structure supporting that architectural structure and investigate its safety. The behavior of the foundation structure is influenced not only by the foundation structure itself, but also largely by the dynamic											

behavior of the ground. Therefore, this course will first describe the fundamental dynamic characteristics of soil and ground. Then, the behavioral characteristics, the mechanisms and methods of evaluation when a load is applied from the superstructure or the ground to a foundation structure that has been installed on the ground s surface or underground, will be explained.

[Course Goals]

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

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

[Course Schedule and Contents]

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

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

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

Shear Strength of Soil, 2 times, These lectures will explain the shear strength, and active and passive earth pressure of soil. Earthquake Damage to Building Foundation Structures, 2 times, These lectures will explain the

characteristics of building foundation structures when a load is applied, and outline the issues for building foundation structures 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.

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

Continue to 建築基礎構造(2)

建築基礎構造(2)

[Class requirement]

lone

[Method, Point of view, and Attainment levels of Evaluation]

Based on the final examination

[Textbook] Not used

[Reference books, etc.]

(Reference books)

Koji Tominaga ^PBuilding Foundation Strucures ((Morikita Publishing) ISBN:978-4627505117 Koji Tominaga ^PBuilding Foundation Strucures (Ohmsha) ISBN:978-4274214486

[Regarding studies out of class (preparation and review)]

ecommended to prestudy the terminology and review calculation problems

(Others (office hour, etc.))

*Please visit KULASIS to find out about office hours.

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Target ye	ar	3rd year students o	r above	Number	of cred	its	2		rse offered /period	2019/Second semester
Day/perio	Day/period Wed.3 Class style Lectur								Language	Japanese
[Outline and Purpose of the Course]										

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

[Course Goals]

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

[Course Schedule and Contents]

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

Linear response in single degree of freedom systems, 6 classes: After explaining the meaning of modeling a building in a single degree of freedom system, we will discuss equations of motion in single degree of freedom systems and the vibration phenomena indicated by their general and special solutions. Based on single degree of freedom linear systems, theoretical solutions for free vibration and various types of interference (impulse excitation, step excitation, harmonic excitation, etc.) will be given, and we will discuss the ways in which a building 's natural period, damping ratio, and input seismic motion characteristics influence response.

Non-linear response in single degree of freedom systems, 2 classes: We will discuss single degree of freedom 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 analysis. Also, we will discuss the torsional vibration analysis and torsional response characteristics of buildings.

Building response and earthquake-proof design, 3 classes: Mechanisms of the propagation of s from the epicenter to the ground of the building site will be explained, and the seismic motion characteristics of the ground of the building site, as well as their influence on building respons explained in terms of simple wave equations. Next, after describing the basic concept of earth building design based on the dynamic analysis method, we will discuss basic methods of earth building design and their historical development process. Finally, we will take up the topics of and vibration control as means of controlling building response and damage, discussing the ba actual mechanisms underlying these, as well as design methods.	amplification se will be quake-proof iquake-proof f base isolation
Confirmation of learning attainment, 1 lecture: In addition to summarizing the classes, the deg attainment will be confirmed.	gree of learning
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None	
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(Reference books) [Regarding studies out of class (preparation and review)] Review contents of previous classes and quizzes before taking every class. (Others (office hour, etc.)) [Grading] Based on final examination. Attendance and so on are also taken into account.	

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設計演習III(2)
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[Method, Point of view, and Attainment levels of Evaluation]

Grade Assessment Method: Dr. Takeyama's portion of the course: Assessment will be based on short reports given in each class and Dr. Takeyama's portion of the course: Assessment will be based on snort 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.

[Textbook]

*

Numbering code

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

[Reference books, etc.] (Reference books) 竹山聖 [®]独身者の住まい。(廣済堂出版)ISBN:4331509109 竹山聖 [®]ぼんやり空でも眺めてみようか。(彰国社)ISBN:9784395010059 田路貴浩 [®]環境の解釈学。(学芸出版)ISBN:4761523301 田路貴浩 [®]イギリス風景庭園。(丸善)ISBN:4621047817 [Regarding studies out of class (preparation and review)] Read the material introduced in the class. (Others (office hour, etc.)) Office hour: before and after lectures *Please visit KULASIS to find out about office hours.

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[Course S	chec	dule and Co	onten	ts]						in urban i
		nd genesis, 4								U ndersta
									e motion of the earth and nt and topography, etc.	[Course
									tant design of building	General
and structure	e with	the descript	ion of	its origin s	such as typ	hoon o	r torn	ado.	0 0	organiza
Basic of win	d for	ce and pressi	ure 4	lasses.						architect planning
These classe ilso obtain e objects. Wind load, 3	s wil quati 3 clas	l derive the g ons for simp ses:	governi le flov	ing equations and show	w equation	s to ev	aluate	the wind pres	ning of its physics. We ssure on the surface of	Urban Pl. the vario developn Administ
nethod of w	ind s	peed for win	d load						the and the prediction of wind loads for design.	Landscap various s the case
These classe he building	s wil agair		vibrat l, and e	explain the	calculatio	n meth	od of o		e design method to secure oad based on the Building	Architect Administ
		earning attai mmarize the			rm learnin	g attair	iment.			Architec Building
										Exercise related la
										Case Dis
										F
								Continue	to 耐風構造(2)	

耐風構造(2)
[Class requirement]
Architectural Structural engineering, fluid dynamics, meteorology will be useful.
[Method, Point of view, and Attainment levels of Evaluation]
By reports or examination
[Textbook]
No textbook, using notebook.
[Reference books, etc.]
(Reference books) To be introduced during the class
(Related URLs)
(None)
[Regarding studies out of class (preparation and review)]
To be indicated during the lecture.
(Others (office hour, etc.))
[Office hours] (reception of questions, etc.) It will be indicated during the lectures.
*Please visit KULASIS to find out about office hours.

