科目コード (Code)	科目名 (Course title)	Course title (English)
10C070	基礎量子科学	Introduction to Quantum Science
10C072	基礎量子エネルギー工学	Introduction to Advanced Nuclear Engineering
10C004	場の量子論	Quantum Field Theory
10C074	量子科学	Quantum Science
10C013	核材料工学	Nuclear Materials
10C014	核燃料サイクル工学1	Nuclear Fuel Cycle 1
10C015	核燃料サイクル工学2	Nuclear Fuel Cycle 2
10C017	放射線物理工学	Radiation Physics and Engineering
10C018	中性子科学	Neutron Science
10C076	基礎電磁流体力学	Fundamentals of Magnetohydrodynamics
10C034	核エネルギー変換工学	Nuclear Energy Conversion and Reactor Engineering
10C037	混相流工学	Multiphase Flow Engineering and Its Application
10C038	核融合プラズマ工学	Physics of Fusion Plasmas
10C078	複合加速器工学	Advanced Accelerator Technology
10C080	原子炉安全工学	Nuclear Reactor Safety Engineering
10C082	応用中性子工学	Applied Neutron Engineering
10C047	放射線医学物理学	Medical Physics
10C084	原子核工学最前線	Nuclear Engineering, Adv.
10C068	原子力工学応用実験	Nuclear Engineering Application Experiments
10C086	原子核工学序論1	Introduction to Nuclear Engineering 1
10C087	原子核工学序論2	Introduction to Nuclear Engineering 2
10W620	医学放射線計測学	Radiation Measurement for Medicine
10i061	先端マテリアルサイエンス通論(4回コース)	Introduction to Advanced Material Science and Technology(4 times course)
10i062	先端マテリアルサイエンス通論(8回コース)	Introduction to Advanced Material Science and Technology(8 times course)
10i063	先端マテリアルサイエンス通論(12回コース)	Introduction to Advanced Material Science and Technology(12 times course)
10i055	現代科学技術特論(4回コース)	Advanced Modern Science and Technology(4 times course)
10i056	現代科学技術特論(8回コース)	Advanced Modern Science and Technology(8 times course)
10i060	現代科学技術特論(12回コース)	Advanced Modern Science and Technology(12 times course)
10i046	実践的科学英語演習Ⅱ	Exercise in Practical Scientific English II
10i057	安全衛生工学(4回コース)	Safety and Health Engineering(4 times course)
88G101	研究倫理・研究公正(理工系)	Research Ethics and Integrity(Scienceand Technology)
88G202	情報科学基礎論	Introduction to Information Science
10C050	インターンシップM(原子核)	Engineering Internship M
10i011	工学研究科国際インターンシップ2	International Internship in Engineering 2
10C063	原子核工学特別実験及演習第一	Experiments and Exercises on Nuclear Engineering, Adv.I
10C064	原子核工学特別実験及演習第二	Experiments and Exercises on Nuclear Engineering, Adv.II
10C089	原子核工学セミナーA	Seminar on Nuclear Engineering A, B
10C090	原子核工学セミナーB	Seminar on Nuclear Engineering A, B

														未更新
Numbering	g coc	le												
Course title <english></english>			子科学 tion to Qu	uantu	m Science		dep	iliated partment b title,Na	t, me	Ass Gra	duate Schoo ociate Profe duate Schoo ociate Profe	ssor,S ol of	SAITOU Enginee	J MANABU ering
Target ye	ar				Number	of cred	its	2	Co	urse	e offered eriod			semester
Day/perio	d F	ri.2		Cla	iss style	Lecture	e				Language	Japa	anese	
[Outline a	nd P	' urp	ose of t	he C	ourse]									
[Course G	boals	5]												
	[Course Schedule and Contents]													
[Course S	[Course Schedule and Contents]													
,9times, ,2times, ,3times, ,1time,														
[Class rec	quire	mei	nt]											
None														
[Method, I	Poin	t of	view, ar	n <mark>d A</mark> t	tainment	levels (of E	valuat	ion]				
[Textbook	(]													
[Referenc	e bo	oks	, etc.]											
(Referei	nce I	000	ks)											
[Regardin	ig st	udie	es out o	f clas	ss (prepara	ation a	nd I	review)]					
(Others (offic	e ho	our, etc.))										
*Please visit	t KU]	LAS	IS to find	l out a	about office	hours.								

														未更新	
Numbering	g coc	le													
Course title <english></english>			² エネル on to Adv		工学 Nuclear Eng	ineering	dep	liated partment title,Na	,		duate Scho fessor,SAS				
Target ye	ar				Number	of cred	its	2			e offered eriod	201	9/First	semester	
Day/perio		ue.2			ss style	Lecture	2				Language	Japa	anese		
[Outline a	nd F	Purp	ose of t	he C	ourse]										
[Course Goals]															
[Course Schedule and Contents]															
,15times,															
[Class red	luire	mer	nt]												
None															
[Method, I	Poin	t of	view, ai	nd At	tainment	levels	of E	valuat	ion	1					
- /										•					_
	_														_
[Textbook															
[Referenc	e bo	oks	, etc.]												
(Reference books)															
[Regardin	g st	udie	s out of	clas	s (prepara	ation a	nd r	eview)]						
	-														
(Others (offic	e ho	our, etc.))											
*Please visit	t KU	LAS	IS to find	l out a	about office	hours.									

Numbering co	ode												
Course title <english> Qu</english>	の量子論 antum Field Ti	heory			dep	iliated partment b title,Na		Assistant Pro Graduate Sci	ofesso nool	of Engineering or,OGURE KENZOU of Engineering MIYADERA TAKAYUKI			
Target year			Number	of cred	its	2		urse offered ar/period	2	2019/Second semester			
Day/period	Thu.2	Cla	ss style	Lecture	e			Languag	e Ja	apanese			
[Outline and	Purpose of t	he C	ourse]										
An introduction	to quantum fi	eld the	eory is pres	ented wi	ith a	in emph	asis	on its mather	natic	cal difficulties.			
[Course Goal	ls]												
Our aim is to un and the infinite			lty of relativ	vistic qu	antu	ım field	the	ory caused by	the	Poincare covariance			
[Course Sche	edule and Co	onten	its]										
1. Introduction													
Free field 2. Special relativ 3. Special relativ 4. Relativistic q 5. Relativistic q 6. Many particle 7. Free field (1) 8. Free field (2) Interaction 9. Classical theo 10. Deformation 11. Wick orderin 12. Time ordere 13. Time ordere 14. Renormaliza 15. Recent topic 1-14. Miyadera,	vity (2) Poinca uantum mecha uantum mecha es Klein-Gordon Weyl algebra ory n quantization ng and microlo ed product ed product and ation es	nics (inics (equat and H	1) Wigner's 2) Irreducit tion Iaag-Kastler nalysis	ble repre		ation of	È Poi	incare group					
[Class requir	ement]												
Analysis, linear		tum m	echanics										
[Method, Poin	nt of view. a	nd At	tainment	levels	of E	Evaluat	ion	1					
exam	,							-					
L									_				
								Continue	to 場	易の量子論 (2)			

場の量子論**(2)**

[Textbook]

Not used

[Reference books, etc.]

(Reference books)

None

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

Clarify what you have learnt and your questions.

(Others (office hour, etc.))

											未更新	
Numbering	j cod	le										
Course title <english></english>		² 科学 ntum Science	1			dep	iliated partment b title,Na	, me	Asso Grad	ociate Profe luate Schoo	ol of Engineering essor,MATSUO JIROU ol of Engineering ssor,MAJIMA TAKUYA	
Target ye	ar			Number	of cred	its	2		ourse ar/per	offered riod	2019/Second semester	
Day/perio	d T	ue.1	Cla	ss style	Lecture	9			L	anguage	Japanese	
[Outline a	nd P	Purpose of t	he C	ourse]								
condensed n mechanisms	natter of be vices	rs, and practic eam-solid into with quantum	cal apperaction	plications fo ons, charact	or nanote terization	echr n tec	nology. chnique	Grea s, ma	at emp ateria	phases are al synthesis	molecules and on fundamental and processing for n will be also	
[Course Goals] Fo provide students to understand fundamental interactions in quantum science.												
To provide s	tude	nts to underst	and f	undamental	interacti	ions	in quar	ntum	n scier	nce.		
[Course Schedule and Contents]												
Interactions between quantum beams and solids,7times,Interactions between quantum beams and solids are described with various formulas. Collisions with nucleus, electronic excitation, defect formation and energy loss will be discussed and related scientific topics, such as discovery of electron will be introduced. Applications of quantum beams,7times,The interactions of quantum beam are widely used for various applications. Material processing and analysis with quantum beams are essential in nanotechnology and quantum beams are also important for diagnostics of diseases and cancer therapy in medical field. Practical applications will be presented with recent progress and challenges. Final examination and report,1time,Evaluation will be given by the contents of the reports and quizzes of the subjects leaned in this course.												
[Class req	_	_										
Solid state p	hysic	cs, Quantum 1	necha	unics(beginr	nerrsquo	s), E	Electron	nagn	netism	1		
		t of view, a]			
Coursework	will	be evaluated	with	attendance a	and repo	rt oi	n subjec	:ts.				
[Textbook	-											
Ion-Solid In Mayer, J. Hi			nental	ls and Appli	ications	(Ca	mbridge	e Sol	lid Sta	ate Science	e Series) M. Nastasi, J.	
[Reference	e bo	oks, etc.]										
(Referer	ice l	books)										
[Regardin	g sti	udies out of	f clas	ss (prepara	ation a	ndı	review)]				
(Others (offic	e hour, etc.))									
*Please visit	KU	LASIS to find	l out a	about office	hours.							

