		i College		Engin	eering	d Computer Electrical Year 2021 Course		
De	par	tment Goals						
Cor e Cat ory	eg	Course Title	Cours e Code	Credit Type	Credit s	Class Hours per Week       1st Year     2nd Year     3rd Year     4th Year     5th Year       1st     2nd     1st     2nd     1st     2nd     1st     2nd       1     2     3     4     1     <	Instru	Divisio n in Learni ng
Ge ne ral	Co m pu lso ry	Japanese IV	0001	Acade mic Credit	2		ZENT OH Masas hi	
Ge ne ral	Co m pu lso ry	Physical Education IV	0002	School Credit	2		ISHID A Masa mi,MA EDA Tadan ori	
Ge ne ral	Co m pu lso ry	English IV A	0003	School Credit	1		INOUE Hideto shi	
Ge ne ral	Co m	English IV B	0004	School Credit	1		AKIMO TO Hiromi	
Ge ne ral	Co m pu lso ry	English Conversation II	0005	School Credit	1		HERBE RT John C.	
Ge ne ral	El ec tiv e	Chinese	0006	School Credit	2		ARIKA WA Kei	
Ge ne ral	El ec tiv e	German	0007	School Credit	2		YOKO TA Kazuy a	
Ge ne ral	El ec tiv e	French	0008	School Credit	2		FUJIM OTO Tomo nari,T AKEU CHI Ekuko	
Ge ne ral	El ec tiv e	Mathematical Concepts	0009	School Credit	1		MATS UMIYA Atusi	
Ge ne ral	El ec tiv e	Overseas Training II	0010	School Credit	1		All faculty of the depart ment	
Ge ne ral	Co m pu lso ry	Japanese IV	0029	School Credit	2		KANE KO Akemi	
Sp eci ali ze d	Co m pu lso ry	Co+workⅢA	0011	School Credit	1		All faculty	
Sp eci ali ze d	Co m pu lso ry	Co+workⅢB	0012	School Credit	1		All faculty	
Sp eci ali ze d	Co m pu lso ry	Applied Physics I	0013	School Credit	1		OGAS AWAR A Hiromi chi	

Sp eci ali ze d	Co m pu Iso ry	Applied Physics II	0014	School Credit	1	OGAS AWAR A Hiromi
Sp eci ali ze d	Co m pu Iso ry	Transient Analysis on Electric Circuits	0015	School Credit	1	SUYA MA Taikei
Sp eci ali ze d	Co m pu Iso ry	Electronic Circuits I	0016	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Electronic Circuits II	0017	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu Iso ry	Control Engineering I	0018	Acade mic Credit	2	KAMI Yasus hi
Sp eci ali ze d	Co m pu lso ry	Preliminaries to Graduation Thesis	0019	School Credit	1	All faculty of the depart ment
Sp eci ali ze d	Co m pu iso ry	Applied Mathematics	0020	School Credit	4	OGAS AWAR A Hiromi chi
Sp eci ali ze d	Co m pu iso ry	Electromagnetics II	0021	School Credit	2	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Solid State Physics A	0022	Acade mic Credit	2	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Experiments of Electrical Engineering I	0023	School Credit	4	KAMI Yasus hi,HIR OTA Atsush i,TERA SAWA Shinic hi,HIR ANO Masat sugu, NOMU RA Hayat o
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training A	0024	School Credit	1	All faculty of the depart ment
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training B	0025	School Credit	2	All faculty of the depart ment
Sp eci ali ze d	Co m pu Iso ry	Solid State Physics B	0026	Acade mic Credit	2	OHMU KAI Masat o
Sp eci ali ze d	El ec tiv e	Computer Architecture	0027	Acade mic Credit	2	NOMU RA Hayat o
Sp eci ali ze d	El ec tiv e	Discrete Mathematics	0028	School Credit	2	HAMA DA Yukihir o

Ge ne ral	Co m pu Iso ry	English V	0030	Acade mic Credit	2		MATS UDA Yasuta ka
Ge ne ral	El ec tiv e	Introduction to Japanese Language and Communication	0031	Acade mic Credit	2		ZENT OH Masas hi
Ge ne ral	El ec tiv e	Law	0032	Acade mic Credit	2		KURO KUI Yoshi mi
Ge ne ral	El ec tiv e	Philosophy	0033	Acade mic Credit	2		HATT ORI Keisuk e
Ge ne ral	El ec tiv e	Biophysical Chemistry	0034	School Credit	1		OGAS AWAR A Hiromi chi
Ge ne ral	El ec tiv e	Scientific Technology and the Environment	0035	School Credit	1		INOUE Naoyu ki
Ge ne ral	El ec tiv e	Sports Science I	0036	School Credit	1		MAED A Tadan ori,KO BAYAS HI Yuki
Ge ne ral	El ec tiv e	Sports Science II	0037	School Credit	1		GOTO H Takay uki,MA EDA Tadan ori
Ge ne ral	El ec tiv e	TOEICI	0038	School Credit	1		MATS UDA Yasuta ka,KIT AGAW A Chiho
Ge ne ral	El ec tiv e	TOEICII	0039	School Credit	2		MATS UDA Yasuta ka,KIT AGAW A Chiho
Ge ne ral	El ec tiv e	TOEICII	0040	School Credit	3		MATS UDA Yasuta ka,KIT AGAW A Chiho
Ge ne ral	El ec tiv e	Overseas Training III	0041	School Credit	1		All faculty of the depart ment
Sp eci ali ze d	Co m pu Iso ry	Intellectual Property Rights	0042	School Credit	1		MORIS ADA Yuji
Sp eci ali ze d	Co m pu lso ry	Graduation Thesis	0043	School Credit	9	6 12	All faculty of the depart ment
Sp eci ali ze d	Co m pu Iso ry	Power Electronics	0044	School Credit	1		HIROT A Atsush i
Sp eci ali ze d	Co m pu iso ry	Solid State Physics C	0045	School Credit	1		OHMU KAI Masat o

_	I_		1	1	1	
Sp eci ali ze d	Co m pu lso ry	Experiments of Electrical Engineering II	0046	School Credit	2	KAMI Yasus hi
Sp eci ali ze d	El ec tiv e	Probability and Statistics	0047	Acade mic Credit	2	HAMA DA Yukihir o
Sp eci ali ze d	El ec tiv e	Information Theory	0048	School Credit	1	NAKAI Yuichi
Sp eci ali ze d	El ec tiv e	Fundamentals of Communication Systems	0049	Acade mic Credit	2	TAKIT A Makot o
Sp eci ali ze d	El ec tiv e	Communication System	0050	School Credit	1	TAKIT A Makot o
Sp eci ali ze d	El ec tiv e	Information Network	0051	School Credit	1	INOUE Kazun ari
Sp eci ali ze d	El ec tiv e	Control Engineering II	0052	School Credit	1	KAMI Yasus hi
Sp eci ali ze d	El ec tiv e	Engineering of Energy Conversion	0053	School Credit	1	FUJII Haruhi sa
Sp eci ali ze d	El ec tiv e	Energy Transmission and Distribution Engineering	0054	School Credit	1	KONO Yoshiy uki
Sp eci ali ze d	El ec tiv e	Application of Electronics	0055	School Credit	1	INOUE Kazun ari
Sp eci ali ze d	El ec tiv e	Image Engineering	0056	Acade mic Credit	2	NAKAI Yuichi
Sp eci ali ze d	El ec tiv e	Computer Simulation	0057	Acade mic Credit	2	KAMI Yasus hi
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering I	0058	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering II	0059	School Credit	1	OHMU KAI Masat o

А	.kashi Co	ollege	Year	2021		Co	ourse Fitle	Japanese IV			
Course	Informa	tion		1		1 '		1			
Course Co		0001			Course Category	,	General	/ Compulsory			
Class Forr	mat	Lecture			<del>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </del>			ic Credit: 2			
Departme	ent		and Computer E Engineering Cou		Student Grade		4th				
Term		First Sem	ester		Classes per Wee	k	2				
Textbook		野田尚史・	・森口稔著:日本語を話すトレーニング(ひつじ書房)								
Teaching Instructor		ZENTOH									
	Objectiv		Masasiii								
1) Can wr argument 2) Can pr 3) Can dis	rite up rep s are convesent the	orts and the reyed effecti content of th	vely.		·	_		ure and development so that their dideas, orally and accurately.			
Rubric					1						
			Ideal Level		Standard Level			Unacceptable Level			
Achievem	ent 1		Can create an understand, lo empirical resu layout design conclusions, o reports.	ogical, and me with excellent based on clear	Can create an ea understand, logic empirical resume conclusions, opin reports.	cál, ar e base	nd ed on clea	There are elements that indicate conclusion, opinions, ar and reports, but the structure and layout design are inadequate.			
Achievem	ent 2		excellent gestu comprehensib response to qu accurately.	uestions	Can give a rehea presentation, but immediately ans appropriately.	t cann		The presentation is almost like a script reading.			
Achievem	ent 3		Can make a m statement in li theme in a con empirical way.	ine with the ncise, logical, and	Can make a mea statement that's theme, but is red	releva	ant to th	Can make a statement that's relevant to the theme, but is unorganized.			
		tment Ob									
学習・教育	到達度目標	票 (A) 学習・	教育到達度目標 (I	Ε)							
Teachin	g Metho	d									
Outline		on the pr Japanese	esentations. The , and learn abou	e goal of the course	e is to cover varions cs of Japanese exp	us issi pressio	ues in dit ons and	text questions and Q&A sessions fferent situations where we use thoughts of Japanese people mplementation.			
Style		resumes)	and Q&A session and Q&A	ecture style. Classe ons, and are intend u and Masahiro Tal	led to hélp studen	studer Its und	nts' presiderstand	entations (using A4 one-page each theme and acquire			
Notice		guaranted assignme Students knowledg quizzes.	ed in classes and ent reports. should be active se and skills nece	d the standard self e in presentations a essary to express i	-study time requir and Q&A sessions, n Japanese langua	red foi , inclu age. T	r pre-stu ding pre here will	s include the learning time dy / review, and completing -study, to ensure they learn the l be handouts as necessary, and			
		•			es will not be eligible for a passing grade.						
Charact	eristics (	of Class /	Division in Le	earning							
□ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remo	te Class	☐ Instructor Professionally Experienced			
Course	Plan										
Course	. 1011	-	Гһете		la.	Goals					
		1st (	Orientation Course outline		L	Inders	stand how	w to create a resume, presentation respective evaluation criteria.			
		2nd 7	Planning for the Make an inquiry Fraining 1 preser	ntations and Q&A	U	Jnders reate	stand the	theme of "Inquiry," and can sent a resume with a focus on the			
		3rd	Make a request Fraining 3 preser	nization of the about ntations and Q&A nization of the abo	L	Inders reate	stand the	cs (speech, 5W2H, timing, etc.).  e theme of "Request," and can sent a resume with a focus on the cs (attention, timing, speech, etc.).			
	1st Quarter	I 4th	invite / Decline / Fraining 5 preser		Vo issues a	Inders thers focus	stand the	e theme related to consideration for create and present a resume with essary tactics (attention, timing,			
	Interview  5th Training 7 presentations and Q&A Insight and organization of the ab	ntations and Q&A nization of the abo	L C	Inders reate lecess	stand the	e theme of "Interview," and can sent a resume with a focus on the cs (preparation, target selection, g, etc.).					
		6th   1	Give a speech Fraining 9 presei Insight and orga	ntations and Q&A nization of the abo	vo issues C	reate	and pres ary tacti	e theme of "Speech," and can sent a resume with a focus on the cs (appropriate content and way of			

		7th	Speak in a meetin Training 10 preser Insight and organ	ntations and Q&A	v ove issues	Understand the t and can create a on the necessary opinions, decidin	nd present a res tactics (such as	ume with a focus how to organize		
		8th	Midterm exam							
		9th	Research for them Case studies of ca students	ned research by s ses that are close	subjects 1 ely related to	ase studies by th	eme.			
		10th	Simple Japanese Training 12 presentations and Q&A Insight and organization of the above issues  Understand the theme of "S can create and present a retthe necessary tactics (word cultural understanding, mainly and the control of the above issues of the necessary tactics (word cultural understanding, mainly and the control of the above issues of the necessary tactics (word cultural understanding, mainly and the control of the above issues of the necessary tactics (word cultural understanding, mainly and the control of the necessary tactics (word cultural understanding, mainly and the control of the necessary tactics (word cultural understanding).							
		11th	Give directions an / Explain steps Training 6 and 11 Insight and organ	presentations an	id Q&A	Understand the theme of "Give directions and information on transportation" and "Explain steps," and can create and present a resume with a focus on the necessary tactics (such as how to organize and explain the content).				
	2nd Quarter	12th	Presentation 1 Training 13 presel Insight and organ	ntations and Q&A ization of the abo	v ove issues	Understand the theme of "Research presentation," and can create and present a resume with a focus on the necessary tactics (material selection, documents creation, etc.).				
		13th	Research Presenta Training 14 prese Insight and organ	ntations and Q&A	ove issues	Understand the t and can create a on the necessary questions respon	nd present a res techniques (cre	ume with a focus		
		14th	Career interview 1 Training 15 presel Insight and organ	areer interview 1 raining 15 presentations and Q&A isight and organization of the above issues			Understand the theme of "Career interview" and can create and present a resume with a focus on the necessary tactics (question intention, criteria by job type, and how to introduce yourself, etc.).			
		15th	Career interview 2 Training 15 presel Insight and organ	ntations and Q&A	ve issues	Understand the theme of "Career interview" and can create and present a resume with a focus on the necessary tactics (motivation letters, self-promotion through questions, etc.).				
		16th	Final exam			promotion through questions, etc.).				
Evaluati	on Met	hod and \	Weight (%)							
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	5	0	50	0	0	0	0	100		
Basic Proficience	y 5	0	50	0	0	0	0	100		
Specialized Proficiency 0			0	0	0	0	0	0		
Cross Are Proficience			0	0	0	0	0	0		

Δ	.kashi Co	ollege	Year	2021			ourse	Physical Education IV	
	Informat		1 501				Title	, S.ca. Ladeadon IV	
Course Co		0002			Course Categor	······································	General	/ Compulsory	
Class Forr		Skill			Credits	у	School C		
Departme	ent		and Computer		Student Grade		4th		
Term		Year-rou	l Engineering Co Ind	urse	Classes per Wee	 ek	2		
Textbook					,		ı		
Teaching Instructor		ISHIDA	Masami,MAEDA <sup>-</sup>	Tadanori					
	Objectiv	<u> </u>	-idsdiffi,FIALDA	radariori					
Particip     Can tal	ate in clas ke action t	ses to imp	sports safely. Als	wn health and physo, recognizes the s	sical strength. Alsignificance of coll	o, hav labora	ve some le ting and o	evel of self-discipline. cooperating with the team and can	
Rubric									
<u> </u>			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		improve their	gth. Have a high	Participate in cla their health and strength. Have self-discipline.	l physi	ical <sup>·</sup>	Reluctant to participate in classes, or improve their own health and physical strength. Do not have a high level of self-discipline.	
Achievem	ent 2		not strive to i	vsical strength.	Actively particip sport practices a are very compe a great influence	and ga titive.	ames, and Also have	e  games. And also have the skills	
Achievem	ent 3		Can participat practices and	te in various sport games.	Do not participa sport practices a			Understand the role of a leader well, and can help increase teamwork.	
			Understand at take on the ro	Understand the role of a leader, but cannot play that role.			Do not understand the role of a leader. Also, never play that role.		
Assigne	d Depar	tment Ob	jectives						
			教育到達度目標 (	B)					
Outline	g Metho	The goal the habit Students content.	t of playing sport will split into gr	ts on a daily basis. oups and leaders v loose from: Baseba	This class require vill take the lead	es an a to plai	active and n, review,	th of sports so that they can build d proactive attitude to participate. , and implement the course , basketball, volleyball, badminton,	
Style		the basic	skills they learn k while collabora	ned in previous yea ating and cooperati	rs. They are also ing with your tea	encou m with	ıraged to h your lea	re rules, how to play games, and experience the fun of enhancing ader in the center. Students should as support their effort.	
Notice		grade. Do no grade de Tardir but their If it is that clas absence Students	t wear or bring a eduction. ness will be excu attendance will discovered that s will be marked	sed for the first 20 be marked as abse a student left class as absent, and the or more of classes v	es, or any other u minutes. Studen ent. s early without be eir grade for prev	unnece ts can eing ex ious c	essary iten participa xcused (d lasses wil	nts will be deducted from their ms. These are also eligible for the in the class after 20 minutes, itching class), their attendance for I suffer a deduction equal to an grade.	
Charact	eristics o	of Class /	Division in Le	earning				Trackwarten Burfansianalla	
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remo	ote Class	☐ Instructor Professionally Experienced	
Course	<u>Plan</u>		Thoma		1.	Coala			
		130	Theme Guidance Baseball, softbal basketball, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	nnis,		e. Split int	purposes and objectives of this to teams in each sport and select a	
		2nd	Baseball, softbal basketball, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	able tennic l'	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
1st Semeste r	1st Quarter	3rd		l, soccer, futsal, te yball, badminton, t isc	الاستنامات المالي	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		4th	Baseball, softbal basketball, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	abla tannia l'	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		5th	Baseball, softbal basketball, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	nnis, Can da warm un and a			nd practice, play games, and s, led by a leader.	

			Decel-II 01 II				
		6th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		7th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		8th	No midterm exam				
		9th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Split into teams in each	n sport and select a leader.	
		10th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		11th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and d by a leader.	
	2nd Quarter	12th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		13th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		14th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		15th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		16th	No final exam				
		1st	Practice for the sport	s games	Prepare and practice for sports games safely.	or so that they can hold the	
		2nd		ll, softball, soccer, futsal, tennis, all, volleyball, badminton, table tennis, Split into teams in each sport and se			
		3rd	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
	3rd Quarter	4th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and by a leader.	
		5th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		6th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		7th	Baseball, softball, soc basketball, volleyball, training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
2nd		8th	No midterm exam				
Semeste r		9th	training, flying disc	, badminton, table tennis,	Split into teams in each	n sport and select a leader.	
		10th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and d by a leader.	
		11th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
	4th Quarter	12th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		13th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		14th	training, flying disc	, badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
		15th	training, flying disc	ccer, futsal, tennis, , badminton, table tennis,	Can do warm-up and preflect on the class, led	practice, play games, and I by a leader.	
E I		16th	No final exam				
<u>Evaluati</u>	ion Meth	od ar	nd Weight (%)	Due atical -1:11	Londough:-	Tatal	
Subtotal			Approach to a class 75	Practical skill	Leadership 15	Total 100	
<u>Subtotal</u> Basic Prof	ficiency		75	0	0	75	
		201	0	0	0	0	
Specialize	() P)()))) ()-	IL.V	11)	10	10	10	

	Akashi Co	 ollege	Year	2021			ourse	English IV A	
	Informa						Γitle		
Course C		0003			Course Categor	· I	General	/ Compulsory	
Class For		Lecture			Credits		School C	•	
Departme	ont .		al and Computer		Student Grade		4th		
•		_	al Engineering Co			2			
Term Textbook	and/or		Semester  ★— (/th) 「Fund	lamental Science i	Classes per We				
	Materials	語」桐原	之。(18) Trullo 書店.(3) 瓜生豊 Hidetoshi	・篠田重晃「Next S	Trenglish」。3と1516 Stage 英文法・語法	50. (Z 法問題」	桐原書店.	ショク クベ <u>八</u> 年300元成 <del>八</del> 年品 · ※	
	Objectiv	-							
1) 既習 <i>0</i> 2) 既習 <i>0</i> 3) 既習 <i>0</i> 4) 平易 5) 明瞭で	D高等学校学 D高等学校学 D高等学校学	学習指導要領 学習指導要領 学習指導要領 学習指導要領	頁に準じた文構造を ヒ読み、その概要を	を習得して適切に選得して適切に運用 得して適切に運用 習得して適切に運用 把握し必要な情報を 、英語の発音・アク	]できる。 ≿読み取ることができ	きる。 得して近	適切に運用	]できる。	
Rubric			理想的な到達し		 標準的な到達レ^	× II	· · · · · · · · · · · · · · · · · · ·	未到達レベルの目安	
				ググルの日女 1導要領に準じた新					
評価項目1			出語彙を十分に 用できる。	習得して適切に運	高等学校学習指導 出語彙を習得して	て運用で	きる。	出語彙を習得していない。	
評価項目2	!		高等学校学習指 法や文構造を十 に運用できる。	領要領に準じた文 −分に習得して適切	高等学校学習指導 法や文構造を習得 。	尊要領に 导して運	準じた文 用できる	高等学校学習指導要領に準じた文 法や文構造を習得していない。	
評価項目3	}			i導要領に準じた文 3得して適切に運用	高等学校学習指導 構造を習得して通 。				
評価項目4	ŀ		、その概要を十	計かれた文章を読み -分に把握し必要な ることができる。	平易な英語で書た 、その概要を把握 読み取ることがで	屋し必要			
評価項目5	5		英語の発音・デート分に習得して	7クセントの規則を 「適切に運用できる	英語の発音・アクセントの規則を 習得して適切に運用できる。			英語の発音・アクセントの規則を 習得していない。	
Assiane	ed Depar	tment Ol	bjectives		•				
				B) 学習・教育到達原	 度目標 (E)				
Teachin	ng Metho	d							
Outline		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						、特に「読む・書く」技能を涵養する 用能力の向上を目指す。	
Style		目標を達	成するためには、	 である。	いらわて	こいス例文	も産出可能とすること。		
Notice		(1) 小テ (2) 理由 合格の対	ストは語彙を増や なき遅刻や欠課に。 象としない欠席条	し、英作文力向上の よる小テストの未受 件(割合) 1/4以上の	ための良い機会とし 験は 0 点の扱いと <sup>*</sup> )欠課	ンて、十 する。	分に活用	すること。	
Charact	eristics		Division in Le						
	Learning	,	☑ Aided by I		☑ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced	
	DI								
Course	rian		Th		Г	C- '			
		-	Theme 授業のガイダンス			Goals			
		1st	技業のガイタンへ  授業の進め方・単  説明を行う。	語テスト・評価の方	法などについて				
		2nd		ers and Calculatio	n	数と計算	 算に関する	 3英語を習得する。	
		3rd	Lesson 2. Figure	es P1/P2		図形に	関する英語		
	3rd	4th	Lesson 2. Figure	es P3/P4		図形に	関する英語	語を習得する。	
	Quarter	5th	Lesson 2. Figure	es P5		図形に	関する英語	吾を習得する。	
		6th	Lesson 3. States	of Substance P1		物質の	犬態に関す	する英語を習得する。	
		7th		of Substance P2		物質の	犬態に関す	する英語を習得する。	
2nd Semeste		8th	中間試験 中間試験を実施す	る。					
•		9th	中間試験の返却と 中間試験の返却と			特に不正	正解の箇戸	<b>所を再学習し理解する。</b>	
		10th	Lesson 3. States	of Substance P3		物質の	犬態に関す	する英語を習得する。	
		11th	Lesson 4. Graph	and Functions P1		グラフ	と関数に関	<b>剝する英語を習得する。</b>	
	4th Quarter	12th		and Functions P2				関する英語を習得する。	
	Quarter	13th	Lesson 4. Graph	and Functions P3		グラフ	と関数に関	関する英語を習得する。	
					•	電気・電子に関する英語を習得する。			
		14th	Lesson 6. Electri						
		14th 15th 16th	Lesson 6. Electri Lesson 6. Electri 期末試験					する英語を習得する。 する英語を習得する。	

Evaluation Method and Weight (%)										
試験 小テスト その他 Total										
Subtotal	70	30	0	100						
基礎的能力	70	30	0	100						
専門的能力	0	0	0	0						
分野横断的能力	0	0	0	0						

Д	kashi Co	ollege	Year	2021		Cours		English IV B	
	Informa					Title	9		
Course Co		0004			Course Categor	v Gen	eral /	Compulsory	
Class For		Lecture			Credits	<i>'</i>		edit: 1	
Departme		Electrical a	and Computer E		Student Grade	4th			
Term		First Seme		ırse	Classes per We	ek 2			
Textbook	and/or	1		merican Society ir			lextSt	tage	
Teaching Instructor		AKIMOTO			(5) 2 4 6				
	Objectiv		ППОПП						
(1) Impro TOEIC ma (2) Impro (3) Under	ove the En	glish listening n vocabulary ture and histo	_			•	-	listening and reading exercises in words and grammatical elements. American social issues and	
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		Can fully impr English profici- listening and r	ove practical ency through eading exercises.	Can improve proficiency throand reading ex	ough listenir	lish ng	Cannot improve practical English proficiency through listening and reading exercises.	
Achievem	ent 2		Can fully impr vocabulary the English vocabe	ough learning	Can improve Enthrough learning vocabulary.	nglish vocat ng English	oulary	vocabulary through learning English vocabulary.	
Achievem	ent 3		the logical thir international p	d skills, including nking and	Learn a wide ra knowledge and the logical thinl international pe necessary for fi	skills, inclu king and erspective		Do not learn a wide range of knowledge and skills, including the logical thinking and international perspective necessary for future engineers.	
Assigne	d Depar	tment Obj	•		necessary for future engineers.   necessary for future en				
学習・教育	到達度目標	票 (A) 学習・教	文育到達度目標 (I	夏目標 (E)					
Teachin	g Metho	od							
Outline		(1) The ai	m is to improve	e practical English	proficiency throu	igh TOEIC e	exercis	ses. to oral speech in English.	
Style								k and do practice questions for	
Notice		Students v Course sch	vho miss 1/4 o nedule will be p	r more of classes wrovided in the first	will not be eligible week. Be sure	e for a pass to understa	ing gr and in	rade. detail.	
Charact	eristics	of Class / [	Division in Le	earning					
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remote C	lass	☐ Instructor Professionally Experienced	
Course	Plan								
			neme		Goals				
		1st E	ass guidance xplain how clas uizzes, assignm	ses will be conduct ents grading syste	ted, vocabulary em, etc.	bulary Gain a proper understanding on the cand assignments, and plan ahead.			
		2nd (2	.) Day 1: Part 1 2) Unit 2: Learr pics.	l listening and read	ding on the	Watch a vio textbook to American o	gain	nat follow the topics of the a deeper understanding of e.	
		3rd (2	.) Day 2: Part 1 2) Unit 3: Learr pics.	l listening and read	ding on the	Improve vo reading ski	cabu lls foll	lary, grammar, and listening and lowing the topics of the textbook.	
	1st Quarter	4th L	.) Day 3: Part 2 earn culture of deos	2 English-speaking	countries with	Improve vo reading ski	cabu lls foll	lary, grammar, and listening and lowing the topics of the textbook.	
1st Semeste		5th  (2	.) Day 4: Part 2 2) Unit 6: Learr pics.	2 I listening and read	ding on the	Improve vo	cabu lls foll	lary, grammar, and listening and owing the topics of the textbook.	
r		6th (2	.) Day 5: Part 3 2) Unit 8: Learr	3 I listening and read	ding on the	Improve vo	cabu lls foll	lary, grammar, and listening and owing the topics of the textbook.	
		7th (1)	.) Day 6: Part 3 &A for the midt	3 cerm exam		and answe	r to q	ass content so far, and review uestions for the periodic exam.	
			idterm exam ake the midterr	n exam.		Test their ι far.	ınder:	standing of the class content so	
		Ř.		cplanation of the m	nidterm exam	Aim to ider	ntify a	nd overcome weaknesses.	
	2nd Quarter	10th (2		turning and explanation of the midterm exam ) Day 8: Part 4 ) Unit 9: Learn listening and reading on the pics.			Watch a video to gain a deeper understanding o culture of English-speaking countries.		
	1	1							

			1			1				
		11th	(1) Day 9: Part 5 (2) Unit 10: Learn topics.	n listening and re	ading on the		lary, grammar, a lowing the topics			
		12th	(1) Day 10: Part Learn culture of E videos	5 English-speaking (	countries with	Improve vocabu reading skills foll	lary, grammar, a lowing the topics	nd listening and of the textbook.		
		13th	(1) Day 11: Part (2) Unit 12: Leard topics.		ading on the	Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook.				
		14th	(1) Day 12: Part Learn culture of E videos	6 Applied questio English-speaking (	ns countries with	Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook.				
		15th	(1) Day 13: Part Q&A for the final	7 Practice questic exam	ons	Reflect on the class content so far, and review and answer to questions for the periodic exam.				
		16th	Final exam			Test their under far.	standing of the cl	ass content so		
Evaluation	on Me	thod and \	Weight (%)							
	E	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total		
Subtotal	5	50	0	0	0	0	50	100		
Basic Proficiency			0	0	0	0	50	100		
Specialized Proficiency					0	0	0	0		
Cross Area Proficiency		)	0	0	0	0	0	0		

А	kashi Co	llege	Year	2021		Cou		English Conversation II	
Course Information									
Course Co	ode	0005			Course Catego	ry Ge	eneral /	Compulsory	
Class Forr	mat	Lecture	ture Credits School Credit: 1						
Departme	ent	Electrical Electrical	Electrical and Computer Engineering Electrical Engineering Course Student Grade 4th						
Term		Second Semester Classes per Week 2							
Textbook Teaching		and Susa	n Proctor (2017	Edition) Student's ) Cambridge Unive	Book B with On rsity Press.	line Self-S	Study b	y Jack C. Richards, Jonathan Hull,	
Instructor		HERBERT	John C.						
1) 聞き手(2) 明瞭で間3) 中学で即きる。4) 中学で即ち) 日常生活	聞き手に伝れ 既習の語彙の 既習の文法 まや身近な記	う、句・文に つるような発 り定着を図り や文構造に加 話題に関して	話ができるよう、 、高等学校学習指 え、高等学校学習 、毎分100語程度	英語の発音・アクセ 貨事要領に準じた新出 関指導要領に準じた文 の速度ではっきりと	ントの規則を習得 は語彙、及び専門教 は法や文構造を習得した発音で話され	导して適切け 教育に必要す 导して適切け なた内容から	に運用て となる英 に運用て う必要な	音読あるいは発話できる。 できる。 支語専門用語を習得して適切に運用で できる。 と情報を聞きとることができる。	
7) 説明や特	古や身近な記物語などのな	古題に関して 文章を毎分10	、目分の意見や® 00語程度の速度で	対して基本的な表現を 団き手に伝わるよう	用いて英語で話すに音読ができる。	<b>すことかで</b>	きる。 		
Rubric					I			1	
			理想的な到達し	バルの目安	標準的な到達レ	ベルの目安		未到達レベルの目安	
評価項目1 発音			Clear pronuncintonation	iation and natural	Understandable and recognizat			Poor pronunciation using only Japanese katakana to try to speak English and flat intonation	
評価項目2 発音							Incomprehensible accent, stress, rhythm		
評価項目3語彙			Mastery of all vocabulary	textbook	Mastery of mos vocabulary whi focused on in c	Mastery of only a few of the textbook vocabulary which the teacher focused on in class lectures			
評価項目4 文法及び構	from the textbook and from the grammar from the textbook and grammar from t				Mastery of only some of the grammar from the textbook and from the teacher's lectures				
	ニケーショ	ン	Able to mainta conversation f	fluently	Able to mainta conversation so	omewhat			
	ニケーショ	ン	Able to exprese English clearly	<i>'</i>	English somewhat clearly			Not able to express opinions in English	
	ニケーショ		English	ideas fluently in Able to explain ideas somewhat fluently in English			Not able to explain ideas in English		
Assigne	<u>d Depart</u>	ment Ob	jectives						
学習・教育	到達度目標	(A) 学習・	教育到達度目標 (	B) 学習・教育到達度	[目標 (E)				
Teachin	g Metho	<u>d</u>							
Outline		they have	e learned from p	previous classes cor	ne alive in its sp	ooken forr	n.	g. Students will make the English	
Style		Each less This cour term and	on will involve p se also includes final exams and	plenty of conversati listening and prond d speaking tests wil	on practice with unciation praction II be held during	n a differer ce in Engli g class tim	nt them sh. Wri e on a	ne and grammar point each week. tten tests will be given as mid- regular basis.	
Notice		刻、他クラ  意力を削ぐ  とがある。	ラスの学習(いわり ぐような、これら	修了するには、学生( )る内職)をする、居間 に類する行為が続く! 件(割合) 1/4以上の	民りをする、私語 場合、クラス履修	加が欠かも を続ける、 とみなさな	ない。 スマホケ いこと	このコースの履修中、15分以上の遅 ゲームをする、あるいは他の学生の注 があり、また、補修を必須とするこ	
Charact	eristics c	of Class /	Division in Le	earning					
☑ Active	Learning		☑ Aided by I	СТ	☑ Applicable t	o Remote	Class	☐ Instructor Professionally Experienced	
Course	Plan								
		-	Theme	Goals					
2nd Semeste	3rd	1st o	Jnit 9: Getting T Practice listening 'get (something done." Record Speaking	g and speaking acti ) done" and "have g Test 1: "Getting T tion 9 Grammar Fo	(something) hings Done"	Hold a flu		nversation in English about things nt to have done.	
r	Quarter	2nd (	Unit 9: Getting Things Done (B) Practice listening and speaking activities for making suggestions with modals + verbs, gerunds, negative questions, and infinitives. Record Speaking Test 2: "Making Suggestions" Homework: Section 3 Grammar Focus on pages 65 and 141-Part 1.						