	建築・都市行 Building and 1	亍政 Urban Administra	de	ffiliated epartment ob title,Na	, me ^{Part}	-time Lecture	,YAMAMOTO er,TAKAGI K r,FUMIYAMA
Target yea	ar 2nd year stud	ents or above Numb	er of credits	5 2		e offered	2019/First s
Day/period	Wed.4	Class style	e Lecture			Language	Japanese
This class wil architecture a	ll deepen you ind urban plar	of the Course] r understanding of nning in urban ma s concerning their	inagement, as	well as th	ne nature	e of their res	spective roles
of constructio Understandir in urban mana	ig learning an on activities. ng of the inter agement.	d education objec raction of various systems and outlin	administrative	e organs 1	relating	to architect	ure and urbar
[Course Sc	hedule and	Contents]					
organizations. architectural p planning, desi Urban Plannin the various sy	, main policie personnel), as ign, construct ng Administra ystems related projects, devo	This class will pro- ess of construction s well as an outlim tion, and managem ation - 3 classes: 7 d to urban planning elopment permissi t issues.	and urban pla e of the roles of ment of public These classes g (land use reg	nning adı of admini building will prov gulations,	ministra istrative s. ide a his , district	tions, and a organs and storical and planning, u	view of requ related issue systematic o ırban facilitie
	ms of landsca	- 2 classes: These pe preservation ar well as the role pl	nd formation u	under the	Landsca	ape Act and	l Ordinances
the case of Ky	Administrati	on 2 alassas: The				rical outline	of the Arch
Architectural		ell as the current is	ese classes wi ssues it faces.		e a histo	incur outine	or the riter
Architectural Administratio Architectural	on's role as we Law - 4 class		ssues it faces. will provide a	an outline	of the f	fundamental	l structure of
Architectural Administratio Architectural Building Stan Exercises - 1	on's role as we Law - 4 class adards Act and class: In this	ell as the current is ses: These classes	ssues it faces. will provide a l regulations, a in a basic und	an outline and their erstandin	e of the f operatio g of the	fundamental on in practic Building St	l structure of e. tandards Act

建築・都市行政(2)

administration.

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

[Class requirement]

None

[Method, Point of view, and Attainment levels of Evaluation]

Results of the report examination(75%),Attendant evaluation(25%)

[Textbook]

Listed separately

[Reference books, etc.] (Reference books) To be distributed and introduced during lectures

[Regarding studies out 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.

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours.

Numberin	g co	ode									
Course title <english> Atelier Practic of Architectural Design V</english>							iliated partment o title,Na	ime	Pro Graz Pro Graz Pro Graz Pro Graz Pro Graz Asso Asso Asso Asso Asso Asso Asso Ass	feessor, TAK feessor, TAK feessor, KAN duate Schon feessor, KAN duate Schon feessor, TOM duate Schon feessor, TIU duate Schon feessor, MIR duate Schon feessor, MIA duate Schon sociate Professor, duate Schon sociate Professi duate Schon sociate Professi duate Schon sistan Profesi duate Schon sistan Professi duate Schon sistan Professi du	Global Environmental Studies AYASHI HIROHIDE nition Research Institute (I NORIO) ol of Engineering essor, TAJI TAKAHIRO ol of Engineering r, YANAGISAWA KIWAMU ol of Engineering sosor, YOSHIDA TETSU ol of Engineering or, KOMIYAMA YOSUKE ol of Engineering
Target ye	ear	4th year students o	r above	Number	of cred	lits	3			e offered eriod	2019/First semester
Day/perio	bd	Tue.3,4,5,Wed.5	Clas	ss style	Semina	ar				Language	Japanese
[Outline a	nd	Purpose of t	he Co	ourse]							
[Course 0	ioa	ls]									
[Course S	Sch	edule and Co	onten	ts]							
,29times, ,1time,										ontinue to	