Numbering co	ode												
	材料工学 clear Mate	rials			dep	liated partment, p title,Nai		Graduate Scho Professor,TAK	ol of Engineering AGI IKUJI				
Target year			Number	of cred	lits	2		ourse offered ar/period	2019/First semester				
Day/period	Tue.1	Cla	ss style	Lecture	e			Language	Japanese				
[Outline and	Purpose	of the C	ourse]										
Nuclear fusion reactors and fission reactors present severe challenges such as high temperatures, high pressure, and high radiation fields, and the nuclear materials used in them are selected with reference to various properties. This course describes in detail major nuclear materials such as nuclear fusion reactor blankets, plasma facing materials, reactor pressure vessels, and fuel cladding, as well as other nuclear materials. Also, we hold roundtable discussions to learn about the latest breakthroughs in research and development.													
[Course Goals] The goal of the course is to understand how the performance and safety of systems such as nuclear fusion reactors and fission reactors are related to the properties of materials, and to comprehend trends in materials research for improving performance and safety. [Course Schedule and Contents]													
[Course Sch	edule and	I Conten	its]										
 Fuel (recovera Cladding mate Control mater Moderators (se Coolants (ther Structural mate Nuclear fusion and development hi Structural mate Coil materials Blankets (tritinging) Latest research and development Feedback class, 	ble reserve erial (zircor ial (absorpt cattering cr mal proper erials (press reactor mat story (tokan erials (radi (alloy supe um breedin materials (trends, 5 cl nt, and rela	es, uranium nium alloy ion cross coss section ties, radio sure vesse cerials, 4 c mak, helio oactivation erconduct g materia loss and n lasses: Stu ted questi Review th	n abundance y, corrosion sections, co ons, modera oactivation, els, mechan classes: Give cal, inertial) on, radiation ivity, comp ls, neutron redeposition idents prese on and answ	e ratio, , hydrog ontrol ro ting effi furnace ical pro e an ove as well damage ound su multiplie n, hydrog ent infor wer sess	nucle gen e ds, b ciene type perti- ervie as th es, m perco cation gen i mati- ions	ear cros embrittle ournable cy, diffu es) es, radia w of nu- he below nechanic onduction mater recyclin on they and deb	ss see eeme e po usio atio clea w cc cal j vity rials ig, ti hav	ections, MOX) ent) visons) on length) on damages) ar fusion reactor omponents. properties, effect () s, fuel cycle) ritium inventory we researched on as are held.	n the latest in research				
Feedback class, 1 lecture: Review the reports assigned in class as well as students ' presentations and question and answer sessions.													

核材料工学**(2)**

[Class requirement]

None

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

Grade is based on active participation in class, including question and answer sessions, reports and presentations. Reports will be evaluated based on attainment of goals.

It is required to hand in both reports, and those that show independent thinking will be given high scores.

[Textbook]

In addition, printouts will be distributed in class.

[Reference books, etc.]

(Reference books)

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

None.

(Others (office hour, etc.))

Numbering	j code												
Course title <english></english>		サイクル Fuel Cyc		1		dej	iliated partment b title,Na		Prof Gra	fessor,SASA duate Scho	ol of Engineering AKI TAKAYUKI ol of Engineering sor,TAISHI KOBAYASHI		
Target ye	ar			Number	of cred	its	2			e offered eriod	2019/First semester		
Day/perio	d Wed	.1	Cla	ss style	Lecture	e				Language	Japanese		
[Outline a	nd Pur	oose of t	he C	ourse]									
[Course G	oals]												
[Course Schedule and Contents]													
Introduction Nuclear fuel Actinide che Disposal ma Decomission Recent topic Support,1tin [Class req None [Method, F	,3times, emistry,3 nagemen ning,1tin es,2times ne, uireme	nt,4times, ne, s, ent]	nd At	ttainment	levels	of E	Evaluat	ion	•]				
Toythook	1		_						_				
[Textbook	1												
[Reference	e book	s, etc.]											
(Referer													
[Regardin	g studi	es out o	f clas	s (prepara	ation a	nd	review)]					
	-												
(Others (office h	our, etc.))										
*Please visit	KULAS	SIS to find	l out a	about office	hours.								

Numbering	g co	ode G-EN	G08 7	C015 LJ28								
Course title <english></english>		燃料 サイクル iclear Fuel Cyd		2		dep	iliated partment p title,Na	-		ute for Integrate fessor,YAN		d Nuclear Science Tomoo
Target ye	ar		_	Number	of cred	its	2			e offered eriod	2019/Sec	ond semester
Day/perio				,	Lecture	2				Language	Japanese	
[Outline a	nd	Purpose of	the C	ourse]								
ノイド凝縮 放射化学、 ての管理・	涿 無 保	関わる核燃料 物質の基礎と 機化学、固体 管・処理や、 法へ応用でき	なる 物理 アル	里論と応用 学、金属工 ファ放射体	を論ず 学に関 として	る. する のア	アクチ 基礎事 クチノ	・ノ・ 項 て イ	イド を講	物性化学0 述し,長 ヌ)立場から F命放射性	,関連する 廃棄物とし
[Course G	ioa	ls]										
における電	子	れるアクチノ 秩序による準 材料としての	位形成	成のメカニ	ズム,							
[Course S	ch	edule and C		-								
経て・系軽明・量振・実を・池・緯説燃諸水す電の動固験説放、学を明材相炉る子結も体手明射核修説す料(、。準合加物法す性医到明る(液高)位様え理をる廃薬着	のす・3体速と式、(説。棄な度)	構築(2)に見て、 構築(2)に見て、 大学、 大学、 大学、 大学、 大学、 大学、 大学、 大学	フら こ物れ フ態間ナの研用クチれ 基、る チ)のる構究(チノス)の国前究(チ	イドオオレクション イロション インション イロション イロション イロション イロジェン イロ	D径 F物明 子にす基伝をD用核に 成、し がつるを導説要いに 法溶し 示いア後帯明性つ	物で、説液原 すてク夏にすせる。 説う子 常該チ習関るや	理アの明の炉の磁明ノすす。それクロすの炉の磁明ノるす。の学りです。そうかいのうかいがくないです。そうないがいた。そうでは、このにおいていた。そうで、このにおいていないです。このにおいては、低いいない	的・ こと お。のア射 去性・ こと けいのクす に	一質イ に構し ナ勍分ヶ光 つをド 札造て る起光、や し	収縮や、 間 の て 御 を 用 い を 定 し う 、 数 能 に て 系 数 に て ろ 系 数 に て ろ ろ の ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ	子の充 ケアクケマクティングで説 のた で、 で、 で、 で、 で、 で、 で、 で、 で、 で、	 状況につい ノイドス線 一次原告 一次原告 一次原告 一次原告 一次の 一次の 一次の 一次の 一次の 二次の
[Class rec	lnii	rement]										
None									Co	ntinue to 核炸	数 <u>4</u> サイクル	·工学2(2)

核燃料サイクル工学**2(2)**

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

出席(50点)と期末試験(50点)による.

[Textbook]

C. キッテル、 『キッテル 固体物理学入門 第8版』(丸善)ISBN:978-4621076569

[Reference books, etc.]

(Reference books)

Introduced during class

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

講義資料による予習・復習を充分行うこと。

(Others (office hour, etc.))

Numbering	g cod	de											
Course title <english></english>				nd F	Engineering		dep	iliated partment p title,Na			duate Schoo fessor,KAN	ol of Engineering NO IKUO	
Target ye	ar				Number o	of cred	its	2			e offered eriod	2019/First semester	
Day/perio	d F	ri.3	C	Cla	ss style	Lecture	9				Language	Japanese	
[Outline a	nd F	Purpose	of the	C	ourse]								
[Course G	oals	5]											
	[Course Schedule and Contents]												
[Course Schedule and Contents]													
3times, 5times, 2times, 2times, 1time,													
[Class rec	luire	ement]											
None													
[Method,]	Poin	t of view	w, and	At	tainment l	evels	of E	valuat	ion	1			
-													
[Textbook]												
[Referenc	e bo	oks, et) .]										
(Reference books)													
[Regardin	g st	udies o	ut of cl	las	s (prepara	ation a	nd ı	review))]				
(Others (offic	e hour,	etc.)))									
*Please visit	KU	LASIS to	find ou	ut a	bout office	hours.							