	3rd	Unit 10: A Matter of Time (A) Practice listening and speaking activities that refer to times in the past with adverbs and prepositions, "during," "in," "ago," "from to," "for," and "since." Record Speaking Test 3: "Historic Events" Homework: Section 10 Grammar Focus on pages 67 and 141-Part 2.	Hold a fluent conversation in English about historic events.
	4th	Unit 10: A Matter of Time (B) Practice listening and speaking activities while predicting the future with "will," the future continuous tense, and the future perfect tense. Record Speaking Test 4: "Predicting the Future" Homework: Section 3 Grammar Focus on pages 73 and 142-Part 1.	Hold a fluent conversation in English about the future.
	5th	Unit 11: Rites of Passage (A) Practice listening and speaking activities about life's milestones, which use the time clauses, "before," "after," "once," "the moment," "as soon as," "until," and "by the time." Record Speaking Test 5: "Life Events and Milestones" Homework: Section 8 Grammar Focus on pages 75 and 142-Part 2.	Hold a fluent conversation in English about life's milestones.
	6th	Unit 11: Rites of Passage (B) Practice listening and speaking activities for describing hypothetical situations and expressing regret with "should (not) have" + past participle, "if" clauses + past perfect and "would/could have" + past participles. Record Speaking Test 6: "Regrets and Hypothetical Situations" Homework: Sections 4 and 8 Grammar Focus on pages 79, 81 and 143-Part 1 and 2.	Hold a fluent conversation in English about regrets and hypothetical situations.
	7th	Unit 12: Keys to Success Practice listening and speaking activities to describe purpose through infinitive clauses with "for" and reasons with "because," "since," "because of," "for," and "due to." Homework (this week): Study for the mid-term test. Record Speaking Test 7: "Keys to Success" Homework (due by week 9): Section 4 Grammar Focus on pages 87 and 144-Part 1.	Hold a fluent conversation in English about the qualities necessary for success and good advertising.
	8th	Mid-Term Written Test	Show mastery of the grammar and vocabulary covered in Units 9 to 12.
	9th	Unit 13: What Might Have Been (A) Practice listening and speaking activities for speculating what has happened by using past modals for degrees of certainty: "must (not) have," "may (not) have," "might (not) have," and "could (not) have." Record Speaking Test 8: "Unexplained Events" Homework: Section 9 Grammar Focus on pages 89 and 144-Part 2.	Hold a fluent conversation in English to speculate why things happened as they did.
	10th	Unit 13: What Might Have Been (B) Practice listening and speaking activities for giving advice with, "should (not) have," "could (not) have," and "would (not) have." Record Speaking Test 9: "Complicated Situations and Advice" Homework: Section 3 Grammar Focus on pages 93 and 145-Part 1.	Hold a fluent conversation in English about complicated situations and advice.
4th Quarter	11th	Unit 14: Creative Careers (A) Practice listening and speaking activities for describing processes with "is/are" + past participles and modals + be + past participles. Record Speaking Test 10: "How Things are Done/Made" Homework: Section 10 Grammar Focus on pages 96 and 145-Part 2.	Hold a fluent conversation in English about how things are done or made.
	12th	Unit 14: Creative Careers (B) Practice listening and speaking activities to talk about careers in entertainment by using defining and non-defining relative clauses. Record Speaking Test 11: "Media and Entertainment" Homework: Section 3 Grammar Focus on pages 101 and 146-Part 1.	Hold a fluent conversation in English about media and entertainment.
	13th	Unit 15: A Law Must Be Passed! (A) Practice listening and speaking activities for giving recommendations and opinions about controversial topics with passive modals, like "should be," "ought to be," "must be," "has to be," and "has got to be." Record Speaking Test 12: "Recommendations" Homework: Section 9 Grammar Focus on pages 103 and 146-Part 2.	Hold a fluent conversation in English regarding recommendations and opinions about controversial topics.

	14th   Record Speaking Test   Opinions"			speaking activities to show eement with tag questions. 13: "Controversial and 9 Grammar Focus on	Hold a fluent conquestions.	versati	on in English with tag
	15th		Unit 16: Reaching Our Practice listening and saccomplishments with present perfect, and refuture perfect and "wo participles.  Record Speaking Test Homework: Study for Recommendation: Cor Units 9-16 grammar a	Hold a fluent con	Hold a fluent conversation in English about reaching one's goals.		
	16th		Final Exam	Show mastery of covered in Units	the gra 9 to 16	ammar and vocabulary	
Evaluation	<b>Evaluation Method and</b>		Veight (%)				
Spe		Spea			Homework/Quizzes	;	Total
Subtotal	Subtotal 60			20	20		100
Basic English Communication 60		20	20		100		

A	Akashi Co	ollege		Year	2021		Cours		Chinese
Course	Informa	tion							
Course C	Code	0006				Course Categor	y Gene	eral /	<sup>'</sup> Elective
Class For	mat	Lecture				Credits	School Credit: 2		
Departme	ent			Computer E neering Cou		Student Grade	e 4th		
Term		Year-rou		<u></u>		Classes per Wee	ek 2		
Textbook		虐添・「/	ペアで	 学ぼう!中[					
	Materials	ARIKAWA							
Instructo	Objectiv		A Kei						
①中国語の ②挨拶やE		スターし、基礎 ど、身の回りの	の事を	:実用的な中国		単な中国語でコミ:	 と読解力を養 ュニケーシ∃	 うよ 」ンを	うに目指します。 取れることを目指します。
Rubric									
			理想	間的な到達レ	ベルの目安	標準的な到達レヘ	ベルの目安		未到達レベルの目安
評価項目1	1		的なるよ	語彙と文法	マスターし、基礎の規則を応用でき話力と読解力を十。	中国語の発音をで 的な語彙と文法の るようにし、会記 っている。	の規則を応用	でき	中国語の発音をマスターし、基礎 的な語彙と文法の規則を応用でき るようにし、会話力と読解力を養 えていない。
評価項目2	2		事を 簡単	を実用的な中 単な中国語で	など、身の回りの 国語で表現でき、 十分にコミュニケ ことができる。	挨拶や日常会話な事を実用的な中国簡単な中国語でこ ンを取ることがて	国語で表現で コミュニケー	'₹、	挨拶や日常会話など、身の回りの 事を実用的な中国語で表現でき、 簡単な中国語でコミュニケーショ ンを取ることができない。
評価項目3					や生活習慣、中国 解を十分深めてい	中国人の考え方や 文化に対する理解			中国人の考え方や生活習慣、中国 文化に対する理解を深めていない。
Assigne	కెం   ssigned Department Objectives								
学習・教育到達度目標 (A) 学習・教育到達度目標 (B)									
Teachir	ng Metho								
焦らずに			っか	りとレベルフ	アップを図りながら	、「聞く」「話す」	「読む   「	「書く	この授業では、発音を丁寧に学び、 」の能力をバランスよく身につける コミュニケーションを取れるように
Style		②授業に利  ③発声練習	責極的 習、会 こ生じ	に参加するこ 話練習にして た疑問や、挑	ポイント把握したう こと。 っかり取り組むこと 受業中に理解できな	۰			
Notice		目標達成の ①学習ポー ②授業で ③テキス	カたト イント 学習し トの添	、次の自己学 を把握し授業 た後に必ず役 付CDや音声	学習が必要である。 業の理解度を高める 复習を行うこと。 ストリーミル以上の	Lを活用し、中国語	こと。 iの発音を自言	主的緋	東習すること。
Charact	teristics i	•	合格の対象としない欠席条件(割合) 1/4以_ Class / Division in Learning		, ,	<u>/八昧</u>			
	e Learning	01 61033 /	ss / Division in Learning		☑ Applicable to	Remote Cl	lass	☐ Instructor Professionally Experienced	
<u>C-</u>	DI-								
Course	rian		Tha				Cools		
	1		Them 発音 1	e 、2、3			Goals 声調、単母音	 キ ヱ	
			<del>九日 1</del> 発音 4						
					 日本人ですか?				)聞き方と答え方、動詞述語文を学ぶ
	1-4			<u> </u>			<u>。</u> 練習Ⅰ、Ⅱを		, a
	1st Quarter			·				_	<u>`。</u> 副詞「也」、疑問詞「什么」を学ぶ
					何を学びますか? 		•		
				文法のまる				練習Ⅰ、Ⅱを学ぶ。	
1st					最近どうですか?				「 <u>」+動詞、副詞「都」を学ぶ。</u> - ス
Semeste		1		<u>:中間テスト</u> ! 文法のま。			既習内容を復 練習Ⅰ、Ⅱを		
r					<u>こめ</u> なたの辞書ですか?				<u>、</u> 反復疑問文を学ぶ。
		<b>—</b>		<u>これはこ</u> り			練習Ⅰ、Ⅱを		
					<u>こう</u> 北京に来ますか?		時間の言い方	· 方、「	
	2nd Quarter	$\vdash$					+場所+動詞		
	Quarter			文法のまる			練習Ⅰ、Ⅱを		<u>、。</u> 主述述語文、「几」と「多少」を学
		14th	第6課	! 図書館は	どこにありますか?		有] と  1 <del>:</del>   ぶ。	<u> </u>	土心心品入、 ハリ C 「夕少」を子
		1 E+b	第6課 図書館はどこにありますか? 前期総まとめ				小。   復習と質問応答を実施する。		
15th 16th			則期総	前期総まとめ			復習と質問派	心答を	主実施する。

		1st	前期内容の復習		前期の内容を復習する。	
		2nd	第7課 あなたは紅茶を みますか?	飲みますかそれとも緑茶を飲	A 「是」B、「想」+動詞/ を学ぶ。	/「要」+動詞、比較の表現
		3rd	第7課 文法のまとめ		練習Ⅰ、Ⅱを学ぶ。	
	3rd	4th	第8課 あなたはどれか	「好きですか?	疑問詞「哪」、動詞の重ね 出す表現を学ぶ。	2型、主題化目的語を文頭に
	Quarter	5th	第8課 文法のまとめ		練習Ⅰ、Ⅱを学ぶ。	
		6th	第9課 あなたは毎日何	J時間寝ますか?	期間〈時間量〉、様態補語学ぶ。	語を導く「得」、「怎么」を
		7th	第9課 文法のまとめ		練習Ⅰ、Ⅱを学ぶ。	
2nd Semeste		8th	復習と中間テスト		既習内容を復習する。	
r		9th	第10課 あなたはさっ	きどこに行きましたか?	過去の経験を表わす 動詞 「又」「再」「」を学ぶ。	月+「」、「了」の使い方、
		10th	第10課 文法のまとめ	)	練習Ⅰ、Ⅱを学ぶ。	
		11th	第11課 あなたは何を	としていますか?	進行と持続のアスペクト、 点儿」、「打算」+動詞を	「一会儿」「有点儿」「一 ご学ぶ。
	4th	12th	第11課 文法のまとめ	)	練習Ⅰ、Ⅱを学ぶ。	
	Quarter	13th	第12課 あなたは車の	)運転ができますか?	助動詞「会」「能」「可以現「別/不要」を:	灯 、二重目的語、禁止の表 学ぶ。
		14th	第12課 文法のまとめ	)	練習Ⅰ、Ⅱを学ぶ。	
		15th	後期総まとめ		復習と質問応答を実施する	5.
		16th	期末試験			
Evaluati	on Meth	od an	d Weight (%)			
			定期試験	小テスト	平常点	Total
Subtotal			60	20	20	100
基礎的能力 60 2			60	20	20	100
専門的能力 0 0			0	0	0	0
分野横断的能力 0 0				0	0	0

Clearly understand German sentence structure and rules, and can read intermediate German with the help of a dictionary.   Can express things around them in German, using what they learned in intermediate they learned in interactive practice.   Can express things around them in German, using what they learned in interactive practice.   Can deepen their understanding of the German way of thinking and lifestyle through reading German teading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.    Assigned Department Objectives		German	urse tle			2021	Year	ege	kashi Coll	А
Class Format								on	Informatio	Course
Department Electrical and Computer Engineering Student Grade 4th Electrical Engineering Course Electrical Engineering Course Classes per Week 2					1					
Electrical Engineering Course					Credits				mat	Class Forr
Textbook and/or resorbing Materials		itudent Grade 4th							ent	Departme
Teaching Materials Instructor YOKOTA Kazuya  Course Objectives  *The goal is to clearly understand German sentence structure and rules, and to be able to read intermediate German of a dictionary.  *The goal is to be able to express things around them in simple German, using what they learned in interactive practical intermediate German way of thinking and lifestyle by reading German reading social conditions.  *Rubric**    Ideal Level   Clearly understand German sentence structure and rules, and can read intermediate German with the help of a dictionary.    Clearly understand German sentence structure and rules, and can read intermediate German with the help of a dictionary.    Can express things around them in German, using what they learned them in German, using what they learned them in German way of thinking and lifestyle through reading of the German way of thinking and lifestyle through reading of the German way of thinking and lifestyle through reading of the German way of thinking and lifestyle through reading of the German way of thinking and lifestyle through reading and lifestyle to a certain extent through reading ferman sentence structure and rules, and canned septembly the social conditions.    Achievement 3				k 2	Classes per Wee	d Classes per W				
Instructor   YOKOTA Kazuya   Course Objectives   The goal is to clearly understand German sentence structure and rules, and to be able to read intermediate German of a dictionary. The goal is to be able to express things around them in simple German, using what they learned in interactive practical conditions.   Ideal Level   Standard Level   Unacceptable Learning social conditions.   Ideal Level   Standard Level   Clearly understand German way of thinking and lifestyle by reading German reading social conditions.   Ideal Level   Clearly understand German sentence structure and rules, and can read intermediate German with the help of a dictionary.   Unacceptable Learning with the learning understanding and infestyle through reading German reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle to a certain extent with the ylearned of the German way of thinking and lifestyle to a certain extent with the German understanding German reading materials on social conditions.			岀版社)	(朝日出	春日正男、松澤淳	えるぞドイツ語! ネ	DVDわかるそ			
*The goal is to clearly understand German sentence structure and rules, and to be able to read intermediate German of a dictionary.  *The goal is to be able to express things around them in simple German, using what they learned in interactive practice practice practice practice practice practice practice practice practice.  **Rubric**    Ideal Level								YOKOTA Ka		
of a dictionary								S	Objectives	Course
Ideal Level	•				•				nary. I is to be abl I is to have a	of a dictio •The goal •The goal
Clearly understand German sentence structure and rules, and can read intermediate German with the help of a dictionary.   Can express things around them in German, using what they learned in intermediate they learned in interactive practice.   Can express things around them in German, using what they learned in interactive practice.   Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.   Can deepen their understanding and lifestyle through reading German reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading materials on social conditions.   Can deepen their understanding of the German way of thinking and lifestyle through reading materials on social conditions.								Rubric		
Achievement 1 sentence structure and rules, and can read intermediate German with the help of a dictionary.  Can express things around them in German, using what they learned in interactive practice.  Can deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.  Assigned Department Objectives 学習・教育制建度目標(A) 学習・教育制建度目標(B) Teaching Method  Outline  The main purpose of this class is to learn the basic grammar of German and to balance studer German that is practical and alive. In addition, students will improve their German reading or and increase knowledge of Germany through reading reading increase knowledge of Germany through reading reading necessors. In addition to classes, a lot of interactive practice will be incorporated, and students will also in comprehension through reading.  Style  1 addition to classes, a lot of interactive practice will be incorporated, and students will also in comprehension through reading. Style will be interpreted to the style of the german serious of German social conditions.  Style  1 addition to classes, a few dictionaries will be introduced. Students should choose a dictive those that they think will be easy to use and bring it to the class every time. (2) Properly do to give and the stylenge of the stylenge of the stylenge of the cerman serious of German social conditions.  Course Plan  Theme  1 throughtion to German and Germany  1		Unacceptable Lev								
Achievement 2	ence structure and inot read German even with	rules, and cannot	rules, ate : with	ire and r ermedia e extent	sentence structu and can read int German to some	cture and rules, intermediate	eńce struc can read i nan with t	S	ent 1	Achievem
Achievement 3  Introduction to German and Statistics will be incorporated, and students will also in comprehension through reading german reading, writing, listening, and speaking abilities. When learning grammar, we will interactive practice that use the grammar topics in each section will be incorporated so students will improve the first class and students will be incorporated, and students will also in comprehension through reading materials on social conditions.  Assigned Department Objectives  ### ## ## ## ## ## ## ## ## ## ## ## #	ss things around e German.	Cannot express them in simple G	ınd , using	German,	them in simple C	an, using what	in Germa learned i	t	ent 2	Achievem
字習・教育到達度目標(A)学習・教育到達度目標(B)  Teaching Method  Outline  The main purpose of this class is to learn the basic grammar of German and to balance studer German reading, writing, listening, and speaking abilities. When learning grammar, we will in interactive practice that use the grammar topics in each section will be incorporated so studer German that is practical and alive. In addition, students will improve their German reading cor and increase knowledge of Germany through reading materials on German social conditions.  Style  In addition to classes, a lot of interactive practice will be incorporated, and students will also in comprehension through readings. Liaison: Akimoto Hiromi  (1) During the first class, a few dictionaries will be introduced. Students should choose a dictic those that they think will be easy to use and bring it to the class every time. (2) Properly do the given.  Students who miss 1/4 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Theme  Goals  Instructor Prexperienced  Course Plan  Theme  Goals  Introduction to German and Germany  Understand the alphabet and pror Understand the alphabet and pror Understand German will Cardinary Experienced  Course Plan  Theme  Grammar: Understand present ter conjugation of verbs.  4th Lektion 1  Sth Lektion 1  Grammar: Understand Japan inside German will German will German will German will German will German will German: Understand sein and his Semeste  Funderstand Cerman will German will German: Understand beginner understand the gender nouns.  Reading: Understand German beginners understand German beginners understand German beginners.  Reading: Understand German beginners understand German beginners.  Reading: Understand German beginners understand German beginners.  Reading: Understand German beginners.  Reading: Understand German beginners.  Reading: Understand German beginners.  Reading: Understand German beginners.	g of the German ig and lifestyle ing German	of the German way of thinking and lifestyle to a certain extent through reading German reading materials on social understanding of the G way of thinking and life through reading German reading materials on social			n way of thinking nrough reading ng materials on	Can deepen their underst. of the German way of thir chievement 3 and lifestyle through read German reading materials		Achievem		
Teaching Method  The main purpose of this class is to learn the basic grammar of German and to balance studer German reading, writing, listening, and speaking abilities. When learning grammar, we will in interactive practice that use the grammar topics in each section will be incorporated so studer German that is practical and alive. In addition, students will improve their German reading cor and increase knowledge of Germany through reading materials on German social conditions.  In addition to classes, a lot of interactive practice will be incorporated, and students will also in comprehension through readings. Liaison: Akimoto Hiromi  (1) During the first class, a few dictionaries will be introduced. Students should choose a diction those that they think will be easy to use and bring it to the class every time. (2) Properly do the students who miss 1/4 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Them  Goals  Introduction to German and Germany  Understand the alphabet and prorection of the properties of the pr							es	nent Objec	d Departn	Assigne
The main purpose of this class is to learn the basic grammar of German and to balance studer German reading, writing, listening, and speaking abilities. When learning grammar, we will in interactive practice that use the grammar topics in each section will be incorporated so studer German that is practical and alive. In addition, students will improve their German reading cor and increase knowledge of Germany through reading materials on German social conditions.  Style  In addition to classes, a lot of interactive practice will be incorporated, and students will also in comprehension through readings. Liaison: Akimoto Hiromi  (1) During the first class, a few dictionaries will be introduced. Students should choose a diction those that they think will be easy to use and bring it to the class every time. (2) Properly do the given.  Students who miss 1/4 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Theme  Goals  Ist Introduction to German and Germany  Understand the alphabet and pror Understand pronunciation rules are expressions.  Ist Introduction to German and Germany  Understand pronunciation rules are expressions.  The Lektion 1  Sth Lektion 1  Grammar: Understand Japan inside 6th Lektion 1  Text Grammar: Understand Japan inside 6th Lektion 1  Reading: Understand He gender nouns.  Stemeste F  Sth Lektion 2  Reading: Understand German beer nouns.						B)	達目標 (I	(A) 学習・教育	到達度目標 (	学習・教育
Notice	incorporate many ents can learn comprehension	nmar, we will inco orated so student man reading com ocial conditions.	ning grar be incorp their Ge erman so	nen learr ion will b mprove als on Ge	aking abilities. Whopics in each section, students will in reading materia	in reading, writing, listening, and speative practice that use the grammar in that is practical and alive. In addition to classes, a lot of interactive praction to classes, a lot of interactive practive praction through readings.				
Active Learning Aided by ICT Applicable to Remote Class Instructor Prexperienced  Course Plan  Theme Goals  Introduction to German and Germany Understand the alphabet and prorection understand pronunciation rules are expressions.  Ist Aided by ICT Applicable to Remote Class Instructor Prexperienced  Course Plan  Theme Goals  Introduction to German and Germany Understand the alphabet and prorection understand pronunciation rules are expressions.  Ist Grammar: Understand present ter conjugation of verbs.  4th Lektion 1 Grammar: Understand German work and the genders of the Lektion 1 Grammar: Understand sein and have been seen to the conjugation of verbs.  Ist Grammar: Understand Serman work and the gender of the Lektion 1 Grammar: Understand the gender of the Lektion 2 Reading: Understand German been seen to the conjugation of verbs.  Reading: Understand German been seen to the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.  Reading: Understand German been seen the conjugation of verbs.	tionary from the assignments	(2) Properly do the	ery time.	lass ever	d bring it to the cl	be easy to use and	think will	those that tl		Notice
Course Plan  Theme Soals Introduction to German and Germany Understand the alphabet and pror Understand pronunciation rules are expressions.  3rd Lektion 1 St Quarter  4th Lektion 1 Sth Lektion 2 Semeste Reading: Understand beerman beer nouns.  Reading: Understand the gender nouns.  Reading: Understand German beer nouns.					•			eristics of	Charact	
Theme  1st Introduction to German and Germany Understand the alphabet and pror 2nd Introduction to German and Germany Understand pronunciation rules ar expressions.  3rd Lektion 1 Grammar: Understand present ter conjugation of verbs.  4th Lektion 1 Grammar: Understand German wo 5th Lektion 1 Reading: Understand Japan inside 6th Lektion 1 Grammar: Understand sein and ha 1st Semeste r  1st Semeste Reading: Understand the gender nouns. Reading: Understand German bee	Professionally	☐ Instructor Pro Experienced	e Class	Remote	☑ Applicable to	СТ	ided by I		Learning	□ Active
Theme  1st Introduction to German and Germany Understand the alphabet and pror  2nd Introduction to German and Germany Understand pronunciation rules ar expressions.  3rd Lektion 1 Grammar: Understand present ter conjugation of verbs.  4th Lektion 1 Grammar: Understand German words Grammar: Understand Japan inside 6th Lektion 1 Grammar: Understand Japan inside 6th Lektion 1 Grammar: Understand sein and had 1st Semeste r  1st Semeste Reading: Understand the gender nouns.  8th Lektion 2 Reading: Understand German bed									Plan	Course
2nd Introduction to German and Germany Understand pronunciation rules are expressions.  3rd Lektion 1 Grammar: Understand present ter conjugation of verbs.  4th Lektion 1 Grammar: Understand German work Reading: Understand Japan inside 6th Lektion 1 Grammar: Understand sein and had 1st Semeste r  1st Semeste r  2nd Introduction to German and Germany Understand present ter conjugation of verbs.  4th Lektion 1 Grammar: Understand Japan inside Grammar: Understand sein and had 1st Semeste r  2nd Introduction to German and Germany Understand German work Reading: Understand Serman beginning to the state of the seminar of the seminar Serman beginning to the seminar Serman beginning to the seminar Serman beginning to the seminar Serman				Goals				The		
1st Quarter  1st Quarter  1st Quarter  1st Semeste r  2nd Lektion 1						German and Germa	ction to C	.st Intr	1	
1st Quarter  4th Lektion 1  5th Lektion 1  6th Lektion 1  Semeste r  5th Lektion 2  Semeste Reading: Understand Japan inside Grammar: Understand sein and have gender nouns.  Reading: Understand sein and have gender nouns.  Reading: Understand German beginner in the gender nouns.  Reading: Understand German beginner in the gender nouns.			ons.	expression	e e	German and Germa	ction to G	2nd Intr	2	
Quarter  Sth Lektion 1 Sthort Lektion 1 Sthort Lektion 1 Sthort Lektion 2 Strainman: Onderstand German Well Reading: Understand Japan inside Grammar: Understand sein and hat Grammar: Understand the gender nouns. Reading: Understand German bee		rbs.	tion of ve	conjugati	C				<sub>1-1</sub>	
1st Semeste r 8th Lektion 2 Grammar: Understand sein and har Grammar: Understand sein and har Grammar: Understand the gender nouns.  Reading: Understand German bee									Ouarter 🖹	
1st Semeste r 7th Lektion 2 Grammar: Understand the gender nouns.  8th Lektion 2 Reading: Understand German bee	•	•								
Semeste r 8th Lektion 2 nouns.  Reading: Understand German bee										1st
		<del>-</del>		nouns.	n				<u> </u>	
									8	
9th Lektion 2 Grammar: Understand case inflect and nouns.	scrions of articles	stanu case inflectio					۷	th Lek	9	
10th Lektion 3 Reading: Understand Berlin							3	.0th Lek		
2nd Quarter 11th Lektion 3 Grammar: Understand irregular verification imperative mood.	verbs and the	stand irregular ver					3	.1th Lek		
12th Lektion 4 Grammar: Understand Europe and	ind the EU.	stand Europe and		-			4	.2th Lek	`	
13th Lektion 4 Grammar: Understand definite and articles.	and indefinite	stand definite and	ar: Under				4	.3th Lek	1	

		14th	Lektion 5			Reading: Und German youth	erstand the part	time jobs of	
		15th	Review			Review the co	ntent learned in	the first semester.	
		16th	Final exam			Understand th	e content learn	ed.	
		1st	Lektion 5			Grammar: Un	derstand persor	nal pronouns.	
		2nd	Lektion 5			Grammar: Un	derstand prepos	sitions.	
		3rd	Lektion 6			Reading: Und	erstand German	bakeries.	
	2rd	4th	Lektion 6			Grammar: Un future tense.	derstand modal	verbs and the	
3rd Quarter 5th 6th 7th 8th Semeste r 9th		er 5th	Lektion 6			Grammar: Un conjunctions.	derstand subord	dinating	
		6th	Lektion 7			Reading: Und Germany.	erstand the trav	el situation in	
		7th	Lektion 7			Grammar: Un	derstand separa	ble verbs.	
		8th	Lektion 7			Grammar: Un	derstand reflexi	ve verbs.	
		9th	Lektion 8			Reading: Und	Reading: Understand Munich.		
[		10th	Lektion 8			Grammar: Un adjectives.	derstand case ir	nflections of	
		11th	Lektion 9			Reading: Und	erstand Oktober	fest in Munich.	
	4th	12th	Lektion 9			Grammar: Un past tense of	derstand the the verbs.	ree basic forms and	
	Quarte	13th	Lektion 10			Reading: Und Germany.	erstand the foot	ball situation in	
		14th	Lektion 10			Grammar: Un	derstand the pe	rfect tense.	
		15th	Review			Review the co	ntent learned ir	the second	
		16th	Final exam			Understand the content learned.			
Evaluat	aluation Method and		l Weight (%)						
		Examination		Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total	
Subtotal		50	0	0	30	0	20	100	
Pacie		50	0	0	30	0	20	100	
Specialize Proficience		0	0	0	0	0	0	0	
Cross Are Proficienc		0	0	0	0	0	0	0	

Δ	Akashi Co	ollege	Year	2021		Course	<sup>e</sup> French		
Course	Informa	tion	•				·		
Course Co		0008			Course Categor	,	ral / Elective		
Class For	mat	Lecture			Credits	School Credit: 2			
Departme	ent		and Computer E Engineering Cou		Student Grade	4th			
Term		Year-rour	nd		Classes per We	eek 2			
Textbook Teaching	and/or Materials	釣馨ほか	『私だけのフランス	ス語ノート』/朝日	出版社				
Instructo		FUJIMOT	O Tomonari,TAK	EUCHI Ekuko					
Course	Objectiv	es es							
Internation way to lea	onalization arn differe	does not ma ent cultures is	ake the world ur	ires diverse culti	ires to co-exi	e become increasingly important. ist. From the perspective that the bes n for a multicultural and multilingual			
Rubric									
			理想的な到達レ	ベルの目安	標準的な到達レ	ベルの目安	未到達レベルの目安		
評価項目1	L		Learn the basi proficiency by French langua	learning the	Learn the basic proficiency by I French language	learning the	Do not learn the basic French proficiency by learning the French language structure.		
評価項目2	2		Learn the basi proficiency by vocabulary.	c French learning French	Learn the basic proficiency by I vocabulary.		Do not learn the basic French proficiency by learning French vocabulary.		
評価項目3	平価項目3		Can take actio multicultural a coexistence so learning Frenc	nd multilingual ciety through	Can take action multicultural ar coexistence socilearning French	nd multilingua ciety through			
Assigne	ssigned Department Objectives								
学習・教育	・教育到達度目標 (A) 学習・教育到達度目標 (B)								
Outline		spelling a become r well with introduce the four s	and pronunciation master them to so a few vocabular yourself and sea skills: listening, s	n, the rules on the come extent, your ies. While learning asonal greetings, peaking, reading,	e gender of nount horizon will sud- g the basic expre the class aims to and writing.	s, and the ve denly broade essions of eve help studen	nce, such as the relationship between erb conjugation. However, if you en, and you can communicate fairly eryday conversation, such as how to ts achieve a balanced mastering of		
Style		After exp Liaison: 0	lanation of the g Chiho Kitagawa	rammar and voca	bulary, students	will do pract	ice questions to acquire proficiency.		
Notice		In order t imaginati spend mo	to learn foreign l on of the learner ore time for revie	anguages, it's imposes, so active partices rather than for more of classes were appeared to the contract of th	cipation in classe: opre-study.	s is required.	he innate communication skills and Also, students are encouraged to an grade.		
Charact	teristics	of Class /	Division in Le	arning					
□ Active	e Learning		☐ Aided by ICT ☐ Applicable to		o Remote Cla	Instructor Professionally Experienced			
Course	Dlan								
Course	Piaii	<u> </u>	 Гhете	homo			Goals		
		1st (	Guidance: How c	lasses will be concions about France	ducted / and the French	Understand	the overview of classes Understand characteristics of France and the uage.		
						i	nce French words and greet.		
		3rd L	_esson 0: L'alpha	bet and pronunci	ation / Greeting		nbers from 1 to 10.		
		4th L	esson 1: Let's ir	ntroduce yourself!		Can make si names of Eu	imple verb conjugation. Can say Iropean countries and cities in French.		
	1st Quarter	5th L	esson 1: Let's ir	ntroduce yourself!			ce themselves in French.		
	Quarter		Lesson 2: Let's ta anguages!	alk about national	ities and	Understand nouns.	the basic rules of the gender of		
1st Semeste		7th L		alk about national	ities and	Can listen to	names, nationalities, towns, , and words of others.		
Semeste r			dterm exam		Can introduce themselves in French and understand other people's information without seeing anything. Can write these content in				
				sson 3: Let's talk about things around you!			Can increase their vocabulary and talk about		
		9th L	Lesson 3: Let's to	alk about things a	round you!	French. Can increase	e their vocabulary and talk about		
	2nd			alk about things a	,	French.  Can increase things aroun  Can use nun	e their vocabulary and talk about and them.  The state of		
	2nd Quarter	10th L	Lesson 3: Let's ta		round you!	French.  Can increase things aroun  Can use nun  France and i	nd them.  The standard standar		

		13th	Lesson 5: Let's tal	k about your fam	ily! (2)	Can talk about th personalities of the			
		14th	Lesson 5: Let's tal	k about your fam	ily! (2)	Can explain cloth	es.		
		15th	Lesson 6: Let's talk about things you like!			Can talk about things they like.			
		16th	Final exam			Can speak and write based on the content learned since week 9.			
		1st	Review of the topic and warm up for t	cs covered in the he second semes	first semester, ter	Can speak and wo	rite in French bas n the first semes	sed on the ter.	
	2nd I		Lesson 7: Let's tal	k about food!		Can talk about br prendre. Can exp			
	3rd	3rd	Lesson 8: Let's go	on a trip!		Can talk about de transport options future tense.			
	Quarter	4th	Lesson 9: Let's tal	k about the weat	her!	Can speak using	weather expressi	ons.	
		5th	Lesson 9: Let's say	the time and du	ıration!	Can say the time	and duration.		
		6th	Lesson 10: Let's co	ompare.		Can speak using	comparison expre	essions.	
	7th Lesson 11: Let's sho					Can use numbers amount of shoppi	up to 100. Can ing.	tell the total	
2nd Semeste			Midterm exam			Can speak using the second semes	the content learn ster.	ed by week 7 of	
r		9th	Lesson 11: Let's a	sk the way!		Can use comman	d forms. Can giv	e directions.	
		10th	Lesson 12: Let's ex	xplain what you o	do on a day!	Can create senter the present tense		minal verbs in	
		11th	Lesson 12: Let's ex	xplain what you o	do on a day!	Can talk about wi	hat they do on a	normal day.	
		12th	Lesson 13: Let's ta	alk about customs	s!	Can talk about cu use the verb pour	istoms of the Fre voir. Can use per	nch people. Can sonal pronouns.	
	4th Quarter	13th	Lesson 14: Let's ta your trip! (1)	alk about what yo	ou did during	Understand how avoir, and can us		ect tense using	
		14th	Lesson 15: Let's ta your trip! (2)	alk about what yo	ou did during	Understand how imperfect tense u	to form the perfe Ising être, and ca	ect tense and an use them	
	15th		Summary of Lessons 14 and 15			Can talk about what they did yesterday based on what they do on a normal day learned in Lesson 12.			
		16th	Final exam						
Evaluati	on Met	hod and V	Veight (%)						
	試	験	発表	相互評価	態度	ポートフォリオ	その他	Total	
Subtotal	50	)	0	0	30	0	20	100	
基礎的能力	M 50 0 0 30 30 30 30 30 30 30 30 30 30 30 3				30	0	20	100	
専門的能力	<b>5門的能力</b> 0 0 0 0				0	0	0	0	
分野横断的	分野横断的能力 0 0 0 0				0	0	0	0	