											*
Numbering	g code										
	·								Pro Gra Pro Gra Ass Gra Ass Par Gra	ofessor,KAN aduate Schoo ofessor,NISF aduate Schoo sociate Profe aduate Schoo sociate Profe t-time Lecture aduate Schoo	ol of Engineering IEKO YOSHIO ol of Engineering IIYAMA MINEHIRO ol of Engineering ssor, KOETAKA YUU ol of Engineering ssor, TANI MASANOR er, OHSUMI KAZUMAS. ol of Engineering ssor, SATOU YUUICH
Target ye	ar 4th	year students o	r above	Number	of cred	lits	2		urs	e offered eriod	2019/First semester
Day/perio	d Fri.	4,5	Cla	ss style	Semina	ar				Language	Japanese
[Outline a	nd Pu	rpose of t	he C	ourse]							
10	!-?								_		
[Course G	ioals]										
[Course S	chedu	le and Co	onten	its]							
,2times,				-		_		_	_		
2times, 5times.											
,5times, 6times,											
[Class req	wirem	entl									
None											
[Method, I	Point o	of view, a	nd At	tainment	levels	of E	Valuat	ion	1		
									-		
[Textbook	1										
[Reference	e bool	ks. etc.1		_			_		_	_	
(Referen											
		- /									
[Regardin	a stud	lies out of	clas	s (prepar	ation a	nd	review)1		_	
	3 0.40		0.40	- (p. opu)	u			/1			
(Others (
*Please visit	KULA	ASIS to find	louta	about office	hours.						

設計演習 ∨ (2)
[Class requirement]
None
[Method, Point of view, and Attainment levels of Evaluation]
[Textbook]
[Reference books, etc.]
(Reference books)
[Regarding studies out of class (preparation and review)]
(Others (office hour, etc.))
*Please visit KULASIS to find out about office hours.

Numbering	g code										
Course title <english></english>		材料実験 ry Tests of St	ructural	Mateials and	Members	de	iliated partment b title,Na	, me	Prof Grac Prof Grac Asso Grac Asso Grac Asso Grac Assi Grac	essor,KAN duate Schor essor,NISF duate Schor ociate Profe duate Schor ociate Professo duate Schor stant Professo duate Schor stant Profe	ol of Engineering IEKO YOSHIO ol of Engineering IIYAMA MINEHIRO ol of Engineering ssor, KOETAKA YUUJI ol of Engineering ssor, TANI MASANORI ol of Engineering ssor, SATOU YUUICHI ol of Engineering or, TAKATSUKA KOHEI
Target ye	ar 4th y	ear students o	r above	Number	of cred	lits	2			offered riod	2019/First semester
Day/perio	d Mon	.3,4	Clas	ss style	Experi	men	ıt			Language	Japanese
Outline a	nd Pur	pose of t	he Co	ourse]							
Course G	ioals]										
Course S	chedu	le and Co	onten	ts]							
atimes, time, atimes, atimes, atimes, atimes,											
Class req	luireme	ent]									
one											
Method, I	Point o	f view, ar	nd At	tainment	levels	of E	Evaluat	ion]			
									Co	ntinue to A	舊這・ 귟 料実験[2] ̄ ̄ ̄ ̄
											·~ ···································

構造 · 材料実験(2) [Textbook] [Reference books, etc.] (Reference books) [Regarding studies out of class (preparation and review)] (Others (office hour, etc.)) *Please visit KULASIS to find out about office hours.

Numbering code Graduate School of Engineering Professor HARADA KAZUNORI Affiliated 建築安全設計 Disaster Prevention Research Institute Associate Professor, NISHINO TOMOAKI Course title Fire Safety Design of Buildings <English> Job title,Nam Graduate School of Engine Assistant Professor,NII DAISAKU Course offered 4th year students or abov Number of credits Target year 2019/First semester Dav/period Fri.2 Class style Japanese Lecture Language [Outline and Purpose of the Course] In buildings and urban facilities, various fire safety measures are implimented, even though they are not well ecognized in daily life. In the first half of this course, fundamentals on physical and cheminal aspects of uilding fires are decribed. In the latter half, design methodlogies for fire-safe buildings are desribed. [Course Goals] B1) scientific ability to solve problems, B4) understanding of environmental engineering aspects in architecture, C2) understanding societal role of architecture [Course Schedule and Contents] Introduction, 1 time, The historical fire dizasters are described to show the whole view of fire safety issues of buildings and urban area. Basics of Fire Phenomena,6times,Basic fire phenomena such as ingition, burning, spread, fire plume, initial room fire, flashover and fully-developed stage are described in sequence of fire development. Fire Safety Design of Buildings,7times,7the principles of fire safety of buildings are described in terms of fire compartmentation, smoke control, egress of occupants, fire fighter#039s operation, structural fire resistance design Evaluation of Achievement, 1 time, Achievement on above items will be evaluated [Class requirement] The participants are requested to accomplish Environmental engineering in Architecture I (40090), II (40100) and Building Systems Design (40180) prior to join this course. [Method, Point of view, and Attainment levels of Evaluation] Score is evaluated based on end-term examination and other materials. [Textbook] Kenchiku Kasaino Mekanizmuto Kasaianzen Sekkei (Mechanizm of Building Fires and Safety Design), the Building Center of Japan, 2007 (in Japanese) isbn{}{9784889101461} [Reference books, etc.] (Reference books) Saburo HORIUCHI, Building Fire Prevention, new ed., Asakura Shoten isbn{}{4254266189}// Takeyoshi TANAKA, An Introduction to Building Fire Safety Engineering, The Building Center of Japan, 2002 isbn{}{4889101209}// _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ Continue to 建築安全設計(2)

建築安全設計(2)

Guidebook on performance Verification methods for egress safety, The Housing Bureau of Ministory of Land, Infrastructure and Transportation, Inoue Shoin, 2000 Guidebook on performance Verification methods for fire resistance, The Housing Bureau of Ministory of Land, Infrastructure and Transportation, Inoue Shoin, 2000