Numbering	g code	G-ENO	G08 5	C018 LJ57									
Course title <english></english>	中性子和 Neutron					dep	iliated partment p title,Na			duate Scho ociate Prof		gineering ASAKI SEIJI	
Target ye	ar			Number	of cred	lits	2			e offered eriod	2019/F	First semester	
Day/perio	d Fri.1		Cla	ss style	Lecture	e				Language	Japane	se	
[Outline a	nd Purp	ose of t	he C	ourse]									
中性子散乱 英語論文を 的とする。												う法の取得も目	
[Course Goals]													
- 基礎科学から応用まで広く使われている中性子の適用例について学ぶ。 英語論文を読み、内容を理解した上で、分かりやすく紹介するスキルを磨く。													
[Course Schedule and Contents]													
第01回 中性子科学とは 第02回 ~ 第08回 中性子源、中性子散乱理論、中性子散乱実験に用いるデバイス等、基礎的な中性子 散乱研究に関する英語教科書の輪読 第09回 ~ 第14回 中性子を用いた種々の技法、中性子干渉、ラジオグラフィ、物性研究など中性子を 用いた研究に関する論文の輪講 第15回 学習到達度の評価 第16回 フィードバック													
[Class red None	luireme	nt]											
[Method, I	Point of	view. ar	nd At	tainment	levels	of E	valuat	ion	1				
論文等の内									-	を以って打	采点する	, o	
[Textbook	[]												
発表で使う	資料はむ	ぁらかじる	め配れ	节する。									
[Referenc	e books	s, etc.]											
[Reference books, etc.] (Reference books) I. I. Gurevich and L. V. Tarasov 『Low Energy Neutron Physics』 (North Holland Publishing Co.) ISBN: 0720401348 その他必要に応じて授業中に紹介する													
[Regardin													
自分の担当	部分の内	内容につい	,1て	事前によく	調査す	るこ	と。教	圓	こ質	問に来るの	のもよい	l _o	
(Others (
*Please visit	t KULAS	SIS to find	l out a	about office	hours.								

Numbering	g cod	le										
Course title <english></english>		電磁流体力 lamentals of 1		etohydrody	namics	Affiliated department, Job title,Name			Professor, YOKOMINE TAKEHIKO			
Target year Number of c						its	2		rse offered /period	2019/First semester		
				Lecture	e			Language	English			

未更新

[Outline and Purpose of the Course]

This course provides fundamentals of magnetohydrodynamics which describes the dynamics of electrically conducting fluids, such as plasmas and liquid metals. The course covers the fundamental equations in magnetohydrodynamics, dynamics and heat transfer of magnetofluid in a magnetic field, equilibrium and stability of magnetized plasmas, as well as illustrative examples.

[Course Goals]

The students can understand fundamentals of magnetohydrodynamics which describes the dynamics of electrically conducting fluids, such as plasmas and liquid metals. Moreover, the students will figure out the applications of magnetohydrodynamics to the various science and engineering fields.

[Course Schedule and Contents]

Liquid Metal MHD,7times,1. Introduction and Overview of Magnetohydrodynamics \\ 2. Governing Equations of Electrodynamics and Fluid Dynamics \\ 3. Turbulence and Its Modeling \\ 4. Dynamics at Low Magnetic Reynolds Numbers \\ 5. Glimpse at MHD Turbulence amp Natural Convection under B field \\ 6. Boundary Layers of MHD Duct Flows \\ 7. MHD Turbulence at Low and High Magnetic Reynolds Numbers Plasma MHD,8times,1. Introduction to Plasma MHD \\ 2. Basic Equation of Plasma MHD \\ 3. MHD Equilibrium \\ 4. Axisymmetric MHD Equilibrium \\ 5. Ideal MHD Instabilities \\ 6. Resistive MHD Instabilities \\ 7. MHD Waves in Plasmas \\ 8. Student Assessment

[Class requirement]

Fundamental fluid dynamics and electromagnetics should be learned prior to attend this lecture.

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

Attendance and two reports

[Textbook]

Handout of the presentation will be provided at the lecture

[Reference books, etc.]

(Reference books)

P. A. Davidson, ldquoAn Introduction to Magnetohydrodynamics,rdquoCambridge texts in applied mathematics, Cambridge University Press, 2001

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

(Others (office hour, etc.))

													ŧ	ミ 更新
Numbering	g cod	le												
Course title <english></english>					学 nd Reactor En	gineering	dep	liated artment title,Na	-		duate Scho ior Lecture			
Target ye	ar				Number	of cred	lits	2			e offered eriod	2019/	/First se	mester
Day/perio	d W	/ed.2	2	Cla	ss style	Lecture	e				Language	Japan	ese	
[Outline a	nd P	urp	ose of t	he C	ourse]									
[Course G	oals	;]												
[Course S	chec	dule	and Co	onten	ts]									
,1time, ,3times, ,2times, ,3times, ,2times, ,4times,														
[Class red	uire	mer	nt]											
None														
[Method, I	Point	t of	view, ar	nd At	tainment	levels	of E	valuat	ion]				
[Textbook]													
[Referenc	e bo	oks	, etc.]											
(Referei	nce k	000	ks)											
[Regardin	g stı	Jdie	s out of	clas	s (prepara	ation a	nd r	eview)]					
(Others (offic	e hc	our, etc.))										
*Please visit	KUI	LAS	IS to find	l out a	about office	hours.								

Numbering	g cod	de									
Course title <english></english>		目流工学 iphase Flow Eng	ng and Its Ap	plication	dep	iliated partment p title,Na	••			ol of Engineering COMINE TAKEHIKO	
Target ye	Target year			Number	of cred	its	2		urse offe r/period		2019/Second semester
Day/perio	od V	Ved.2	Cla	ss style	Lecture	2			Lang	guage	Japanese

[Outline and Purpose of the Course]

Reviewing of the fundamental definition and characteristics of multiphase flows, and to learn the governmental equations and some modelings of the constitutive equations and the current status of the multiphase flows. Moreover, to review and learn the fundamental definition and characteristics of particle flows, and to learn the numerical methods to track the particle laden flows and the particle measurement method.

[Course Goals]

As for the multiphase flows, to learn its fluid dynamics behaviors, governing equations and numerical methods, and finally to discuss its applications to many engineering fields.

[Course Schedule and Contents]

What#039s the multiphase flows?,1time,To review the definitions and fundamental characteristics of multiphase flows.

Governing equation of gas-liquid two phase flows,2times,To learn the governing equation of gas-liquid two phase flows

Modeling of gas-liquid two phase flows,2times,To learn modeling of gas-liquid two phase flows and its constitutive equations

Numerical methods, 3 times, To learn the numerical methods to solve the single-phase and two-phase flows Examples of gas-liquid two phase flow analysis, 1 time, To show some examples of gas-liquid two phase flow analysis

Characteristics of particle flows, 1 time, Review characteristics of particle flows

Fundamental aspect of particle flows, 1time, Explain variables and parameters subjected to interaction between particle and particle and/or particle and flow. Moreover, momentum and heat exchange between phases, i.e., to explain One-way, Two-way and Four-way coupling numerical methods.

Particle methods,2times,Explain numerical method for thermofluid including static particles like a packed bed. Moreover, numerical methods for macroscopic and microscopic particles such as Discrete Element Method.

Measurements of particle characteristics, 2 times, Review several measuring methods of particle characteristics and thermofluid behaviors

Continue to 混相流工学(2)

[Class requirement]

None

混相流工学**(2)**

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

Present a summary of some papers regarding multiphase flows research by using a power point, and then answer several questions made by lecturers. The quality of your presentation and how deep understand your subject are the grading point.

[Textbook]

Handouts of the presentation will be provided in the lecture.

[Reference books, etc.]

(Reference books)

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

(Others (office hour, etc.))

Numbering c	ode								
Course title 杉 <english> Pl</english>		プラズマ of Fusion		nas		Affiliated departmen Job title,Na			ol of Engineering RAKAMI SADAYOSHI
Target year				Number	of cred	lits 2		urse offered ar/period	2019/Second semester
Day/period	Wed	.3	Cla	ss style	Lecture	e		Language	Japanese
[Outline and	Pur	oose of t	he C	ourse]					
[Course Goa	als]								
[Course Sch	edul	e and Co	onten	its]					
,1time, ,2times, ,2times, ,2times, ,1time, ,1time, ,1time, ,1time, ,1time, ,1time, [Class requi None [Method, Po	reme	ent]			levels	of Evalua	tion]	
[Reference	book	s, etc.]							
(Referenc	e boc	oks)							
[Regarding	studi	es out of	i clas	ss (prepar	ation a	nd review	/)]		
(Others (of	ice h	our, etc.))						
*Please visit K	ULAS	SIS to find	l out a	about office	hours.				