А	kashi Co	ollege	Year	2021		Course Title	Mathematical Concepts			
Akashi College  Course Information  Course Code 0009						-				
		0009			Course Categor		/ Elective			
Class Forr	mat	Lecture			Credits	School Credit: 1				
Departme	ent	Electrica Electrica	l and Computer E l Engineering Cou	Engineering urse	Student Grade	4th				
Term			Semester		Classes per Wee	ek 2				
Textbook		碓氷久(ま:	まか、大学編入のための数学問題集、大日本図書							
Teaching Instructor			IIYA Atusi		(LITICIA)					
Course	Objectives									
(1)確率 (2)線型 (3)微程	図の諸概念を 型代数の諸概 動分の諸概念	を理解し、確 既念を理解し、 念を理解し、	、行列やベクトル 確実な計算を身に	に関する確実な計算 つけ、いろいろな問	題をこなせるようにた 算を身につけ、いろい 問題をこなせるよう! 答案の作りかたを身!	いろな問題をこな になること。	せるようになること。			
以上いずれ	1についても	ち、各回の小	試験と期末試験に	より達成度をはかる	3.					
Rubric										
			理想的な到達レ	ベルの目安	標準的な到達レク	ベルの目安	未到達レベルの目安			
評価項目1			確率の諸概念を な計算を身につ 題を十分解くこ	十分理解し、確実 りけ、いろいろな問 ことが出来る。	確率の諸概念を理算を身につけいる くことが出来る。	ろいろな問題を解	確率の諸概念を理解できず、確実 な計算を身につけていないのでい ろいろな問題を解くことが出来な い。			
評価項目2			行列やベクトル	記念を十分理解し、 に関する確実な計 いろいろな問題を十 出来る。	線型代数の諸概念 やベクトルに関す 身につけいろいる とが出来る。	する確実な計算を	線型代数の諸概念を理解できず、 行列やベクトルに関する確実な計 算を身につけいろいろな問題を解 くことが出来ない。			
評価項目3			微積分の諸概念	を十分理解し、確このはいろな問	微積分の諸概念を 計算を身につけい 解くことが出来る	いろいろな問題を	微積分の諸概念を理解できず、確 実な計算を身につけていないので いろいろな問題を解くことが出来 ない。			
評価項目4			抽象的枠組を具る能力を十分獲	体的問題に適用す 得している。	抽象的枠組を具体る能力を獲得して	本的問題に適用す こいる。	抽象的枠組を具体的問題に適用する能力を獲得出来て いない。			
Assigned Department Ob			jectives							
学習・教育	到達度目標	票 (D) 学習・	- 教育到達度目標 (	G) 学習・教育到達	度目標 (H)					
Teachin	g Metho	od								
Outline		高専で学行って数学に 臨む学生の	習した数学に初歩( 的能力を高め、さの の受験対策の機会(	の確率論の学習を含らに高度な数学に親 にもなるようにした	含め、これらに関して 見しめる能力を身にて こい。	て復習と問題演習 つけることを目標	を行う。多くの問題を解くことによ とする。付随的に、大学編入試験に			
Style				質問を行い確認小証						
Notice		ように心だ	がけ、講義の進行。 効にはならないの <sup>-</sup>	とは別に各自でどん	しどん学習を進めてい	,自分が必要とな ハくべきである。	る範囲を自分自身で見定めて調べる 受け身の受講姿勢では編入試験対策			
Charact	eristics	of Class /	Division in Le	earning						
☑ Active			☑ Aided by I	<u> </u>	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced			
			L		L		Ехрепенева			
Course	Plan									
			Theme			Goals				
		1st	基礎数学の復習1 1年次に学習した 演習をおこなう。	数学Aの内容につい	いて、復習と問題 :	基礎数学の内容を				
		2nd	基礎数学の復習2 1年次に学習した 演習をおこなう。	数学Bの内容につい	って、復習と問題	基礎数学の内容を				
		3rd	一変数関数の微分 一変数関数の微分 う。	について、復習と問	問題演習をおこな	1変数関数の微分	汁について理解している。			
2nd Semeste	3rd	4th	一変数関数の積分 一変数関数の積分 う。	について、復習と問	問題演習をおこな	1変数関数の積分	汁について理解している。			
Semeste Quarter		5th		とべき級数、テイラ 、復習と問題演習を		関数の展開につい	1て理解している。			
1	İ		多変数関数の微積	分(1)		タ 亦 粉 眼 粉 の 舎 4				
		6th	主として二変数関 復習し、問題演習		世の判定に ついて	多友奴ぼ奴の城)	one of the contract of the con			
		6th	復習し、問題演習 多変数関数の微積	をおこなう。			分について理解している。			

						•		
		9th	微分方程式 一階、二階の微分方 を復習し、問題演習 やや外れるような問 あげ、問題演習をあ	習をおこなう。また 問題や、連立微分方	:基本的な型から	簡単な1階線形微 係数2階斉次線形	分方程式を解くこ 微分方程式を解く	とができる。定数 ことができる。
		10th	ベクトル 空間内の図形、線形 演習をおこなう。	/独立・線形従属な	どの復習と問題	ベクトルに関する	問題を解くことが	出来る。
		11th	行列と行列式 行列と行列式の計算 立一次方程式の解法 。			行列に関する問題を	を解くことが出来	る。
	4th Quarter	12th	線形変換 線形変換とその表現 ル、行列の対角化に う。	記行列、行列の固有 こついて、復習と問	値と固有ベクト 題演習をおこな	線形変換、固有値 ことが出来る。	と固有ベクトルに	関する問題を解く
		13th	ベクトル空間 ベクトル空間、部分 いて、やや抽象的な	う空間、基底・次元 は問題の復習と演習	、線形写像につ  をおこなう。	ベクトル空間、部分する問題を解くこ		元、線形写像に関
		14th	確率 古典的確率根素朴な確率概念と、 を学び、具体的な問	条件つき確率や期		独立試行の確率、 反事象の確率を理 求めることが出来 、独立事象の確率 を求めることが出	る。条件付き確率 を理解し、簡単な	率の加法定理、排 について、確率を 、確率の乗法定理 場合について確率
		15th	さまざまな複合的問 複数の分野にまたか かとりあげ、問題演	ぶる知識を必要とす	る問題をいくつ	適切な試験答案の	作りかたを身につ	けている。
		16th 期末試験						
Evaluati	on Meth	od and \	Weight (%)					
	試馬	<b></b>	発表	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	50		0 0 0			0	50	100
基礎的能力	50	0 0 0			0	50	100	
専門的能力	0	0 0 0				0	0	0
分野横断的	能力 0		0	0	0	0	0	0

							1	
Akashi College Course Information		ollege	Year	2021		Course Title	Overseas Training II	
Course Code 0010								
-					Course Category	General	/ Elective	
Class Form		Practical tr	raining		Credits	School C		
Departme	ent	Electrical a	nd Computer Ei		Student Grade	4th		
Term		Year-round			Classes per Wee	k 1		
	ook and/or +NI							
Teaching			-f +b - d	\				
Instructor		•	of the departme	ent				
(1)海外に	Objectiv おける研修	 への参加を诵し	て、教養をより	高めるための取り組				
(3)現地で	関わる人々	修に参加する。 と英語などをF	ことで、広い視野· 引いてコミュニケ·	を持つことができる ーションができる。	·			
Rubric					_			
			理想的な到達レイ		標準的な到達レベ		未到達レベルの目安	
評価項目1				修への参加を通じ 高めるための取り る。	海外における研修  て、教養をより高  組みができる。		海外における研修への参加を通じて、教養をより高めるための取り 組みができない。	
評価項目2			異文化の中でのでとで、広い視野できる。	研修に参加するこ を持つことがよく	異文化の中での研 とで、広い視野を る。	修に参加するこ 持つことができ	異文化の中での研修に参加することで、広い視野を持つことができない。	
評価項目3			現地で関わる人/ いてコミュニケ- きる。	々と英語などを用 ーションがよくで	現地で関わる人々いてコミュニケー。	と英語などを用 ションができる	現地で関わる人々と英語などを用いてコミュニケーションができない。	
Assiane	d Depar	tment Obje			•		•	
				) 学習・教育到達度	要目標 (E)			
	g Metho	•		,				
Outline		海外におけ 目のねらい の研修と、	事前指導(マナー	教育、研修先の下詣	ベ)、事後の報告会	やコミュニケー 研修日数は、5 、関係機関に配	ション能力を身に付けることが本科 日間以上とする。本科目は、海外で 布する報告書の作成などの自己学習時	
Style			45時間以上に相当 ンテーション, 現	当する学習内容であ  地実習, 報告会	<u>వం</u>			
Notice		学級担任又ヨンをとる	は指導教員と緊密 ように努めるとと	に連絡を取り合う。	こと。研修期間中は 遣い等、研修生とし	、積極的に現地 て相応しい態度	の人たちと関わり、コミュニケーシ で取り組むこと。	
Charact	eristics (		<u>としない欠席条件</u> Division in Lea					
		Ji Ciass / L				D Cl	☐ Instructor Professionally	
☑ Active	Learning		☑ Aided by IC	I	☑ Applicable to	Remote Class	Experienced	
Course	Dlan							
Course	Pian					`aala		
		1	neme		G	ioals		
		1st 2nd						
		3rd						
	<b>.</b> .	4th						
	1st Quarter	5th						
	(3.3	6th						
		7th						
1st		8th						
Semeste		9th						
r		10th						
		11th						
		12th						
	2nd Quarter	13th						
	Qua. co.	14th						
		15th						
			 末試験実施せず					
		1st						
		2nd						
		3rd						
2nd	2rd	4th						
Semeste	3rd Quarter	5th						
r		6th						
		7th						
		8th						

		9th				
		10th				
		11th				
4	th	12th				
		13th				
		14th				
		15th				
		16th 其	期末試験実施せず			
Evaluation	valuation Method and We		eight (%)			
			報告書	発表		Total
Subtotal	Subtotal		50	50		100
分野横断的能力		50	50		100	

Akashi College		ollege	Year	2021			urse itle	Japanese IV	
Course	Informa	tion							
Course Co		0029			Course Category			/ Compulsory	
Class For	mat	Lecture			Credits	School Credit: 2			
Departme	ent		and Computer E Engineering Cou		Student Grade	4	th		
Term		Year-rou	nd		Classes per Wee	k 2			
Textbook	and/or Materials								
Instructo		KANEKO	Akemi						
Course	Objectiv	es es							
To impi the classr	rove the a coom and i	bility to use in the daily l	Japanese correc ife, and to freely	tly, and to enable express Japanese	students to under appropriate for a	rstand J situation	apanes on.	e correctly in various situations in	
Rubric					1				
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	nent 1			panese correctly ations in classes	Understand Japa situations in clas life.			s Do not understand Japanese in various situations in class and daily life.	
Achievem	nent 2		Can express it Japanese that the situation.	freely using is appropriate for	Can expressed it appropriate for t	t using . the situa	Japanes ation.	Cannot express it using Japanese as appropriate for the situation.	
Assigne	d Depar	tment Ob	jectives						
Teachin	ng Metho	od	-						
Outline		and inter	view practice					ng, paper, senryu verse, honorific,	
Style		Classes a		international students and will be carried out as lectures, including practices of					
Notice		<ul><li>Do hom</li><li>Do not</li></ul>	forget belonging	IS	will not be eligible	for a n	assing (	nrade	
Charact	eristics		Division in Le		viii rioc be engibie	101 a p	assing g	, adei	
	Learning	<u> </u>	☐ Aided by I	-	☐ Applicable to	Remot	e Class	☐ Instructor Professionally Experienced	
Course	Dlan								
Course	Pian	-	Theme			Goals			
		1		ow the class is cor			rectly h	andle the Japanese language in	
		150	how it should be	taken, and honor eading aloud, read	ific words r	elation	to the I		
		2110	article reading, li	stening, and hono	orific r	relation to the left.			
			Kanji, phrases, r reading, listening	eading aloud, long g and grammar		Can correctly handle the Japanese language relation to the left.			
		4th	Kanji, phrases, r reading, listening	eading aloud, long	article (	Can correctly handle the Japanese language relation to the left.			
	1st Quarter			g and granninal eading aloud, long g and grammar		Can correctly handle the Japanese language relation to the left.			
		6th I		eading aloud, long	article (	Can correctly handle the Japanese language relation to the left.			
		7th		eading aloud, long	article C	Can cori elation	rectly ha	andle the Japanese language in eft.	
1st		8th	Kanji, phrases, r	eading aloud, long g and grammar	article (	Can correlation	rectly ha	andle the Japanese language in	
Semeste r		Oth I		eading aloud, long	article (		rectly h	andle the Japanese language in	
		10th		eading aloud, long	article C		rectly ha	andle the Japanese language in	
		44.1		eading aloud, long	article (		rectly h	andle the Japanese language in	
	2nd	1.2th		eading aloud, long	article (		rectly h	andle the Japanese language in	
	Quarter	1.2+h	Kanji, phrases, r	eading aloud, long g, and senryu vers	article C		rectly h	andle the Japanese language in	
		14th	Kanji, phrases, r	eading aloud, long g, and senryu vers	article (		rectly h	andle the Japanese language in	
		15th I	Final exam		C	Can correlation	rectly us to the I	se the Japanese language in eft to show learning results.	
			None						
2nd . 3rd		1st !	Kanji, phrases, r	article C	Can correctly handle the Japanese language in relation to the left.				
2nd Semeste	3rd Quarter			g, writing of paper eading aloud, long	s, and idioms r	elation	to the I	eft.	

Kanji, phrases, reading aloud, long article reading, listening, writing a paper, and four-letter idioms  Kanji, phrases, reading aloud, long article  Can correctly handle the Japanese lang relation to the left.	uage in
Kanji phraces reading aloud long article	aage III
Kanji, phrases, reading aloud, long article reading, listening, writing a paper, and four-letter idioms  Can correctly handle the Japanese lang relation to the left.	uage in
Kanji, phrases, reading aloud, long article reading, listening, writing of papers, historical idioms  Can correctly handle the Japanese lang relation to the left.	uage in
6th Kanji, phrases, reading aloud, long article reading, listening, writing of papers, historical idioms Can correctly handle the Japanese lang relation to the left.	uage in
7th Kanji, phrases, reading aloud, long article reading, listening and writing papers Can correctly handle the Japanese lang relation to the left.	uage in
8th Kanji, phrases, reading aloud, long article can correctly handle the Japanese lang relation to the left.	uage in
9th Kanji, phrases, reading aloud, long article reading, listening and writing papers Can correctly handle the Japanese lang relation to the left.	uage in
Kanji, phrases, reading aloud, long article reading, listening, and preparation for the incorporation test, and preparing for transfer admission test  Kanji, phrases, reading aloud, long article Can correctly handle the Japanese lang relation to the left.	uage in
11th Kanji, phrases, reading aloud, long article reading, and discussion Can correctly handle the Japanese lang relation to the left.	uage in
4th Quarter 12th Kanji, phrases, reading aloud, long article Can correctly handle the Japanese lang relation to the left.	uage in
13th Kanji, phrases, long article reading, listening and can correctly handle the Japanese lang relation to the left.	uage in
Kanji, phrases, long article reading, listening and Can correctly handle the Japanese lang relation to the left.	uage in
15th Final exam Can correctly use the Japanese language relation to the left to achieve learning relation.	je in esults.
16th None	
Evaluation Method and Weight (%)	
Examination Task · Organize notes · Little test Total	
Subtotal         70         30         100	
Basic Proficiency 70 30 100	
Specialized Proficiency 0 0	
Cross Area Proficiency 0 0	

Akashi College				Year	/ear 2021			ourse Title	Co+work III A	
Course	Informat	ion								
Course Co		0011 Course Category						Specialize	ed / Compulsory	
Class Forr	mat	Seminar				Credits	•	School Cr	redit: 1	
Departme	ent	Electrica	l and	l Computer Er Jineering Cour		Student Grade		4th		
Term		First Sen	neste	er		Classes per We	ek	2		
Textbook Teaching		No requi team.	red t	ed textbook and the required material will change according to the contents of the activity of each						
Instructor	•	All facult	У							
Course	Objective	es								
1) Self-re 2) Co-ope 3) Creativ	liance: To eration skill e Skills: To	acquire ind s: To gain o acquire th	ividu the a ne at	iality and self- ability to work bility to gather	management abil in teams and res and organize info	ity pect the teamm ormation, discov	nates. ver and	propose	solutions to problems.	
Rubric										
			Ideal Level Standard Level						Unacceptable Level	
1 Self-reli	ance		re pl	chedule mana porting, conta anning goals v ammates	act, consultation,	Individually abl management, contact, consul goals.	e to sc reportir	ng,	Not able to schedule management, reporting, contact, consultation, and planning goals	
2 Co-oper	ration skills		to	express the s	nt opinions, able student personal ility to lead the sensus.	Open to differe to express the opinion, and at attributed role	student pility to	t personal play the		
3 Creative	e Skills		ga ar in	ne student car ather informat nd summarize formation, for splain those id	ion, organize this	The student ca gather informa and summarize information, ar ideas to others	tion, or this id expla	ganize	The student can't voluntarily gather information, can't organize and summarize this information, and can't explain those ideas to others.	
Assigne	d Denart	ment Ob		•			_			
				3. <b>( )</b> 到達度目標 ( H )	)					
	g Metho		3/113		/					
Outline	<u>g i recito</u>	This cou student departm charge a someone	can o ents, nd c e oth	contribute to a , different age hallenge them er than the te	i team in a variety , and people from iselves in creating	y of environmer noutside the scl nsomething or p ch team has to	its (woi nool). E perform elabora	rking with Each group activities ate a plan	eative skills in a manner that the students from other or is to work with the instructor in a that will bring happiness to and do its activities. The students of the evaluation	
Style		2nd,3rd, group wide breaks a and discustion of self-resteacher individual performa	and ith 8 nd o over solu liand in ch ance	4th academic to 9 students ther activities a problem to ution to the pr ce, co-operation arge of the te als. The cours	year students from the students from the students will help to be work with, make oblem. Through won, and creativity am. Based on the erubric is used to	om all four depa ent introduces the ould relationship plans, divide ro vorking to solve After the cour course rubric of self-evaluation	nrtment nemselv os withi les amo this pr se stari listribut , mutu	is are rand ves to the in the gro ong the m roblem the t, make su ted in class al evaluat	domly selected to compose a team, they will perform ice up. Later the team will discuss embers and work together a students will achieve the goals ure that you can contact the s each student has to establish ion, and to evaluate the ent has to fill a retrospective sheet	
Notice		evaluation	on by	system of the the teacher in the teacher in the teacher in the term (2).	course is compos n charge of the te	ed on the self-eam (1), and m	valuati ultiple f	on by studaculty me	dents, mutual evaluation, mbers at the briefing session at	
Charact	eristics c	of Class /	Div	ision in Lea	arning					
☐ Active Learning				Aided by IC	Γ	☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan									
			Ther	me			Goals			
1st	1st	1st	men conf advid evalu tean	nbers of each irmation of co ce regarding t uation method	dance, presentati team, team buildi urse schedule, re he activities, expl I. Later team mer ther in charge me building.	ng guidance, strictions and anation of the nbers and the	ng guidance, trictions and anation of the abers and the To acquire Self-reliance Creative Skills.		reliance, Co-operation and	
Semeste Quarter		2nd	goals the a goal, meth and	s. The team wactivities. Late the group wind od, division c	he activity targets ill discuss ideas a r according to the ll work on the impose f roles among the ch will be summa	nd a theme to team activity olementation members		uire Self- ve Skills.	reliance, Co-operation and	

		3rd	Each student set the goals. The team withe activities. Later goal, the group will method, division of and schedule, which action plan.	ill discuss ideas a according to the work on the im froles among the	and a theme to e team activity plementation e members	To acquire Self-receptive Skills.	eliance, Co-ope	ration and	
		4th	Each student set the goals. The team withe activities. Later goal, the group will method, division of and schedule, whice action plan.	ill discuss ideas a according to the work on the im froles among the	and a theme to e team activity plementation e members	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
		5th	Setting targets and action plan. Accord the team, the group them. The group we decide the method role sharing, sched	ling to the theme p will draw ideas vill establish the a to achieve it, de	e and goals of s and discuss activity goal, ecide members'	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
		6th	Team activities: Wolan. The action place ording to sched of the implementat	an may be modifule delay.	fied/changed, completeness	To acquire Self-recreative Skills.	eliance, Co-ope	ration and	
			Team activities: W	ork according to	the action	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
			No mid-term Exam	1		-			
		9th	Team activities: Wolling The action plans. The action plans cording to sched of the implementating session	an may be moditule delay, the indiction method, etc.	fied/changed, completeness	To acquire Self-receptive Skills.	eliance, Co-ope	ration and	
		10th	Team activities: Wolling The action plans. The action plans cording to sched of the implementating session	an may be moditule delay, the indiction method, etc.	fied/changed, completeness	To acquire Self-receptive Skills.	eliance, Co-ope	ration and	
		11th	Team activities: Wolling The action plans. The action plans cording to sched of the implementating session	an may be modifule delay, the indiction method, etc.	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
2nd Qua	rter	12th	Team activities: Wolling The action plans. The action plans cording to sched of the implementathe briefing session	an may be modifule delay, the inc tion method, etc.	fied/changed, completeness	To acquire Self-reliance, Co-operation and Creative Skills.			
			Briefing session: Ro and listen to report			To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
		14th	Retrospective meed The group will disconting session and The students will e mutually their achi- regarding self-relia creativity.	ting and summal uss the results fi d review the teal valuate individua eved points and	ry of activities: om the m action plan. ally and goals,	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and	
		15th	Retrospective mee The group will disc briefing session and The students will e mutually their aching regarding self-relia creativity.	uss the results fr d review the team valuate individua eved points and	rom the m action plan. ally and goals,	To acquire Self-ro Creative Skills.	eliance, Co-ope	ration and	
			No end-term Exam	1					
Evaluation I				Too alised also al	Took: 0	Тори-			
	Self	ividual -reliance ocess)	Individual Co-operation (process)	Individual Creativity (process)	Team Co- operation (process)	Team Creativity (process)	Other	Total	
Subtotal	32	- /	32	16	10	10	0	100	
Basic Proficiency	0		0	0	0	0	0	0	
Specialized Proficiency	0		0	0	0	0	0	0	
Cross Area Proficiency 32 32 16 10						10	0	100	
гтопсієпсу					1	1	1	1	

Akasł	ni Col	lege	Year	2021			ourse	Co+workⅢB
Course Info				1			Title	<u> </u>
Course Code	macı	0012			Course Categor	7	Specializ	ed / Compulsory
Class Format		Seminar			Credits			
Department		Electrical a	and Computer E Engineering Cou	ingineering	Student Grade	dent Grade 4th		
Term		Second Se		1130	Classes per We	ek	2	
Textbook and, Teaching Mate				学習のてびき』、そ			1	じて適宜担当教員が用意する。
Instructor		All faculty						
Course Obje								
自律に関する到 協働に関する到 創造に関する到	達目標 達目標 達目標	: 自己調整が : 他者を尊重 : 発見を促進	できる。 むしながらチーム むし、新しい提案が	で作業ができる。 ができる。				
Rubric					T			
			理想的な到達レ		標準的な到達レク	ベルの目	]安	未到達レベルの目安
自律に関する到	達目標		た報告・連絡・ を立て振り返る	ントや必要に応じ 相談ができ、目標 ことができる。こ の判断と工夫を加 動をとる。	タイムマネジメン た報告・連絡・ を立て振り返るされらのことをやる	相談がて ことがて	でき、目標 できる。こ	タイムマネジメントや必要に応じた報告・連絡・相談、目標を立て振り返ることの行動が伴わない。
協働に関する到	達目標		者を受け入れつる。また、協働とができる。こ	っかりと聞き、他 つ自己表現ができ 作業に貢献するこ れらを自分なりの え最善と思う行動	他者の意見をして 者を受け入れつてる。また、協働付 とができる。これでき時に行う。	つ自己記 作業に買	長現ができ 貢献するこ	他者の意見をしっかりと聞くこと、他者を受け入れつつ自己表現を行う行動が伴わない。また、協働作業に貢献する行動が伴わない。
創造に関する到達目標			情報の収集・意 ノ・サービスの 影響を及ぼす範 できる。また、 ビスを提案でき	味づけができ、モ 制約条件(提案が 囲や条件)を特定 新しいモノ・サー る。これらを自分 夫を加え最善と思	情報の収集・意味 ノ・サービスの記 影響を及ぼす範疇できる。また、 だスを提案できる。 をやるべき時に名	制約条件 囲や条件 新しい <del>1</del> る。これ	‡(提案が ‡)を特定 Eノ・サー	(提案が影響を及ぼす範囲や条件
Assigned De	epartr	ment Obj	ectives					
			效育到達度目標 (H	H)				
Teaching Me	<u>ethod</u>							
Outline		。1人の教員  交わりなど  て行動しチ	員が 1 チームもし () の中で、自律、 ムワークカを 続可能な開発目標	、くは2チームを担当 協働、創造の能力 発揮して、メンバー	当する。多様な環境 を養成することを と協働しながら創	見(他学 目的と 造的な?	科・他学年 する。受講 活動を行う	されたチームで行うPBL型授業である 年の学生との交わり、学外の人々との 生は、自らチーム内での役割を考え ことが求められる。活動テーマは、 、チームにとってのチャレンジを含む
Style		内の人間関通じて、そのでは、 一個ででは、 一個ででは、 一個では、 一面では、 一定では、 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。 一。	係を構築する。次の理解を深める。   する。その後は   週、授業の終わり   次回の目標を立て	欠にチームで、SDG それから話し合い チームで協力、役割 りにチームでふりか てる。第13週に後期	s(持続可能な開発 を通じて、SDGs <i>0</i> 分担をしながら計 えりを行い、報告 l末報告会を行い、	発目標) D目標に 画的に、 書を作り チーム	の17の目 こつながる: . 提案やブ 成し担当教 の活動の朝	介、アイスブレイクを通じてチーム標の目標の細分化項目の調査や把握をチームの活動テーマを確定し、活動計つロトタイプの作成、実践活動などを負しに提出する。必要に応じて修正を設告を行い、他のチームの担当教員やたふりかえりを行う。
Notice		(2)チー  (3)成果   F記 (1)	ムの取り組み209 20%(協働(50 は、ルーブリッ	o (自律 (40%) + 1 % (協働 (50%) + 0%) +創造 (50% クを用いた学生の自 報告会での複数の教 件(割合) 1/4以上の	-創造(50%)) )) 3己評価、相互評価	うしない	の評価をも	5とに、チームの担当教員が評価を行 合格とする。
Characterist	ics of	Class / [	<u>Division in Le</u>	earning				
☑ Active Learn	ning		☑ Aided by IC	T	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced
Course Plan	1							
			heme 話の振の法令も	Lzヅエ타 -L	:	Goals		
2nd 3rd		lst 飼	律、協働、創造     する。活動計画    デュールの遅延 <sup> </sup>	よび活動内容の計画 に関する自己目標を 書に従ってチームで や実施方法の不備等 の修正・変更を行う	各自で定めて記 活動を行う。ス が明らかになっ	活動を	見直し修正	Eをかけることができる
		2nd 活ル		てチームで活動を行 法の不備等が明らか 変更を行う。		自律、	協働、創造	5の能力を身に付ける
	3	Brd に ル		てチームで活動を行 法の不備等が明らか 変更を行う。		自律、	協働、創造	<b>造の能力を身に付ける</b>

### 24th 対数計画 製造のでチームで活動を行う、スケジュー 自律、協働、創造の能力を身に付ける 対数計画のでは、変更を行う。スケジュールの運動を対象が不偏等が関らかになった場合、										
Sth			4th	活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場	ジュー 語合、	自律、協働、	創造の能力を身に付け	ける
6th   活動計画ではつてチームで活動を行う、スケジュー   記載の能力を身に付ける   活動計画の値に・変更を行う。			5th	活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場		自律、協働、	創造の能力を身に付け	ける
7th   活動計画報に従ってチームで活動を行う。スケジュー   日津、協働、創造の能力を身に付ける   「活動計画を施力込みの権害が明らかになった場合   日津、協働、創造の能力を身に付ける   日津・協働、創造の能力を身に付ける   日津・協働、創造の能力を育定している。   日津・協働、創造の能力を育定している。   日津・協働、創造の能力を育定している。   日津・協働、創造の能力を育定している。   日津・協働、創造の能力を育定している。   日津・協働、創造の能力を容観的にふりかえることができる。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を育とした。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を育とした。   日津・協働・関連を関係している。   日津・協働・関連を関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・協働・協働・関連を関係している。   日津・協働・関連を関係している。   日津・協働・協働・協働・協働・協働・協働・協働・協働・協働・協働・協働・協働・協働・			6th	活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場		自律、協働、	創造の能力を身に付け	ける
8th   活動計画地(単立・アチームで活動を行う。スクジュールの選生や実施が込の不偏等が明らかになった場合、活動計画の修正・変更を行う。			7th	活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場		自律、協働、	創造の能力を身に付け	ける
Stabified 芸術 フェームで活動を行う。スグジュールの選集で実施方法の不偏等が明らかになった場合。   自律、協働、創造の能力を身に付ける   10th			8th	活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場		自律、協働、	創造の能力を身に付け	ける
10th   活動計画書に従ってチームで活動を行う。スケシュールの遅延で実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。最終報告会の準備を行う。			9th	活動計 ルの遅 活動計	画書に従ってチーム <sup>・</sup> 延や実施方法の不備	等が明らかになった場	合、	自律、協働、	創造の能力を身に付け	ける
1th			10th	活動計 ルの遅 活動計	画書に従ってチーム <sup>・</sup> 延や実施方法の不備領	等が明らかになった場	給、	自律、協働、	創造の能力を身に付い	ける
4th Quarter         12th         活動計画書に従ってチームで活動を行う。スクジュールの遅延や実施方法の不備等が明らかになった場合で活動計画の修正・変更を行う。最終報告会の準備を行う。         自律、協働、創造の能力を身に付ける           13th         後期末報告会         13th         後期末報告会         他のチームの活動について報告を行う。他のチームの活動について報告を行う。他のチームの報告を聞く。         他のチームの活動を詳潔に伝えることができる           14th         振り返り会・これまでの活動のまとめ後期末報告会の振り返りを行うと共にごれまでのチーム活動を省み、チームの評価を行う。各自の行動を客観的にふりかえることができるかて、自律、協働、創造に関して目標達成した点や反省点を自己および相互に記録する。         チームや自身の行動を客観的にふりかえることができるができるとにチーム担当教員より個別にフィードバックを受けるにチーム担当教員より個別にフィードバックを受けるにチーム担当教員より個別にフィードバックを受けるにチームや自身の行動を客観的にふりかえることができるとにチーム担当教員より個別にフィードバックを受けるの情報を表し、信息を表して、対しては、大きないのでは、大きないのできるができるとができるができるができるがある。自己および相互の行動の記録をもとにチーム担当教員より個別にフィードバックを受けるの情報を表して、対しては、大きないのできるとができるとができるとができるができるができるがある。自己および相互の行動の記録を表し、対しては、対しては、対しては、対しては、対しては、対しては、対しては、対して			11th	活動計 ルの遅 活動計	画書に従ってチーム 延や実施方法の不備	等が明らかになった場	合、	自律、協働、	創造の能力を身に付い	ける
13th 活動内容を共有するためにチームの活動について報告 を行う。他のチームの報告を聞く。			12th	活動計 ルの遅 活動計	画書に従ってチーム <sup>・</sup> 延や実施方法の不備	等が明らかになった場	合、	自律、協働、	創造の能力を身に付け	ける
14th   後期末報告会の振り返うを行うと共にこれまでのチーム活動を省み、チームの評価を行うと共にこれまでの手の表も自の行動を名談する。			13th	活動内	容を共有するために	チームの活動について を聞く。	報告	他のチームの チームの活動	活動を共有し、評価を簡潔に伝えることが	する ができる
15th   接期末報告会の振り返りを行うと共にこれまでのチーム活動を省みる。自己および相互の行動の記録をもとにチーム担当教員より個別にフィードバックを受ける。			14th	後期末	報告会の振り返りを征 を省み、チームの評値 自律、協働、創造に「	行うと共にこれまでの 価を行う。各自の行動 関して目標達成した点	)チー かを省 点や反		の行動を客観的にふり	りかえることができ
Evaluation Method and Weight (%)       個人評価 (プロセ ス評価) (自律)     個人評価 (プロセ ス評価) (協働)     個人評価 (プロセ ス評価) (創造)     チーム評価 (成果 物、報告会) (協働)     チーム評価 (成果 物、報告会) (創造)     Total       Subtotal     24     24     12     20     20     100       基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     0     0			15th	後期末ム活動	報告会の振り返りを存 を省みる。自己およる	行うと共にこれまでσ び相互の行動の記録を	きもと		の行動を客観的にふり	りかえることができ
個人評価 (プロセ ス評価) (自律)     個人評価 (プロセ ス評価) (協働)     個人評価 (プロセ ス評価) (創造)     チーム評価 (成果 物、報告会) (協働)     チーム評価 (成果 物、報告会) (創造)       Subtotal     24     24     12     20     20     100       基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     0     0										
Subtotal     24     24     12     20     20     100       基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     0     0     0	Evaluati	<u>ion Met</u>	nod and \	Weigh	t (%)	T	Τ.		T	
基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     0     0			個人評価(ス評価)(目	プロセ 自律)	個人評価(プロセス評価)(協働)	個人評価(プロセ ス評価)(創造)	物、韓	海評価(成果 服告会)(協	物、報告会)(創	Total
専門的能力 0 0 0 0 0 0	Subtotal		24		24	12	20		20	100
	基礎的能力	J	0		0	0	0			0
分野横断的能力   24   12   20   20   100	専門的能力					0		1	0	
	分野横断的	能力	24		24	12	20		20	100

Akashi College		Year	2021			ourse Title	Applied Physics I			
Course Information Course Code 0013										
Course Co	ode	0013			y	Specialize	ed / Compulsory			
Class Forr	mat	Lecture			Credits		School C	redit: 1		
Departme	ent	Electrical	and Computer E Engineering Cou		Student Grade					
Term		First Sem	ester		Classes per We	ek	2			
Textbook Teaching	Matérials									
Instructor			ARA Hiromichi							
	Objectiv									
(1) Under (2) Under (3) Under	stand the stand the stand the	description of basics of ho basics of ho	of motion of an c w to handle poin w to handle rigid	bject and the fund t masses in gener body based on th	damental laws o al based on the ne fundamental l	f mech fundan aws of	anics. nental law mechanio	s of mechanics.		
Rubric										
			Ideal Level		Standard Level			Unacceptable Level		
Achievem	ent 1		the motion of a		Can explain the the motion of a fundamental larand apply them questions.	n objection	ct and the nechanics			
Achievem	ent 2		handle point m	ectly, and apply	Can explain the handle point m the fundamenta mechanics, and specific questio	asses b al laws I apply	ased on of	Cannot explain the basics of how to handle point masses based on the fundamental laws of mechanics, or apply them to specific questions.		
Achievem	ent 3		handle rigid bo	e basics of how to dy based on the ws of mechanics apply them to ans accurately.	Can explain the handle rigid bod fundamental lar and apply them questions.	dy base ws of n	ed on the nechanics	on the fundamental laws of		
Assiane	d Depart	ment Ob	ectives		•			,		
			教育到達度目標 (C	G)						
Teachin	g Metho	d d								
Outline	<u> </u>		ing Science IIIA (second semester), this course will lecture on mechanics.							
Style		Classes	es will be taught in a lecture style, and there will also be exercises and quizzes.							
Notice		understar students physics sy Student their attit	nd the laws that of should be aware ystematically. Its can earn extra ude, etc. in the c	govern them (incli of the relationship points by submitt	uding being able os between the v ing voluntary as	to app various ssignme	oly them to laws, and ents, and	vidually, students should o specific situations). Also, d try to understand concepts in lose their points depending on rade.		
Charact	eristics o		Division in Le		-					
□ Active		,	☐ Aided by IC		☑ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced		
Course	Plan	· · · · · · · · · · · · · · · · · · ·								
		7	heme			Goals				
		1st N	otion and force,	and mechanical	energy	and sp	aces base	andle motion and force in planes ed on the laws of motion. It is about mechanical energy.		
2nd		2nd N	lotion and force,	and mechanical	energy	and sp	aces base	indle motion and force in planes ed on the laws of motion. It is about mechanical energy.		
3r		3rd N	Notion and force,	and mechanical	energy	Learn land sp	how to ha	andle motion and force in planes and on the laws of motion. It is about mechanical energy.		
1st Semeste	1st	4th N	otion and force,	and mechanical		Learn and sp	how to ha	andle motion and force in planes ed on the laws of motion. It is about mechanical energy.		
r	Quarter	5th N	otion and force,	and mechanical		Learn l	how to ha	andle motion and force in planes ed on the laws of motion. It is		
		6th L	aw on momentu	m and angular mo	omentum	Learn l	how to ha tational m	about mechanical energy.  Indle motion of center-of-mass notion, especially the laws of angular momentum.		
		7th L	aw on momentu	m and angular mo	omentum	Learn and ro	how to ha tational m	andle motion of center-of-mass notion, especially the laws of angular momentum.		
		8th N	lidterm exam				a.ii aiia	angular momentum		