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours

Numberin	Numbering code												
Course title <english></english>	建築工学概論<建築> Introduction to Architectural Engineering						Affiliated department, Job title,Name			Graduate School of Engineering Professor,HAYASHI YASUHIRO Graduate School of Engineering Professor,TAKEWAKI IZURU Graduate School of Engineering Professor,NISHIYAMA MINEHIRO Disaster Prevention Research Institute Professor,MARUYAMA TAKASHI			
Target ye	ar	1st year students o	r above	Number of	of crec	lits	2			e offered eriod	2019/Second semester		
Day/perio	Day/period Mon.1 Class sty			ss style	Lecture					Language	Japanese		
[Outline a	nd	Purpose of t	ourse]										
	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												

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

[Course Goals]

*

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

[Course Schedule and Contents]

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

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

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

Seismic design, Soil and foundations, Wooden houses, 3 classes : Our country is a leading earthquake-prone country in the world. It is a very important issue how to design safer buildings anainst earthquakes. The generating mechanism of earthquakes, the seismic ground motion propagation in the soil, and the response of

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 attainment.

[Class requirement]

None

[Method, Point of view, and Attainment levels of Evaluation] Based on the final examination, but attendance is also emphasized.

[Textbook]

Not used

[Reference books, etc.] (Reference books)

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.)) [Office hours] Will be detailed during class.

*Please visit KULASIS to find out about office hours

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Numbering	g co	de									
						de	filiated partment b title,Na	me	Graduate School of Engineering Professor,HARADA KAZUNORI Graduate School of Engineering Associate Professor,ISHIDA TAIICHIROL Disaster Prevention Research Institute Associate Professor,ISHINO TOMOAK		
Target ye	ar	3rd year students of	or above	Number	of cred	its	2			e offered eriod	2019/Second semester
Day/perio	d	Thu.1	Cla	ss style	Lecture	e		_		Language	Japanese
[Outline a	[Outline and Purpose of the Course]										

In the urban area, buildings and public structures are densely located. Majority of human activities are carried out in relation with these structures. Consumption of energy and natural resources are deeply related with the interaction with activities and structures. In this course, lectures will be given on the state-of-the-art of energy and natural resource consumption in relation with urban structures, energy saving strategies, the concept of environmental friendly city/architecture.

[Course Goals]

B1) scientific ability to solve problems, B4) understanding of environmental engineering aspects in architecture, C2) understanding societal role of architecture

[Course Schedule and Contents]

Global environmrnt and sustainable development, 2times, Inter-relations between architectural, urban and global environmrent. Susutainable development, evaluation of environmental impact. Explosion of uban area environmental impact, 1time, History of urban area development, increase in

Explosion of uban area environmental impact, lime, History of urban area development, increase in environmetal polution, energy use and environmental impact. Mechanizm of Heat Island and Countermeasures, Ztimes, The mechanizm and the state-of-the-art of urban

Mechanizm of Heat Island and Countermeasures, Ztimes, The mechanizm and the state-of-the-art of urban warming, often reffered to heat island, are explained. The existing and future countermeasures are to be discussed. The countermeasures are also discussed including cross ventilation of urban district, green vegetation, high albedo surfaces, water mist, district energy management and heat exhaust system. Control of Urban Environment and Architecture, 4times, The efficacy of green vegetation in urban area, improvement of room environment by roof vegetation and examples are explained. The energy saving effect of high reflective materials on building envelope and its shortcomings will be explained. In view of reducing heat release to urban area, the effect of high-performance air conditioning system is described.

Sunlight, Ztimes, The effect of sunlight, calculation of sun position and direct solar luminance, shading control and deregulation by daylight factor are explained.

Use of Renewable Energy in Buildings, 3times, The state of the are of renewable energy and its use in buildings will be explained, such as Zero Energy Buildings.

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

[Class requirement]

The participants are required to study Environmental engineering in Architecture I (40090) and II (40100) prior to join this course. In addition, the knowledge on Building Systems Design (40180) is desirable.

Continue to 都市環境工学(2)

都市環境工学**(2)**

[Method, Point of view, and Attainment levels of Evaluation] Score is evaluated based on end-term examination and other materials.

[Textbook]

None specified. Handouts will be supplied on site.

[Reference books, etc.]

(Reference books) To be suggested during the course

to be suggested during the court

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.))

[Office hour] Opportunity for QampA will be provided during the spare time before and after each lecture. Participants can make appointments for further questions.

*Please visit KULASIS to find out about office hours

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											*
Numberin	Numbering code										
	Course title 行動・建築デザイン論 Affiliated department, Job title,Name Disaster Prevention Research Institute										
Target ye	ear	3rd year students (or above	Number	of cred	lits	2			e offered eriod	2019/First semester
Day/period Tue.4 Class style Lecture									Language	Japanese	
[Outline and Purpose of the Course]											

Outline and Purpose of the Co

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 Goals]

To 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 route, excursion characteristics, prospect and refuge, ordinary and extra-ordinary behavior.

disaster and environmental transition, 3 times, Basic understanding about disaster and build environment will be discussed. And the relationship among disaster, man, and environment will be explained based on environmental transition after disaster.