Course title <english></english>		合加速器工学 vanced Accele	rator '	Technology	7	dep	iliated partment b title,Na	•		0	ed Radiation and Nuclear Sciences ssor,YOSHIHIRO ISH
Target ye	ar			Number	of cred	its	2			e offered eriod	2019/First semester
Day/perio	d	Wed.3	Cla	ss style	Lecture	è				Language	Japanese
[Outline a	nd	Purpose of t	he C	ourse]							
cool for futur	re n am	uclear sciences	s and one and o	engineering	g. In this	lect	ture, a b	asics	s the	eory of acce	comes a very important elerator physics ous applications of the
[Course G	oal	ls]									
This lecture circular acce			sic aco	celerator the	eory and	to a	attain al	oiliti	es to	o make a pri	imitive design of
[Course S	che	edule and Co	onten	ts]							
Practice of a Non linear b	cce ean	frequency acc lerator designi n dynamics and heck the accon	ng,2ti 1 othe	mes, rs,4times,	2,						
[Class req	uir	ement]									
None											
[Method, I	Poir	nt of view, a	nd At	tainment	levels o	of E	Evaluat	ion]]		
Reports on p	rac	tical issues and	l subje	ects.							
[Textbook]										
Not used											
-		ooks, etc.]									
	cele	-					0		•		Accelerator, Van
[Regardin	g s	tudies out of	f clas	s (prepar	ation a	nd	review)]			
特になし											
(Others (offi	ce hour, etc.))								

(Others (office hour, etc.))

Numbering	code										
		安全工学 · Reactor S	afety	Engineerin	g	de	filiated partment b title,Na	, me	Pro Instit Asso Instit	fessor,NAK ute for Integrate ociate Professo ute for Integrate	d Radiation and Nuclear Science AJIMA KEN d Radiation and Nuclear Science r,YAMAMOTO TOSHIHIRO d Radiation and Nuclear Science essor,HORI JIYUNICHI
Target yea	ar			Number	of cred	lits	2			e offered eriod	2019/Second semester
Day/period	d Tue.	2	Cla	ss style	Lecture	e		-		Language	Japanese
[Outline ar	nd Pur	pose of t	he C	ourse]					•		
[Course G	oals]										
[Course So	chedul	e and Co	onten	its]							
,1time,											
,4times,											
,3times, ,5times,											
,5times, ,1time,											
,1time,											
[Class req	uireme	ent]									
None											
[Method, P	Point o	f view, ar	nd At	tainment	levels	of E	Evaluat	ion]		
_									_		
[Textbook]											
[Reference	e book	s, etc.]									
- (Referen		_									
[Regarding	g studi	es out of	clas	s (prepara	ation a	nd	review)]			
(Others (o	office h	our, etc.))								
*Please visit	KULA	SIS to find	l out a	about office	hours.						

											未更新
Numbering	y coc	le									
Course title <english></english>]中性子工学 lied Neutron]	Engin	eering		dep	iliated partment b title,Na		Pro Instit Ass Instit	fessor,KAW ute for Integrate ociate Profe ute for Integrate	d Radiation and Nuclear Sciend /ABATA YUUJI d Radiation and Nuclear Sciend ssor,HINO MASAHIR d Radiation and Nuclear Sciend or,CHATAKE TOSHIYUK
Target ye	ar			Number	of cred	its	2			e offered eriod	2019/Second semeste
Day/perio	d T	ĥu.3	Cla	ss style	Lecture	e				Language	Japanese
[Outline a	nd P	Purpose of t	he C	ourse]							
[Course G	ioals	\$]									
[Course S	che	dule and Co	nten	its]							
, 2 times,											
, 2 times,											
, 3 times, , 4 times,											
, 3 times,											
, 1 times,											
[Class req	Juire	ment]									
None											
[Method, I	Poin	t of view, a	nd Af	tainment	levels	of E	valuat	ion]		
[Textbook	[]					_		_			
[Reference	e bo	oks, etc.]									
(Referer	ice l	books)									
[Regardin	g st	udies out of	clas	s (prepara	ation a	nd	review)]			
(Others (offic	e hour, etc.))								
-		LASIS to find	-	about office	hours.						

												未更新
Numbering code												
			E学物理 Physics	 学			dep	iliated partment p title,Na		Asso Institu Asso Institu	ciate Profess- ite for Integrate ociate Profe ite for Integrate	ed Radiation and Nuclear Science or,SAKURAI YOSHINORI ed Radiation and Nuclear Science essor,TANAKA HIROKI ed Radiation and Nuclear Science ssor,TAKATA, Takushi
Target ye	ar				Number	of cred	lits	2		ourse ar/pe	offered riod	2019/Second semester
Day/perio					ss style	Lecture	9				Language	Japanese
[Outline a	nd P	urp	ose of t	he C	ourse]							
and therapy, ldquopromo therapyrdqu Especially, t	and tion f o. Th he fo ics fo	partion for the ne sco pocus i por the	cle thera ne advance ope of this is put on radiation	py. A ce of 1 is cou the ui ns app	s it covers r adiation the rse is to leanderstandin plied to diag	nany dif erapyrdo rn the fu g for (1) gnosis, (fere quo a inda the 3) th	ent fields and ldqu mental bases one chara	s, th 10qu knov of ph cter	ne impuality wledge hysics ristics	portant sub assurance ge for radia s, biology a s of radiatio	for radiation ation medical physics. and so on for radiation, ons and particle beams
[Course Goals]												
To learn the	fund	amer	ntal knov	vledge	e of medica	l physic	s, m	ainly fo	r ra	diatio	on physics i	in diagnosis and therapy
[Course S	che	dule	and Co	onten	its]							
Fundamenta Radiation m Physics in ra Physics in ra Quality assu	[Course Schedule and Contents] Introduction to medical physics for radiation,1time, Fundamental bilology for radiation,1time, Radiation measurement and evaluation,2times, Physics in radiation diagnosis,4times, Physics in radiation therapy,5times, Quality assurance and standard dosimetry,1time, Achievement Assessment,1time,											
[Class req	uire	mer	nt]									
It is recomm	ende	d to	attend th	e cou	rse, ldquoR	adiation	Me	asurem	ent f	for M	Iedicinerdq	uo, concurrently.
[Method, I	oin	t of	view, ar	nd Af	tainment	levels	of E	Evaluat	ion)]		
Attendance	and r	eport	ts									
[Textbook	[]											
Not specifie	-	ındoı	uts will b	e give	en for each	topic.						
[Reference	e bo	oks	, etc.]									
(Lippincott	dquo Willi	The lams a	Physics of amp Will	kins, I	Baltimore, 2	2003)				gnosi	s, and Man	agementrdquo
[Regardin	g sti	udie	s out of	i clas	s (prepar	ation a	nd	review)]			
(Others (offic	e hc	our, etc.))								
*Please visit	KU	LAS	IS to find	l out a	about office	hours.						

Numbering	g co	de										
Course title <english></english>			L学最前 Engineer		.dv.		dep	iliated partment p title,Na				ol of Engineering sor,TAISHI KOBAYASHI
Target ye	ear				Number	of cred	lits	2			e offered eriod	2019/First semester
Day/perio	d T	Гhu.4		Cla	ss style	Lecture	e				Language	Japanese
[Outline a	nd I	Purp	ose of t	he C	ourse]							
[Course G	Soal	s]										
[Course S	Sche	dule	and Co	onten	its]							
,1time, ,13times, ,2times,												
[Class red	quire	emei	nt]									
None												
[Method,	Poir	nt of	view, ai	nd At	tainment	levels	of E	valuat	ion]		
[Textbook	(]											
[Referenc	e bo	ooks	, etc.]									
(Refere	nce	boo	ks)									
[Regardin	g st	udie	es out of	i clas	s (prepara	ation a	nd I	review)]			
(Others (offic	ce ho	our, etc.))								
*Please visi	t KU	LAS	IS to find	louta	bout office	hours.						

											未更新
Numbering	j coc	le									
		力工学応用 ear Engineerin		lication Expe	eriments	-	ated artment title,Na	,		luate Scho IKEI KYO	ol of Engineering IN
Target ye	ar			Number	of cred	lits 2	2		urse ar/pe	offered riod	2019/Year-round
Day/perio				ss style	Semina	ar			I	Language	Japanese
[Outline a	nd P	Purpose of t	he C	ourse]							
[Course G	oals	5]									
•		•									
[Course S	che	dule and Co	nten	tsl							
,1time,											
,10times,											
[Class req	uire	ment]									
None											
[Method, F	Poin	t of view, ar	nd At	tainment	levels o	of Ev	/aluat	ion]		
[Textbook]										
[Reference	e bo	oks, etc.]									
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				1			•		_		
IKegardin	g sti	udies out of	cias	s (prepara	ation a	na re	eview)]			
(Others (offic	e hour, etc.))								
-		LASIS to find	-	about office	hours.						