		9th	Law on momentum and angular m	omentum	Learn how to handle motion of center-of-mass and rotational motion, especially the laws of momentum and angular momentum.		
		10th	Law on momentum and angular m	omentum		ndle motion of center-of-mass otion, especially the laws of angular momentum.	
		11th	Rigid body dynamics		Learn how to har fundamental of m	ndle rigid bodies based on nechanics.	
	2nd Quarter	12th	Rigid body dynamics		Learn how to har fundamental of m	ndle rigid bodies based on nechanics.	
		13th	Rigid body dynamics		Learn how to handle rigid bodies based on fundamental of mechanics.		
		14th	Rigid body dynamics		Learn how to handle rigid bodies based on fundamental of mechanics.		
		15th	Rigid body dynamics		Learn how to har fundamental of m	ndle rigid bodies based on nechanics.	
		16th	Final exam				
Evaluati	on Meth	od and V	Weight (%)				
			Examination			Total	
Subtotal	Subtotal		60	<u> </u>		100	
Basic Proficiency			0 0			0	
Specialized Proficiency			60	60 40		100	
Cross Area Proficiency			0	0		0	

A	Akashi College		Year		2021			ourse Title	Applied Physics II	
Course	Informa	tion								
Course Co	ode	0014				Course Categor	у	Specializ	ed / Compulsory	
Class For	mat	Lecture				Credits	School Cr		Credit: 1	
Departme	ent		and Compute Engineering			Student Grade		4th		
Term		Second S			1130	Classes per Wee	ek	2		
Textbook	and/or	Jecona e	Ciricotei			Toldsoes per Wee	or			
Teaching	Matérials									
Instructo			ARA Hiromich	ni						
	Objectiv									
(2) Under (3) Under	rstand the rstand the	basics of op basics of the	tics. ermodynamic	s.	eation phenomena ent in a report.	in mechanics.				
Rubric	•				•					
			Ideal Level			Standard Level			Unacceptable Level	
Achievem	nent 1		of vibration correctly ar	ph nd a	e basic concepts lenomena apply them to ons accurately.	Can explain the of vibration phe apply them to s questions.	nomen		Cannot explain the basic concepts of vibration phenomena or apply them to specific questions.	
Achievem	nent 2		of optics co	rre	e basic concepts ctly and apply ic questions	Can explain the of optics and ap specific question	ply the		Cannot explain the basic concepts of optics or apply them to specific questions.	
Achievem	nent 3		Can explair of thermod	yna her	e basic concepts amics correctly n to specific irately.	Can explain the of thermodynan them to specific	nics an	d apply	Cannot explain the basic concepts of thermodynamics or apply them to specific questions.	
Achievem	schievement 4 the				rate insight into ts conducted by d summarize the riately in a report.	Can give insight experiments con themselves and results in a repo	nducted summ	d by	Cannot give insight into the experiments conducted by themselves or summarize the results in a report.	
Assigne	d Depar	tment Ob	jectives							
学習・教育	到達度目標	票 (D) 学習・	教育到達度目標	票 ((	G)					
Teachir	g Metho	od								
Outline	_	Among	the major fie	lds	in classical physic	s, this course wil	l lectur	e on vib	ration in mechanics, optics, and	
					lso involve mećha					
Style		there will	classes will be taught in a lecture style, and there be two classes to conduct experiments.					o de exe	ercises and quizzes. In addition,	
Notice		understar situations understar Studen their attit The sch	nd the laws	nat ents n pl xtra he o	the knowledges as should be aware hysics systematica points by submit class.	re derived from ( of the relationshi lly. ting voluntary as: hanged dependir	includir ips betv signme na on tl	ng the al ween the ints, and ne usage	ividually, students should bility to apply them to specific e various laws, and try to lose their points depending on e of the laboratory, etc. grade.	
Charact	eristics	of Class /	Division in	Le	earning					
☐ Active	Learning		□ Aided b	y IC	СТ	☑ Applicable to	Remo	te Class	☐ Instructor Professionally Experienced	
Course	Plan									
204130		-	Theme			10	Goals			
				ab	out vibration	ı	Learn s		pics about vibration based on the mathematics learned so far.	
		2nd S	Several topics	ab	out vibration		Learn s	ome top	pics about vibration based on the mathematics learned so far.	
	and	3rd S	Several topics	ab	out vibration	ı	Learn s	ome top	pics about vibration based on the mathematics learned so far.	
	3rd Quarter	4th	Basics in option	S.					s of optics.	
			Basics in option						s of optics.	
2nd			Basics in option						s of optics.	
I   —		7th	Basics in option	:S			Learn t	he basic	s of optics.	
		8th I	4idterm exan	1						
		9th	Mechanical ex	per	riments	<u> </u>	Learn h the the	now to come of m	onduct and report experiments on echanical measurement.	
	4th	10th	Mechanical ex	per	riments				onduct and report experiments on echanical measurement.	
	Quarter	11th	Basics in ther	mod	dynamics				s of thermodynamics.	
		12th	Basics in ther	mod	dynamics		Learn t	he basic	s of thermodynamics.	
		13th	Basics in ther	mod	dynamics		Learn t	he basic	s of thermodynamics.	

14	4th	Basics in thermodyna	mics	Learn the basics of the	modynamics.				
15	5th	Basics in thermodyna	mics	Learn the basics of the	modynamics.				
16	6th	Final exam							
Evaluation Method and Weight (%)									
	Exa	amination	Exercise / Short test	Report	Total				
Subtotal	48		32	20	100				
Basic Proficiency	0		0	0	0				
Specialized Proficiency			32	20	100				
Cross Area Proficiency 0			0	0	0				

Akashi College		Year	2021		Course Title	Transient Analysis on Electric Circuits					
Course	Informat	ion									
Course Co	ode	0015			Course Catego	ry Specializ	ed / Compulsory				
Class Forr	mat	Lecture			Credits	School C	redit: 1				
Departme	ent	Electrical Electrical	and Computer E Engineering Cou	ingineering Irse	Student Grade	4th					
Term		First Sen	ester	ester Classes per Week 2							
Textbook Teaching		本郷忠敬	音:「基礎 過渡現象」、オーム社								
Instructor		SUYAMA	Taikei								
	Objectiv		Taikei	IINCI							
			解法を理解すること	ト. 数学的解釈のみ	にとどまらず、物	理的音味も理解す					
。 (1)単エネルギー回路(R-L回路, R-C回路) 単エネルギー回路の理解と解法。 (2)複エネルギー回路(R-L-C回路) 複数種のエネルギー問題。発振回路の基本的な設計知識。 (3)分布定数回路 基本的性質の理解と通信回線・送電線など現実の線路との関連。											
Rubric											
			理想的な到達レ		標準的な到達レ		未到達レベルの目安				
評価項目1			路):単エネル	路(R-L回路, R-C回 ギー回路の問題と解 際問題が解ける。	単エネルギー回路): 単エネルコ 法を理解できる。		□ 単エネルギー回路(R-L回路, R-C回 路):単エネルギー回路の問題と解 法を理解できない。				
評価項目2			複エネルギー回 : 複数種のエネ 回路の基本的な	ルギー問題、発振	複エネルギー回流: 複数種のエネル回路の基本的な記。	路(R-L-C回路) ルギー問題、発振 設計が理解できる	複エネルギー回路(R-L-C回路) :複数種のエネルギー問題、発振 回路の基本的な設計ができない。				
評価項目3			分布定数回路: 回線・送電線な 関連を理解し、	基本的性質と通信 ど現実の線路との 問題を解決できる	分布定数回路: 回線・送電線な 関連が理解でき	基本的性質と通信 ど現実の線路との る。	分布定数回路: 基本的性質と通信 回線・送電線など現実の線路との 関連が理解できない。				
Assigne	d Depart	ment Ob	jectives								
				-) 学習・教育到達度	目標 (H)						
Teachin	g Metho	d									
Outline				を明らかにし、単・礼 使用して微分方程式			過渡現象について学ぶ。そのような				
Style		定期試験 上記成績 合格の基 (1)過度 (2)単・複 こと。 (3)数学的	00%。 が総合60点以上で 建は次の3点である 象に関する基礎的 エネルギー回路、 解釈のみにとどま	な問題と解法を理解分布定数回路の過渡 らず、物理的意味を	?すること。 !現象を理解し、角 !理解すること。						
Notice		強してお・	く必要がある。	か万程式を解く <i>こと)</i> 牛(割合) 1/3以上の		種々の数字関数の	ラプラス変換・逆変換をしっかり勉				
Charact	eristics o		Division in Le								
☐ Active	Learning		☐ Aided by I	CT	☑ Applicable t	o Remote Class	☐ Instructor Professionally Experienced				
Course	Plan										
			Гһете			Goals					
		1st	ハについて、学習(	法の準備 な概念について説明 の指針を述べる。単 問題の解法を説明する	エネルギーR-	単エネルギーR-L きる。	回路の過渡現象問題の解法を説明で				
1st Semeste	1st	2nd	一般的にR-Lまたに ルギーまたは磁界 で、振動が起こら な回路について学	単工ネルギー回路の過渡現象(1) -般的にR-LまたはR-C回路の過渡現象では、静電エネ R レギーまたは磁界エネルギーの一方しか存在しないの ガ			路の過渡現象では、静電エネルギーま デーの一方しか存在しないので、振動 とを理解できる。				
r Quarter		3rd	単エネルギー回路 LR回路に交流起電 充起電力を加える を学習する。	の過渡現象(2) 力を加える場合の解 場合、単エネルギー	法を説明し、交 回路の過渡現象	LR回路に交流起電力を加える場合、単エネルギー回路の過渡現象を理解できる。					
		4th	る、即ちL.C.Rが混	ニネルギーと静電エネ 混在する回路では、微 場合とそうでない場	数分方程式は2階	複エネルギー回路 法を理解できる。	各の過渡現象の基礎、微分方程式の解				

フラフス変換の定義、フラフス変換の諸を理性と逆変換   フラス変換を電影している関連解写の指針 を与える。実際に問題を解く場合に必要なフラフス変   投の籍定理と逆変換にといて、解説と調査を行う。上 で臨流の一般解を求める方法を理解できる。										
6th   上との両方を含が超エネルギー回路について、ラブラス変換を用いて、複エネルギー回路の電圧・電		5th	ラブラス変換を定すを与える。実際に開換の諸定理と逆変換たはCを含む基本的いて、電圧・電流の	えし、これを用いた 別題を解く場合に必 をについて、解説と 回路について、ラ	問題解法の指針 要なラプラス変 演習を行う。Lま プラス変換を用	ラプラス変換の諸言さを表示の一般解で 一般解である。	ラプラス変換の諸定理と逆変換を理解し、LまたはCを 含む基本的回路について、ラプラス変換を用いて、電 圧・電流の一般解を求める方法を理解できる。			
おth   単二ネルギー回路と複エネルギー回路の過渡現象についての演習を行う。   おth   中間試験   中間試験   中間試験   中間試験   中間試験   中間試験   中間試験		6th	LとCの両方を含むれ  ス変換を用いて、電	复エネルギー回路に	こついて、ラプラ	ラプラス変換を用い流の一般解を求める	ハて、複エネル <del>-</del> ることができる。	ギー回路の電圧・電		
9th   複工ネルギー回路の過渡現象(2)   直流起電力を加える場合、複工ネルギー回路のLRC回路の放電の過渡現象について学習する。		7th	単エネルギー回路と	△複エネルギー回路	の過渡現象につ	単エネルギー回路の	単エネルギー回路と複エネルギー回路の過渡現象につ			
Pth		8th	中間試験			中間試験				
10th   交流起電力を加える場合、複工ネルギー回路のLRC回路に交流起電力を加える場合の過渡現象について学習する。		9th	直流起電力を加える	5場合、複エネルギ	一回路のLRC回 。	直流起電力を加える場合、複エネルギー回路のLRC回路の放電の過渡現象を理解できる。				
2nd Quarter         12th         にRM回路について学習する。         相互誘導回路の上RM回路の特性を理解できる。           2nd Quarter         分布定数回路の定常現象と過渡現象時における基礎方程式を導出し、基本的な概念と考え方について説明する。         分布定数回路の定常現象と過渡現象時における基礎方程式を導出し、基本的な概念と考え方を理解できる。           13th         分布定数回路の過渡現象線・無ひずみ線路について、ラブラス変換を用いた解法を紹介する。         無限長線路・無損失線路・無ひずみ線路について、ラブラス変換を用いた解法を理解できる。           か布定数回路の過渡現象(2) 前週に続き、分布定数回路の過渡現象について、ラブラス変換を用いた解法を学習する。線路上の波動伝搬速度を求める。         次布定数回路の過渡現象について、ラブラス変換を用いた解法を学習する。線路上の波動伝搬速度を求めることができる。           演習 (まてネルギー回路と分布定数回路についての演習を行う。         16th 期末試験         期末試験           Evaluation Method and Weight (%)         態度         ポートフォリオ その他 Total           Subtotal         100         0         0         0         0           基礎的能力         0         0         0         0         0           専門的能力         100         0         0         0         0         0		10th	交流起電力を加える   路に交流起電力を加	)過渡現象(3) 3場合、複エネルギロえる場合の過渡現	ー回路のLRC回 象について学習	交流起電力を加える路に交流起電力を加える。	る場合、複エネル 加える場合の過	ルギー回路のLRC回 度現象を理解できる		
2nd Quarter         12th Quarter         分布定数回路の定常現象と過渡現象時における基礎方程式を導出し、基本的な概念と考え方について説明する。         分布定数回路の過渡現象(1) 程式を導出し、基本的な概念と考え方を理解できる。         2nd 分布定数回路の過渡現象(1) 無限長線路・無損失線路・無力ずみ線路について、ラブラス変換を用いた解法を紹介する。         無限長線路・無損失線路・無力ずみ線路について、ラブラス変換を用いた解法を紹介する。         無限長線路・無損失線路・無ひずみ線路について、ラブラス変換を用いた解法を理解できる。           14th 前週に続き、分布定数回路の過渡現象(2) 前週に続き、分布定数回路の過渡現象について、ラブラス変換を用いた解法を学習する。線路上の波動伝搬速度を求めることができる。         方布定数回路の過渡現象について、ラブラス変換を用いた解法を学習する。線路上の波動伝搬速度を求めることができる。           15th 規工ネルギー回路と分布定数回路についての演習を行う。         16th 期末試験         期末試験           Evaluation Method and Weight (%)         態度 ポートフォリオ その他 Total           Subtotal 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		11th	相互誘導回路 LRM回路について	学習する。		相互誘導回路のLR	M回路の特性を	 理解できる。		
13th			分布定数回路の定常現象と過渡現象時における基礎方程式を導出し、基本的な概念と考え方について説明す			分布定数回路の定常 程式を導出し、基本	常現象と過渡現3 本的な概念と考え	象時における基礎方 え方を理解できる。		
14th 前週に続き、分布定数回路の過渡現象について、ラブラス変換を用いた解法を学習する。線路上の波動伝搬速度を求める。   15th   渡習			無限長線路・無損労	₹線路・無ひずみ線	路について、ラ					
15th   複工ネルギー回路と分布定数回路についての演習を行う。   16th   期末試験   期末試験   期末試験   期末試験   ま試験   ままま   まままま   まままままままままままままままま		14th	前週に続き、分布はラス変換を用いた角	『数回路の過渡現象	について、ラプ 路上の波動伝搬	いた解法を学習する。線路上の波動伝搬速度を求める				
Evaluation Method and Weight (%)       試験     演習     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     100     0     0     0     0     100       基礎的能力     0     0     0     0     0     0       専門的能力     100     0     0     0     0     100		15th	複エネルギー回路と	_分布定数回路につ	いての演習を行	複エネルギー回路と分布定数回路についての演習を行				
試験     演習     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     100     0     0     0     0     100       基礎的能力     0     0     0     0     0     0       専門的能力     100     0     0     0     0     0										
試験     演習     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     100     0     0     0     0     100       基礎的能力     0     0     0     0     0     0       専門的能力     100     0     0     0     0     0	Evaluation Me	thod and	Weight (%)							
基礎的能力     0     0     0     0     0     0       専門的能力     100     0     0     0     0     0		試験	演習	相互評価	態度	ポートフォリオ	その他	Total		
専門的能力 100 0 0 0 0 100	Subtotal	100	0	0	0	0	0	100		
	基礎的能力	0	0	0	0	0	0	0		
分野横断的能力   0   0   0   0   0   0   0   0   0	専門的能力	100	0	0		0	0	100		
(*************************************	分野横断的能力	0	0	0	0	0	0	0		

А	kashi Co	ollege	Year	2021		Course Title	Electronic Circuits I		
Course	Informa	tion							
Course Co	ode	0016			Course Category	Specialize	ed / Compulsory		
Class Forr	mat	Lecture			Credits	School C	redit: 1		
Departme	ent	Electrical Electrical	and Computer E Engineering Cou	ingineering Irse	Student Grade	4th			
Term		First Sen	nester		Classes per Week 2				
Textbook Teaching		伊東規之	: 「テキストブック	7電子回路」,日本理	里工出版会				
Instructor	r	OHMUKA	I Masato						
Course	Objectiv	es							
以下の能力 1) 能動素- 2) 増幅回過	」を修得する 子の特徴を <sup>3</sup> 路の基礎動	ることを目標。 理解し,それ 作と特性につ	とする. らを用いた基本的 いて正確に理解し	な回路について,原 、等価回路を用いて	理および特性を正确 解析できる.	雀に理解し,解析	fできる.		
Rubric									
			理想的な到達レベルの目安標準的な到達レベルの目安に			ルの目安	未到達レベルの目安		
評価項目1		を用いた基本的	数を理解し,それら 能動素子の特徴を 的な回路について をを用いた基本的 特性を正確に理解し ,原理および特性 できる.		な回路について	能動素子素子の特徴を理解し、それらを用いた基本的な回路について、原理および特性を理解できない。			
評価項目2			増幅回路につい 性を正確に理解 できる.	て,原理および特 し,定量的に解析	増幅回路について 性を理解し,解析	, 原理および特 できる.	増幅回路について,原理および特性を理解できない.		
Assigne	d Depar	tment Ob	jectives						
学習・教育	到達度目標	票 (D) 学習・	教育到達度目標 (F	-) 学習・教育到達度	目標 (H)				
Teachin	g Metho	d							
Outline		ダイオーいて解説で	ド, トランジスタヤ する.	で電界効果トランジス	スタ(FET)などの能	動素子の動作原理	里とそれを利用した基礎的な回路につ		
Style				」やすい順序に並べ替 D個人指導を行い、オ			義を行い概略を説明したあと、各自		
Notice		授業中は 必要。課題 欠課	集中して理解に努め 頃が出された場合は	か、わからないとこ? は必ず期限までに提出 ないである。	ろを授業中に質問し 出しなければならな	て解決していく い。合格の対象	プロセスが求められる。毎回復習が としない欠席条件(割合) 1/3以上の		
Charact	eristics		Division in Le	arning					
□ Active		•	☐ Aided by IC		☐ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
			Theme			Goals			
		1st :	半導体 			解できる.	び半導体内の電気伝導原理について		
		2nd	ダイオード 			on接合の整流作用および電圧電流特性について理解できる.			
	4 4	3rd	トランジスタ			トランジスタの基本構造,動作および静特性について 理解できる.			
	1st Quarter	4th I	固定バイアス回路の	とトランジスタの動作	F 7	固定バイアス回路におけるトランジスタの動作につい て理解できる.			
		5th	熱暴走と各種バイス	アス回路		熱暴走と各種バイアス回路について理解できる.			
		6th	トランジスタの周波	皮数特性と3つの接切		トランジスタの周波数特性と3つの接地方式の違いに ついて理解できる.			
		7th ?					)理解を確実なものとする.		
1st		8th	中間試験						
Semeste  r		9th	トランジスタの小僧	言号等価回路	1	トランジスタの小	信号等価回路について理解できる.		
		10th	小信号等価回路に。	よる解析	/J	(信号等価回路を	用いた解析手法について理解できる		
		11th	小信号等価回路に。	よる解析 2		3 つの周波数領域 翼できる.	において等価回路の違いについて理		
	2nd	12th	ミラー効果とその原	芯用		ミラー効果と負性	容量増幅回路について理解できる.		
	2nd Quarter	13th	ミラー効果の応用。	とピーキング、エミ	ッタフォロワー   st と	ミラー効果のOP 5について理解で 2解析について知	アンプへの適用とピーキングの考え きる.またエミッタフォロワの特徴 1る.		
		14th	FETの種類と動作原	·····································	6	- 種類のFETの	動作原理と違いについて理解できる		
		15th 2	复習	習			これまでの内容の理解を確実なものとする。		
			期末演習						
Evaluati	ion Meth	od and W	/eight (%)						
			試験		その他		Total		
Subtotal			70		30		100		
基礎的能力			0		0		0		

専門的能力	70	30	100
分野横断的能力	0	0	0

Δ	Akashi Co	ollege	Year	2021		Course Title	Electronic Circuits II		
Course	Informa	tion	L	1		1			
Course Co	ode	0017			Course Category	/ Specializ	zed / Compulsory		
Class For	mat	Lecture			Credits	School Credit: 1			
Departme	ent		and Computer E Engineering Cou		Student Grade	4th			
Term		Second Se			Classes per Wee	eek 2			
Textbook		伊東規之:	「テキストブック		<del> </del>				
Instructo	<u>Materials</u>	OHMUKAI		, , , , , , , , , , , , , , , , , , , ,					
	Objectiv		Masaco						
以下の能力 1)電力増 2)負帰還 3)演算増 4)発振・	つを修得する 幅回路の仕 回路と発振 幅器を用い	ることを目標と 組みを正確に理 回路の原理を定 た回路について	理解し、電源効率 E量的に理解でき C、原理および特	を考察できる。 る。 性を正確に理解でき を正確に理解し,角	きる. 解析,設計できる.				
Rubric			理相的+\A\+	<b>ベルの日</b> 字	無準的+>列表」 ☆		ナ列をレベルの日ウ		
			理想的な到達し	<u>ヘルの日安</u> 仕組みを正確に理	標準的な到達レベ電力増幅回路の仕		未到達レベルの目安		
評価項目1	-		電力塩幅凹路の		電源効率をある程		ず、電源効率を考察できない。		
評価項目2	2		負帰還回路と発 量的に理解でき	振回路の原理を定 る。	負帰還回路と発振 解できる。	回路の原理を理	皇 負帰還回路と発振回路の原理を理解できない。		
評価項目3	}		,原理および特 ,解析,設計でき		演算増幅器を用い , 原理および特性 ,設計できる.	た回路について を理解し,解析	「 , 原理および特性を理解できない ・		
評価項目4   , ,			発振・変調・復 , 原理および特 きる.	調回路について 性を正確に理解で	発振・変調・復調回路について , 原理および特性を理解できる.		発振・変調・復調回路について , 原理および特性を理解できない		
Assigne	ed Depar	tment Obje	ectives						
Teachin	ng Metho	od							
Outline		ダイオード いて解説す	, トランジスタヤ	P電界効果トランジ	スタ(FET)などの能	動素子の動作原	理とそれを利用した基礎的な回路につ		
Style	教科書から町拴躍切し田館しやオン順度に並べ麸ラア議業形式						- 講義を行い概略を説明したあと、各自		
Notice		授業中は集 必要。課題	中して理解に努め が出された場合に	り、わからないとこ	ろを授業中に質問し 出しなければならな	して解決していく	、プロセスが求められる。 毎回復習が ぶ締切を越えると未提出扱いとなる。		
Charact	eristics (		Division in Le	•	/ 八郎木				
	Learning	01 01033 / 2	☐ Aided by IC		☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
6	DI								
Course	Pian		heme		1	Coals			
						Goals トランス結合増加	偏向路の動作を理解し、 同調増幅向路		
		1st	・ランス結合増幅回	3路、同調増幅回路	1. 99LJJ	トランス結合増幅回路の動作を理解し、同調増幅回路の構成と特徴を理解できる。			
		2nd 最	大定格とA級電力	力増幅回路			が理解できる。A級電力増幅回路につ 計算できる		
		3rd B	級プッシュプル電	電力増幅回路		いて電源効率を計算できる。  B級プッシュプル電力増幅回路の動作原理が理解でき、SEPP回路とその応用回路について動作が理解できる。			
	3rd Quarter	4th C	級電力増幅回路と	上負帰還増幅回路		C級電力増幅回路の動作について理解でき、負帰還増幅回路の特徴が理解できる。			
		5th 負	帰還増幅回路の原	芯用例とLC発振回	1992 月		の応用例について理解でき、各種 の応用例について理解でき、各種		
		6th 水	、晶発振回路とR(			水晶発振回路と名 理解できる。	各種R C発振回路についてその原理が		
2nd Semeste		7th 復	習			これまでの内容の	の理解を確実なものとする.		
r		8th 中	間試験						
		9th 変	調と復調および⁄	ベース変調回路		変調と復調の原理 調回路の仕組みが	里について理解できる。またベース変 が理解できる。		
		10th 温		M復調回路。 F M変	調回路とFM復	コレクタ変調の作	土組みが理解でき、FMの変調回路と てその動作原理が理解できる。		
	44.1	11th	源回路				回路、安定化回路について理解できる		
	4th Quarter	12th C	Rを用いた積分回	回路と微分回路		CRを用いた積分	分回路と微分回路を定量的に解析でき		
			Pアンプ			O P アンプの各種	重回路を定量的に理解できる。		
			リッパーとクラン	ンパー			ランパーの動作原理を理解できる。		
			習		;	これまでの内容の	0理解を確実なものとする。		
			末演習						
Evaluat	ion Meth	od and We	eight (%)						

	試験	その他	Total
Subtotal	70	30	100
基礎的能力	0	0	0
専門的能力	70	30	100
分野横断的能力	0	0	0

A	Akashi Co	ollege	Year	2021		Course Title	Control Engineering I		
Course	Informa	tion	I			Title			
Course Co		0018			Course Category	Specializ	zed / Compulsory		
Class For	mat	Lecture			Credits		ic Credit: 2		
Departme	ent	Electric	al and Computer I al Engineering Co	Engineering	Student Grade	4th			
Term			Semester	urse	Classes per Wee	k 2			
Textbook		「制御工			· · · · · · · · · · · · · · · · · · ·		高等専門学校制御工学教育連携プロジ		
	Materials	エクト							
Instructo		KAMI Y	asushi						
1. 伝達 2. ブロッ 3. 過渡特 4. 定常特 5. 周波巻	yク線図を月 寺性について 寺性について 教特性につい	こシステムの 目いたシスラ て, ステッフ て, 定常偏差 いて ボート	D入出力特性を表現 こム表現が理解でき が応答を用いて説明 きを用いて説明でき ※線図を用いて説明 で割別法(ナイキス	る できる る	ついて説明できる				
Rubric									
/\±-00*/-		- / 6 = 10	理想的な到達し		標準的な到達レベ		未到達レベルの目安		
伝達関数(	こよるシスラ	アムの表現	伝達関数を正確	<u> </u>	伝達関数の導出方 ブロック線図の直				
ブロック約 現	泉図によるう	システムの割	ック結合から構 線図を簡単化で	誠されるブロック	クロック線図の値   合, フィードバッ   簡単化できる	列福日、並列福 ク結合をすべて	! ブロック線図の構成要素を理解で きない		
過渡特性の	の評価		ステップ応答に 評価指標につい きる	おける過渡特性のいて,すべて説明で	ステップ応答にお 評価指標について 明できる	ける過渡特性の , いくつかを説	過渡特性の評価指標について,全 く説明できない		
定常特性の	の評価		で,正確に定常	)方を導出できた上 な偏差を算出できる	定常偏差の求め方 知っている		た		
ボード線図 現	図による周波	皮数応答の表	表現できる	さして得られるシス 答をボード線図で	基本要素のいくつ 波数応答をボード る	かについて,周 線図で表現でき	ボード線図を知らない		
ナイキストの安定判別法 ナイキストの安定判別法 , フィードバック制御等を正確に判別できる				ナイキストの安定 定判別の方針を説		ナイキストの安定判別法を説明できない			
学習·教育 Teachin		票 (D) 学習 od		F) 学習・教育到達原まり意識せずに使っ		コン, 冷蔵庫な	など、身の回りにあるほとんど全ての 1答を中心とした古典制御の基礎を学		
Outline		ぶ. また	, 適冝課す演習を	通して,講義内容の	本講義では, 伝達 理解を深める. 答, 安定性に関する				
Style		ほぼ毎回	]の授業で,講義内?	容を復習するための	自学自習用課題を出	題する.			
Notice		適宜課す とする. 具体的 準的な自 合格の対	演習は自分で考え 本科目は学修単位 な条件は講義中に 日学習時間の総計 対象としない欠席条	て実際に解き,計算 適用科目であるため 示す.本科目は,授 が,90時間に相当す 件(割合) 1/3以上の	に慣れておくこと. , 課題の提出状況や 業で保証する学習時 る学習内容である. )欠課	本科目は, ラフ その内容により 間と, 予習・復	プラス変換・逆変換の基礎知識を前提 ),合格の対象とならないことがある 夏習及び課題レポート作成に必要な標		
Charact	teristics		/ Division in Le						
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
204130	1 1011		Theme		l c	Goals			
		1st	イントロダクショ	<u></u> ン	i	講義の目的,成績	責評価方法等について理解する 制御の仕組みを説明できる		
		2nd	微分方程式による	モデリング	ţ.				
		3rd	伝達関数				用いて伝達関数を導出できる		
. 3rd		4th	ブロック線図			直列結合,並列結合,フィードバック結合を簡単化できる 上記の3つの結合から構成されるブロック線図を簡単化できる			
2nd Semeste r	Quarter	5th	基本要素とその時	本要素とその時間応答			基本要素 (6種類) の名称を説明できる 時間応答の観点から, 基本要素の特性を説明できる		
		6th	時間応答の評価指	標	Z	ステップ応答を用いて過渡特性の評価指標を説明る 定常偏差について説明できる 定常偏差を算出できる			
		7th	復習			前半の講義内容の			
		8th	中間試験			<u> </u>			
	4th Quarter	9th	周波数応答とは		月月月	間波数応答の定 間波数伝達関数。	義を説明できる とゲイン・位相の対応を説明できる		

	10th	ベクトル軌跡				基本要素のベクトル軌跡の特徴を説明できる ベクトル軌跡の概形を描くことができる			
	11th	ボード線図			微分要素,積分要 ード線図の特徴を	微分要素,積分要素,1次遅れ要素,2次遅れ要素のボード線図の特徴を説明できる			
	12th	ボード線図の合成	龙		ボード線図を合成	ボード線図を合成できる			
	13th	制御系の安定性				安定条件を説明できる 伝達関数の極の位置から安定判別できる			
	14th	フィードバック制	制御系の安定判別法	去	ナイキストの安定 系の安定判別がで	判別法を用い <sup>-</sup> きる	てフィードバック制御		
	15th	復習	復習			後半の講義内容の復習を行う.			
	16th	期末試験							
Evaluation M	lethod and	l Weight (%)							
	試験	演習課題	相互評価	態度	ポートフォリオ	その他	Total		
Subtotal	Subtotal 80		0	0	0	0	100		
基礎的能力	0 0 0		0	0	0				
専門的能力	80	20	20 0 0			0	100		
分野横断的能力	0	0	0	0	0	0	0		

Akashi College		ollege	Year	2021		Cour		Preliminaries to Graduation Thesis
Course	Informa	tion	•					
Course Co	ode	0019			Course Categor	y Spe	ecialize	ed / Compulsory
Class For	mat	Seminar			Credits	Sch	nool Cr	redit: 1
Departme	ent		nd Computer E ngineering Cou		Student Grade			
Term		Second Se	mester		Classes per Wee	ek 2		
Textbook Teaching	and/or Materials							
Instructo			of the departme	ent				
	Objectiv							
(1) Can c (2) Can s (3) Can c	continuousl cummarize consider the	ly explore thir the results of e research the	igs. Stained for the permenting in the permention in the permetion in the perm	oroject undertake approaches, and o	n. create flexible and	d innovativ	ve idea	as.
Rubric				- 1- 1				
rabile			Ideal Level		Standard Level			Unacceptable Level
				sly explore things		lu oveleno		·
Achieven	nent 1		land obtain reculte that match		Can continuous things.	ly explore		Cannot continuously explore things.
Achievem	nent 2		Can properly si results obtaine addressed.	ummarize the d on the theme	Can summarize obtained on the addressed.		ts	Cannot summarize the results obtained on the theme addressed.
Achievem	nent 3		Can consider theme in various and create flex innovative idea can choose the approach.	us approaches, ible and is. In addition,	Can consider the research theme in various approaches, and create flexible and innovative ideas.			Cannot consider the research theme in various approaches, or create flexible and innovative ideas.
Assigne	ed Depar	tment Obje	ectives					
学習・教育	到達度目標	票 (D) 学習・教	有到達度目標 (F	·)				
Teachir	ng Metho	od						
Outline  The aim of this course is to develop the basic abilities necessary for graduation research in the fift Students will gain the basic knowledge necessary to address a research theme and examine how							ion research in the fifth year. ne and examine how to approach	
Style		Themed re	search will be o	conducted by mult	tiple faculty mem	bers (labo	oratorio	es), and students will be assigned laboratory they are assigned to,
Jey ie		students w	ill conduct lectu	ire-based learning	, document rese	arch, expe	erimer	its, simulations, etc.
Notice		Engage in Students w	research activel ho spend less t	y and continuous han 22.5 hours o	ly. n research will no	ot be eligil	ble for	a passing grade.
Charact	eristics	of Class / D	Division in Learning					
□ Active	Learning		☑ Aided by IC	ed by ICT		Remote (	Class	☐ Instructor Professionally Experienced
Course	Plan							
		Th	neme			Goals		
		1st La	boratory assigr	nments		After learr laboratory they wish	, stud	ne research details of each ents can apply for the laboratory
		2nd Th	nemed research			Conduct le	ecture experi	-based learning, document ments, simulations, etc. under
	3rd Ouarter	3rd Sa	ime as above			Same as a	above	
	Quarter	4th Sa	me as above			Same as a	above	
		5th Sa	me as above			Same as a	above	
		6th Sa	me as above			Same as a	above	
2nd		7th Sa	me as above			Same as a	above	
2nd Semeste		8th Sa	me as above			Same as a	above	
r		9th Sa	me as above			Same as a	above	
		10th Sa	ime as above			Same as a	above	
		11th Sa	ime as above			Same as a	above	
		12th Sa	me as above			Same as a	above	
	4th	13th Sa	me as above			Same as a	above	
	Quarter	14th Pr	eparing a resun esentation	ne for themed res	Bearch		and pro	the results of the themed epare a resume for the
		15th Th	nemed research	presentation		Can give a themed re	an oral	presentation on the results of the
		16th No	final exam					
Evaluat	ion Meth	nod and We	eight (%)					
			Initiative		Presentation			Total