Disaster and Cities, 3 times, Impact of disaster to cities will be discussed from the view point of behavior and man-environment desgin.

Architcture 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, 2 times, Design scheme for Disaster risk reduction will be explained based on Affordance, and risk communication.

Confirmation of the learning degree, 1 time, Summary of the lecture and evaluation of the learning degree

[Class requirement] None

[Method, Point of view, and Attainment levels of Evaluation] by term-end examination

by term-end examination

Continue to 行動・建築デザイン論(2)

行動・建築デザイン論**(2)**

[Textbook] using handout prints and slides

[Reference books, etc.] (Reference books)

[Regarding studies out of class (preparation and review)]

(Others (office hour, 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.

建築応用数学**(2)**

[Class requirement]

Calculus, mathematical statistics and industrial mathematics are prerequisite.

[Method, Point of view, and Attainment levels of Evaluation]

Final examination

[Textbook]

Katoh, Hokoi, Takahashi, Ohsaki ^PMathematics for architectural engineering, (in Japanese)₂ (Asakura Shoten,) ISBN:978-4-254-11636-6

[Reference books, etc.]

(Reference books)

[Regarding studies out of class (preparation and review)] Explained in the class.

(Others (office hour, etc.))

Please contact teachers in advance when you have questions.

*Please visit KULASIS to find out about office hours.

Numbering	g co	de									
Course title <english></english>		築応用数学 plied Mathema	用数学 Mathematics for Architecture		ture	de	Affiliated department, Job title,Name		Graduate School of Engineering Professor,OOSAKI MAKOTO Graduate School of Engineering Professor,OGURA DAISUKE Graduate School of Engineering Associate Professor,OOTANI MAKOT Disaster Prevention Research Institut Associate Professor,NSHIJMA KAZUYOSH		
Target ye	ar	3rd year students of							se offered period	2019/First semester	
Day/perio	d	Fri.3	Cla	ss style	Lectur	e			Language	Japanese	
[Outline a	nd	Purpose of t	he C	ourse]							
environmer	Applied Mathematics required for understanding architecture such as architectural planning, structural design environmental design is taught. It is aimed that students will acquire the ability to understand and analyze the architecture from mathematical viewpoint.										
[Course G		-									
		rtial differenti ory and statistic				isfo	rm,				
[Course S	che	edule and Co	onten	its]							
architecture 2. Ordinary 3. Ordinary 4. Fourier tr 5. Fourier tr 7. Laplace tr 9. Laplace tr 9. Laplace tr 10. Probabil to analysis of 11. Probabil 12. Calculus 13. Calculus 14. Calculus	(Nis diffe ansf ansf ansf cansf (Og cans (Og cans cansf ity a s of s of tion	shijima) erential equatii erential equatii orm: Applicat orm: Fourier s form: Definitii ura) form: Applicat form: Applicat form: Applicat form: Applicat statistics: I variation: Defi variation: Met variation: Met	on: So on: So ions o eries eries on of I tions t dions t Basics shijim Estima nitior hod o	Jutions to colutions to volutions to volutions to volutions to v of Fourier tr for periodic for aperiodi Laplace transo solutions so solutions so solutions so solutions at of probabila) ation and te a of function f Lagrange f Ritz-Galei	constant- variable- ansform functio ic functio ic function sform, to ODE to parti- lity theo st (Nish nal, and multipli ckin (Oh	-coe coe to a ons (on, and E's. (al di ory, ijim Eul ers ssak	fficient fficient analysis Otani) impulse applica Ogura) ifferenti types of a) er's equa (Ohsaki i)	ODE's ODE's of arc e respo tions of al equ proba ation.	s. (Nishijima) (Nishijima) hitecture (Ot nse, and com- of Laplace tra ations (PDE') bility distribu (Ohsaki)) ani) volution. (Otani) ınsform to analysis of	
		·						,	Continue to	建築応用数学(2)	

Numbering c	ode									
	築情報システ chitectural info	ム学 rmation System		Affiliated department Job title,Na	' D		ol of Engineering ETA TAKASHI			
Target year	3rd year students of	or above Number	of credit	t s 2		se offered period	2019/First semester			
Day/period	eriod Tue.3 Class style Lecture Language Japanese									
[Outline and Purpose of the Course]										
Information mo construction pr			ectured. A	lso researc	h and	development	applied to building			
[Course Goa	lls]									
	To acquire the basic knowledge of operations research, information and communication technology applied in architectural design and planning.									
[Course Sch	edule and Co	ontents]								
Linear program theory. 8-11. Building 12-14. Applica	 8-11. Building information modeling 12-14. Application to architecture and urban engineering 15. Final examination/ Learning achievement evaluation 									
[Class requi	rement]									
Basic knowledg should be mast		tics. quotCompu	tational Pr	actice on A	Archit	ectural Desig	n and Engineeringquot			
[Method, Poi	int of view, a	nd Attainment	levels of	f Evaluat	ion]					
Absolute evalu Evaluation will		e) tive participatio	n and the e	examinatio	n.					
[Textbook]										
Instructed durin	ng class									
[Reference b										
(Reference										
Introduced duri	ng class									
[Regarding s	studies out of	f class (prepa	ration an	d review))]					
Read the mater	ial introduced i	n the class.								
(Others (off	ice hour, etc.))								
Contact to: kaneta@archi.kyoto-u.ac.jp										
*Please visit KULASIS to find out about office hours.										