Numbering	g coc	le							
Course title <english></english>				Engineerin	ng 1	Affiliated departmen Job title,Na			ool of Engineering AKI TAKAYUKI
Target ye	ar			Number	of cred	its 2		urse offered ar/period	2019/First semester
Day/perio	d M	Ion.2	Cla	ss style	Lecture	e		Language	Japanese
[Outline a	nd P	ourpose o	f the C	ourse]					
[Course G	ioals	\$]							
[Course S	che	dule and (Conten	ts]					
,7times, ,7times, ,1time,									
[Class rec	quire	ment]							
None									
[Method,	Poin	t of view,	and At	tainment	levels	of Evalua	tion]	
[Textbook	k]								
[Referenc	e bo	oks, etc.]							
(Refere	nce l	books)							
[Regardin	g st	udies out	of clas	s (prepara	ation a	nd review	/)]		
(Others (offic	e hour, et	t c.))						
*Please visi	t KU	LASIS to fi	ind out a	bout office	hours.				

Numbering	g cod	е									
		核工学序論 duction to N		Engineerin	ng 2	-	ated rtment title,Na				ol of Engineering AKI TAKAYUKI
Target ye	ear			Number	of cred	its 2	2			e offered eriod	2019/Second semester
Day/perio	od M	lon.2	Cla	ss style	Lecture	e				Language	Japanese
[Outline a	nd P	urpose of t	he C	ourse]							
[Course G	boals]									
[Course S	cheo	dule and Co	onten	its]							
,4times, ,9times, ,1time, ,1time,											
[Class rec	quire	ment]									
None											
[Method,	Point	t of view, a	nd At	tainment	levels	of Ev	aluat	ion]		
[Textbook	(]										
[Referenc	e bo	oks, etc.]									
(Refere	nce k	books)									
[Regardin	g sti	udies out of	f clas	s (prepara	ation a	nd re	view)]			
(Others (offic	e hour, etc.))								
*Please visi	t KUI	LASIS to find	d out a	about office	hours.						

Numberin	g code										
Course title <english></english>		射線計測 on Measur		t for Medici	ine	dej	iliated partment b title,Na	t, me	Associ Institut	iate Professo e for Integrate	ol of Engineering r,TSUCHIDA HIDETSUGU d Radiation and Nuclear Science or,SAKURAI YOSHINORI
Target ye	ar			Number	of cred	lits	2		ourse ar/per	offered riod	2019/Second semester
Day/perio	d Fri.2	2	Cla	ss style	Lecture	e			L	anguage	Japanese
[Outline a	nd Pur	pose of t	he C	ourse]							
[Course G	ioals]										
[Course S	chedu	le and Co	onten	ıts]							
Fundamenta Fundamenta Fundamenta Radiation M Radiation D Estimation f Techniques Laws and O Check of Stu	ls for C l Quant easurer osimetr or Dose for Rad rdinanc	hemical En ities and U nents in M y,2times, Distributi iation Con es for Radi	ffects Units for edical on,2ti trol an iation	of Radiation or Radiation l Physics,3ti imes, nd Measuren Therapy,1ti	n Interae n,2times imes, ment in	ction ,	ns,1time	2,	ion Fi	ield,1time,	
[Class rec	luirem	ent]									
None											
[Method,	Point c	f view, a	nd Af	tainment	levels	of E	Evaluat	tion]]		
[Textbook]										
[Referenc	e book	s, etc.]									
(Referei	nce bo	oks)									
[Regardin	g stud	ies out o	f clas	ss (prepara	ation a	nd	review)]			
(Others (office	nour, etc.))								
*Please visi	KULA	SIS to find	l out a	about office	hours.						

Numbering	g co	de										
Course title <english></english>		iマテリアルサー action to Advanced Mate				dep	iliated partment p title,Na	, S	enior Lecture Fraduate Scho	ol of Engineering r,YOROZU KAZUAK ol of Engineering ,KANEKO KENTARO		
Target ye	ar			Number	of cred	lits	0.5		rse offered /period	2019/First semester		
Day/perio	d F	Fri.5	Cla	ss style	Lecture	e			Language	English		
[Outline a	nd F	Purpose of	the C	ourse]								
contribute to the development of modern industries. In this class, recent progresses in material science are priefly introduced, along with selected current topics on new biomaterials, nuclear engineering materials, new netal materials and natural raw materials. The methods of material analysis and future developments in naterial science are also discussed. [Course Goals] To expand your field of vision for material science and to acquire accomplishments to identify the importance of technologies through the classes for developments in material science.												
of technologies through the classes for developments in material science. [Course Schedule and Contents] Topic I Organic Materials Week 1, Tumor imaging and therapy through photoirradiation												
Week 4, Che compounds Fopic II Ino Week 5, Pro	nthes emis - rgan perti	sis of novel pa	etric c	atalysis - sto materials ar	ereosele nd the fu	ectiv uture	e synthe	esis of	opically acti	ve pharmaceutical		
Week 7, The Week 8, Fat Fopic III Po Week 9-10,	eory orica lyme Elec	of precision of tion of inorga eric Materials etrical conduction	cuting, inic na tivity o	grinding, p nofiber by e	oolishing electrosp ed polyn	g and pinn ners	l related ing and app	l prop	erties of mate			
[Class red	uire	ement]										
Each topic consists of four lectures. This course requests to choose one topic from provided three topics in advance. It is prohibited to change the topic after registration. We may select students who can attend the class before starting the class. Students who intend to join the course are required to submit the application form through the web site which will be informed in the advance.												

______ Continue to 先端マテリアルサイエンス通論(4回コース)(2)

先端マテリアルサイエンス通論(4回コース)**(2)**

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

The average score of the best two assignments is employed.

For the topic which the students chose, they must attend minimum three lectures and submit minimum two assignments evaluated as "passed".

[Textbook]

Course materials will be provided.

[Reference books, etc.]

(Reference books)

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

It is prohibited to attend the lectures of the other topics than the students chose.

All the students are requested to attend the guidance which will be held on the first class.

Numbering	code									
	<english> Introduction to Advanced Material Science and Technology (8 times course) Job title, Name Graduate School of Engineering Senior Lecturer, KANEKO KENTAL</english>									
Target yea		Number of cred			lits	1		rse offered /period	2019/First semester	
Day/period Fri.5			Cla	ss style	Lecture	e			Language	English
[Outline ar	nd Pur	pose of t	he C	ourse]						
contribute to priefly introc metal materia material scie	the devuced, a als and nce are bals]	velopment along with natural rav also discu d of vision	of mo select w mate ssed.	odern indust ed current t erials. The r naterial scie	ries. In opics or methods nce and	this n nev s of 1 to a	class, re w bioma naterial	aterial analy	progresses in s, nuclear eng vsis and future plishments to	very closely and material science are gineering materials, new e developments in identify the importanc
[Course S Fopic I Orga Week 1, Tun	nic Ma 10r ima	terials iging and t		-	hotoirra	diati	on			
Week 2, Car Week 3, Syn Week 4, Che compounds - Fopic II Inor Week 5, Proj	thesis of mistry ganic N	of novel pa of asymme Materials	etric c	atalysis - st	ereosele	ctiv	e synthe			ve pharmaceutical
Week 6, App Week 7, The Week 8, Fab Fopic III Pol	lication ory of prication rication ymeric	n of electri precision c of inorgan Materials	cal dis uting, nic na	scharge to r grinding, p nofiber by e	naterial olishing electrosj	and g and pinn	environ l relatec ing	l prop	al technology erties of mate	
Week 9-10, 1 Week 11-12,			•	• •				Jicati	on to organic	Electronics
[Class req	uirem	ent]								
Each topic co This course r It is prohibito We may sele Students who will be inform	equests ed to ch et stude intence	s to choose hange the to ents who ca l to join the	two topics an atte cour	after registr end the clas	ation. s before	star	ting the	class		ough the web site which

______ Continue to 先端マテリアルサイエンス通論(8回コース)(2)

先端マテリアルサイエンス通論(8回コース)**(2)**

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

The average score of the best two assignments for each topic is employed.

For each topic which the students chose, they must attend minimum three lectures and submit minimum two assignments evaluated as "passed".

[Textbook]

Not used

[Reference books, etc.]

(Reference books)

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

It is prohibited to attend the lectures of the other topic than the students chose.

All the students are requested to attend the guidance which will be held on the first class.