Subtotal	50	50	100
Basic Proficiency	0	0	0
Specialized Proficiency	50	50	100
Cross Area Proficiency	0	0	0

Course Information Course Code	uctive basic sic er analysis engineering sic level.		
Can the content of	uctive basic sic er analysis engineering sic level.		
Electrical and Computer Engineering   Student Grade   4th	uctive basic sic er analysis engineering sic level.		
Electrical Engineering Course Year-round Classes per Week 4  Textbook and/or Teaching Materials Course Objectives (1) Can make a deductive inference based on basic matters, including reading and writing logical sentences including ec (2) Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Rubric  Ideal Level Can accurately make a deductive inference based on basic matters.  Can fully perform basic calculations in rector calculus, and apply them to engineering and physics on a basic level.  Rubric  Ideal Level Can accurately make a deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can fully apply them to engineering and physics on a basic level.  Achievement 3  Achievement 4  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Achievement 5  Assigned Department Objectives  *** ********************************	uctive basic sic er analysis engineering sic level.		
Teaching Materials Instructor	uctive basic sic er analysis engineering sic level.		
Teaching Matérials Instructor OGASAWARA Hiromichi Course Objectives (1) Can make a deductive inference based on basic matters, including reading and writing logical sentences including ec (2) Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level. (3) Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Rubric  Ideal Level Standard Level Unacceptable Level Achievement 1  Can accurately make a deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis on a basic level.  Can perform basic calculations in Fourier analysis in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in Vector calculus, and apply them to engineering and physics on a basic level.  Assigned Department Objectives  **Test ** ***§**§**§**§**§**§**§**§**§**§**§**	uctive basic sic er analysis engineering sic level.		
Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.	uctive basic sic er analysis engineering sic level.		
Course Objectives  (1) Can make a deductive inference based on basic matters, including reading and writing logical sentences including ec (2) Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Rubric  Ideal Level  Can accurately make a deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can make a deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and physics on a basic level.  Can fully perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Cannot perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Cannot perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Assigned Department Objectives  Yang Yang Yang Yang Yang Yang Yang Yang	uctive basic sic er analysis engineering sic level.		
(1) Can make a deductive inference based on basic matters, including reading and writing logical sentences including ec (2) Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  (3) Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Rubric  Ideal Level  Standard Level  Can make a deductive inference dased on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Achievement 2  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Achievement 3  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Achievement 3  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Achievement 3  Can fully perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Achievement 3  Assigned Department Objectives  \$\frac{2}{2}\$ \( \text{ \$\frac{2}{2}\$} \) \( \text{ \$\frac{2}{2}\$} \	uctive basic sic er analysis engineering sic level.		
Ideal Level   Standard Level   Unacceptable Level   Can accurately make a deductive inference based on basic matters.   Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.   Can perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.   Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.   Can fully perform basic calculations in vector calculations in vector calculus, and fully apply them to engineering and physics on a basic level.   Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.   Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.   Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.   Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.   Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.   Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.   Can perform basic applications in vector calculus (including topics on a basic level.   Cannot perform basic applications in vector calculus, and apply them to engineering and physics on a basic level.   Cannot perform basic applications in vector calculus, and apply them to engineering and physics on a basic level.   Cannot perform basic applications in vector calculus, and apply them to engineering and physics on a basic level.   Cannot perform basic applications in vector calculus, and apply them to engineering and physics on a basic level.   Cannot perform basic applications in vector calculus, and apply them to engineering and physics on a basic level.   Cannot perform basic applications in vector calculu	basic sic ier analysis engineering sic level. sic or calculus, engineering		
Achievement 1  Can accurately make a deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis on a basic level.  Can perform basic calculations in Fourier analysis in vector calculus, and apply them to engineering and physics on a basic level.  Can perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  C	basic sic ier analysis engineering sic level. sic or calculus, engineering		
Achievement 1  deductive inference based on basic matters.  Can fully perform basic calculations in Fourier analysis, and fully apply them to engineering and physics on a basic level.  Achievement 3  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can fully perform basic calculations in Fourier analysis, and apply them to engineering and physics on a basic level.  Can fully perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Can perform basic calculations in vector calculus, and fully apply them to engineering and physics on a basic level.  Assigned Department Objectives  学習・教育到達度目標 (D) 学習・教育到達度目標 (G)  Teaching Method  In this course, we will learn the basics of the following topics based on the calculus and linear a learned so far.  First semester: Fourier analysis (including topics on the Laplace transform)  Second semester: Vector calculus (including topics on complex functions of one variable) These mathematics are also applied to engineering and physics, so this class will also cover them, basic applications.  Style  Classes will be taught in a lecture style, and there will also be exercises and quizzes.  Do pre-study and review (including problem exercises). In problem exercises, do not try to rem steps to solve a problem, but rather try to solve it yourself based on definitions and basic theorem Also, if necessary, review the content learned during the previous years.  Students van earn extra points by submitting voluntary assignments, and lose their points depethene attitude, etc. in the class.  Students who miss 1/3 or more of classes will not be eligible for a passing grade.	basic sic ier analysis engineering sic level. sic or calculus, engineering		
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Calculations in vector calculus, and fully apply them to engineering and physics on a basic level.   Calculations in vector calculus, and apply them to engineering and physics on a basic level.   Calculations in vector and apply them to engineering and physics on a basic level.	or calculus, engineering		
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□ Instructor Profes	n and ideas		
□ Instructor Profes			
☐ Active Learning ☐ Aided by ICT ☐ Applicable to Remote Class ☐ Instructor Frores	ssionally		
Course Diag			
Course Plan			
Can organize data.	n organize data. In calculate and discuss based on the basic		
3rd Laplace transform Can calculate and discuss based on the matters of the Laplace transform.	ie basic		
Laplace transform   Matters of the Laplace transform.   Can apply the Laplace transform to vi	Can apply the Laplace transform to vibration		
Semeste Sth Application to vibration phenomena Can apply the Laplace transform to viphenomena.	Can apply the Laplace transform to vibration		
6th Fourier series Can calculate and discuss based on the matters of a Fourier series.	bration		
7th Fourier series Can calculate and discuss based on the matters of a Fourier series.			
8th Midterm exam	ne basic		
2nd 9th Fourier series Can calculate and discuss based on the matters of a Fourier series.	ne basic		
Quarter 10th Fourier transform Can calculate and discuss based on the matters of a Fourier transform.	ne basic ne basic		

		11th	Fourier transform			d discuss based on the basic	
					matters of a Four	rier transform. ve phenomenon based on the	
		12th	Wave equation		laws of motion ar	nd Fourier analysis methods.	
		13th	Wave equation Heat equation		Can handle a wave phenomenon based on the laws of motion and Fourier analysis methods. Can handle a heat conduction phenomena based on the law of conservation and Fourier analysis methods.		
		14th	Heat equation		Can handle a heat conduction phenomena based on the law of conservation and Fourier analysis methods.		
		15th	Supplementary lesson on the Lapla	ce transform	Can calculate and function and conv	d discuss matters related to delta volution.	
		16th	Final exam				
		1st	Review and supplementary lesson of calculations	on vector	Can handle the b calculations that's	asic matters of vector s necessary for future learning.	
		2nd	Curves		Can handle curve	es using parameters.	
		3rd	Curves Line integrals			es using parameters. I discuss based on the basic tegrals.	
		4th	Line integrals		Can calculate and matters of line in	d discuss based on the basic tegrals.	
	3rd Quarter	5th	Gradient		Can calculate and matters of the gr	d discuss based on the basic adient vector.	
		6th	Gradient Conservative forces and potential e	nergy	matters of the gr Can handle conse	d discuss based on the basic adient vector. ervative forces and potential the vector calculus method.	
		7th	Surfaces and surface integrals		Can handle surfacalculate and discord surface integral	ces using parameters and cuss based on the basic matters als.	
		8th	Midterm exam				
2nd Semeste		9th	Surfaces and surface integrals		Can handle surfa calculate and disc of surface integra	ces using parameters and cuss based on the basic matters als.	
		10th	Derivative of vector fields and integ	ıral theorem	Can handle derive the method using	ative of vector fields, including g integral theorem.	
		11th	Derivative of vector fields and integ	ıral theorem	Can handle derive the method using	ative of vector fields, including g integral theorem.	
	411	12th	Derivative of vector fields and integ Application to electromagnetism	ral theorem	Can handle derivative of vector fields, including the method using integral theorem. Can handle the basic matters of electromagnetism based on the vector calculus method.		
	4th Quarter	13th	Application to electromagnetism Overview of the theory of functions variable	of a complex	based on the vec	asic matters of electromagnetism tor calculus method. I discuss based on the basic eory of functions of a complex	
		14th	Overview of the theory of functions variable	of a complex		d discuss based on the basic eory of functions of a complex	
		15th	Overview of the theory of functions variable	of a complex		d discuss based on the basic eory of functions of a complex	
	16th Final exam						
Evaluati	ion Meth	od and	Weight (%)				
	Examination Exercises /				ort test	Total	
Subtotal			60	40		100	
Basic Prof	ficiency		60	40		100	
•	d Proficier		0	0		0	
Cross Are	a Proficier	су	[0	0 0		0	

A	Akashi Co	ollege	Year	Year 2021		(	Course Title	Electromagnetics II		
Course	Informa	tion								
Course C		0021				Course Catego	ry		zed / Compulsory	
Class For	mat	Lecture				Credits		Credit: 2		
Departme	ent		and Compute Engineering			Student Grade	e 4th			
Term		Year-rou	nd			Classes per We	eek	2		
Textbook	and/or Materials	1)小塚洋	司著、新装版「	電荷	滋気学」、森北出版	2)後藤憲一、	山崎(	修一共編、	「詳解電磁気学演習」、共立出版	
Instructo		OHMUKA	I Masato							
	Objectiv									
(1)磁気に	<b>_</b> 関する諸法	則を理解し、	説明することだ 体質について	がて 説り	ごきる。 月できる。					
Rubric						1				
			理想的な到過			標準的な到達レ			未到達レベルの目安	
評価項目[	1]				法則を理解し、詳 とができる。	磁気に関する諸		理解し、説	磁気に関する諸法則を理解し、説明することができない。	
評価項目[	2]		Maxwell 方	程式	から導かれる諸性 く説明できる。	Maxwell 方程式 質について説明	から導	かれる諸性 。		
Assigne	ed Depar	tment Ob	jectives							
			教育到達度目標	票 (	F) 学習・教育到達度	<b>夏目標 (H)</b>				
Teachir	ng Metho		v= v· · · · · · · · · · · · · · · · · ·							
Outline		電気磁気	学Iで学んだ静電 系全体を身につ	配界(け、	の知識を基礎として 電磁波についても	て、主として磁気に 学ぶ。	こついて	て学習する。	、その後Maxwell方程式として電気磁	
Style							質問等	の個人指導	掌を行い、不明な点を解消する。	
Notice		3年の電気 授業中に	気磁気学Ⅰの知 質問して解決し	識がてし	がないと単位取得は、	かなり困難である られる。毎回復習	。授業 が必要	中は集中しる。課題が出	ノて理解に努め、わからないところを された場合は必ず期限までに提出し よい欠席条件(割合) 1/3以上の欠課	
Charact	eristics		Division in			113222300	<u>,                                    </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200 XWINNI (11711) 1/ 017(11717)	
	Learning	<u> </u>	☐ Aided b			☑ Applicable t	o Ren	note Class	☐ Instructor Professionally Experienced	
Course	Plan									
			Theme				Goals			
		1st	クーロンの法則	-ロンの法則、ガウスの定理			クー[  荷と	コンの法則、 電界と電位の	がウスの定理が理解できている。電 の関係を説明できる。	
		2nd	誘電体とコンテ	<u>"</u> ン	サ		誘電が		る物理量の関係が説明できる。コンデ 関係が説明できる。	
	1st	3rd	磁界と磁力線	と磁力線			ること	磁界の概念を理解し、コイルが磁気2重層と透過であることが理解できる。		
	Quarter			ペアの周回積分の法則、磁位			。磁象	気双極子モ-	責分の法則を用いて磁界が計算できる -メントを知る。	
				サバールの法則				微小電流による磁界の算出ができる。		
			<u>磁界による力</u> 復習	マスティス マイス マイス マイス マイス マイス マイス マイス マイス マイス マイ			_	®流によって生じる力の表現を知る。 これまでの内容理解の不十分なところをなくす。		
1 o t			1 <u>50</u> 中間試験				これまでの内谷理解の不十分などころをなくす。   60点を取得する。			
1st Semeste			<u>- 18 60 60 60 60 60 60 60 60 60 60 60 60 60 </u>	Ę			<u> </u>		解し、磁束密度について知る。	
r		10th	透磁率と磁化率	: ع	境界条件			透磁率と磁化率の概念を理解しその関係を知る。また境界条件について知る。		
		11th	磁極と減磁力と	_磁	気シールド				-ロンの法則を理解すると共に、単極 いことを式で表せる。	
	2nd Quarter	12th	ベクトルポテン	シ	ヤル		たポス	アソンの式に	シャルの定義を書くことができる。ま こ対応する式を書ける。	
	Quarter	13th	磁界のエネルキ		とB-H曲線		ういて	て理解する。		
			磁気回路				る力を	を計算できる		
	15th 復習 16th 期末試験					これまでの内容理解の不十分なところをなくす。				
									<del>す 9 る。</del> ンスと相互インダクタンスの定義を知	
						フドナ <b>ナ</b> リギ	りノーインタ	イマンの公3 ダクタンス(	スとには、「ファックラスの足骸を加 式を導ける。 の接続について理解し、結合係数の意	
2nd	3rd				接続と結合係数およ 	<u>いエイルキー</u>	味を知っています。	30る。 ラデーの電码	滋誘導の法則を理解し、ローレンツカ	
Semeste r	Quarter		電磁誘導法則と  電磁誘導法則の				との!!	関連を知る。 ラデーの電码	滋誘導の法則の積分形と微分形の関係	
							自己語		ンツカを導出できる。 ついて理解し回路に働く力を算出でき	
		150.1	自己誘導作用と回路に働く力				古し			

		6th	表皮効果と渦電	 <b>這</b> 流		表皮効果についる。	て定量的に理解	し、表皮厚について知
		7th	復習			これまでの内容	理解の不十分な	ところをなくす。
		8th	中間テスト			60点を取得す	る。	
		9th	変位電流とマッ	クスウェルの方程式	t	変位電流の概念程式が書けるよ		クスウェルの4つの方
		10th	波動方程式と電	磁波の性質		波動方程式を導できる。	出でき、電磁波	の性質を定量的に説明
		11th	電磁波の伝搬特	挫		電磁波伝搬に関	する物理量につ	いて理解する。
	4th	12th	電磁波の境界条	<b>┊件</b>		電磁波に関する	境界条件を定量	的に知る。
	Quarter	13th	平面波の反射と	透過		電磁波の透過と	反射に関する量	的関係を知る。
		14th	ポインティング	<sup>ブ</sup> ベクトル		ポインティング 明できる。	ベクトルの定義	を知り、その性質を説
		15th	復習			これまでの内容	理解の不十分な	ところをなくす。
		16th	期末試験			60点以上を取	得する。	
Evaluati	ion Met	hod and	Weight (%)					
		験	課題	相互評価	態度	ポートフォリス	オーその他	Total
Subtotal	7	0	0	0	0	0	30	100
基礎的能力	0 0		0	0	0	0	0	0
専門的能力	7 7	0	0	0	0	0	30	100
分野横断的	前能力 0		0	0	0	0	0	0

Д	kashi Co	ollege	Year	2021		Course Title	Solid State Physics A
Course	Informa	tion	1	1		, ,,,,,,	1
Course Co		0022			Course Category	Specializ	zed / Compulsory
Class For	mat	Lecture	10 1 5		Credits	Academ	ic Credit: 2
Departme	ent		and Computer E Engineering Cou		Student Grade	4th	
Term		First Sem	ester		Classes per Wee	k 2	
Textbook Teaching		萩野俊郎	「エッセンシャル原	芯用物性論」朝倉書	店		
Instructo	r	OHMUKA:	I Masato				
	<u>Objectiv</u>						
3 )ホー川   4 ) p n 担	レ効果につい	いて定量的に記 配圧特性を定置	単解し、これを利用し、これを利用し、固体のバンド型 説明できる。 量的に理解する	申して原子内の電子 里論についてに知る	と状態を定量的に理解 る。	する。 	
Rubric			Tm+0.46 ( ) = 0.4 (		1=34445 1 = 10+1		
			理想的な到達レ	<u>ベルの目安</u> ガー方程式を深く	標準的な到達レベ		未到達レベルの目安
評価項目[	1]		理解し、これを	利用して原子内の的に十分理解する	シュレーディンガ し、これを利用し 状態を定量的に理	て原子内の雷子	<ul><li>シュレーディンガー方程式を理解 し、これを利用して原子内の電子 状態を定量的に理解しない。</li></ul>
  評価項目[2	2]		原子の化学結合 し、固体のバン 詳細に知る。	について深く理解 ド理論についてに	原子の化学結合に 固体のバンド理論 。	ついて理解し、 についてに知る	原子の化学結合について理解し、 固体のバンド理論についてに知ら ない。
評価項目[:	3]		く説明できる。	いて定量的に詳し	ホール効果につい <sup>で</sup> きる。		できない。
評価項目[4	4]		│p n接合の電流 │に深く理解する	電圧特性を定量的	pn接合の電流電 に理解する。	圧特性を定量的	pn接合の電流電圧特性を定量的に理解しない。
評価項目[	5]		空乏層容量を詳	細に導出できる。	空乏層容量を導出	できる。	空乏層容量を導出できない。
		tment Ob	•				
		` ′	教育到達度目標 (F	H)			
	ig Metho		イスの中で固体の浴		、 本講義では電子の		  量子論から固体中の電子状態につい
Outline		て学び、金	食属および半導体内	内での電子の挙動を	基本的な観点から定	量的に学ぶ。	
Style		最例に講動します。	えたけい概略を説明 こより、理解を深め	別しためと、各目が かたり、学習範囲を	自王子智を行つ。買 広げていく。	問等の個人指導	算を行い、不明な点を解消する。課題
Notice		授業中は 必要。本科 が 9 0 時間 合) 1/3以	別に相当する学習の	か、わからないとこ する学習時間と、予 内容である。課題提	ろを授業中に質問し 習、復習および課題 出が締切を越えると	て解決していく レポート作成に 未提出扱いとな	プロセスが求められる。毎回復習が 近必要な標準的な自己学習時間の総計 なる。合格の対象としない欠席条件(割
Charact	eristics		Division in Le	earning			
☑ Active	Learning		☐ Aided by IC	CT	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced
			<b>1</b>		1		
Course	Plan	1					
			Гһете			ioals (および南スの)	ᇚᆉᆎᆛᆛᅼᄀᄴᇆᅳᄼᇅᅩᄑᄪᄱᄱᇿᅩᅟ
		1st	量子論、シュレー	ディンガー方程式			皮動性と粒子性について理解しシュレ 呈式を導出できる。
		2nd 7	ボーアの理論と原-	子軌道	オ   を	ボーアの理論を 発出できる。原	算出して軌道半径と軌道のエネルギー 原子軌道の種類を知る。
		3rd ‡	共有結合とエネル=	ギーバンド		は有結合の起源を 見子が集まるとこ 日る。	および混成軌道について知り、多数の エネルギー準位がバンドになることを
	1st	4th	電気伝導、位相速原	度と群速度	1		ドゥルーデの理論を導き出せ、位相速 義を知る。
	Quarter	5th	分散関係と有効質	量とブリルアンゾー	-ン  。		関係を導出し、有効質量を導出できる 里解する。ブリルアンゾーンについて
1st Semeste		6th	自由電子論、状態	密度			ガー方程式を解いて運動量の量子化を 子の状態密度の計算を行える。
r		7th 7	ホール効果と移動原	芰	対道	マール効果を定動である。 第四率から移動に	量的に知り、ホール効果の実験結果と 度を算出できる。
		8th	 中間試験			5 0 点以上を取行	
		9th ≟	半導体内のキャリ <sup>・</sup>	 ヤ統計 I		≚導体内のキャ! 状態密度の概念を	」 リヤ密度を定量的に導出できる。有効 を理解する。
	2nd	10th =	半導体内のキャリ <sup>-</sup>	ヤ統計II	N	IP積の性質を理	里解する。キャリヤ密度の温度依存性 「あることを知る。
	2nd Quarter	11th =	半導体と金属の接続	·····································	# 	≚導体と金属が持ることを定性的(	妾触したとき、2種類の状態が実現され こ理解する。
		12th 2					要の関係を示すアインシュタインの関

		13th	P N接合の I – V特	性		P N接合の I – Vギ	寺性を定量的に導出	出できる。
		14th 3	空乏層の容量			P N接合における3 拡散電位を実験で3	空乏層の容量を定量 求める方法を知る。	<b>遣的に導出でき、</b>
		15th រី	复習			これまでの内容を後 ドリフトトランジ	复習し頭を整理する スタについて知る。	る。余裕があれば
		16th	期末試験			60点以上を取得す	する。	
Evaluation	n Meth	od and W	eight (%)		_			
	試験	È	課題	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	70		0	0	0	0	30	100
基礎的能力	0		0	0	0	0	0	0
専門的能力	70		0	0	0	0	30	100
分野横断的能	力 0		0	0	0	0	0	0

А	kashi Co	ollege	Year	2021		Course Title	Experiments of Electrical Engineering I
Course	Informa	tion					
Course Co	ode	0023			Course Category	y Specialize	ed / Compulsory
Class For	mat	Experimer	nt		Credits	School Cı	redit: 4
Departme	ent	Electrical	and Computer E Engineering Cou		Student Grade	4th	
Term		Year-roun	d		Classes per Wee	ek 4	
Textbook Teaching							
Instructor		KAMI Yası	ushi,HIROTA Ats	sushi,TERASAWA S	Shinichi,HIRANO	Masatsugu,NOM	IURA Hayato
Course	Objectiv		·	•	•	<del>-</del>	·
1. Can ac 2. Can co 3. Can su	tively part nduct expe mmarize t	icipate in experiments in a he results of	periments by gro planned manne a experiments i	oup and carry out our based on the band on a report with co	experiments in co sic ability, and an rrect writing exp	ooperation with nalyze the resul	the group members. ts of an experiment.
Rubric				•	<u> </u>		
			Ideal Level		Standard Level		Unacceptable Level
Achievem	ent 1		Can actively pa experiments by out experimen with the group	y group and carry ts in cooperation	Can carry out excooperation with members.		Cannot carry out experiments.
Achievem	ent 2			xperiments in a er and analyze	Can analyze the experiments.	results of the	Cannot analyze the results of an experiment.
Achievem	ent 3		an experiment	e the results of in a report with expressions and	Can summarize an experiment in correct writing e	n a report with	Cannot summarize the results of an experiment in a report.
Assigne	d Depar	tment Obj	ectives				
学習・教育	到達度目標	票 (B) 学習・教	文育到達度目標 (E	) 学習・教育到達度	目標 (G)		
Outline		learn nece help stude measuren Hirota, po semester in a comp	essary writing exects develop autonents develop autonent circuits; the wer circuits. The will be supervise any.	rpressions for scier onomy, coordinati e above, controls; e experiments in v ed by persons eng	ntific reports. The on, planning, and E new teacher 2 veeks 2 to 5 of th aged in the deve	e experiments w d leadership. E- and Terazawa, ne first semester lopment of elect	ch theme, in order to help them will be conducted by groups, to exchange will supervise the circuits and microcomputers; and and week 4 of the second cronic devices and other activities.
Style		measuren They will a guidance	nent, circuits, co actively conduct provided on the	ntrol, and microco experiments give, spot by the instru	omputers, in grou , based on their o ctor of the exper	ips of four to fivour own necessary piment.	e, and submit a report on them. preparation and pre-study, and
Notice		must clea	n the lab and pureek of the first a	n received by the it away the equipr and second semes ed unless they hav	nent. Precautions ters. Students ha	s regarding the ave to participat	ve a passing grade. Students experiments will be given during e in all experiments.
Charact	eristics of	of Class / I	Division in Le	arning			
□ Active	Learning		☑ Aided by IC	Т	☑ Applicable to	Remote Class	☑ Instructor Professionally Experienced
Course	Plan						
		Т	heme			Goals	
		1st E	xperiment guida	ince		Understand the engineering exp	various precautions related to eriments and the outline of the experiment.
		2nd F	PGA1 (Circuit de	esign)	ı	Understand logi	c circuit inputs using IDE elopment Environment).
		3rd F	PGA2 (emulator	debug)	I	Understand the logical circuits u	simulation and debugging of sing the IDE (Integrated
							vironment).
1ct	1st	4th F	PGA3 (impleme	ntation and operat	ion)	Understand circ Programmable L	nvironment). uit implementation in FPGA(Field Logic Array).
1st Semeste r	1st Quarter		PGA3 (implemei	·	ion)	Understand circ Programmable L	ivironment). uit implementation in FPGA(Field
		5th F		n)	ion)   [	Understand circ Programmable L Understand the evaluation of im FPGAs. Can examine an experiment into	nvironment).  uit implementation in FPGA(Field Logic Array).  operation, debugging, and plementation circuitry with d compile the results of the a report.
		5th F	PGA4 (evaluatio	n) on	ion)	Understand circ Programmable L Understand the evaluation of im FPGAs. Can examine an experiment into Can perform wa	uit implementation in FPGA(Field Logic Array).  operation, debugging, and plementation circuitry with d compile the results of the
		5th F 6th R 7th C	PGA4 (evaluatio	n) on rement I.	ion)	Understand circ Programmable L Understand the evaluation of im FPGAs. Can examine an experiment into Can perform wa processing using interface. Can fabricate a and an interface	uit implementation in FPGA(Field Logic Array).  operation, debugging, and plementation circuitry with d compile the results of the a report.  veform measurement and

		10th	Electric motor spe	ed control		Understand how electric motor.	to control the sp	peed of an
		11th	Direct current volt	age stabilization	circuit	Can investigate t	he characteristic	s of a voltage
		12th	Report organization	on		Can examine and experiment into		sults of the
		13th	Oscillation circuits			Can investigate types of typical of	various character escillation circuits	ristics for various
		14th	Low frequency am	plifier characteri	stics	Can examine the characteristics of	circuit operation the push-pull a	n and mplifier.
		15th	Report organization	on		Can examine and experiment into		sults of the
		16th	No final exam					
		1st	Experiment guida	nce		Understand the engineering expetheme of each expense.	eriments and the	ons related to outline of the
		2nd	Microcomputer co	ntrol I		Can build contro microcomputers.		embedded
		3rd	Microcomputer co	ntrol II		Can build contro microcomputers.	systems using e	embedded
	3rd	4th	Microcomputer co	ntrol III		Can build contro microcomputers.	systems using e	embedded
	Quarte	5th	Report organization	on		Can examine and experiment into	d compile the res a report.	sults of the
		6th	Alternating curren	t automatic volta	ige regulator	Understand the objection by the AC autom	operation of the latic voltage regu	control system ılator.
2nd		7th	Report organization	on		Can examine and experiment into	d compile the res a report.	sults of the
Semeste r		8th	Equivalent circuit	of the transforme	er	Can determine the of the transform	ne equivalent circ er.	cuit and constant
		9th	Report organization	on		Can examine and experiment into		sults of the
		10th	Sequence control	I		Understand the I	pasics of relay se	quence control.
		11th	Report organization	on		Can examine and experiment into		sults of the
	4th Ouarte	12th r	Sequence control	II		Can construct a a control circuit to specification.	relay sequence c that meets the sp	ontrol method of pecified
		13th	Report organization	on		Can examine and experiment into		sults of the
		14th	Variable speed commotor by means of	ntrol of the induc of a PWM inverted	tive electric	Understand the speed control of	orinciples of PWN inductive electric	1 inverters and motors.
		15th	Summarizing and	organizing		Can summarize	and organize the	experiment.
		16th	No final exam					
Evaluati	ion Me	thod and	Weight (%)					
		Report	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		30	0	0	20	0	0	100
Basic Proficienc	y	)	0	0	0	0	0	0
Specialize Proficience	ed (	30	0	0	20	0	0	100
Cross Are Proficience		)	0	0	0	0	0	0

А	kashi Co	llege	Ye	ar	2021			ourse Title	Off-Campus Practical Training A
Course	Informat	tion	•				•		
Course Co		0024				Course Categor	ry	Specialize	ed / Elective
Class Forr	mat	Practica	l training			Credits		School C	redit: 1
Departme	ent	Electrica Electrica	l and Comp I Engineerin	uter E Ig Cou	ngineering rse	Student Grade		4th	
Term		Year-rou	und			Classes per We	ek	1	
Textbook Teaching									
Instructor	-	All facul	ty of the dep	oartme	ent				
Course	Objectiv	es							
(1) Can e (2) Can u	xperience se slides to	some of the report or	e actual tecl the things t	hnical they h	activities related t ave experientially	o engineering. learned.			
Rubric									
			Ideal Lev			Standard Level			Unacceptable Level
Achievem	ent 1		Can expe actual te related to collabora	chnica o engi		Can experience actual technica related to engi	I activit	ies	Cannot experience some of the actual technical activities related to engineering.
Achievem	ent 2		things th	ey hav	to report on the ve experientially e understood by	Can use slides things they hav learned.			Cannot use slides to report on the things they have experientially learned.
Assigne	d Depart	tment Ol	ojectives						
学習・教育	到達度目標	票(E) 学習・	教育到達度目	∃標 (G	i)				
Teachin	g Metho	d							
Outline		fields of	electrical ar	nd elec	n companies, gover stronic engineering echnology and car	and informatio	n engir	neering. T	rporations, universities, etc. in the hrough this experience, students
Style		1			by instructors at				learring.
Scyle									ntact with your year 4 class
Notice		teacher. Student Student Student	s should acti need to be s who spend	ively e respect	experience real-wo	orld technical act attire, language s than 32 hours	ivities. e, and o	other beh	aviors appropriate as an internee. n 2 hours may be replenished by
Charact	eristics o	of Class /	Division	in Le	arning				
□ Active		•	□ Aided			☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan								
			Theme				Goals		
		1st	Guidance (a	at the	end of first semes	ter)			the precautions of student manners at the training site.
		2nd	`		mmer vacation)		the tra	ining site	some of the technical activities at .
	1st	3rd	Same as ab					as above	
	Quarter	4th	Same as ab					as above	
		5th 6th	Same as ab					as above as above	
		7th	Same as ab					as above	
1st		8th	Same as ab					as above	
Semeste r		9th	Same as ab					as above	
1		10th	Same as ab					as above	
		11th	Same as ab					as above	
		12th	Same as ab					as above	
	2nd	13th	Same as ab					as above	
	Quarter	14th	Same as ab					as above	
		15th	Internship r second sem middle of th	reporti nester, ne sec	ng (done at the b grades will be an ond semester)	eginning of the nounced in the	Can re slides.	port the o	outcome of the internship using
		16th	No final exa	am					
		1st							
		2nd							
2nd	3rd	3rd							
Semeste	Quarter	4th							
		5th							
		6th							
		7th							

		8th					
		9th					
		10th					
		11th					
	4th	12th					
	Quarter	13th					
		14th					
		15th					
		16th					
Evaluati	ion Meth	nod ar	nd Weight (%)				
			Training destination evaluation	Report	F	Presentation	Total
Subtotal			30	30	4	40	100
Basic Prof	ficiency	·	0	0	(	0	0
Specialize	ed Proficier	าсу	30	30	4	40	100
Cross Are	a Proficier	псу	0	0	(	0	0

А	kashi Co	llege	Year	2021				Off-Campus Practical Training B
Course 3	Informat	ion	•					-
Course Co	ode	0025			Course Category	У	Specialize	ed / Elective
Class Forr	mat	Practical tr	raining		Credits		School Cr	edit: 2
Departme	ent	Electrical a Electrical E	and Computer Er Engineering Cou	ngineering rse	Student Grade		4th	
Term		Year-roun	d		Classes per Wee	ek	2	
Textbook Teaching								
Instructor			of the departme	ent				
	Objective							
(2) Can u	xperience s se slides to	some of the or report on the	actual technical ne things they h	activities related t ave experientially	to engineering. learned.			
Rubric			1					T
			Ideal Level	6.1	Standard Level			Unacceptable Level
Achievem	ent 1		Can experience actual technica related to engir collaboratively.	l activities	Can experience actual technical related to engin	activit	ties	Cannot experience some of the actual technical activities related to engineering.
Achievem	ent 2		things they hav	to report on the re experientially e understood by	Can use slides things they have learned.			Cannot use slides to report on the things they have experientially learned.
Assiane	d Depart	ment Obje			•			·
			文育到達度目標 (G	)				
	g Metho	• •		/				
Outline	grictio	Internship fields of el	ectrical and elec	tronic enaineerina	a and information	ı enair	neerina. Tl	porations, universities, etc. in the hrough this experience, students
Style		1	•	echnology and car by instructors at				learning.
Style			-	•				ntact with your year 4 class
Notice		teacher. Students s	should actively e	xperience real-wo	orld technical acti	vities.	othor bob	aviors appropriate as an internee.  n 4 hours may be replenished by
Charact	aristics o		Division in Lea		bassing grade.			
☐ Active		л Сіцээ / L	☐ Aided by IC		☐ Applicable to	Rem	ote Class	☐ Instructor Professionally Experienced
			•		1			, F
Course	Plan							
		TI	heme		(	Goals		
				end of first semes	ster)	Can ur trainin	nderstand g and the	the precautions of student manners at the training site.
		2nd Ir	ntern (during sur	nmer vacation)			kperience : aining site.	some of the technical activities at
	1st	3rd Sa	ame as above			Same	as above	
	Quarter		ame as above			Same	as above	
			ame as above				as above	
			ame as above				as above	
1st			ame as above				as above	
Semeste r			ame as above				as above	
			ame as above				as above	
			ame as above				as above	
			ame as above				as above	
	2nd Quarter		ame as above				as above	
	Quarter		ame as above				as above	
			ame as above				as above	
			ame as above o final exam			Same	as above	
			ntern (during sur	nmer vacation)	(	Can ex	kperience s aining site.	some of the technical activities at
		2nd Sa	ame as above				as above	
2nd			ame as above		<u> </u>		as above	
Semeste	3rd Quarter		ame as above				as above	
r	2.31.001		ame as above				as above	
			ame as above				as above	
			ame as above				as above	