	日本都市史 isory of Japar	iese Urba	an Space		Affiliated department Job title,Na	¹ D		ol of Engineering /ISHIMA YOSHIAKI
Target yea	1st year studen	ts or above	Number	of credit	t s 2	Cours year/p	e offered eriod	2019/First semester
Day/period	y/period Tue.3 Class style Lecture Language J							Japanese
[Outline and	d Purpose o	f the Co	ourse]					
The objective the housing in								of Japanese cities and e of history.
[Course Go	als]							
				apanese c	cities and h	nousing	and acquire	the basic principles
used to shape								
							xpertise and	Basic Knowledge, B2
The ability to	understand the	e design	and planni	ng aspects	s of archite	ecture.		
[Course Sc	odulo and	Conton	el.	_	_	_	_	
-				6 1	11	<u>,</u>		
ntroduction -				ice of urb	an history)		
Antiquity - 1 o Antiquity - 1 o				floor drug	11:0.00			
Antiquity - 1 c Antiquity - 1 c					migs			
Antiquity - 1 o				uity				
Antiquity - 1 o								
Medieval Era				e Heian c	anital and	Kamak	ura and Hir	aizumi
Medieval Era								
Medieval Era	 1 class: 9, E 		ient of the	Shoin-zui	kuri style			
Medieval Era Modern Era -					kuri style			
	1 class: 10, Fe	ormation	of the cast	le-town	•	yoto, a	nd Osaka)	
Modern Era -	1 class: 10, Fe 1 class: 11, Cl	ormation naracteris	of the cast stics of the	le-town three citie	es (Edo, K			
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Textbook]	
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]本建築学会編『日本建築史図集』(彰国社) isbn{}{9784395008889}	
Deference hooks ato 1	
Reference books, etc.] (Reference books)	
Regarding studies out of class (preparation and review)]	
ead the material introduced in the class.	
Others (office hour, etc.))	
aking questions: questions will be accepted by e-mail at any time.	
Please visit KULASIS to find out about office hours.	

		建築史 ory of Japar	nese Are	chitecture	de	ffiliated epartment ob title,Na	,		ol of Engineering IISHIMA YOSHIA
Target ye	ar	3rd year student	s or above	Number	of credits	5 2		urse offered r/period	2019/Second seme
Day/perio	d W	/ed.1	Cla	ss style	Lecture			Language	Japanese
[Outline a	nd P	urpose of	the C	ourse]					-
The objectiv	e is f	for students	to unde	erstand the	characterist	tics of spa	ice,	technology, an	nd of this architectu d design in Japanese more or less empha
[Course G	oals	5]							
B. Expertise		Basic Knov	vledge	B2. Th	e ability to	understa	nd th	e design and p	lanning aspects of
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Course title <english></english>	建築情報処理演習 Computational Practice on Architectural Design and Engineerin					Affiliated G department, J Job title,Name A A A C			Graduate School of Engineering Associate Professor, YANGISAWA KIWAN Graduate School of Engineering Associate Professor, IBA CHIEMI Disaster Protessor, KURATA MASAHI Graduate Professor, KURATA MASAHI Graduate School of Engineering Assistant Professor, TAKATSUKA KOH Graduate School of Engineering Assistant Professor, TAKATSUKA KOH Graduate School of Engineering			
Target ye	ar	2nd year students o	or above	Number	of cred	its	2		rse offered r/period	2019/Second semester		
Day/perio	dI	³ ri.4,5	Clas	ss style	Semina	ur			Language	Japanese		
[Course Goals] The participants are expected to learn fundamental knowledge for solving numerical problems in architectural engineering using PCs. The course uses a programming language named Python and teaches Branching, Data Types, Data Format, Array, File Reading and Writing, and Sub-routine. The course are intended for B1 Scientific problem-solving skills, and D1 Problem Finding and Solving Skills.												
Types, Data	For	mat, Array, Fi	le Rea	ding and W	/riting,	; lang and S	guage n Sub-rou	ame tine.	d Python and to The course are	eaches Branching, Data		
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建筑桂根如田滨羽(2)	
建築情報処理演習(2)	
[Textbook]	
Not used	
[Reference books, etc.]	
(Reference books) S. Tsuji: Python Start Book, Gijutsu-Hyohron isbn{}{4774142298}	ļ
Architectural Institute of Japan, Information System Committee, De committee, quotIntroduction to Design and Computing - Generation Architectural Forms and Functions using Python	
Other handouts are distributed during lectures and practice.	
[Regarding studies out of class (preparation and review)]]
Review the handouts distributed during the lectures before the pract	tice sessions.
(Others (office hour, etc.))	
*Please visit KULASIS to find out about office hours.	
*Please visit KULASIS to find out about office nours.	