Numbering code											
Course title <english></english>	、通論(12回: and Technology (12		department,			Graduate School of Engineering Senior Lecturer, YOROZU KAZUAKI Graduate School of Engineering Senior Lecturer, KANEKO KENTAROU					
Target ye	ar			Number	lits	1.5		urse offered ar/period 2019/First s		2019/First semester	
Day/periodFri.5Class styleLectureLanguageEnglish								English			
[Outline a	[Outline and Purpose of the Course]										
The various technologies used in the field of material science serve as bases for so-called high technologies, and, in turn, the high technologies develop material science. These relate to each other very closely and contribute to the development of modern industries. In this class, recent progresses in material science are briefly introduced, along with selected current topics on new biomaterials, nuclear engineering materials, new metal materials and natural raw materials. The methods of material analysis and future developments in material science are also discussed.											
[Course Goals] To expand your field of vision for material science and to acquire accomplishments to identify the importance of technologies through the classes for developments in material science.											
[Course S	chedul	e and Co	onten	ts]							
[Course Schedule and Contents] Topic I Organic Materials Week 1, Tumor imaging and therapy through photoirradiation Week 2, Carbon nanorings Week 3, Synthesis of novel pai-conjugated molecules with main group elements Week 4, Chemistry of asymmetric catalysis - stereoselective synthesis of opically active pharmaceutical compounds - Topic II Inorganic Materials Week 5, Properties of cementitious materials and the future Week 6, Application of electrical discharge to material and environmental technology Week 7, Theory of precision cuting, grinding, polishing and related properties of materials Week 8, Fabrication of inorganic nanofiber by electrospinning Topic III Polymeric Materials Week 9-10, Electrical conductivity of conjugated polymers and application to organic Electronics Week 11-12, An introduction to smart shape changing materials											
[Class red		_									
Each topic c This course We may sele Students wh will be infor	requests ect stude o intend	to take all ints who ca to join the	l prov an atte e cour	end the clas	s before		-			on form thro	ugh the web site which
[Method, I	Point o	f view, ai	nd At	tainment	levels	of E	Evaluat	ion]		
The average	The average score of the best two assignments for each topics is employed.										

For each topic, the students must attend minimum three lectures and submit minimum two assignments

Continue to 5	―――――――――――――――――――――――――――――――――――――	/サイエンス通論	(12回コース)(2)	

先端マテリアルサイエンス通論(12回コース)(2)

evaluated as "passed".

[Textbook]

Not used

[Reference books, etc.]

(Reference books)

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

	code										
				4回コース) echnology (4 times course)		Affiliated department, Job title,Name			Graduate School of Engineering Senior Lecturer, ASHIDA RIYUUICI Graduate School of Engineering Senior Lecturer, MATSUMOTO RIYOUSUH Graduate School of Engineering Senior Lecturer, MAEDA MASAHIR Graduate School of Engineering Senior Lecturer, YOROZU KAZUAH Graduate School of Engineering Senior Lecturer, KANEKO KENTARC		
Target yea	ar			Number	of cred	lits	0.5		urse offered ar/period	2019/Second semester	
Day/perio	d Thu	.5	Cla	ss style	Lecture	e			Language	English	
[Outline ar	nd Pur	pose of t	he C	ourse]							
	unders n the in	nportance	for en	gineers to h	ave mul					neers. In addition, the and the significance of	
[Course Se	chedu	le and Co	onten	its]							
Topic I Com Week 1-2, L Week 3, CFI	agrangi D in Pro D in Hy	an Meshfr ocess Syste draulic En	ee Me ems E ginee	ethods as Ne ngineering ring	ew Gene	erati	on Com	iputa	ational Tools		
Week 4, CFI Topic II Util Week 5-6, Pl Week 7, Sola	hotoche ar Ener ciency terials Crystal	gy Conver Improvem Analysis Structure A	sion U ent in Analys	Jsing Semic Solar Cells sis by Powe	onducto by Pho r X-ray	toni Diff	c Nano raction	Stru Mea	actures		
Week 4, CFI Topic II Util Week 5-6, Pl Week 7, Sola Week 8, Effi Topic III Ma Week 9-10,C	hotoche ar Ener ciency terials Crystal Princi	gy Conver Improvem Analysis Structure A ples and A	sion U ent in Analys	Jsing Semic Solar Cells sis by Powe	onducto by Pho r X-ray	toni Diff	c Nano raction	Stru Mea	actures		

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

The average score of the best two assignments is employed. For the topic which the students chose, they must attend minimum three lectures and submit minimum two assignments evaluated as "passed". Continue to 現代科学技術特論 (4回コース) (2) 現代科学技術特論(4回コース)(2)

[Textbook]

Course materials will be provided.

[Reference books, etc.]

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

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

It is prohibited to attend the lectures of the other topics than the students chose.

All the students are requested to attend the guidance which will be held on the first class.

Numbering	l code	e								
Course title <english></english>		科学技術特 ed Modern Scien			回コース) chnology (8 times course) Affiliated department, Job title,Name			Graduate School of Engineering Senior Lecturer, ASHIDA RIYUUICHI Graduate School of Engineering Senior Lecturer, MATSUMOTO RIYOUSUKE Graduate School of Engineering Senior Lecturer, MAEDA MASAHIRO Graduate School of Engineering Senior Lecturer, YOROZU KAZUAKI Graduate School of Engineering Senior Lecturer, KANEKO KENTAROU		
Target ye	ar			Number	of cred	its 1		urse offered ar/period	2019/Second semester	
Day/perio	d Th	iu.5	Cla	ss style	Lecture	<u>e</u>		Language	English	
done for furf [Course G The students	her un oals] unde n the	nderstanding	g of th ch tec for en	e topics of t hnology tov gineers to h	the cour wards so have mul	se.	to be	solved by eng	neers. In addition, the tand the significance of	
- Topic I Com	puter- agran D in P D in H izatio hotocl ar Ene cienc	gian Meshfr Process Syste Hydraulic Er on of Light E hemistry of ergy Conver y Improvem	lyses f ree Me ems E ginee Cnergy Orgar sion U	For Fluid ethods as Ne ngineering ring nic Molecul Jsing Semic	es conducto	or Photocata	alysts			

[Class requirement]

Each topic consists of four lectures.

This course requests to choose two topics from provided three topics in advance. It is prohibited to change the topics after registration.

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

The average score of the best two assignments for each topic is employed. For each topic which the students chose, they must attend minimum three lectures and submit minimum two assignments evaluated as "passed".

Continue to 現代科学技術特論(8回コース)(2)

現代科学技術特論(8回コース)(2)

[Textbook]

Course materials will be provided.

[Reference books, etc.]

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

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

It is prohibited to attend the lectures of the other topic than the students chose.

All the students are requested to attend the guidance which will be held on the first class.

Numbering	code										
Course title <english></english>				2回コース echnology (12 tin		de	iliated partment b title,Na	, s me 20 0 0 0 0 0 0	Senior Lecture Graduate Scho enior Lecturer,M Graduate Scho Senior Lecture Graduate Scho Senior Lecture Graduate Scho	ol of Engineering r,ASHIDA RIYUUICHI ol of Engineering IATSUMOTO RIYOUSUKE ol of Engineering r,MAEDA MASAHIRO ol of Engineering r,YOROZU KAZUAKI ol of Engineering ,KANEKO KENTAROU	
Target yea	ar			Number	of cred	lits	1.5		rse offered /period	2019/Second semester	
Day/perio	d Thu.	5	Cla	ss style	Lecture	e			Language	English	
[Outline ar	nd Pur	pose of t	he C	ourse]							
environment and resource. This class introduces cutting edge science and technologies from their backgrounds, research and development, to problems for the practical applications. Group discussions will be done for further understanding of the topics of the course. [Course Goals] The students understand of each technology towards social issues to be solved by engineers. In addition, the students learn the importance for engineers to have multidisciplinary mind and understand the significance of engineering to realize sustainable development.											
[Course So	chedu	e and Co	onten	its]							
Topic I Com Week 1-2, La Week 3, CFI Week 4, CFI Topic II Utili Week 5-6, Pl Week 7, Sola Week 8, Effi Topic III Ma Week 9-10, C Week 11-12,	agrangi D in Pro D in Hy ization notoche ar Energ ciency terials Crystal S Princip	an Meshfro cess Syste draulic En of Light E mistry of gy Convers Improvem Analysis Structure A bles and A	ee Me ems E ginee nergy Organ sion U ent in	ethods as Ne ngineering ring ic Molecule Jsing Semic Solar Cells sis by Powe	es conducto s by Pho r X-ray	or Pl otoni Diff	hotocata c Nano fraction	lysts Struc Meas	tures		
[Class req	uireme	ent]									
Each topic co	onsists o	of four lec	tures.								

Each topic consists of four lectures. This course requests to take all provided three topics.

現代科学技術特論(12回コース)(2)

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

The average score of the best two assignments for each topics is employed. For each topic, the students must attend minimum three lectures and submit minimum two assignments evaluated as "passed".

[Textbook]

Course materials will be provided.

[Reference books, etc.]

(Reference books)

(Related URLs)

http://www.glc.t.kyoto-u.ac.jp/grad(The home page of the engineering education research center)

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

This course requests students to prepare a class in advance becouse some classes will be done by an interactive style as necessary.

(Others (office hour, etc.))

It is prohibited to change the registered course.