		8th	Same as above			Same as above	
		9th	Same as above			Same as above	
		10th	Same as above			Same as above	
		11th	Same as above			Same as above	
		12th	Same as above			Same as above	
	4th	13th	Same as above			Same as above	
	Quarter	14th	Same as above			Same as above	
		15th	Internship reporting second semester, granddle of the second	(done at the beginning des will be announced semester)	ng of the ed in the	Can report the out slides.	come of the internship using
		16th	No final exam				
Evaluati	ion Meth	od ar	nd Weight (%)				
			Training destination evaluation	Report	Р	resentation	Total
Subtotal			30	30	4	10	100
Basic Prof	ficiency		0	0	О	)	0
Specialize	ed Proficier	ncy	30	30	4	10	100
Cross Are	a Proficier	ıcy	0	0	C	)	0

A	Akashi Co	ollege	Year	2021		Course Title	Solid State Physics B
Course	Informa	tion			_		
Course Co		0026			Course Category		zed / Compulsory
Class For	mat	Lecture	al and Computer E	nginooring	Credits	Academ	nic Credit: 2
Departme	ent		al Engineering Cou		Student Grade	4th	
Term		Second	Semester		Classes per Wee	ek 2	
Textbook Teaching	and/or Materials	萩野俊郎	「エッセンシャル点	5用物性論」朝倉書	店		
Instructor	r	OHMUKA	AI Masato				
	Objectiv						
1) ヴィー 2) 誘電分 3) 磁性体	−デマン・フ }極に関する 本の様々な事	フランツの法 3事項につい <sup>3</sup> 項について	則とブロッホの定理 うて知る。 「知る。	埋について知る。			
Rubric					T		1
			理想的な到達レ		│標準的な到達レベ 		未到達レベルの目安
評価項目[:	1]		ブロッホの定理。	フランツの法則と について深く知る	ヴィーデマン・フ ブロッホの定理に	ランツの法則 と ついて知る。 	グライン・フランツの法則と ブロッホの定理について知らない。
評価項目[2	2]		く知る。	る事項について深	誘電分極に関する る。		らない。
評価項目[3	3]		磁性体の様々な知る。	事項について深く	磁性体の様々な事	頃について知る	る 磁性体の様々な事項について知ら ない。
		tment Ol					
			・教育到達度目標 (H	1)			
Teachin	ng Metho		ンノフの中で田仕の生	2割け塩みアナキハ	* * * * * * * * * * * * * * * * * * *	1の雨での坐所!	
Outline		電子テハて主に学		え割は極めて入さい	1。 本語我 では 玉偶と	別の電子の性質の	こ加え、誘竜体と磁性体の性質につい
Style		最初に講 レポート	義を行い概略を説明 により、理解を深め	月したあと、各自が りたり、学習範囲を	「自主学習を行う。質 た広げていく。	間等の個人指導	尊を行い、不明な点を解消する。課題
Notice		授業中は必要。本が30時	集中して理解に努め、科目は授業で保証す	り、わからないとこ する学習時間と、予	ろを授業中に質問し 38. 復習および課題	レて解決してい <sup>。</sup>	くプロセスが求められる。毎回復習が こ必要な標準的な自己学習時間の総計
		合) 1/3	間に相当9 る子首2 以上の欠課	9容である。課題提	出が締切を越えると	未提出扱いと	こ必要な標準的な自己学習時間の総計 はる。合格の対象としない欠席条件(割
	eristics (	合) 1/3.	間に相当する子首が 以上の欠課 <sup>/</sup> Division in Le		出が締切を越えると	未提出扱いと	なる。合格の対象としない欠席条件(割
		合) 1/3.	以上の欠課	arning	図 Applicable to		☐ Instructor Professionally
Charact	Learning	合) 1/3.	以上の欠課 <sup>/</sup> Division in Le 	arning			☐ Instructor Professionally
Charact  Active	Learning	合) 1/3.	以上の欠課 <sup>/</sup> Division in Le 	arning	☑ Applicable to		☐ Instructor Professionally
Charact  Active	Learning	合) 1/3.	以上の欠課 / Division in Le □ Aided by IC	arning T	☑ Applicable to	Remote Class Goals 電気伝導と熱拡 う導出できる。	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か
Charact  Active	Learning	(含) 1/3. of Class /	以上の欠課 / Division in Le □ Aided by IC Theme	arning ゴ ランツの法則	✓ Applicable to	Remote Class Goals 電気伝導と熱拡 ら導出できる。 結晶中の固体の	☐ Instructor Professionally Experienced
Charact  Active	Learning	(含) 1/3. pf Class /	以上の欠課 / Division in Le	arning CT ランツの法則 分極率と誘電率	✓ Applicable to	Remote Class Goals 電気伝導と熱拡 ら導出できる。 結晶中の固体の 知り、分極率と C理解する。	□ Instructor Professionally Experienced  The professional Experienced  The professional Experienced Experienced  The professional Experienced Experienced Experienced  The professional Experienced
Charact  Active	Plan	(含) 1/3. of Class /	以上の欠課 / Division in Le	arning CT ランツの法則 分極率と誘電率	✓ Applicable to	Remote Class  Soals  電気伝導と熱拡  う導出できる。  結晶中の固体の  知り、分極率と  て理解する。  分極率と誘電率  チの式を導出で	□ Instructor Professionally Experienced  The professional Experienced  The professional Experienced Experienced  The professional Experienced Experienced Experienced  The professional Experienced
Charact  Active	Plan	(音) 1/3. of Class / 1st 2nd 3rd	以上の欠課 / Division in Le	arning CT ランツの法則 分極率と誘電率	✓ Applicable to	Remote Class 電気伝導と熱拡 3導出できる。 計晶中の固体の で理解する。 分極率と誘電率 チの式を導出で 電子分極の定量 イオン分極を定	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。
Charact  Active	Plan	(音) 1/3. of Class /  1st  2nd  3rd  4th	以上の欠課 / Division in Le	arning CT ランツの法則 が極率と誘電率 ノッチの式	✓ Applicable to	Remote Class 電気伝導と熱拡 高導出できる。 語晶中の固体ののででは、 では、 では、 では、 では、 では、 では、 では、 では、 では、	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッ きる。 的議論ができる。
Charact  Active	Plan	1st 2nd 3rd 4th 5th	以上の欠課 / Division in Le	arning DT DT DT DT DT DT DT DT DT DT	✓ Applicable to	Remote Class  Tools	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 的議論ができる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失
Charact  Active  Course	Plan	1st 2nd 3rd 4th 5th	以上の欠課 / Division in Le	arning DT DT DT DT DT DT DT DT DT DT	✓ Applicable to	Remote Class  Tools	Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッ きる。  動議論ができる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失 ていることを理解する。
Charact  Active  Course	Plan	(音) 1/3. pf Class /  1st 2nd 3rd 4th 5th 6th 7th	以上の欠課 / Division in Le	arning DT  DV  DV  DV  DV  DV  DV  DV  DV  DV	✓ Applicable to	Remote Class  Goals 電気に要さる。 高気にでした。 ではいかがする。 ではいかがする。 ではいかがする。 ではいかがする。 ではいかがる。 ではいかがない。 ではいかがない。 ではいいかができる。 ではいいかができる。 ではいないがない。 ではいいないない。 ではいいないないない。 ではいいないないないないない。 ではいいないないないないないない。 ではいいないないないないないないないないないない。 ではいいないないないないないないないないないないないないないないないないないない	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 的議論ができる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 得する。 東密度の関係式を再度理解し、5種類の
Charact  Active  Course	Plan	1st 2nd 3rd 4th 5th 6th 7th 8th	以上の欠課 / Division in Le	arning DT  DV  DV  DV  DV  DV  DV  DV  DV  DV	☑ Applicable to	Remote Class Goals 電う 場合 ときる 場合 場合 場合 場合 場合 場合 は 中の かする 表導 の 極の で を で で で で で で で で で で で で で で で で で	Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッ きる。 動議論ができる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 ていることを理解する。 東密度の関係式を再度理解し、5種類の知る。 て軌道運動による角運動量、スピンについて学び、ボーア磁子とランデの
Charact  Active  Course	Plan  3rd Quarter	(音) 1/3. of Class /  1st  2nd  3rd  4th  5th  6th  7th  8th  9th	以上の欠課 / Division in Le	arning DT  Diwase誘電率  Jッチの式  Aバン関数  具失	✓ Applicable to	Remote Class Goals 電う 請い での から できる はいで の から できる はいで の かる まず の 極って から から できる はいで の から とき できる はいで の から とき できる できる できる できる できる できる できる できる できる でき	Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッ きる。 動議論ができる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 ていることを理解する。 東密度の関係式を再度理解し、5種類の知る。 て軌道運動による角運動量、スピンについて学び、ボーア磁子とランデの
Charact  ☑ Active  Course	Plan	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th	以上の欠課 / Division in Le	arning DT  Diwase誘電率  Jッチの式  Aバン関数  具失	✓ Applicable to	Remote Class Goals 電う 請切で の大電 イン配ン 复変 の 体率。電出 定 を の か の の で か の の で か の の で が の か の で で の か の で で の か の で で の か の で で の か の で で の か の で で の か の で で の で で の で で で の で で で の で で で で	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 東密度の関係式を再度理解し、5種類の知る。 て軌道運動による角運動量、スピンについて学び、ボーア磁子とランデの知る。 分類ができ、磁気異方性と磁区構造に 化曲線におけるヒステリシス特性の原
Charact  Active  Course	Plan  3rd Quarter	(音) 1/3. of Class /  1st  2nd  3rd  4th  5th  6th  7th  8th  9th  10th  11th	以上の欠課 / Division in Le	arning DT  Diwase誘電率  Jッチの式  Aバン関数  具失	✓ Applicable to	Remote Class Goals 電台 請別 で の で で で で で で で で で で で で で で で で で	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に 誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 ついて知る、虚数成分が誘電損失ていることを理解する。 そする。 東密度の関係式を再度理解し、5種類の知る。 中知る。 大型ができ、磁気異方性と磁区構造に の対類ができ、磁気異方性と磁区構造に
Charact  Active  Course	Plan  3rd Quarter	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 12th 12th	以上の欠課 / Division in Le	arning  T  ランツの法則  対極率と誘電率  ノッチの式  ユバン関数  員失	□ Applicable to	Remote Class Goals 電の 詰切理 極の子 オンい 向関 素深 の 化性 性る因 種いを 極いる で で の か い の 原動の 性の の で で の の で で で の で で で で で で で で で	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 未密度の関係式を再度理解し、5種類の知る。 て軌道運動による角運動量、スピンについて学び、ボーア磁子とランデの知る。 分類ができ、磁気異方性と磁区構造にの知る。 分類ができ、磁気異方性と磁区構造におけるヒステリシス特性の原キュリーの法則とフェリ磁性におけるスの法則を導出できる。 磁石材料についてその特徴を知る。 中心とした発展の歴史を学び、磁性体
Charact  Active  Course	Plan  3rd Quarter	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 12th 13th 14th	以上の欠課 / Division in Le	arning  T  ランツの法則  対極率と誘電率  ノッチの式  ユバン関数  員失	Applicable to	Remote Class Goals 電台 計型である。 電台 計型である。 電台 計型である。 電台 計型である。 では、 のを では、 のののでは、 ののでは、 のののでは、 のののでは、 のののでは、 のののでは、 のののでは、 のののでは、 のののでは、 ののでは、 のので	□ Instructor Professionally Experienced  散の関係を示すこの法則を基本原理か 電子状態を示すブロッホ関数を中心に誘電率の定義を電気磁気学の基礎とし の関係式であるクラウジウス・モソッきる。 量的に扱い、LSTの関係式や残留線に 的に扱い、そこに出てくるランジュバついて理解する。 念について知る、虚数成分が誘電損失ていることを理解する。 そな度の関係式を再度理解し、5種類の知る。 て軌道運動による角運動量、スピンについて学び、ボーア磁子とランデの知る。 分類ができ、磁気異方性と磁区構造にの知る。 分類ができ、磁気異方性と磁区構造におけるヒステリシス特性の原キュリーの法則とフェリ磁性におけるスの法則を導出できる。 磁石材料についてその特徴を知る。 中心とした発展の歴史を学び、磁性体ついて学ぶ。

	試験	課題	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	70	0	0	0	0	30	100
基礎的能力	0	0	0	0	0	0	0
専門的能力	70	0	0	0	0	30	100
分野横断的能力	0	0	0	0	0	0	0

	kashi Co	ollege	Year	2021		Course Title	Computer Architecture
Course	Informa	tion					
Course Co	ode	0027			Course Categor	y Specializ	red / Elective
Class Forr	mat	Lecture			Credits	Academ	ic Credit: 2
Departme	ent		and Computer I Engineering Co		Student Grade	4th	
Term		First Sem	ester		Classes per We	ek 2	
Textbook Teaching							
Instructor		NOMURA	Havato				
Course	Objectiv	•	,				
<ol><li>Unders</li><li>Unders</li></ol>	stand the i stand the o	pasic structur nstruction se control archit memory arch	t architecture. ecture.	ality of a computer.			
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1		Understand as basic structure of a computer	nd can explain the e and functionality c.	Understand the and functionality	e basic structure ty of a compute	
Achievem	nent 2		Understand are instruction are	nd can explain the chitecture.	Understand the architecture.	instruction	Do not understand the instruction architecture.
Achievem	nent 3		Understand archite	nd can explain the ecture.	Understand the architecture.	e control	Do not understand the control architecture.
			Understand and memory archi	nd can explain the itecture.	Understand the architecture.	e memory	Do not understand the memory architecture.
Assigne	d Depar	tment Obj	ectives				
学習・教育	<b>到達度目標</b>	票 (D) 学習・	教育到達度目標 (	F) 学習・教育到達度	目標 (G)		
<u>Teachin</u>	ig Metho						
Outline		In this cou theory of computer	the CPU instruc	will learn the overvi	ew of the basic tive control, mei	structure and fi mory, and input	unctionality of a computer, and the loutput devices that make up a
Style		Classes w retention.	ill mainly involv	e lectures, but if ne	ecessary, there	will be exercises	s to improve understanding and
Notice		Tassianmei		u tile stallualu sell	-study time requ	ıired for pre-stı	s include the learning time dy / review, and completing
		In this cla semester, Students	and be conscions to the series of the series	e expected to take ous of how the CPU or more of classes v earning	into account the , which is the co vill not be eligible	contents of Op ore hardware of e for a passing	dy / review, and completing erating System held in the first a computer, execute a process. grade.
Charact  Active		In this cla semester, Students	ss, students are and be conscion who miss 1/3 o	e expected to take ous of how the CPU or more of classes v earning	into account the	contents of Op ore hardware of e for a passing	dy / review, and completing erating System held in the first a computer, execute a process. grade.
□ Active	Learning	In this cla semester, Students	ss, students are and be conscion who miss 1/3 of Division in Le	e expected to take ous of how the CPU or more of classes v earning	into account the , which is the co vill not be eligible	contents of Op ore hardware of e for a passing	dy / review, and completing erating System held in the first a computer, execute a process. grade.
□ Active	Learning	In this cla semester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le	e expected to take ous of how the CPU or more of classes v earning	into account the , which is the co vill not be eligible	contents of Op ore hardware of e for a passing o Remote Class	dy / review, and completing erating System held in the first a computer, execute a process. grade.
□ Active	Learning	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le	e expected to take ous of how the CPU or more of classes v earning	into account the , which is the co vill not be eligible	contents of Oppre hardware of e for a passing of Remote Class	dy / review, and completing erating System held in the first a computer, execute a process. grade.
□ Active	Learning	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Aided by I heme	e expected to take bus of how the CPU or more of classes v earning  CT  hputer architecture tion (1): Fixed-poir	into account the , which is the covill not be eligible.  Applicable t	contents of Oppre hardware of e for a passing of Remote Class Goals Understand the of a computer.	dy / review, and completing erating System held in the first a computer, execute a process. grade.   ☐ Instructor Professionally Experienced
□ Active	Learning	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Aided by I Aided by I heme Diverview of compata representationating-point for	e expected to take bus of how the CPU or more of classes v earning  CT  hputer architecture tion (1): Fixed-poir	into account the , which is the covill not be eligible.  Applicable t the format,	contents of Oppre hardware of e for a passing of Remote Class Goals Understand the of a computer. Understand the formats for repulser.	dy / review, and completing erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality
□ Active	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Aided by I Aided by I heme overview of compata representationating-point for pata representational are presentational are p	e expected to take bus of how the CPU or more of classes wearning  CT  computer architecture tion (1): Fixed-poir rmats	into account the , which is the covill not be eligible  Applicable to the format, image data	contents of Oppre hardware of e for a passing of Remote Class Goals Understand the of a computer. Understand the formats for repulsers understand the image data.	dy / review, and completing erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality e fixed-point and floating-point resenting numeric data.
□ Active	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 on Division in Le and a Aided by I heme between the compata representation archivatare representation archivatar	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-poir rmats  Ition (2): Text data, itecture (1): Basic of the control of the co	into account the , which is the covill not be eligible  Applicable to the format, image data configuration,	contents of Oppre hardware of e for a passing of Remote Class Goals Understand the of a computer. Understand the formats for repulsed understand the image data. Understand the image data.	erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality experience described in the first accomputer, execute a process. grade.
□ Active	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Aided by I Aided	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-poir rmats  Ition (2): Text data, itecture (1): Basic of the control of the co	into account the , which is the covill not be eligible.  Applicable to the format, image data configuration, ction formats,	contents of Oppre hardware of e for a passing of Remote Class of Remote Class Understand the formats for repuderstand the image data. Understand the instruction set. Understand the mode.	dy / review, and completing erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality fixed-point and floating-point resenting numeric data. representation of text data and basic CPU configuration and sinstruction format and addressing
□ Active  Course	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le and a Aided by I	e expected to take bus of how the CPU or more of classes vearning  CT  The puter architecture tion (1): Fixed-point remats  tion (2): Text data, stecture (1): Basic of the course (2): Instruction (2): Instructi	at format, image data configuration, ction formats,	contents of Oppre hardware of e for a passing of Remote Class of Remote Class of American and the of a computer. Understand the image data. Understand the instruction set. Understand the mode. Understand the mode. Understand the mode. Understand the executed.	dy / review, and completing erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  be basic structure and functionality eraction fixed-point and floating-point resenting numeric data. erepresentation of text data and
□ Active  Course  1st Semeste	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le and a Aided by I	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-poir rmats  tion (2): Text data, itecture (1): Basic of the course (2): Instruction (3): Instruction (	at format, image data configuration, ction formats,	contents of Oppre hardware of e for a passing of Remote Class of Remote Class of American and the of a computer. Understand the image data. Understand the instruction set. Understand the mode. Understand the mode. Understand the mode. Understand the executed.	erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality e fixed-point and floating-point resenting numeric data.  representation of text data and e basic CPU configuration and e instruction format and addressing e order in which the instructions are methods and pipelines for
	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Consciewho miss 1/3 o Division in Le Consciewho miss 1/3 o Division in Le Consciewho and representational architection l	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-poir rmats  tion (2): Text data, itecture (1): Basic of the course (2): Instruction (3): Instruction (	at format, image data configuration, ction formats, ction execution ethods	contents of Oppre hardware of e for a passing of Remote Class of Remote Class of Remote Class of American of Ameri	erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality fixed-point and floating-point resenting numeric data.  representation of text data and basic CPU configuration and addressing order in which the instructions are methods and pipelines for ruction execution.
Course  1st Semeste	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 on Division in Le Divi	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-point remats  tion (2): Text data, itecture (1): Basic of the course (2): Instructive (3): Instructive (1): Control meture (1): Control meture (2): Interrupts of the course (2): Interrupts (	at format,  image data configuration, ction execution ethods	contents of Oppre hardware of e for a passing of Remote Class of Remote Class of Remote Class of American of Ameri	erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality fixed-point and floating-point resenting numeric data.  representation of text data and basic CPU configuration and addressing order in which the instructions are methods and pipelines for ruction execution.
Course  1st Semeste	Plan  1st Quarter	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 on Division in Lead of the me overview of compata represental oating-point for oata represental oating-point architection architection architection architection architection architection oat oating oatin	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-point rmats  tion (2): Text data, itecture (1): Basic of the course (2): Instruction (3): Instruction (1): Control metature (1): Control metature (1): Virtual metature (2): Cache	at format,  image data configuration, ction execution ethods  emory emory, paging	Goals Understand the formats for rep Understand the formats for rep Understand the formats for rep Understand the image data. Understand the instruction set. Understand the mode. Understand the mode. Understand the mode. Understand the controlling inst Midterm exam Understand int instruction exe Understand the controlling inst Midterm exam Understand the virtual memory Understand can	errupts that change the flow of cution.  erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  e basic structure and functionality a fixed-point and floating-point resenting numeric data.  e representation of text data and a basic CPU configuration and a instruction format and addressing a order in which the instructions are methods and pipelines for ruction execution.  errupts that change the flow of cution.  e mapping between physical and che memory and paging.
Course  1st Semeste	Plan	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 o Division in Le Divis	e expected to take bus of how the CPU or more of classes vearning  CT  Inputer architecture tion (1): Fixed-point rmats  tion (2): Text data, itecture (1): Basic of the course (2): Instruction (3): Instruction (1): Control materials (2): Interrupts (2): Interrupts (2): Interrupts (2): Interrupts (2): Interrupts (3): Address teture (4): Control materials (4): Cache metature (4): Cache metature (5): Cache metature (6): Address teture (7): Addre	at format,  image data configuration, ction execution ethods  emory emory, paging cranslation	Goals Understand the formats for rep Understand the formats for rep Understand the formats for rep Understand the image data. Understand the imstruction set. Understand the instruction set. Understand the controlling inst Midterm exam Understand int instruction exe Understand the controlling inst Understand the virtual memory Understand car Understand the	dy / review, and completing erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality e fixed-point and floating-point resenting numeric data. e representation of text data and e basic CPU configuration and e instruction format and addressing e order in which the instructions are execution.  methods and pipelines for ruction execution.  emapping between physical and che memory and paging. e address translation.
□ Active  Course  1st Semeste	Plan  1st Quarter	In this classemester, Students of Class / I	ss, students are and be consciewho miss 1/3 on Division in Le la	e expected to take bus of how the CPU or more of classes wearning  CT  Inputer architecture tion (1): Fixed-point rmats  tion (2): Text data, itecture (1): Basic of the course (2): Instruction (3): Instruction (1): Control metature (1): Control metature (1): Virtual metature (2): Cache	at format,  at format,  at format,  ction formats,  ction execution  ethods  emory  emory, paging  cranslation  ation method  es of	Goals Understand the formats for rep Understand the formats for rep Understand the image data. Understand the image data. Understand the instruction set. Understand the instruction set. Understand the executed. Understand the controlling inst Midterm exam Understand int instruction exe Understand the controlling inst Understand the controlling inst Understand the instruction exe	erating System held in the first a computer, execute a process. grade.  Instructor Professionally Experienced  basic structure and functionality experienced  fixed-point and floating-point resenting numeric data.  representation of text data and basic CPU configuration and experienced experienced  corder in which the instructions are methods and pipelines for ruction execution.  mapping between physical and computer that change the flow of cution.  mapping between physical and computer that change is expected and processes translation.  mapping between physical and computer that change is expected and processes translation.

		16th	Final exam			Final exam			
Evaluation Method and Weight (%)									
	Exar	nination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	60		0	0	0	0	40	100	
Basic Proficiency	30		0	0	0	0	20	50	
Specialized Proficiency	20		0	0	0	0	10	30	
Cross Area Proficiency	10		0	0	0	0	10	20	

А	kashi Co	ollege	Year	r	2021			Course Title	Discrete Mathematics
Course	Informa	tion			1				
Course Co	ode	0028				Course Categor	ry	Specializ	ed / Elective
Class Forr	mat	Lecture				Credits		School C	redit: 2
Departme	nt		l and Comput I Engineering			Student Grade	4th		
Term		Year-rou				Classes per We	ek	2	
Textbook Teaching									
Instructor		HAMADA	Yukihiro						
Course		-							
[2] Develo [3] Can th [4] Can e [5] Can e	op self-dire nink in a re xplain the xplain the	ecursive mageneralized basics of quantities.	continuous lea Inner.	ein	ng skills by master g equal and being neory.	-		ed in a ma	thematical proof.
Rubric									
			Ideal Leve			Standard Level			Unacceptable Level
Achievem	ent 1		in a classifi determine	ied wh	ets and functions way, and ether the f two sets are	Can explain set functions, and whether the ca sets are equal	deter	mines	Cannot explain a set and a function, and cannot determines whether the cardinalities of two sets are equal
Achievem	Can explain the propositions and predicates, and correctly write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction  Can explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction  Can explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction  Can explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction  Can explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction using proof by contraposition and contradiction, and the mathematical induction using proof by contraposition and contradiction, and the mathematical induction using proof by contradiction.				Cannot explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction methods.				
Achievem	ent 3				s and functions d correctly.	Can define sets recursively.	Cannot define sets and functions recursively.		
Achievem	ent 4		Can explain relation, pa total order	artia	e equivalence al orders, and ccurately.	Can explain the relation, partial total orders.			Cannot explain the equivalence relation, partial orders, and total orders.
Achievem	ent 5		Can explain connectivity theory acc	y, a	and tree of graph	Can explain the connectivity, and theory.	e path nd tre	n, ee of graph	Cannot explain the path, connectivity, and tree of graph theory.
Achievem	ent 6		free gramr	mar	us form, context- , finite automaton, ammar correctly.	Can use Backus free grammar, and regular gra	finite	automator	Cannot use Backus form, context-free grammar, finite automaton, and regular grammar.
		tment Ob 票(D)学習・	jectives 教育到達度目標	標 (	F)				
Teachin	g Metho	d							
Outline		foundation	ons of compu n and recursiv	ter ⁄e d	a field of mathema science. In this co efinitions, Backus utomaton and reg	urse, you will lea form and contex	ith fir arn ab t-free	nite or disci out sets ai grammar,	rete subjects, and one of the nd functions, mathematical relationships between sets,
Style			will be held in						
Notice		descripti	on. Trv to sol	ve t	d the exact definit the examples or ex r more of classes v	ercise problems	vour	self and sc	ive image from the formal ore it against the answer. grade.
Charact	eristics o	of Class /	Division in	ı Le	earning				
□ Active	Learning		☑ Aided b	y IC	СТ	☑ Applicable to	o Ren	note Class	☐ Instructor Professionally Experienced
Course	Plan								
			Theme				Goals		
	1st Basic fo		Basic form						represent sets or conditions.
		2nd	The relations	hip	between the sets		can basic	perform va formulas.	rious set operations and can use
		3rd	Function 1/2					•	basics function.
1st Semeste r	1st Quarter	4th	Function 2/2				Can explain the associative law, inverse func and substitution for injection, surjection, bije composition of function, and composition.		
		5th	Infinite sets a	and	cardinality 1/2	Can explain the cardinality of a set and determine if the cardinalities of the two equal.			cardinality of a set and can e cardinalities of the two sets are
6th 1		Infinite sets a	and	cardinality 2/2			explain the nuum.	counting and cardinality of the	

		7th	Propositions and p	proof by contradi	ction	Can explain the properties of the properties of the properties of the proof by contrading the proof by	traposition. Can oof using contrap	write	
		8th	Midterm exam						
		9th	Predicate			Can explain a pre true or false as a		on that takes only	
		10th	Propositional logic ability	and its limitation	n in descriptive	Can explain the logical expression of a propositional logic and can represent a statement in a logical expression. Can explain the logical expression of predicate logic.			
		11th	Language			Can explain the basics of formal languages.			
	2nd Quarter	12th	Mathematical indu	uction 1 of 2		Can mathematica			
	Quarter	13th	Mathematical indu	uction 2 of 2		Can write mathe induction. Can ex	matical proof usi	ng the complete	
		14th	Recursive definition	on		Can define sets,			
<u> </u>		15th	Backus form and	context-free grar	nmar	Can handle Back			
 		16th	Final exam			J			
		1st	Binary relation 1 of	of 2		Can explain the b	pasics of binary r	elation.	
		2nd	Binary relation 2			Can calculate cor binary relation.			
		3rd	Equivalence relati	on 1/2		Can explain the e	equivalence relat	ion, which is a	
		4th	Equivalence relati	on 2/2		Can handle equivisubdivisions of e		•	
	3rd Quarter		Order 1 of 2			Can explain the porder of the ineq	•		
	•	6th	Order 2 of 2			Can handle the u extremum, maxi partially ordered (below) boundar	pper extremum, mum, and minim set, and can exp	lower num values of a	
		7th	Illustration of bina	ary relation		Can illustrate the graph.		as a directed	
 		8th	Midterm exam			grapin			
2nd		9th	Hasse diagram, to	opological sort, a	nd transitive	Can draw a Hass set, and can expl and transitive.	e diagram of par ain the closure c	tially ordered of topological sort	
Semeste		10th	Graph basics 1 of	2		Can explain the b	pasics of graphs.		
r 		11th	Graph basics 2 of	2		Can explain n-pa paths in a graph. adjacency matrix matrix.	Also, can repre	esent a graph by	
	4th	12th	The connectivity of	of a graph		Can explain the component, cut vedge connectivity and n-edge connectivity	vertex, bridge, co v. Also, can expl	onnectivity and	
	Quarter	13th	Tree			Can explain the fundamental concepts and theorems about trees. Also, can explain ordered tree, positional tree, binary tree and n-ary tree.			
			Finite automaton automaton	and nondetermir	nistic finite	Can define FA and NFA formally and draw their state transition diagrams. Also, can determine the language that they accept.			
			Regular grammar	and regular exp	ression	Can define right linear grammar and left linear grammar formally, and determine the language that they generate. Can represent a given language by regular expression.			
	<u> </u>	16th	Final exam				· 		
Evaluati	on Met	hod and	Weight (%)						
	Ex		Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	1	00	0	0	0	0	0	100	
	1.1								
Basic Proficience	0		0	0	0	0	0	0	
	y 0	00	0	0	0	0	0	100	

Α	Akashi Co	ollege	Year	2021		Course Title	English V	
Course	Informa	tion			_			
Course Co		0030			Course Category		/ Compulsory	
Class For	mat	Lecture	Jand Computer I	Enginooring	Credits	Academi	c Credit: 2	
Departme	ent		ll and Computer E Il Engineering Cou		Student Grade	de 5th		
Term		First Ser	mester		Classes per Wee	ek 2		
Textbook Teaching	and/or Materials	Science	Arena (成美堂), [	Data Base4500(桐原	京書店), Next Stag	e(桐原書店)		
Instructo	r	MATSUE	OA Yasutaka					
	Objectiv							
(2) 音声教	枚材を用いる	らなどしてヒ	アリングカや英語は	英文読解力や作文が 運用能力の向上をは して必要な国際性なる	かる。		<b>つける。</b>	
Rubric								
			理想的な到達レ		標準的な到達レベ		未到達レベルの目安	
評価項目1	L		く練習を通して	説み取り、英文を書 英文読解力や作文 もに必要な語彙力 ことができる。	英語の内容を読み く練習を通して英 力をつけるととも をつけることがで	文読解力や作文 に必要な語彙力	英語の内容を読み取り、英文を書く練習を通して英文読解力や作文 力をつけるとともに必要な語彙力 をつけることができない。	
評価項目2	2		ヒアリングカや	を用いるなどして 英語運用能力の向 ることができる。	付属の音声教材を ヒアリングカや英 上をはかることが	語運用能力の向	付属の音声教材を用いるなどして ヒアリングカや英語運用能力の向 上をはかることができない。	
評価項目3			い、技術者とし	る様々な題材を扱って必要な国際性な を十分に身につけ	現代社会に関するい、技術者としてど、幅広い教養をができる。	必要な国際性な	現代社会に関する様々な題材を扱い、技術者として必要な国際性など、幅広い教養を身につけることができない。	
Assigne	ed Depar	tment Ol						
		` ,	教育到達度目標 (	B) 学習・教育到達原	度目標 (E)			
Teachin	ng Metho							
Outline		グローバ  要な構文	ル化時代の技術者。 や文法の知識を身	として必要な英語力 につける。	をつけるために、勇	語の語彙力や読	解力を向上させる。また、読解に必	
Style		毎時間、	語彙力の確認テス	トを実施する。英文 頃を参考に英作文の	を読んで、その内容 練習をする 適宜	野の理解を確認す 調覧を調す	る演習問題を解く。CDを用いてリス	
Notice		本科目は、90時間 よって英 ない欠席	、授業で保証する 引に相当する学習内 語力の向上に努め 条件(割合) 1/4以	学習時間と、予習・ 容である。前もって ること。理由なき遅 上の欠課	復習及び課題レポー ・配布された課題を		なる標準的な自己学習時間の総計が 授業に出ること。日々の自宅学習に トは0点扱いとする。合格の対象とし	
Charact	teristics (	of Class /	<u>Division in Le</u>	earning				
☐ Active	Learning						☐ Instructor Professionally	
			☑ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
			☑ Aided by IC	CT	☑ Applicable to	Remote Class	1 <del>-</del>	
Course	Plan	I	· ·	CT			1 <del>-</del>	
Course	Plan		Theme		[(	Goals	Experienced	
Course	Plan	1st	Theme オリエンテーショ		1	Goals 受業内容や課題( を立てる。 各Unitの英文にご	· - · · · · · · · · · · · · · · · · · ·	
Course	Plan	2nd	Theme オリエンテーショ Unit 2		1 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。	Experienced / Cついて適切な理解を深め今後の計画 Dいて理解し、適切に運用することが	
Course	Plan		Theme オリエンテーショ		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。	Experienced / / / / / / / / / / / / / / / / / / /	
Course	1st	2nd	Theme オリエンテーショ Unit 2			Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。	Experienced ,	
Course		2nd 3rd	Theme オリエンテーショ Unit 2 Unit 5			Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。	Experienced / / / / / / / / / / / / / / / / / / /	
Course	1st	2nd 3rd 4th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6			Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご	Experienced / / / / / / / / / / / / / / / / / / /	
	1st	2nd 3rd 4th 5th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9			Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。	Experienced / Control   Exp	
1st Semeste	1st	2nd 3rd 4th 5th 6th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10			Goals 受業内容や課題( を立てる。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。 各Unitの英文にご 出来る。	Experienced / Control	
1st Semeste r	1st	2nd 3rd 4th 5th 6th 7th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review			Goals 受業内容や課題(を立てる。 各Unitの英文にご出来る。 各Unitの英文にご出来る。 各Unitの英文にご出来る。 各Unitの英文にご出来る。 各Unitの英文にご出来る。 各Unitの英文にご出来る。 各Unitの英文にご出来る。	Experienced / Control   Exp	
1st Semeste	1st	2nd 3rd 4th 5th 6th 7th 8th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review 中間試験			Goals 受業内容や課題(を立てる。  Py Unitの英文にで出来る。 Py Unitの英文にでは来る。 Py Unitの英文にではない。Py Unitの英文にではないます。	Experienced / Control   Exp	
1st Semeste	1st	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review 中間試験 Unit 11			Goals 受業内容や課題(を立てる。 SUnitの英文にご出来る。	Experienced / Control   Experienced / Control   Experienced   Control   Exp	
1st Semeste	1st	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review 中間試験 Unit 11 Unit 13			Goals 受業内容や課題(を立てる。  PSUnitの英文にで出来る。 PSUnitの英文にでは PSUnitの英文にで	Experienced グロンファイン (Experienced グロン) (Experienced グ	
1st Semeste	1st Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review 中間試験 Unit 11 Unit 13 Unit 13			Goals 受業内容や課題(を立てる。  SUnitの英文にご出来る。	Experienced / Control   Exp	
1st Semeste	1st Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th	Theme オリエンテーショ Unit 2 Unit 5 Unit 6 Unit 9 Unit 10 Review 中間試験 Unit 11 Unit 13 Unit 14 Unit 15			Goals 受業内容や課題(を立てる。 SYUNITの英文にご出来る。 SYUNITON英文にご出来る。 SYUNITON英文にご出来る。 SYUNITON英文にご出来る。 SYUNITON英文にご出来る。 SYUNITON英文にご出来る。	Experienced / Control   Exp	