Numbering	g code										
Course title <english></english>		習基礎 Practice of A	m, Basis	Job title,Name			Graduate School of Engineering Professor,HIRATA AKIHISA Part-time Lecturer,HATA TOMOHIRO Graduate School of Engineering Assistant Professor,KOMIYAMA YOSUKE				
Target ye	ar 1st y	ear students o	r above	Number	of cred	lits	2	Co yea	urs ar/p	e offered eriod	2019/Second semester
Day/perio				ss style	Semina	ır				Language	Japanese
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None specif	ied. Hai	ndouts wil	be sup	plied on si	te.						
[Reference	e book	(s, etc.]									
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_	界建築史 story of World	Architecture	de	ffiliated epartment ob title,Na	, ,		ol of Engineering IISHIMA YOSHIAKI			
Target year	1st year students of	year students or above Number of cred				rse offered r/period	2019/Second semester			
Day/period	Mon.3									
This course will Rome, as well a students an und background, an have set the con [Course Goz B. Expertise an B2. The ability [Course Sch Europe - 8 clas Renaissance an China - 4 classs Imperial palace	[Outline and Purpose of the Course] This course will discuss the history of predominantly European architecture, with its origins in Greece and Rome, as well as Eastern architecture that has a close relationship with Japan. The objective is to give students an understanding of architectural diversity, the relationship between political systems, cultural ackground, and architectural space, and how architectural characteristics and trends of thought in each era nave set the course of modern architecture. [Course Goals] B. Expertise and Basic Knowledge 8. 7. The ability to understand the design and planning aspects of architecture E. International Perspective E1. The ability to position architectural activity in diverse social systems E. International Perspective E1. The ability to understand the design and planning aspects of architecture E. International Perspective E1. The ability to position architectural activity in diverse social systems E. International Perspective Europe - 8 classes: 1-2. Ancient Greece and Rome \\ 3-5. Pre-Romanesque, Romanesque, and Gothic \\ 6-7. Renaissance and Baroque \\ 8. 18th and 19th century architecture Chaiassance and Baroque \\ 8. 18th and 19th century architecture Chinese Buddhist Architecture \\ 11. Chinese religious architecture \\ 12. Chinese Imperial plalace and housing for the people Korean Peninsula - 1 class: 13. Architecture of the Korean Peninsula									
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Course title <english></english>]英語 lish for Archi	tectur	e		de	iliated partment p title,Na	Part-time Lectu	rer,TSOI, Esther
Target ye	ear	4th year students o	or above	Number	of cred	its	2	ourse offered ar/period	2019/First semester

[Outline and Purpose of the Course] Le Corbusier said, in Vers une architecture [Towards an Architecture] (1923)

Class style Lecture

" You employ stone, wood and concrete, and with these materials you build houses and palaces. That is construction. Ingenuity is at work. But suddenly you touch my heart, you do me good, I am happy and I say: This is beautiful. That is Architecture. Art enters in.

Mies van der Rohe said, "God is in the details.", "Less is more.", "Architecture starts when you carefully put two bricks together. There it begins." Mies van der Rohe was originally from Germany and had moved to America. Corbusier was originally from Switzerland and had moved to France. Architecture has local concerns, and yet its influence is global, and sometimes timeless.

Although English does not even have the largest number of native speakers in the world, it is the global working language of arts and science, as well as in international project collaborations. In this class we will ead a number of architectural essays, starting with reading the imaginative Invisible Cities and analysis on Corbusier 's works

[Course Goals]

Day/period Thu.4

Able to use basic English for communicating and presenting architectural ideas

A1 Communication ability

A2 Understanding architecture from different perspectives

B2 Understanding architectural design and spatial planning

C2 Understanding how architecture affects society

C3 Acting with correct judgement based on historical and social understanding D2 Having one 's unique viewpoint

E2 Understanding global and local values

[Course Schedule and Contents]

Wk 1

Lecture: Introduction -the different types of English, examples in construction terms. Class activity: Introduction about yourself and your favourite architect/architecture. Homework: Read Invisible Cities (URL below).

Wk 2:

Lecture: Difference between Western and Eastern viewpoints. The physical descriptions of cities, versus concerns about wabi-sabi. Homework: Prepare sketch of one city from " Invisible Cities ", and prepare a short talk about what is so

special and interesting about it. Read Experiencing Architecture (URL below).

專門英語(2)

Wk 3. Lecture: Corbusier and Palladio: Mathematics of an Ideal Villa. Learn some terms on planning. Class activity: Presentation with a sketch on one of the Invisible Cities. Submit your speech and sketch on separate A4-size papers. Homework: Read Mathematics of an Ideal Villa (URL below).

Wk 4:

Lecture: Corbusier: Domino and 5 Points. Learn terms on facade Homework: Read Domino: Archetype (URL below). Homework: Start design sketches of a simple villa based on the theory of 5 points.

Wk 5

Lecture: Architecture and construction terms.

Homework: Finish design of your villa on an A3-size paper, and prepare a short presentation on an A4-size paper. Reference: Francis Ching 's books (URL below) and the DETAIL series.

Wk 6

Lecture: Japanese design and cities presented in English. Class activity: Presentation of the design of your villa based on Corbusier 's 5 points. Submit your speech and sketch

Wk 7

Lecture: Architecture and construction terms -glass and steel. Homework: Fill in the blanks. Reference: Francis Ching 's books (URL below) and the DETAIL series.

Wk 8 Lecture: " From Shinto to Ando ", on Japanese phenomenon Homework: Read From Shinto to Ando (URL below).