Numbering	code												
]科学英語 se in Practi		cientific Eng	glish II	dep	iliated partment p title,Na		Seni Gra Seni Gra Seni Gra Seni Gra	ior Lecturer, aduate Schoo or Lecturer,BEA aduate Schoo sociate Profe aduate Schoo or Lecturer,LA aduate Schoo or Lecturer,LA	ol of Engineering NISHIKAWA MIKAKO ol of Engineering essor,Juha Lintuluoto ol of Engineering UCAMP, Anthony Tadeus Herve ol of Engineering essor,Cedric Tassel ol of Engineering ANDENBERGER, Kira Beth ol of Engineering r,DE ZOYSA , Menaka		
Target ye	ar			Number	of cred	lits	1			e offered eriod	2019/Second semester		
Day/perio	d Mo	n.5	Cla	ss style	Semina	ar				Language	English		
[Outline a	nd Pu	pose of t	the C	ourse]									
This course i	s open	to all mast	ter and	d doctoral er	ngineeri	ng s	tudents	•					
The aim is to	'he aim is to enhance students' abilities to disseminate scientific findings to a wider audience in English.												
Throughout the course, feedback will be given to the presenter by different instructors specialized in													
Engineering.													
[Course G	oals]												
Throughout	the cou	rse, studen	its are	expected to	deliver	an o	oral pre	sent	atio	n about thei	r research three times.		
In each class presentation									tude	nts in the cl	ass) will deliver an oral		
After each pr min).	resenta	tion, the au	ıdienc	e, and the in	istructor	r(s) i	in the cl	lass	will	give some	meaningful feedback (5		
In addition, e and can write	-			-			can moi	nito	r the	progress by	v watching own video		
In addition, v	we will	have poste	er pres	sentations so	chedule	d at 1	the end	of t	he c	ourse.			
[Course S	chedu	le and Co	onten	its]									
The course is	s const	tuted of th	ree m	ain parts:									
A lecture is § 1. Presenting	The course is constituted of three main parts: Part 1. Introduction to Effective Presentation A lecture is given on how to prepare an effective presentation including: 1. Presenting with purpose, 2. How to organize your message, 3. How to use transitional words and phrases, and 4. What to do for Questions and Answers.												
							· – –		Co	ntinue to 実践			

実践的科学英語演習 (2)

Part 2. Oral presentation (12 classes)

Here are some focal points for each round of oral presentations: 1. Organization: Presentation should be structurally organized and contains information in a logical, interesting sequence which audience can follow, 2. Subject Knowledge: Students should be able to demonstrate the knowledge on the research topic with some degree of confidence, 3. Delivery: Students should be able to deliver a presentation that will merit the audience even if the audience does not come from the same research field.

Part 3. Poster presentation (2 classes)

Here are some criteria for poster presentations: 1. The layout of the information: The sequence of information should be logically organized and easy to follow, 2. A scientific knowledge: The poster should provide content suitable for non-experts, 3. Delivery: Students need to demonstrate knowledge and enthusiasm for their work.

[Class requirement]

This course is held in English. Students are expected to actively engage in class discussions.

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

Evaluation:

20% participation (engaging the Q&As)
10% reflection paper,
10% poster presentation,
60% oral presentations

[Textbook]

Handout materials will be supplied by the instructor.

[Reference books, etc.]

(Reference books)

Donovan, J. (2014). How to deliver a TED talk. Mc Graw, Hill Education.

(Related URLs)

(None)

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

The digital syllabus contains schedule updates, useful tips, and materials (videos). The links to the digital syllabus will be notified during the first day of the course.

(Others (office hour, etc.))

Students who intend to join this course must attend the first class.

Office Hours: (by appointment) nishikawa.mikako7w@kyoto-u.ac.jp (Ext. 2052)

Continue to 実践的科学英語演習 (3)

実践的科学英語演習 (3)

												未更新
Numbering	j cod	le										
Course title <english></english>		:衛生工学(y and Health E			s course)	dep	iliated partment p title,Na	i, me	Profe Agen	essor,HAS	h, Safety and HIMOTO SA h, Safety and Sor, MATSU	ATOSHI Environment
Target ye	ar			Number	of cred	its	0.5		urse ar/pe	offered riod	2019/First s	semester
Day/perio	d T	ue.4	Cla	iss style	Lecture	;			L	Language	Japanese	
[Outline a	nd P	urpose of t	he C	ourse]								
[Course G	oals	5]										
[Course S	chec	dule and Co	onter	ıts]								
,1time, ,1time, ,1time, ,1time,												
[Class rec	Juire	ment]										
None												
[Method, I	Point	t of view, a	nd At	ttainment	levels o	of E	valuat	ion]]			
[Textbook	[]											
[Referenc	e bo	oks, etc.]										
(Referei	nce k	ooks)										
[Regardin	g stı	udies out o	f clas	ss (prepara	ation ar	nd I	review)]				
-		e hour, etc.	-									
*Please visit	: KUI	LASIS to find	l out a	about office	hours.							

Numbering	j code										
Course title <english></english>		ーンシッ ering Inter				dej	iliated partment b title,Na	••			ol of Engineering ssor,MAJIMA TAKUYA
Target ye	ar			Number	of cred	its	2		urse ar/pe	offered eriod	2019/Intensive, Second semester
Day/perio	d Inter	nsive	Cla	ss style	Practic	al tr	aining			Language	Japanese
[Outline a	nd Purp	pose of t	he C	ourse]							
[Course G	oals]										
[Course S	chedul	e and Co	onten	ts]							
"											
[Class req	uireme	ent]									
None											
[Method, F	oint of	f view, ai	nd At	tainment	levels	of E	Evaluat	ion]]		
[Textbook]										
[Reference	e book	s, etc.]									
(Referer	ice boo	oks)									
[Regarding	g studi	es out o	f clas	s (prepara	ation a	nd	review)]			
(Others (-								
*Please visit	KULAS	SIS to find	l out a	about office	hours.						

Num	horina	code
num	bering	coue

		它研究科国際 rnational Inter				dep	iliated partment p title,Na	•			ol of Engineering NISHIKAWA MIKAKO	
Target ye	ar		Number	of cred	its	2			e offered eriod	2019/Intensive, year-round		
Day/perio	d	Intensive	Cla	ss style	Practica	al tr	aining			Language	English	
Coutline of	Poulling and Durnage of the Coursel											

[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 Graduate School of Engineering, or The Department the registrant belongs to.

[Course Goals]

Acquisition of international skills with the training of foreign language. Detailed objectives should be described in each program.

[Course Schedule and Contents]

Overseas Internship, 1 times, The contents to be acquired should be described in the brochure of each internship program.

Final Presentation, 1 times, 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]

Merit rating is performed based on the presentation or the report(s) after the participation in each internship program. Each department is responsible to identify the number of credits to be granted to the student of the department, if the credits are included in the mandatory ones. The Global Leadership Engineering Education Center takes the role to evaluate the credits if the department the student belongs to deals the credits as optional ones. The number of credits to be earned is 1 and 2, respectively to the subjects International Internship in Engineering 1 and 2 depending on the period and the contents of the internship program the students has participated in.

[Textbook]

Not Applicable.

工学研究科国際インターンシップ2(2)

[Reference books, etc.]

(**Reference books**) Not Applicable.

(Related URLs)

(Not Applicable.)

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

Not Applicable.

(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 department 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.

Numbering	g code										
				及演習第一 uclear Engineer		dej	iliated partment b title,Na		Prof Gra	fessor,KAN duate Scho	ol of Engineering INO IKUO ol of Engineering ssor,MAJIMA TAKUYA
Target ye	ar			Number	of cred	lits	4			e offered eriod	2019/Intensive, year-round
Day/perio	d Inter	nsive	Cla	ss style	Experin	men	ıt			Language	Japanese
[Outline a	nd Purj	oose of t	he C	ourse]							
10											
[Course G	ioaisj										
[Course S	chedul	e and Co	onten	its]							
,4times, ,6times, ,10times,											
[Class req	luireme	ent]									
None											
[Method, I	Point of	f view, a	nd At	tainment	levels	of E	Evaluat	ion]		
[Textbook	[]										
[Reference	e book	s, etc.]									
(Referer	nce boo	oks)									
[Regardin	g studi	es out of	f clas	s (prepara	ation a	nd	review)]			
(Others (office h	our, etc.))								
*Please visit	KULAS	SIS to find	l out a	about office	hours.						

Numbering	g code										
				及演習第二 uclear Engineeri		de	iliated partment b title,Na		Pro: Gra	fessor,KAN duate Scho	ol of Engineering INO IKUO ol of Engineering ssor,MAJIMA TAKUYA
Target ye	ar			Number	of cred	lits	4			e offered eriod	2019/Intensive, year-round
Day/perio	d Int	ensive	Cla	ss style	Experi	men	ıt			Language	Japanese
[Outline a	nd Pu	rpose of t	he C	ourse]							
[Course G	oalsj										
[Course S	chedı	ile and Co	onten	its]							
,4times, ,6times, ,10times,											
[Class rec	uirem	ent]									
None											
[Method, I	Point	of view, a	nd At	tainment	levels	of E	Evaluat	ion]		
[Textbook]										
[Referenc	e bool	ks, etc.]									
(Referei	nce bo	ooks)									
[Regardin	g stuc	lies out of	f clas	s (prepara	ation a	nd	review)]			
(Others (office	hour, etc.))								
*Please visit	KULA	ASIS to find	l out a	about office	hours.						