	16th	期末試験						
Evaluation Method and Weight (%)								
	試験	発表	相互評価	態度	ポートフォリオ	その他	Total	
Subtotal	50	0	0	0	0	50	100	
基礎的能力	50	0	0	0	0	50	100	
専門的能力	0	0	0	0	0	0	0	
分野横断的能力	0	0	0	0	0	0	0	

А	kashi Co	ollege		Year	2021			Title	Introduction to Japanese Language and Communication	
Course	Informa	tion						<u>.</u>		
Course Co	ode	0031				Course Categor	γ	General /	Elective	
Class Forr	mat	Lecture				Credits		Academic	Credit: 2	
Departme	ent	Electrical	Eng	l Computer Er gineering Cour		Student Grade		5th		
Term		First Sen	nest	er		Classes per We	eek 2			
Textbook Teaching	Matérials				prints as appropr	riate.				
Instructor		ZENTOH	Mas	sashi						
	<u>Objectiv</u>		<i>(</i> 1 ·							
(2) Can co (3) Can w	ollect appr vrite up rep	opriate info	rma	tion from prin s based on ord	ted materials and	l the Internet, de	ependii	na on the	o the recipient or purposes. purposes of reports and theses. ure and development so that their	
Rubric										
			Ic	leal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		re	an write up in equest letters fectively.		Can write up do letters with app structure, and	propria	te items,	Cannot write up letters and e- mails with appropriate layout.	
Achievem	chievement 2		fo	an select appr or PR documer nd theses.	opriate material nts, resumes,	Can select mate documents, restheses.			Cannot select sufficient material for PR documents, resumes, and theses.	
Achievement 3		ef de	an make an a fective use of evelopment in eports, and the		Can make use development in reports, and the	propo		Cannot make use of structure and development in proposals, reports, and theses.		
Assigned Department Ob			jec	tives						
学習・教育	到達度目標	票 (A) 学習・	教育	到達度目標 (E)	)					
Teachin	g Metho	d								
Outline		(docume expected	nts) I to i	for different porepare the m	ourposes, such as	entry sheets, re e, practice writin	esumes g prop	s, reports, erly withir	regarding various texts and theses. Each student is the time limit, in order to skills.	
Style		their exa	ill be lectures on basic ways to write up resumes, PR documents, proposals, reports, and theses and amples, and assignments to answer questions to test students ' learning and understanding. lents are to be completed and submitted either during or outside class, and evaluated.							
Notice		guarante	course's content will amount to 90 hours of study in total. These hours include the learning time inteed in classes and the standard self-study time required for pre-study / review, and completing inment reports. Into who miss 1/3 or more of classes will not be eligible for a passing grade.							
Charact	eristics o	of Class /	Div	ision in Lea	arning					
☐ Active	Learning			Aided by IC	Т	☑ Applicable to	to Remote Class			
Course	Plan									
			Ther	me			Goals			
		1st	1. C	ntation ourse outline iemes, intentio	ons, structure, an	d elaboration	Can la signs,	y out docu headings,	ment appropriately using bullets, and numbers.	
	Resumes and entry sheets 1. How to write the data section, writing of t self-promotion section, material collection, effective expression (symbols, organization, 2. Consideration of themes and case studies		lection. I	Can ef aligns	fectively v with their	vrite a resume/entry sheet that future career preferences.				
	1st Semeste 1st Quarter	3rd	Moti 1. M		and research plar		resear	ch (caréer	vrite a motivation letter and a ) plan in an appropriate format, ir future career preferences.	
1st Semeste r		4th	Essays 1 1. Themes: regional contribution, internship, environment 2. Material collection and composition				Can us theme manne	, to write	riate materials according to each an essay in a logical and effective	
		5th	1 Th	nys 2 nemes: econor laterials collec	my and technolog tion and composit	y tion		, to write	riate materials according to each an essay in a logical and effective	
		6th	Repo	orts 1 eparate notes iagram and la	•		Can ef	fectively u	ise charts in the form of a write up reports and resumes yout.	
		7th	Orga 1. C	anizing issues ontent issues epresentation	by theme 1		Can cr excelle	eate a var	riety of documents that are ne setting, material selection, and	
				erm exam						

		9th	Organizing issues 1. Theme backgro 2. Progress of the	und		Can effectively seffectively and p thesis.	et up themes and roperly write an i	l problems ntroduction to a	
		10th	Reports 2 1. Proposals 2. Presentations			Can create a reg give a presentati	Can create a regime and slides for proposals. Can give a presentation effectively.		
		11th	Research themes 1. Setting up then 2. Self-analysis	and problems sent nes and problems	tting S	Can set an approdevelop a text us	opriate theme, ar sing effective ma	d structure and terials.	
	2nd	12th	Theses 1 1. Plans 2. Structure			Can write a com structure table fo	ite a compelling plan. Can create a re table for the entire thesis.		
	Quarter	13th	Theses 2 1. Notation 2. Bibliography			Can write notes, appropriately.	citations, and bibliography		
		14th	Theses 3 1. Investigation, research and significance 2. Interim report, review, Q&A session			la prospect on the	ethod of research clearly and give research results. Can create a the interim presentation and search presentation.		
		15th	Issues and organization 1. Solving and organizing issues 2. Summary				view their own research plans and improve		
		16th	Final exam						
Evaluati	on Met	hod and \	Weight (%)						
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	1	00	0	0	0	0	0	100	
Basic Proficiency	100		0	0	0	0	0	100	
Specialize Proficiency			0	0	0	0	0		
	Cross Area O 0			0	0	0	0	0	

A	Akashi C	ollege	Year	202	21		Course	Law		
Course	Informa	ition	I	ı						
Course Co		0032				Course Categor	y Gener	ral / Elective		
Class For	mat	Lecture				Credits	Acade	emic Credit: 2		
Departme	ent		and Compute Engineering C		ering	Student Grade	5th			
Term		First Sem	ester			Classes per Wee	eek 2			
	Matérials			るレジュン	メに沿って授	業を進める。(参え	きとなる文献!	リストは初回授業時に紹介する)		
Instructo		KUROKU	[ Yoshimi							
法に関する 法がどの。 また、法が	ような役割な が私達の日常	既念や法的思 を期待され、 常生活に密接(	また果たしてき	このかに ことを理解	ついて客観的	課題や問題に対処でに理解する。 に理解する。 識や意見を養う機会				
RUDITC			田相的かみ	LVILO	.日安	標準的な到達レベ	 こしの日安	 未到達レベルの目安		
					法(憲法、刑法、					
評価項目1			) に関する基 ている。	本的な知 	識を熟知し 	) に関する基本的 いる。	以公、国际位	って )に関する基本的な知識が不十分 である。		
評価項目2	!		課題や問題に どのような役 してきたかに できる。	割を期待	され、果た	課題や問題に対処 どのような役割を してきたかについ	を期待され、集	また   このような役割を物付られ、本に		
評価項目3	3		現代社会で生や事象を、的ことができる	確に法的		現代社会で生じて や事象を考える際 的な思考ができる	&に, ある程度	算件 現代社会で生じている様々な事件 技法 や事象を捉える際、法的な観点か らの思考ができない。		
	•	tment Ob 票 (A) 学習・	jectives 教育到達度目標	(B) 学習	・教育到達度	を目標 (C)				
Teachin	ng Metho	od								
Outline		本科目で	では、法の基本は	既念及び流	去的思考につい	いて学習する。政治	台、経済、社会	会のなかで、法がどのような役割を持ち		
Style			が板書を用いた			様々な事象と結びて インタラクティブな		窓していく。 ために受講者には積極的な発言や主体的		
Notice		本科目ではることがあ	は法律学の基本を				解度を見て各担	受業のテーマ、取り上げる順番を変更す		
Charact	eristics		としない欠席条件(割合) 1/3以上の欠課 Division in Learning							
☑ Active		or class y	☐ Aided by ICT ☐ Applicable to R			☑ Applicable to	Remote Cla	☐ Instructor Professionally Experienced		
Course	Plan									
		<u> </u>	Гһете				Goals			
		1st 2	ガイダンス・法	とは何か		:	法の概念や分	類について理解する。		
		2nd	去の歴史				法の歴史的な	発展過程について理解する。		
		3rd 3	憲法の基本原理			ľ	日本のあらゆ ての基本原理 義)について	る法の最上位にある憲法の根幹理念とし (国民主権、基本的人権の尊重、平和主 理解する。		
	1st	4th	平等権				平等権につい 法でどのよう	て、その基礎概念を理解するとともに、 に保障されてるかを理解する。		
	Quarter	5th	自由権			:	法でどのよう	て、その基礎概念を理解するとともに、 に保障されてるかを理解する。		
		6th 1	社会権			:	法でどのよう	て、その基礎概念を理解するとともに、に保障されてるかを理解する。		
1st		7th [	国家の統治機構				日本の統治機 係性について	構(国会、内閣、裁判所)とそれらの関 理解する。		
Semeste r		8th I	レポート作成				レポート課題			
	2nd Quarter	9th 3	刊法					犯罪の成立要件について学習し、ある行 て刑法上の犯罪として法的に構成される る。		
		10th	民法					法の基本原則について学習し、日常生活 間の約束は、民法上の契約を構成しうる る。		
		11th	経済・産業と法				消費者保護法 業活動を行う	ー ・ ・ ・ ・ ・ ・ ・ ・ とのように を ・ とのように るか理解する。		
		12th	労働と法	 動と法			労働者の権利: する。	がどのように法で保障されているか理解		
		13th 7	社会保障・社会	福祉と法				医療、年金、生活保護等) を、法がどの ているのか理解する。		
				K牌 任公田位之丛			ように保障しているのか理解する。			

		14th	情報化社会と法			法が、どのようにし、誤情報や不適は理解をする。	情報を得るという 切な情報の濫用を持	個人の自由を保障 規制しているのか
		15th	国際社会と法			国家間関係を規律する国際法の種類や基礎的事項について理解する。		
		16th	期末試験			期末試験(筆記)	を行う。	
Evaluation Method and Weight (%)								
		期末試験	課題(小レポート)	相互評価	平常点(授業態度)	ポートフォリオ	その他	Total
Subtotal		60	20	0	20	0	0	100
基礎的能力	·	60	20	0	20	0	0	100
専門的能力		0	0	0	0	0	0	0
分野横断的	能力	0	0	0	0	0	0	0

А	kashi Co	ollege	Year	2021		Course Title	Philosophy	
Course :	Informa	tion		•				
Course Co	ode	0033			Course Category	y Genera	al / Elective	
Class Forr	mat	Lecture			Credits	Acadei	mic Credit: 2	
Departme	ent		and Computer E Engineering Cou		Student Grade	5th		
Term		First Sem	nester		Classes per Wee	ek 2		
Textbook Teaching		Disutribut	te handouts each	h time				
Instructor	-	HATTORI	Keisuke					
Course	Objectiv	es						
Learn t     Acquire	the basic is	ssues of eng	ophers on basic i lineering ethics a as "to state the r sues in daily live	ssues of philosoph and the specific sit easons," "to defin s and society.	ny and ethics. uations. e," and "to clarify	the premise	s," and develop an ability to think	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		lof major philos	nd the thoughts sophers on basic sophy and ethics ble to express about it.	Generally under thoughts of maj on basic issues of and ethics.	or philosophe	Do not understand the thoughts of major philosophers on basic issues of philosophy and ethics.	
Achievem	ent 2		Have a basic k engineering et problems in sp and identify th themselves.	hics understand ecific situations,	Have a basic knengineering ethi understand the situations.	ics and	Do not have enough basic knowledge of engineering ethics and do not understand the problem in a specific situations.	
Achievem				ommand of such as "to state "to define," and premises," and ilaterally and issues in daily ty.	Know thinking s state the reason and "to clarify th and can think fr perspectives abo daily lives and s	om multiple out issues in	Have not fully acquired thinking skills, such as "to state the reasons," "to define," and "to clarify the premises," and cannot think from multiple perspectives about issues in daily lives and society.	
Assigne	d Depar	tment Ob	jectives					
学習・教育	到達度目標	票 (A) 学習・	教育到達度目標 (E	3) 学習・教育到達度	き目標 (C)			
Teachin	g Metho							
Outline		issues in addition.	daily lives and so as a practical ap	ociety, while learn	ing the thoughts of will analyze ethics	of philosophe	terally and critically about familiar rs and ethicists, thinking skills. In at engineers will face in modern	
Style		If necessary	ary, ask students will be submit a	n lectures using ha s questions related ssignments and qu understanding, fe	d to the topics of uestionnaires eacl	h time to me	d let them express their opinions. asure their understanding. For their ext week or after.	
Notice		This cour guaranted assignme	se's content will ed in classes and ent reports.		rs of study in total study time requi	al. These hou ired for pre-s	rrs include the learning time tudy / review, and completing	
Charact	eristics (		Division in Le		Will flot be eligible	i ioi a passiii	g graue.	
		or class /	☑ Aided by IO		☑ Applicable to	Pomoto Clas	☐ Instructor Professionally	
☑ Active	Learning		☑ Alded by IC		M Applicable to	Remote Clas	Experienced	
Course	Dlan							
Course	1 1011		Theme		10	Goals		
		1-4	What is philosoph	hy and ethics?	ı	Learn the bas	sic concepts of philosophy and ethics,	
			Overview of the	ese philosophy 1	Į,	and understand the significance of studying them  Understand the thought of Fukuzawa Yukichi, who laid the foundation for modern Japanese academia, and reflect on studies as "science" in		
			History of japane	ese philosophy 2 between science a	Ind philosophy	the modern era.  Understand the thought of Nishi Amane, who first presented the concept of "science" in Japan, and think about the significance of philosophy in		
1st Semeste r		4th	History of japane Science and educ	ese philosophy 3 cation	 	education in 1	ne ideology of the "Gakusei: stem" that formed the basis of modern Japan, and consider the role bhy" played in this system.	
		5th H	History of japane Γhe theory of evo	ese philosophy 4 olution and morali	ty s	Understand the volution, whe scientific and	ne concept of the theory of ich has had a major impact on the philosophical studies in Japan, and speculations about morality that	
		6th E	History of japanese philosophy 5 Biological and social evolution			Understand the change in scientific studies in Japan since the introduction of the theory of evolution, and grasp the impact it brought.		

		7th	History of japanes Problems with the	se philosophy 6 theory of evolu	tion	Understand the	problems with	the idea of fits and drawbacks.	
		8th	Report writing	,		Examine philos	ophical and eth	ical issues from esent their opinions.	
		9th	History of japanes Two perspectives	se philosophy 7 on science		appeared in the	Understand the new concept of "science" that appeared in the late Meiji period, and consider how it differs from the previous one.		
		10th	History of japanes New science and i	se philosophy 8 morality		in the viewpoin	e thought about t of "science" a ate its character	morality proposed fter the late Meiji ristics.	
		11th	History of japanes The relationship b science and philos	etween the two	views on	"science" and r	e link between t philosophical stu nd reconsider th	he concept of Idies in the late e significance of	
	2nd Quarter Hist		History of japanes Philosophical and	se philosophy 10 scientifical think	ing	established the	Understand the thought of Kitaro Nishida, who established the basis of philosophical studies a the Taisho era, and grasp the difference betwee "philosophy" and "science" indicated therein.		
			History of japanes Scientific technolo	History of japanese philosophy 11 Scientific technology and ethics			Understand the thought on the relationship between technology and morality presented in the study of philosophy and ethics in the Taisho era, and contemplate its significance for the present day.		
		14th		Engineering ethics 1 What is engineering ethics?			e issues of " eng , and consider specific cases.	gineering ethics" in their importance in	
		15th	Engineering ethics Problems of living	sg 2 as an engineer		Understand the issues of living as an engineer in the present age, and consider how to deal with them.			
		16th	Report writing			ethical thought	lationship betw s and modern s offer their opini	een philosophical- society from each ons.	
Evaluati	on Me	thod and	Weight (%)						
	E	ixamination	Exercise & Nor mal point	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	C		100	0	0	0	0	100	
Basic Proficience	Basic Proficiency 0		100	0	0	0	0	100	
	Specialized Proficiency 0 0		0	0	0	0	0	0	
	Cross Area Proficiency 0 0 0			0	0	0			

Achievement 1	А	kashi C	ollege	Year	2021		Course Title	Biophysical Chemistry
Class Format   Lecture   Credits   School Credit: 1	Course	Informa	tion					
Electrical Engineering Course Term Second Semester Classes per Week 2 Textbook and/or Teaching Materials Instructor OGASAWARA Hiromichi Course Objectives (2) Learn how to acomine chemical reactions occurring in life based on knowledge of physics and chemistry. (2) Learn how to acomine chemical reactions occurring in life based on knowledge of physics and chemistry. (2) Learn how basic scientific knowledge of mathematics, physics, and chemistry is applied to understanding life, including foundations of knowledge for considering in fitture that engineering technique affect the living body and environgening for future that engineering technique affect the living body and environgening for future that engineering technique affect the living body and environgening for future that engineering technique affect the living body and environgening for future that engineering technique affect the living body and environgening for foundations of knowledge for considering in fitting the caperiments through the experiment of food processing.  Rubric  Idea Level  Idea Level  Idea Level  Individual chemistry.  Achievement 1  Fully understand how basic science.  Fully understand how basic science.  Fully understand how basic science is applied as life science.  Fully understand the physical understand how basic science is applied as life science.  Fully understand the physical understand the physical and chemical methods of experiments involving biomaterials.  Achievement 3  Fully understand the physical understand the physical properties and chemical reactions that physical and chemical reactions that physical and chemical reactions that physical and chemical methods of experiments involving biomaterials.  Assignited Department Objectives  Fai stiplikelified (C) Fai stiplikelif	Course Co	ode	0034			Course Categor	y General	/ Elective
Electrical Engineering Course  Second Semester  Classes per Week 2  Textbook and/or Teaching Materials Instructor  OGASAWARA Hiromichi  Course Objectives  (2) Learn how to examine chemical reactions occurring in life based on knewledge of physics and chemistry.  (3) Learn how to examine chemical reactions occurring in life based on knewledge of physics and chemistry.  (3) Learn the practical methods of physical and chemical experiments through the experiment of food processing.  (3) Learn the practical methods of physical and chemical experiments through the experiment of food processing occurring in life based on physical and chemistry.  Achievement 1  Achievement 2  Fully understand how basic knowledge is applied as life solenton occurring in life based on physics and chemistry.  Fully understand how basic knowledge is applied as life solenton occurring in life based on physics and chemistry.  Fully understand how basic knowledge is applied as life solenton occurring in life based on physics and chemistry.  Achievement 2  Achievement 3  Fully understand how basic knowledge is applied as life solenton occurring in life based on physics and chemistry.  Fully understand the physical chemistry in which the physical and chemical reactions occurring in life based on physics and chemical reactions occurring in life based on physics and chemistry in which the physical and because the physical properties, and occurring in life based on physics and chemical reactions occurring the physical and because the physical chemistry in the physical properties, and occurring the physical properties, and occurring the physical properties, and occurring physical methods of experiments involving biomaterials.  Assigned Department Objectives  Fy2	Class Forr	mat	Lecture			Credits	School C	Credit: 1
Textbook and/or Teaching Materials Instructor  Course Objectives  (3) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry.  (3) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry.  (3) Learn how to examine chemical excellence of the physics and chemical variety in a physic of the processing of the processing of the physics of the physics of the physics of the physics and chemical variety in a physic of the physics and chemical variety in the practical methods of physical and chemical experiments through the experiment of food processing.  Rubric  Ideal Level Fully understand how to examine Physics and chemistry.  Achievement 1  Rubric Fully understand how basic knowledge is applied as life science.  Fully understand how basic knowledge is applied as life science.  Fully understand how basic knowledge is applied as life science.  Fully understand the physical chemistry in the physical and chemistry.  Fully understand the physical chemistry in the physical and physics and chemistry.  Achievement 3  Fully understand the physical chemistry in which the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is a field of chemistry in which the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is the division the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is the division the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is the division the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is the division the structure function (physical properties), and of matters are elucidated using physical metho	Departme	ent				Student Grade		
Teaching Materials Instructor OGASAWARA Hiromichi Course Objectives (1) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry. (2) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemical conditions of mover the processing of mover the processing of the move of the processing of the physical and chemical experiments through the experiment of food processing.  Rubric Ideal Level Fully understand how to consider the living body and environment.  Achievement 1			Second S	emester		Classes per We	ek 2	
Course Objectives  (1) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry (1) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry (1) Learn the practical methods of physical and chemical experiments through the experiment of food processing.  Rubric    Ideal Level								
(1) Learn how to examine chemical reactions occurring in life based on knowledge of physics and chemistry. (2) Learn how basic scientific knowledge for considering in future that engineering technique affect the living body and environment. (3) Learn the practical methods of physical and chemical experiments through the experiment of food processing.  Rubric    Ideal Level	Instructor	r	OGASAW	ARA Hiromichi				
(2) Learn how basic scientific knowledge of mathematics, physics, and chemistry is applied to understanding life, including froundations of knowledge for considering in future that engineering technique affect the living body and environment. (3) Learn the practical methods of physical and chemical experiments through the experiment of food processing.  Rubric   Ideal Level	Course	Objectiv	es es					
Ideal Level   Standard Level   Unacceptable Level   Do not understand how to examine chemical reactions physics and chemistry.   Do not understand how to examine chemical reactions occurring in chemical reactions of experiments involving biomaterials.   Understand how basic knowledge is applied as life science.   Fully understand the physical and chemical methods of experiments involving biomaterials.   Understand the physical and chemical methods of experiments involving biomaterials.   On ont understand the adversarial reaction reacti	(2) Learn foundatio	how basions of know	c scientific kr vledae for co	nowledge of mat Insidering in futi	hematics, physics ure that engineeri	s, and chemistry is ng technique affe	s applied to und ct the living bod	derstanding life, including the drawn and environment.
## Fully understand how to examine chemical reactions occurring in life based on physics and chemistry.  ## Achievement 2  ## Fully understand how basic knowledge is applied as life science.  ## Fully understand the physical and chemical methods of experiments involving biomaterials.  ## Achievement 3  ## Achievement 3  ## Achievement 3  ## Fully understand the physical and chemical methods of experiments involving biomaterials.  ## Achievement 3  ## Agnetic C / 字질 · 教育到速度目標 (C) / 字질 · 教育到速度目標 (G) / 字질 · 教育到速度目標 (C) / 字질 · 教育到速度目標 (G) / 字질 · 教育到速度目標 (D) / 字질 · 教育到速度目標 (G) / 字질 · 教育到速度目標 (D) / 字② · 教育到速度目標 (D) / 字	Rubric							
Achievement 1				Ideal Level		Standard Level		Unacceptable Level
Achievement 2 IFully understand how basic knowledge is applied as life science.  Achievement 3 IFully understand the physical and chemical methods of experiments involving biomaterials.  Achievement 3 IFully understand the physical and chemical methods of experiments involving biomaterials.  Assigned Department Objectives  **Pa** 教育到達度目標(C) 学语·教育到達度目標(D) 学语·教育到達度目標(G)  Teaching Method  Outline Outline  Outline  Achievement 3  Regular classes will be taught in a lecture style, and there will also be exercises and quizzes. In additional chemistry is the division the three will be two classes to conduct experiments.  Style  Regular classes will be taught in a lecture style, and there will also be exercises and quizzes. In additional a lotter in the first class to decide who can take the course should attend the further own which the first class and submit an application for a three for the results. Therefore, who wish to take the course should attend the first class and submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending of the course plane.  Characteristics of Class / Division in Learning  Active Le	Achievem	ent 1		examine chem occurring in lif	nical reactions e based on	chemical reaction life based on ph	ons occurring in	occurring in life based on
Fully understand the physical understand the physical and chemical methods of experiments involving biomaterials.   Understand the physical and chemical methods of experiments involving biomaterials.	Achievem	ent 2		Fully understa knowledge is	nd how basic	knowledge is ap		Do not understand how basic knowledge is applied as life science
字習・教育到達度目標 (C) 学習・教育到達度目標 (D) 学習・教育到達度目標 (G)  Teaching Method  Outline	Achievem	ent 3		Fully understa and chemical experiments in	methods óf	Understand the chemical metho experiments inv	ds of	Do not understand the physical and chemical methods of experiments involving
子宮・教育到達度目標 (C) 学習・教育到達度目標 (D) 学習・教育到達度目標 (G)	Assiane	d Depar	tment Obi	jectives				
Physical chemistry is a field of chemistry in which the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical chemistry is the division th with the phenomena occurring in life as problems in the physical chemistry.  In this course, we will study the chemical reactions that occur in life, with focus mainly on the enerand reaction rate. It will also involve the experiment of food processing.  Style  Regular classes will be taught in a lecture style, and there will also be exercises and quizzes. In additional there will be two classes to conduct experiments of food processing.  Study by consciously thinking how knowledge of the basic scientific subjects (mathematics, physics chemistry) that you have learned so far is helping to understand life and familiar phenomena related In order to ensure the safety of the experiments, if more than 40 students wish to take the course, conduct a lotterly in the first class to decide who can take the course sends on the results. Therefore, who wish to take the course should attend the first class and submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending on number of people and time involved.  Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Instructor Profession Profession Experienced  Course Plan  Theme  Goals  Instructor Profession Experienced  Course Plan  Theme  Goals  Instructor Profession Experienced  Course Plan  Theme  Goals  Learn about the changes of matter and e materials.  At Decomposition of sugar (carbohydrate)  Learn about the decomposition of carboh of the Photosynthesis of the photosynthesis Learn about the decomposition of carboh of the Photosynthesis Learn about the methods of food process and profession maters of hemical that's necessary for future learning.  The photosynthesis Photosynthesis Learn a					D) 学習・教育到達/	要目標 (G)		
Physical chemistry is a field of chemistry in which the structure, function (physical properties), and of matters are elucidated using physical methods. In this field, biophysical hemistry is the division the with the phenomena occurring in life as problems in the physical chemistry. In this course, we will study the chemical reactions that occur in life, with focus mainly on the energy and reaction rate. It will also involve the experiment of food processing.  Regular classes will be taught in a lecture style, and there will also be exercises and quizzes. In addither will be two classes to conduct experiments.  Study by consciously thinking how knowledge of the basic scientific subjects (mathematics, physics chemistry) that you have learned so far is helping to understand life and familiar phenomena related In order to ensure the safety of the experiments, if more than 40 students wish to take the course, who wish to take the course should attend the first class and submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending on unmber of people and time involved.  Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Theme  Goals  Theme  Goals  1st Guidance  2nd Energetics of non-living and living materials  ard Energetics of non-living and living materials  Learn about the changes of matter and e materials.  3rd Energetics of non-living and living materials  Learn about the decomposition of carboh 5th Decomposition of sugar (carbohydrate)  Learn about the decomposition of carboh 6th Photosynthesis  Photosynthesis  Learn about the methods of food process  7th Photosynthesis  But Alidem exam  Hearn about the methods of food process  1th Chemical kinetics  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of chemical that's necessary for future learning.			•		,			
Chemistry) that you have learned so far is helping to understand life and familiar phenomena related In order to ensure the safety of the experiments, if more than 40 students wish to take the course, conduct a lottery in the first class to decide who can take the course based on the results. Therefore, who wish to take the course should attend the first class and submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending on the submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending on the submit an application for attendance. Furthermore, experiments may be conducted by changing the date and time of the class depending on the class the			In this of and react Regular	course, we will s ion rate. It will a classes will be	study the chemica also involve the ex taught in a lecture	I reactions that or speriment of food style, and there	ccur in life, with processing.	focus mainly on the energy flow
Characteristics of Class / Division in Learning  Active L	Notice		chemistry In orde conduct a who wish Furtherm number o	<ul> <li>r) that you have</li> <li>r to ensure the</li> <li>lottery in the fi</li> <li>to take the cou</li> <li>ore, experiment</li> <li>of people and tin</li> </ul>	learned so far is safety of the expe rst class to decide rse should attend s may be conduct ne involved.	helping to unders riments, if more to the who can take the the first class and red by changing the red by red by red by changing the red by red by re	tand life and fa than 40 student e course based d submit an app ne date and tim	miliar phenomena related to it. so wish to take the course, we will on the results. Therefore, student olication for attendance. we of the class depending on the
Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Profession Experienced  Active Learn about the changes of matter and experienced  Instructor Profession Experienced  Instructor Experienced  Instructor Profession Experienced  Instructor Profession Experienced  Instructor Profession Experienced  Instructor Experience Experience  Instructor Experience Experie	Charact	eristics	-					
Theme  Goals  1st Guidance  2nd Energetics of non-living and living materials  3rd Quarter  4th Decomposition of sugar (carbohydrate)  Semester  7t Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  4th Quarter  4th Quarter  4th Quarter  4th Decomposition of sugar (carbohydrate)  12th Enzymes  12th Enzymes  Learn about the changes of matter and e materials.  Learn about the decomposition of carboh Learn about the decomposition of carboh Learn about the decomposition of carboh Learn about photosynthesis.  Learn about photosynthesis.  Learn about the methods of food process Learn about the methods of food process Learn about the methods of food process Learn about the basic matters of chemica that's necessary for future learning.  12th Enzymes  Learn about the basic matters of enzyme Learn about the basic matters of enzyme  Learn about the basic matters of Michaeli						☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced
Theme  Goals  1st Guidance  2nd Energetics of non-living and living materials  3rd Quarter  4th Decomposition of sugar (carbohydrate)  Semester  7t Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  4th Quarter  4th Quarter  4th Quarter  4th Decomposition of sugar (carbohydrate)  12th Enzymes  12th Enzymes  Learn about the changes of matter and e materials.  Learn about the decomposition of carboh Learn about the decomposition of carboh Learn about the decomposition of carboh Learn about photosynthesis.  Learn about photosynthesis.  Learn about the methods of food process Learn about the methods of food process Learn about the methods of food process Learn about the basic matters of chemica that's necessary for future learning.  12th Enzymes  Learn about the basic matters of enzyme Learn about the basic matters of enzyme  Learn about the basic matters of Michaeli		DI.						
1st Guidance 2nd Energetics of non-living and living materials  3rd Energetics of non-living and living materials  4th Decomposition of sugar (carbohydrate)  5th Decomposition of sugar (carbohydrate)  6th Photosynthesis  7th Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  4th Quarter  12th Enzymes  Learn about the changes of matter and e materials.  Learn about the decomposition of carboh Learn about the decomposition of carboh Learn about photosynthesis.  Learn about photosynthesis.  Learn about photosynthesis.  Learn about the methods of food process to the methods of food process to the methods of food process to the methods of food process that's necessary for future learning.  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme Learn about the basic matters of enzyme Learn about the basic matters of Michaelis.	course	rian I	I_			Г	<u> </u>	
2nd Energetics of non-living and living materials  3rd Quarter  4th Decomposition of sugar (carbohydrate)  5th Decomposition of sugar (carbohydrate)  6th Photosynthesis  7th Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  12th Enzymes  12th Enzymes  Learn about the changes of matter and e materials.  Learn about the decomposition of carboh Learn about photosynthesis.  Learn about photosynthesis.  Learn about the methods of food process  Learn about the methods of food process  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  13th Michaelic-Menten enzyme kinetics (overview)  Learn about the basic matters of Michaeli			1				Goals	
3rd Quarter  3rd Quarter  4th Decomposition of sugar (carbohydrate)  5th Decomposition of sugar (carbohydrate)  5th Decomposition of sugar (carbohydrate)  6th Photosynthesis  7th Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  4th Quarter  13th Michaelis-Menten enzyme kinetics (overview)  Learn about the changes of matter and ematerials.  Learn about the decomposition of carboh  Learn about the decomposition of carboh  Learn about photosynthesis.  Learn about photosynthesis.  Learn about the methods of food process  Learn about the methods of food process  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis					n-living and living			e changes of matter and energy of
Ath Decomposition of sugar (carbohydrate)  2nd Semeste r  4th Decomposition of sugar (carbohydrate)  5th Decomposition of sugar (carbohydrate)  6th Photosynthesis  7th Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  4th Quarter  4th Quarter  4th Quarter  4th Quarter  4th Quarter  4th Decomposition of sugar (carbohydrate)  Learn about the decomposition of carboh  Learn about photosynthesis.  Learn about the methods of food process  Learn about the methods of food process  Learn about the methods of food process  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis			3rd E	Energetics of no	n-living and living	materials	Learn about the	e changes of matter and energy of
Sth Decomposition of sugar (carbohydrate)  Earn about the decomposition of carboh  Learn about photosynthesis.  Learn about photosynthesis.  Learn about photosynthesis.  Sth Midterm exam  9th Experiment  Learn about the methods of food process  10th Experiment  Learn about the methods of food process  Learn about the methods of food process  Learn about the methods of food process  Learn about the basic matters of chemica that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis			4th r	ecomposition o	f sugar (carbobyd			e decomposition of carbohydrates
6th Photosynthesis Learn about photosynthesis.  7th Photosynthesis Learn about photosynthesis.  8th Midterm exam  9th Experiment Learn about the methods of food process  10th Experiment Learn about the methods of food process  11th Chemical kinetics Learn about the basic matters of chemical that's necessary for future learning.  12th Enzymes Learn about the basic matters of enzyme  13th Michaelis-Menten enzyme kinetics (overview) Learn about the basic matters of Michaeli		Quarter						//////
2nd Semeste  7th Photosynthesis  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  4th Quarter  12th Enzymes  13th Michaelis-Menton enzyme kinetics (overview)  12th Learn about the methods of food process  Learn about the methods of food process  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis					. Jaga. (carbonya			
Semeste  8th Midterm exam  9th Experiment  10th Experiment  11th Chemical kinetics  4th Quarter  12th Enzymes  Learn about the methods of food process  Learn about the methods of food process that's necessary for future learning.  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis.	2nd							•
9th Experiment Learn about the methods of food process 10th Experiment Learn about the methods of food process 11th Chemical kinetics Learn about the basic matters of chemical that's necessary for future learning. 12th Enzymes Learn about the basic matters of enzyme 13th Michaelis-Menton enzyme kinetics (overview) Learn about the basic matters of Michaeli	-			•			32 0230c pii	
10th Experiment  11th Chemical kinetics  12th Enzymes  Learn about the methods of food process that's necessary for future learning.  Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme  Learn about the basic matters of Michaelis (overview)  Learn about the basic matters of Michaelis matters of M	r						Learn about the	e methods of food processing.
4th Quarter  11th Chemical kinetics Learn about the basic matters of chemical that's necessary for future learning.  Learn about the basic matters of enzyme Learn about the basic matters of enzyme Learn about the basic matters of Michaelis Menten enzyme kinetics (overview)  Learn about the basic matters of Michaelis Menten enzyme kinetics (overview)								
Quarter  12th Enzymes Learn about the basic matters of enzyme  13th Michaelis-Menten enzyme kinetics (overview) Learn about the basic matters of Michaeli				•	5		Learn about the	e basic matters of chemical kinetic
13th Michaelis-Menten enzyme kinetics (overview) Learn about the basic matters of Michaeli			12th F	nzymes				
, , implifeliation		Quarter		•	n enzyme kinetics	(overview)		e basic matters of Michaelis-
14th Michaelis-Menten enzyme kinetics (details)  Learn about some examples of application Michaelis-Menten kinetics.			14th N	Michaelis-Menter	n enzyme kinetics	(dotails)	Learn about so	me examples of application of