Wk 9

Lecture: " Image of the City ' Homework: Read Image of the City (URL below).

Homework: Use figure-ground technique to sketch on a street and junction, or a garden in Kyoto, inspired by "From Shinto to Ando" and "Image of the City". Prepare a short talk and sketch on separate A4-size papers.

Wk 10

Lecture: " Genius Loci Class activity: Presentation of your figure-ground sketch of a street and junction, or a garden in Kyoto. Describe. Submit your speech and sketch. Homework: Read Genius Loci (URL below)

Wk 11: Lecture: Terms on bridge and engineering. Homework: Fill in the blanks, Read Construction History (URL below).

専門英語(3)

Wk 12.

Lecture: Art x architecture. E.g. Michael Heizer, Robert Smithson, Richard Serra, James Turrell, Maya Lin,

Andy Goldsworthy. Homework: Research about an artist, artisan, a writer, or even a religion or culture. Image how you would make an exhibition space of his/her art/craft/another world. Write an introduction on your selected artist/ artisan/writer/religion, and your ideas on how you may site and exhibit the art/craft/another world. Reference Art21 (URL below).

Wk 13.

Language Japanese and English

Lecture: Art x architecture. Review on museums and exhibition spaces, different use of materials and colours Class activity: Introduce your artist and your proposal on exhibition. Homework: Finalize your proposal. How may you, using your expertise and modern sensibility, promote an

exciting new view and experience of the art/craft/another world.

Wk 14:

Class activity: FINAL Presentation and Discussion of your proposal of an exhibition space. Analyze the different situations and concerns between the artist/ artisan/ writer/ religion/ culture with our current world, how you may create an exciting space that helps people to feel and learn more.

No final examination.

The schedule may be subject to change.

[Class requirement]

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[Method, Point of view, and Attainment levels of Evaluation]

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

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

[Textbook]

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

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

Gunter Nitschke, From Shinto to Ando, Academy, 1993

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

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

_____Continue to 専門英語(4)

專門英語(4)

[Reference books, etc.]

(Reference books) heth Frampton, Modern Architecture: A Critical History, Thames and Hudson, 1992. https:// loubleoperative.files.wordpress.com/2009/12/kenneth-frampton_modern-architecture.pdf

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

Le Corbusier, Towards a New Architecture, Dover, 1986

Christian Schittich, in Detail Japan, Birkhauser, 2002.

Graphic Anatomy Atelier Bow-Wow, Toto, 2007.

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

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

(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/1966_Kevin_Lynch_The_Image_of_The_City_book. pdf(Kevin Lynch, The Image of the City, Harvard-MIT Joint Center for Urban Studies Series, 1964.) https://marywoodthesisresearch.files.wordpress.com/2014/03/genius-loci-towards-a-phenomenology-ofarchitecture-part1_.pdf(Christian Norberg-Schulz, Genius Loci: Towards a Phenomenology of Architecture, Academy Editions Ltd. 1980.) https://1drv.ms/b/s!AhVq_riAFrGsgSl7_073rYqfkLCx(Construction History) http://www.icomos-poland.org/pl/?option=com_dropfiles&format=&task=frontfile.download&catid=67&id= 66&Itemid=100000000000(Visual Dictionary of Architecture (by Francis Ching, 2011.)) http://www.east-asia-architecture.org/aotm/index.html(Hand or Machine (by Esther Tsoi, 2012.)) https://art21.org/artists/(Art21 (PBS)) [Regarding studies out of class (preparation and review)] Please read materials from the above URL. Research the meaning of words in advance and at your leisure

(Others (office hour, etc.))

About me: http://linkedin.com/in/kyokoto

Continue to 専門英語(5)

專門英語(5)	Numbering
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[Class requirement]

Xnowledge on Environmental Engineering in Architecture I(40090) and II(40100) are neccessary. In addition. Continue to 建築設備計画法(2)

建築設備計画法(2)

*

it is desirable that the participants have joined the follwoing courses; Building Systems Design(40180), Lighting and Acoustics in Architecture (40320), Urban Environment Engineering (40520), Thermal Environment Design of Architecture(40600).

[Method, Point of view, and Attainment levels of Evaluation]

[Textbook]

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

[Reference books, etc.]

(Reference books)

[Regarding studies out of class (preparation and review)]

(Others (office hour, etc.))

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

*Please visit KULASIS to find out about office hours.

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	詞研究 raduation Th	nesis		de	filiated epartment ob title,Na	" D	Graduate School of Engineering Professor,TOMISHIMA YOSHIAKI			
Target year	4th year stude	ents or above	ove Number of cro		0	Cours year/p	e offered eriod	2019/Intensive, year-round		
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environmental	factors, and	their phy	siological/p	sychologie	al effect	s; to de	velop the ab	ctural technology, ility to provide a Thesis or Diploma		
[Course Goa	als]									
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特別研究 (2)	
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	mitted Graduation Thesis or Diploma Design, grading will be determined as either passed o
	e of achievement will be graded according to whether or not the thesis or design work
	or unique viewpoint and addresses a previously unexamined topic, whether or not it
iemonstrates a v	erifiable method, and whether or not it is expressed effectively and sufficiently.
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