Numbering	g code										
Course title <english></english>				A ngineering A	А, В	dej	iliated partment b title,Na	i, me	Professor Graduate	r,KAN Scho	ol of Engineering INO IKUO ol of Engineering ssor,MAJIMA TAKUYA
Target ye	ar			Number	of cred	lits	1		urse offe ar/period		2019/Intensive, First semester
Day/perio	d Inter	nsive	Cla	iss style	Semina	ar			Lang	uage	Japanese
[Outline a	nd Pur	pose of t	he C	ourse]							
[Course G	oals]										
[Course S	chedul	e and Co	onter	its]							
,1time,											
,2times, ,10times,											
,2times,											
[Class red	uireme	ent]									
None											
[Method, I	Point of	f view, a	nd Af	ttainment	levels	of E	Evaluat	ion]		
[Textbook]										
[Referenc	e book	s, etc.]									
(Referei	nce boo	oks)									
[Regardin	g studi	es out of	f clas	ss (prepar	ation a	nd	review)]			
(Others (office h	our, etc.))								
*Please visit	KULA	SIS to find	l out a	about office	hours.						

Numbering	j code										
Course title <english></english>				B ngineering A	A, B	dep	filiated partment b title,Na		Profe Grad	essor,KAN luate Schoo	ol of Engineering INO IKUO ol of Engineering ssor,MAJIMA TAKUYA
Target ye	ar			Number	of cred	lits	1		ourse ar/pe	offered riod	2019/Second semester
Day/perio	d Wed	.5	Cla	ass style	Semina	ar			L	Language	Japanese
[Outline a	nd Pur	pose of t	he C	ourse]							
[Course G	oals]										
[Course S	chedul	e and Co	onter	nts]							
,1time,											
,2times, ,10times,											
,10times, ,2times,											
, ,											
[Class req	uireme	ent]									
None											
[Method, F	oint o	f view, a	nd A	ttainment	levels	of E	Evaluat	ion)]		
[Textbook]										
[Reference	e book	s, etc.]									
(Referer	ice boo	oks)									
[Regarding	g studi	ies out o	f cla	ss (prepar	ation a	nd	review)]			
(Others (office h	nour, etc.	.))								
*Please visit	KULA	SIS to find	d out :	about office	hours.						

Numberi	ng c	ode	G-L	.AS00 8	30001 I	LJ2	0								
Course titl <english< th=""><th>e R</th><th>esearc</th><th></th><th>究公正 es and Ir gy)</th><th>-</th><th></th><th>-</th><th colspan="4">Job title,Nan</th><th colspan="4">Institute for Liberal Arts and Science Program-Specific Professor,ITO SHINZABURO Institute for Liberal Arts and Science Program-Specific Professor,SATOU TOOR Graduate School of Engineering Professor,KAWAKAMI YOUICHI</th></english<>	e R	esearc		究公正 es and Ir gy)	-		-	Job title,Nan				Institute for Liberal Arts and Science Program-Specific Professor,ITO SHINZABURO Institute for Liberal Arts and Science Program-Specific Professor,SATOU TOOR Graduate School of Engineering Professor,KAWAKAMI YOUICHI			
Group	Cor	nmon	Gradua	ate Cour	ses		Field(Cla	assifi	catior	ו) s	ocial	l Responsibili	ty and P	rofitability	
Languag	е	Japane	ese				Old gro	up				Number of o	credits	0.5	
Hours		7.5		Class	style	Le	cture					urse offered r/period	2019 • Intensi semeste	ve, First	
Day/perio	d	Intensi	ive		Та	rget	t year Gra	duate	e stude	ents	Elig	ible students	For sci	ence students	
[Outline	anc	l Purp	oose c	of the C	Course	e]									
述する。そ 研究倫理 な科学の ³ の立場を ⁵	研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研研	者と 究公 の妨 ため ぶ。	しての Eにてつ こ てつ ない に に に	規範を む るか、 重 に て	保まま要グ	いなー講プ	かに研究 例を示し タの正し マークを	を な が 取ら	める ら、 ⁵ 扱い に、	か、 さ 科学で や誠い 研究	また 研究 実 の	身につけてま 研究成果の	≦切な発 ∈行為が 終表の仕 ≤知的財	表方法など、 いかに健全 方が、自ら 産や利益相	
[Course	Go	als]													
正行為の	事例	学習、	討論	を通じ	て、訪	実	な研究活	動を	遂行	する	研究	修得する。科 者の心得を身 を確認する。			
[Course	Scł	nedul	e and	Conte	nts)]										
第1234567第1234567第1211.....2............................	者の室夕上な研研成発研夕他不切知財の可ののの研究究果表究のの正な的産	責能安収間究に成ののに取逸事発財の任性全集違活お果共方お扱脱件表産考	あと付とい助すを有去すいう(方とえる対策管と中る発くとる(為シ法研方行応と理手の不表(プ不デ(ェ(究(動 環・抜間正す ロ正ー好ーオ費と 境実き違行る セ行タまンーのは へ験行い為際 ス為のし捏サ適	(のデ為と の (保く造一正学 配一のの 研 曲存な事シ使徐 慮今所区 穷 型・い件ッ用	テ () , , , , , , , , , , , , , , , , , ,	動 に参 加 し い 取 て で 代 て 、 二 の の て の の て の の で の の で の で の の で の の で の の で の	する 扱う う う う う	者と		D 義			·□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	
					-						Con	tinue to 研究倫理・	研究公正(理工系) (2)	

研究倫理・研究公正(理工系)(2)

- 3.利益相反(利害の衝突と回避)
- 4.公的研究費の適切な取扱い
- 5.研究者・研究機関へのペナルティー
- 6.事例紹介(ビデオ:分野共通4件)
- 7 . 結語

第4講 グループワーク

- 1.例示された課題についてグループ・ディスカッションと発表
- 2.日本学術振興会「研究倫理ラーニングコース」の受講と修了証書の提出

[Class requirement]

None

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

第1~4講の全てに出席と参加の状況、ならびに学術振興会e-learningの修了証の提出をもって合格 を判定する。

[Textbook]

日本学術振興会「科学の健全な発展のために」編集委員会 『科学の健全な発展のために - 誠実な 科学者の心得 - 』(丸善出版)ISBN:978-4621089149(学術振興会のHP(https://www.jsps.go.jp/jkousei/data/rinri.pdf)より、テキスト版をダウンロード可能)

[Reference book, etc.]

(Reference book)

米国科学アカデミー 編、池内 了 訳 『科学者をめざす君たちへ 研究者の責任ある行動とは』(化 学同人)ISBN:978-4759814286

眞嶋俊造、奥田太郎、河野哲也編著『人文・社会科学のための研究倫理ガイドブック』(慶応義塾 大学出版会)ISBN:978-4766422559

神里彩子、武藤香織編 『医学・生命科学の研究倫理ハンドブック』(東京大学出版会)ISBN:978-4130624138

野島高彦著 『誰も教えてくれなかった実験ノートの書き方』(化学同人)ISBN:978-4759819335 須田桃子著 『捏造の科学者 STAP細胞事件』(文藝春秋)ISBN:978-4163901916

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

日本学術振興会「研究倫理ラーニングコース」の受講

[Others (office hour, etc.)]

第1~3講は土曜2,3,4限に行う。第4講はグループワークを中心として講義の翌週または翌 々週の土曜1,2または3,4限に実施する。

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る人材とし	てオ	えめ !	られる素	養とし	ての情報						•		
と順序回路 2. アルゴリ 3. 形式言語 自由文法 4. パターン 5. 情報理論	学基ズ理 認情 クロ基	ビ本ム論 戦報2おずを	ト列によ デート 「デート クデート シアート 「 た の の は 、 、 、 、 、 、 、 、 、 、 、 、 、	、計造ト 青Dク削の研 デ機さ: 処造イ 式の の の の の の の の の の の の の の の の の の の	- ターま言 アマざ語 マーまの イレン マン マン で た で た の イノネ ノ ア で た ま つ て で で で で で で で で で で で で で で で で で で	クチャ ギ クーク定 決 の ト ム 探 見 の え 朝 記 に の 、 の ト の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の 、 の の ろ の の ろ の ろ	黄遠 哉理は 理家、 造と 別話ネ 話機	と探索 深 索 文 数 情 い 、 、 、 、 、 、 、 、 、 、 、 、 、	アル 法, 正 の表 フーク テ	ゴリ E規 現・ フの	リズム 文法と有限 ディジタ 階層モデリ	組み合わせ	ン, 文脈
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情報科学基礎論(2)

[Class requirement]

本講義は,情報系・電気電子系学科以外の出身者を対象とした学部専門科目の概要紹介であるので これらの学科の出身者は,本講義の単位を修得することはできない.もちろん,本講義の全部ある いは一部を聴講することは可能である.

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

各単元において出題するレポートにより情報学研究科成績評価規定第7条により評価する.試験を 行うこともある.情報系・電気電子系学科の学部の講義内容を修得することを目標とする.

[Textbook]

Not used

[Reference books, etc.]

(Reference books)

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

各単元において出題されるレポート課題に取り組むとともに,講義内容やそれに関連する内容について各自予習復習を行うこと.

(Others (office hour, etc.))