	15th	Michaelis-Menten en:	zyme kinetics (details)	Learn about s Michaelis-Me	some examples of application of nten kinetics.		
	16th	Final exam					
Evaluation Method and Weight (%)							
	Exa	amination	Exercises / Short test	Report	Total		
Subtotal	50		40	10	100		
Basic Proficiency	50		40	10	100		
Specialized Proficie	ency 0		0	0	0		
Cross Area Proficiency 0			0	0	0		

	Akashi Co	ollege	Year	2021		Course	
	Informa		ı cui	2021		Title	the Environment
Course C		0035			Course Categor	y Gener	ral / Elective
Class For		Lecture			Credits		ol Credit: 1
Departme	ent		and Computer E Engineering Cou		Student Grade	5th	
Term		Second S		ui se	Classes per We	ek 2	
Textbook		『日本ファ	アイバー興亡史一	ニュー ニュニュ	み解く技術・経済の		
Instructo	<u>Materials</u> r	INOUE N					
	Objectiv	•					
(2)科賞  (3)科賞	学技術の発達 学技術と環境	達によっていた 登破壊の関係を	学技術の発達の歴 かに環境破壊が起 を知り、科学技術 科書を読み、意見	こったかを知る。 者はいかに活動すべ	きかを考える。		
Rubric					T		T
			理想的な到達レ		標準的な到達レ/		未到達レベルの目安
評価項目1	_		明治から太平洋 の発達の歴史を る。	戦争後の科学技術 :十分に理解してい	明治から太平洋戦の発達の歴史を理		
評価項目2	2		境破壊が起こっ している。	によっていかに環 たかを十分に理解 	科学技術の発達は 境破壊が起こった る。		
評価項目3	3		いて科学技術者	破壊の関係に基づ はいかに活動すべ えることができる	科学技術と環境研 いて科学技術者に きかを考えること	はいかに活動す	基づ 科学技術と環境破壊の関係に基づいて科学技術者はいかに活動すべきかを考えることができない。
評価項目4	授業で議論している教科書の内容 目4 に対して的確な意見を述べること 授業で議論している教科書の内 に対して的確な意見を述べることがで る。				内容 授業で議論している教科書の内容 に対して意見を述べることができ ない。		
Assigne	ed Depar	tment Ob	jectives				
			教育到達度目標 (	C) 学習・教育到達度	夏目標 (D)		
Teachir	ng Metho		1 - 24/1/15 - 44 - 5 -				
Outline		世界の1%には油水が日本の繊維	6にも満たない。E 分離フィルター・7 維産業の興亡を通り	中间、ロ本の主妄輸 ]本の繊維産業は総合 水質浄化装置・バグ して、技術の進歩と 技術者倫理にも言及	合化学会社に変身し フィルターなど環り 経済の歴史を学習・	であった。 じん 高付加価値	かし現在、日本の汎用化学繊維生産量は 質の炭素繊維やアスベスト代替繊維、さら てはならない化学物資を生産している。 竟問題に産業界がどのように取り組んで
Style				形式で授業を行う。			
Notice		講師はISC についてi ※連絡員	講義する。 : 小笠原	する。 であり、この科目で( 牛(割合) 1/3以上の		して環境問題と	との関係も含めて技術の進歩と経済の歴史
Charact	teristics (	-	Division in Le	, ,	J ( D )		
	e Learning	<b>,</b>	☐ Aided by I		☑ Applicable to	Remote Cla	Instructor Professionally Experienced
C-	DI-						
Course	rian	-	Theme		ı	Goals	
			 明治の産業―生糸				富岡製糸工場の実態、生糸製造過程、第
				中心産業―綿紡績(		松方デフレ政 争後の繊維産	製糸業の発展等を学ぶ。 策と大阪紡績会社の成功、日清・日露戦 業の躍進、第1次世界大戦景気と金融恐慌 経済の回復と重化学工業の発達等を学ぶ
		3rd	見学旅行のため、こ	 本科目の授業なし。		<u>。</u> 見学旅行のた	
	3rd Quarter			<del>本にロの及業なり。</del> 中心産業―綿紡績(	2)	綿紡績過程、	女工哀史、豊田佐吉は何をしたのか、日 の確立等を学ぶ。
2nd	Quarter	5th	再生繊維レーヨン	の登場(1)		銅アンモニア	レーヨン(キュプラ)、ビスコースレー とは何者か等を学ぶ。
Semeste		6th	再生繊維レーヨン	の登場(2)			期、スフ登場等を学ぶ。
ı			それはニューヨー ら始まった	クタイムズ「合成シ	ルク」の記事か	ヨンの関係、	道、ナイロン発表、三井物産と東洋レーカロザースの生涯、デュポン社の歴史、 の実態等を学ぶ。
	8th 中間試験			· · · · ·			
	4+4-	9th	ナイロンショック	一荒井溪吉始動(1	)	立. 財団法人	ック、財団法人日本合成繊維研究協会設 日本合成繊維研究協会の活動、終戦後の 役―ビニロンとナイロン等を学ぶ。
	4th Quarter	10th	ナイロンショック	一荒井溪吉始動(2	)	財団法人理化	学研究所と財団法人日本合成繊維研究所 イロンとビニロンの工業化、アセテート デンと塩化ビニルの生産、ポリエステル を学ぶ。

	11th	太平洋戦争後の荒井溪吉	この活躍(1)		P化学研究協会設立、高分子 Z、鉱工業技術研究組合法成		
	12th	太平洋戦争後の荒井溪吉	5の活躍(2)	法人格のない高分子原料 のある高分子原料技術研究 油へ、石油からの合成繊維 盛等を学ぶ。	開発技術研究組合から法人格 配組合へ、時代は石炭から石 性の工程、技術研究組合の隆		
	13th	太平洋戦争後の環境問題	<b>見とその解決</b>	4大公害裁判など日本の産業発展に伴う環境問題発生、 公害対策基本法制定と環境庁設置、環境基本法、循環 型社会形成推進基本法等について学ぶ。			
	14th	化学繊維と環境		化学繊維と環境保全、化学ットボトルのポリエステルぶ。	は繊維製品のリサイクル、ペ 繊維へのリサイクル等を学		
	15th	環境破壊と技術者倫理		人類を幸福にするはずの打を与えた典型が環境破壊で 審査員でもあり、これらを あるべきかを考える。	技術の進歩が逆に人類に不幸である。講師はISO14001のでもとに技術者倫理はいかに		
	16th	期末試験					
<b>Evaluation Meth</b>	nod and	Weight (%)					
	発的	表・態度・授業への積極 参加	レポート	定期試験	Total		
Subtotal	40		10	50	100		
基礎的能力	40	)	10	50	100		
専門的能力	0		0	0	0		
分野横断的能力	0		0	0	0		

Akashi College			Year	Year 2021				Course Title Sports Science I			
Course	Informat	ion	•					•			
Course Co	ode	0036	0036 Course Categ					jory	General	/ Elective	2
Class Form	mat	Skill	octrical and Computer Engineering						School C	redit: 1	
Departme	ent					eering	Student Grad		5th		
Term		First Se	emeste	er			Classes per V	Veek	2		
Textbook Teaching											
Instructor MAEDA Tadanori,KOBAYASHI Yuki Course Objectives											
						TO-	- <del> </del>				
・授業に参・安全にス	別して目見れずして目見れば	の健康増設した。	進、体力 行動がと	が同上に努め とれる。また	る。ま 、チー	た、ある程度( -ムで協調、共[	の自己管理力が 司することの意	ある。 義を認	認識し、そのた	めに必要	な行動がとれる。
Rubric		1									
				到達レベルの ※業に参加し		標準的な到達		未到道	達レベルの目室	로(미)	未到達レベルの目安
授業の取り組み 身の 努め。		の健康地	受業に参加し 曽進、体力向 自己管理力が	上に	授業に参加し 増進、体力向 ある程度自己 。	上に努める。	増進、	への参加や自身 体力向上に消 管理力が高くな	肖極的。	授業に参加しない。自身の 健康増進、体力向上に努め ない。自己管理力が低い。	
実技を関する。			的に参加 に高い。	東習、ゲーム 加し、競技力 . また、ゲー 影響力を持つ	が非 ム等	各種目の練習 極的に参加す る。また、そ 付けている。	ることができ		目の練習、ゲ- ることができる		各種目の練習、ゲームに参 加しない。
リーダーシ	<b>ノ</b> ップ	リーダーの役割をよく理解 し、チームワークカを高め ることができる。 リーダーの役割を理解して 担う、もしくは引き受ける ことができる。 ことができる。				リータ いるか とはた	ダーの役割を <sup>I</sup> ず、その役割を ぶい。	理解して を担うこ	リーダーの役割を理解して いない。またその役割を担 うこともない。		
	d Depart										
			・教育	到達度目標(	В)						
Teachin	g Metho		<u></u>	\$651=Fn 10 1 :				フの宮	1 ナみ歯がす	++>=	如ってナミンキン この揺
Outline		業は、三人実施を	スポーツを日常的に取り入れる習慣を身に付けてもらうべく、その楽しさや奥深さをさらに知っ  業は、主体的、積極的に参加する姿勢を求めている。グループを作り、リーダーが中心となって  、実施をすべて行ってもらう。選択可能な種目は以下の通りである。野球、ソフトボール、サッ  二ス、バスケットボール、バレーボール、バドミントン、卓球、トレーニング、フライングデ						って授業内容の立案、検討 サッカー、フットサル、テ		
Style		1. ± t-	、リータ に、安全	ブーを中心に Eかつ雰囲気の	チーハ	で協調 共同し	かがらチーム	ワーク	カを高める頃	(1,さも体)	キルアップしてもらいたい 験してほしい。受講学生が をするような授業作りをし
Notice		・アク1  ・遅刻(  ・無断!	セサリ- は開始2 早退(抜	-類、時計、 0分までとす け出し)が発覚	その他 る。2 覚した	!不必要な物のネ 0分以後の参加	着用していな 着用や持ち込み は認めるが欠席 後を欠席とし、 欠課	を禁止	:する。これら <sup>レ</sup> する。	も減点の	
Charact	eristics o	of Class	/ Div	ision in Le	earni	ng					
☑ Active	Learning			Aided by I	СТ		☑ Applicable	to Re	emote Class	☐ Ins Experi	structor Professionally enced
Course	Plan		1					1_			
			Then	<u>ne</u> ダンス、				Goa	als		
		1st	野球、バン	ソフトボー スケットボー	ル、ハ	ナッカー、フッ ベレーボール、 <i>,</i> フライングディ		このチー	D授業の目的、 -ムを作り、!		解する。希望種目に分かれ 選出する。
		2nd	卓球	スケットボー 、トレーニン	ル、ハ	「レーボール、 <i>」</i> フライングディ	<u>スク</u>	業の	-ダーを中心に D振り返りを行	こ準備体操 テうことが	、練習、ゲームを行い、授 できる。
		3rd	、バス 卓球	スケットボー 、トレーニン	ル、ハ	(レーボール、) フライングディ	スク	業の	-ダーを中心に D振り返りを行	こ準備体操 すうことか	、練習、ゲームを行い、授いさる。
1st Quarter		4th	、バン 卓球	スケットボー 、トレーニン	ル、ハ	(レーボール、) フライングディ	スク	業の	-ダーを中心に D振り返りを行		、練習、ゲームを行い、授 できる。
Semeste r		5th	ー、バン	スケットボー	ル、ハ	ナッカー、フッ ベレーボール、 フライングディ	トサル、テニス バドミントン、 スク		-ダーを中心に D振り返りを行	こ準備体操 テうことか	、練習、ゲームを行い、授 できる。
6		6th	一、バン	スケットボー	ル、ハ	ナッカー、フッ ベレーボール、 フライングディ	トサル、テニス バドミントン、 スク	1 /	-ダーを中心に D振り返りを行	こ準備体操 テうことか	、練習、ゲームを行い、授 できる。
7		7th	し、バン	スケットボー	ル、ハ	ナッカー、フッ ベレーボール、 <i>,</i> フライングディ	トサル、テニス バドミントン、 スク	ー・ソー	-ダーを中心に D振り返りを行	こ準備体操 テうことか	、練習、ゲームを行い、授 できる。
		8th	中間記	式験実施せず	1						
	2nd Quarter	9th	野球、 、バス 卓球	ソフトボー スケットボー 、トレーニン	ル、サルルグ、フ	ナッカー、フッ ベレーボール、 フライングディ	トサル、テニス バドミントン、 スク	希望	₫種目に分かれ	1チームを	作り、リーダーを選出する

	10th	野球、ソフトボール、サ 、バスケットボール、/ 卓球 、トレーニング、	ナッカー、フットサル、テニス (レーボール、バドミントン、 フライングディスク	ソーダーを中心に準備体損 業の振り返りを行うことか	k、練習、ゲームを行い、授 べできる。
	11th		ナッカー、フットサル、テニス 「レーボール、バドミントン、 フライングディスク	ン リーダーを中心に準備体持 業の振り返りを行うことか	県、練習、ゲームを行い、授 ドできる。
	12th	野球、ソフトボール、t 、バスケットボール、/ 卓球 、トレーニング、	ナッカー、フットサル、テニス 「レーボール、バドミントン、 フライングディスク	・ リーダーを中心に準備体換 業の振り返りを行うことか	M、練習、ゲームを行い、授 ができる。
	13th		ナッカー、フットサル、テニス 「レーボール、バドミントン、 フライングディスク	ソーダーを中心に準備体持 業の振り返りを行うことか	県、練習、ゲームを行い、授 「できる。
	14th	野球、ソフトボール、t 、バスケットボール、/ 卓球 、トレーニング、	ナッカー、フットサル、テニス ベレーボール、バドミントン、 フライングディスク	ン リーダーを中心に準備体換業の振り返りを行うことが	k、練習、ゲームを行い、授 ができる。
	15th		ナッカー、フットサル、テニス 「レーボール、バドミントン、 フライングディスク	ソーダーを中心に準備体持 業の振り返りを行うことが	k、練習、ゲームを行い、授 ができる。
	16th	期末試験実施せず			
Evaluation M	1ethod an	d Weight (%)			
		授業の取り組み	実技	リーダーシップ	Total
Subtotal		75	10	15	100
基礎的能力 75			0	0	75
分野横断的能力		0	10	15	25

A	.kashi Co	ollege	Year	2021			ourse	Sports Science II	
	Informa		. 561	1			Title		
Course Co			0037 Course Categ					/ Elective	
Class Forr		Skill			Credits	School Credit: 1			
Departme	ent		l and Computer I		Student Grade	. 5th			
Term			Electrical Engineering Course Second Semester Classes per Wo						
Textbook	and/or								
Teaching Instructor		GOTOH .	Takayuki,MAEDA	Tadanori					
	Objectiv	<u> </u>							
Can tal	ke action t	sses to imple o conduct s action to do	sports safely. Also	vn health and physo, recognizes the s	sical strength. Als ignificance of coll	so, hav labora	ve some l ting and	evel of self-discipline. cooperating with the team and can	
Rubric									
<u> </u>			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		improve their	gth. Have a high	Participate in cla their health and strength. Have self-discipline.	l physi	ical <sup>·</sup>	Reluctant to participate in classes, or improve their own health and physical strength. Do not have a high level of self-discipline.	
Achievem	ent 2		not strive to in	vsical strength.	Actively particip sport practices a are very compe a great influence	and ga titive.	ames, and Also have	e  games. And also have the skills	
Achievem	ent 3		·	e in various sport games.	Do not participa sport practices			Understand the role of a leader well, and can help increase teamwork.	
			Understand are take on the ro	Understand the but cannot play			Do not understand the role of a leader. Also, never play that role.		
Assigne	d Depar	tment Ob	jectives						
			教育到達度目標 (	B)					
Outline	g Metho	The goal the habit Students content.	t of playing sport will split into gr	s on a daily basis. oups and leaders v oose from: Baseba	This class require vill take the lead	es an a to plar	active and n, review	th of sports so that they can build d proactive attitude to participate. , and implement the course , basketball, volleyball, badminton,	
Style		the basic	skills they learn k while collabora	are encouraged to improve their skills through games based on the rules, how to play games, skills they learned in previous years. They are also encouraged to experience the fun of enhand while collaborating and cooperating with your team with your leader in the center. Students initiative in creating a safe and welcoming class, and the instructors support their effort.					
Notice		grade. Do no grade de Tardir but their If it is that clas absence Students	t wear or bring a eduction. ness will be excu- attendance will discovered that s will be marked	accessories, watchesed for the first 20 be marked as abse a student left class as absent, and the r more of classes v	es, or any other u minutes. Studen ent. s early without be eir grade for prev	unnece ts can eing ex ious c	essary ite participa xcused (d lasses wil	nts will be deducted from their ms. These are also eligible for ate in the class after 20 minutes, litching class), their attendance for all suffer a deduction equal to an grade.	
Charact	eristics (	of Class /	Division in Le	earning	1				
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remo	ote Class	☐ Instructor Professionally Experienced	
Course	<u>Plan</u>	<del>                                     </del>	Tl		Т	C- '			
			Theme Guidance			<u>Goals</u> Under	stand the	purposes and objectives of this	
	1st B		basketball, volley training, flying d		able tennis,		e. Split int	to teams in each sport and select a	
2nd		2nd	basketball, volley training, flying d		able tennis,	Can do	o warm-u on the c	p and practice, play games, and lass, led by a leader.	
2nd Semeste r	3rd Quarter	3rd	basketball, volley training, flying d		able tennis,	Can do	o warm-u on the c	p and practice, play games, and lass, led by a leader.	
		4th	basketball, volley training, flying d		able tennis,	Can do	o warm-u on the c	p and practice, play games, and lass, led by a leader.	
		5th	Baseball, softbal basketball, volley training, flying d	l, soccer, futsal, te yball, badminton, t isc	_  -   -   -   -   -   -   -   -   -   -	Can do warm-up and practice, play games, an reflect on the class, led by a leader.			

	6th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
	7th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	actice, play games, and by a leader.		
	8th	No midterm exam					
	9th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Split into teams in each	sport and select a leader.		
	10th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	actice, play games, and by a leader.		
	11th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
4th Ouarte	12th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
	13th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	actice, play games, and by a leader.		
	14th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	actice, play games, and by a leader.		
	15th	Baseball, softball, soco basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	actice, play games, and by a leader.		
	16th	No final exam					
Evaluation M	ethod a	nd Weight (%)					
	Approach to a class		Practical skill	Leadership	Total		
Subtotal	otal 75		10	15	100		
Basic Proficiency	asic Proficiency 75		0	0	75		
			0	0	0		
Cross Area Proficiency 0			10	15	25		

А	kashi Co	llege		Year	2021			ourse Title	TOEICI
Course	Informa	tion							
Course Co	ode	0038		Course Categor			у	General /	Elective
Class Forr	mat	その他				Credits	•	School Cr	edit: 1
Departme	ent			Computer En leering Cou		Student Grade		5th	
Term		Year-rou	nd			Classes per We	ek	1	
Textbook Teaching		None							
Instructor	_	MATSUD	A Yası	utaka,KITA0	GAWA Chiho				
Course	Objectiv	es							
knowledg	e of Englis ws that the	h and the E	nglish-	-speaking c	ultural backgroun	<ul> <li>d. The student s</li> </ul>	should a	acquire 43	xam questions that require 60 or more points in the test, less communication within a
Rubric									
			Idea	al Level		Standard Level			Unacceptable Level
cross-cultural understanding and adaptability			cultu cros tack requ and	ural unders s-cultural a ding exam (		The student had cross-cultural under cross-cultural by tackling examples and the English cultural backgrouss.	indersta ral ada m ques dge of E i-speak	anding ptability itions that English	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.
2) English	n knowledg	ie	Engl the allov	lish knowled needs of ex	ave acquired dge that fulfills veryday life and s communication I range.	The students has some English kills the need and allows busicommunication range.	nowled s of eve ness	ge that eryday life	The students have not acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.
Assigne	d Depar	tment Ob	jectiv	/es					
学習・教育	到達度目標	『(A) 学習・	教育到:	達度目標 (B	) 学習・教育到達度	目標 (E)			
Teachin	g Metho	d							
Outline		KOSEN (I	higher KOSEN	education l	institution). A skill cauire these skills	l required to live at an early stage	throug e. In th	h the 21s is course.	oblem is a skill necessary at t century. The students that the students will learn methods arned at junior high school. Also, olem discovery and resolution.
Style		The cred	its are	obtained a	ccording to tests	results, no classe	es		
Notice		period sti period wi TOEIC (T Public Ins Through	ipulate ill not l est of stitutio this te	ed by the st be accepted English for on (Education est, the stud	udents' affairs off J. The indicator of International Cor	ice. Applications English commu nmunication), a ce), which has th prove his or her	withou nicatior test de he large Englisl	it the test n capabilit eveloped b	apply for the credits during the scores or after the application y will be measured utilizing y the US Test and Development and know-how in the world. e skills, and motivation to learn
Charact	eristics of	of Class /	Divis	sion in Le	arning				
☐ Active		,		Aided by IC		☐ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced
Course	Plan								
			Theme	2			Goals		
		1st							
		2nd							
		3rd							
	1st	4th							
	Quarter	5th							
		6th							
1st		7th	Na :: '	d +a					
Semeste			NO MIC	d-term Exar	11				
r		9th 10th							
		11th							
	2nd	12th							
	2nd Quarter	13th							
	]	14th							
		15th							
			No enc	d-term Exar	m				
224		1st		. co.m Exal					
2nd Semeste	3rd Quarter	2nd							
r	Quarter	3rd							
				_					

		4th						
		5th						
		6th						
		7th						
		8th	No mid-term Ex	am				
		9th						
		10th						
		11th						
	4th	12th						
	Quarte	er 13th						
		14th						
		15th						
		16th	No end-term Ex	am				
Evaluat	ion Me	ethod and	Weight (%)					
		Examination	n Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	су	100	0	0	0	0	0	100
Specialize Proficienc	ed Cy	0	0	0	0	0	0	0
Cross Are Proficienc	ea Cy	0	0	0	0	0	0	0

А	kashi Co	llege	Year	2021		Course Title	TOEICII			
Course	Informat	tion	•			<b>'</b>				
Course Co		0039		Course Categor			I / Elective			
Class Forr	mat	その他			Credits	School	Credit: 2			
Departme	ent	Electrical a Electrical B	ind Computer E Ingineering Cou	ngineering rse	Student Grade	5th				
Term		Year-roun	db	Classes per W			eek 2			
Textbook Teaching		None								
Instructor			Yasutaka,KITA	GAWA Chiho						
Course	Objective	es								
knowledg	e of Englisl ws that the	h and the En	glish-speaking (	cultural backgroun	d. The student s	hould acquire	exam questions that require 500 or more points in the test, siness communication within a			
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
1) cross-c and adapt		derstanding	The student had cultural unders cross-cultural atackling exam require knowle and the English cultural backgr	adaptability by questions that dge of English n-speaking	The student has cross-cultural u and cross-cultu by tackling example the English cultural background the English cultural back	nderstanding ral adaptabilit n questions th dge of English -speaking bund.	cross-cultural understanding and cross-cultural adaptability			
2) English	ı knowledg	e	the needs of e	dge that fulfills veryday life and s communication	The students has some English kinglish the need and allows busing communication range.	nowledge that s of everyday ness	the needs of everyday life and			
Assigne	d Depart	ment Obj	ectives							
学習・教育	到達度目標	『(A) 学習・教	(百到達度目標 (E	3) 学習・教育到達度	目標 (E)					
Teachin	g Metho	<u>d</u>								
Outline		entered Ki of self-lea	DSEN need to a ning and auton	equire these skills omously learning,	at an early stage and not "study"	e. In this cours as they have	problem is a skill necessary at 1st century. The students that se, the students will learn methods learned at junior high school. Also, roblem discovery and resolution.			
Style		The credit	s are obtained a	ccording to tests	results, no classe	es	•			
Notice		period stip period will TOEIC (Te Public Inst Through t	ulated by the sign of be accepted stored for English for itution (Educations test, the studies and the studies test, the studies are stored for the studies the studies to the studies the studies are stored for the stored f	tudents' affairs off d. The indicator of International Cor onal Testing Servi	ice. Applications English commun nmunication), a ce), which has th pprove his or her	without the te nication capab test developed ne largest scal English langu	Id apply for the credits during the est scores or after the application ility will be measured utilizing If by the US Test and Development e and know-how in the world. age skills, and motivation to learn			
Charact	eristics o		Division in Le							
□ Active			☐ Aided by IC		☐ Applicable to	Remote Clas	s Instructor Professionally Experienced			
Course	Plan	, , , , , , , , , , , , , , , , , , ,								
			neme			Goals				
		1st								
		2nd								
		3rd								
	1st Quarter	4th 5th								
	Qua. co.	6th								
		7th								
1st			o mid-term Exa	m						
Semeste		9th								
[	r 901 10th									
		11th								
	2nd	12th								
	Quarter	13th								
		14th								
		15th								
			o end-term Exa	m						
2nd	2nd 1st									
Semeste	3rd Quarter	2nd								
1		3rd								

		4th						
		5th						
		6th						
		7th						
		8th	No mid-term Ex	am				
		9th						
		10th						
		11th						
	4th	12th						
	Quarte	er 13th						
		14th						
		15th						
		16th	No end-term Ex	am				
Evaluat	ion Me	ethod and	Weight (%)					
		Examination	n Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	су	100	0	0	0	0	0	100
Specialize Proficienc	ed Cy	0	0	0	0	0	0	0
Cross Are Proficienc	ea Cy	0	0	0	0	0	0	0

Д	Akashi College			Year	2021			ourse Title	TOEICI	
Course	Informa	tion					ı ı	icic		
Course Co		0040		Course Catego				General /	' Elective	
Class For		その他				Credits		School Cr		
Departme	ent			Computer En		Student Grade		5th		
Term		Year-round Classes per \				Classes per We	eek 3			
Textbook Teaching	and/or Materials	None								
Instructor	r	MATSUD	A Yas	sutaka,KITAC	GAWA Chiho					
	Objectiv									
knowledg	1) The student will foster cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background. The student should acquire 650 or more points in the test, what shows that the students English knowledge fulfills the needs of everyday life and allows business communication within a limited range.									
Rubric										
			Ide	eal Level		Standard Level			Unacceptable Level	
cross-cultural understanding and adaptability			cul cro tac rec and	ltural unders oss-cultural a ckling exam o	ndaptability by questions that dge of English n-speaking	The student ha cross-cultural u and cross-cultu by tackling exa require knowler and the English cultural backgru	indersta iral ada m ques dge of E n-speaki ound.	anding otability tions that English ng	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.	
2) English	n knowledg	je	Eng the allo	glish knowled e needs of ev	ave acquired dge that fulfills veryday life and s communication l range.	The students he some English ke fulfills the need and allows busicommunication range.	nowlede Is of even iness	ge that eryday life	allows business communication	
Assigne	d Depar	tment Ob	jecti	ives						
学習・教育	<b>育到達度目標</b>	票 (A) 学習・	教育郅	到達度目標 (B	) 学習・教育到達度	目標 (E)				
Teachin	ig Metho	d								
Outline		IKOSEN (†	niahe	er education i	institution). A skill	required to live	: throua	h the 21s	roblem is a skill necessary at st century. The students that , the students will learn methods arned at junior high school. Also, blem discovery and resolution.	
Style		The credi	its ar	e obtained a	ccording to tests r	esults, no classe	es			
Notice		period sti period wi TOEIC (T Public Ins Through	ipulat II not est o stitut this t	ted by the st t be accepted of English for ion (Education test, the stud	udents' affairs offi d. The indicator of International Con onal Testing Servio	ce. Applications English commu nmunication), a ce), which has tl prove his or her	withou Inication test de he large English	t the test capability veloped best scale a	apply for the credits during the scores or after the application ty will be measured utilizing by the US Test and Development and know-how in the world. Je skills, and motivation to learn	
Charact	eristics o	of Class /	Divi	ision in Lea	arning					
□ Active	Learning			Aided by IC	Т	☐ Applicable t	o Remo	te Class	☐ Instructor Professionally Experienced	
Ca	Dla :-									
Course	rian T	-	Th a :-			Т	Cost-			
		1st	Them	ic			Goals			
		2nd								
		3rd								
	1st	4th								
	Quarter	5th								
		6th								
		7th								
1st Semeste			No m	iid-term Exar	m					
r		9th								
	10th									
	2nd 11th 12th									
	2nd Quarter	13th								
	-	14th								
		15th								
			No er	nd-term Exar	m					
2nd	2nd 1st									
Semeste	3rd Quarter	2nd								
		3rd								

		4th						
		5th						
		6th						
		7th						
		8th	No mid-term Ex	am				
		9th						
		10th						
		11th						
	4th	12th						
	Quarte	er 13th						
		14th						
		15th						
		16th	No end-term Ex	am				
Evaluat	ion Me	ethod and	Weight (%)					
		Examination	n Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	су	100	0	0	0	0	0	100
Specialize Proficienc	ed Cy	0	0	0	0	0	0	0
Cross Are Proficienc	ea Cy	0	0	0	0	0	0	0

						Course			
А	kashi Co	ollege	Year	2021		Title	Overseas Training III		
Course	Informa	tion							
Course Co	ode	0041			Course Category	General	/ Elective		
Class For	mat	Practical tr	aining		Credits	School C	Credit: 1		
Departme	ent		nd Computer Engineering Cou		Student Grade	5th			
Term		Year-roun	d		Classes per Wee	k 1			
Textbook		なし							
Teaching			-6-4						
Instructor			of the departme	ent					
	Objectiv おける現像		`ケ 物恙を上り	 高めるための取り組					
(2)異文化	の中での研	修に参加するこ	ことで、広い視野	高めるための取り版 を持つことができる ーションができる。	). 				
Rubric									
			理想的な到達レク	ベルの目安	標準的な到達レベ		未到達レベルの目安		
評価項目1	価項目2 価項目3 ssigned Department C 習・教育到達度目標 (A) 学習 eaching Method			多への参加を通じ 高めるための取り る。	海外における研修 て、教養をより高 組みができる。				
評価項目2	福項目1 福項目2 高項目3 Ssigned Department O 習・教育到達度目標 (A) 学習 eaching Method utline		異文化の中でのほとで、広い視野をできる。	研修に参加するこ を持つことがよく	異文化の中での研 とで、広い視野を る。	修に参加するこ 持つことができ	異文化の中での研修に参加することで、広い視野を持つことができない。		
評価項目3			現地で関わる人々	々と英語などを用 ーションがよくで	現地で関わる人々と英語などを用 いてコミュニケーションができる いてコミュニケーションがで いてコミュニケーションがで いてコミュニケーションがで				
Assigne	d Depart	tment Ohi			1		1 -		
				 )学習・教育到達度					
		•		<u> </u>	CIW (E)				
TCacilli	ig Mctrio		スタ種の研修休覧						
Outline		の研修と、	事前指導(マナー	は、夏季休業期間 教育、研修先の下調 当する学習内容であ	ベ)、事後の報告会	・研修日数は、5 ・、関係機関に配	-ション能力を身に付けることが本科 5日間以上とする。本科目は、海外で 3布する報告書の作成などの自己学習時		
Style		事前オリエ	ンテーション,現	地実習,報告会					
Notice		学級担任又ョンをとる合格の対象	は指導教員と緊密 ように努めるとと としない欠席条件	に連絡を取り合う。 もに、服装・言葉) (割合) 条件なし	こと。研修期間中は 遣い等、研修生とし	、積極的に現地 て相応しい態度	他の人たちと関わり、コミュニケーシ まで取り組むこと。		
Charact	eristics (		Division in Lea						
		or Class / L				D 1 Cl	☐ Instructor Professionally		
☑ Active	Learning		☑ Aided by IC	<u> </u>	☑ Applicable to	Remote Class	Experienced		
_									
Course	Plan	1							
		1	neme		G	Goals			
		1st							
		2nd							
		3rd							
	1st Quarter	4th							
	Quarter	5th 6th							
		7th							
1st		8th							
Semeste		9th							
r		10th							
		11th							
	2 4	12th							
	2nd Quarter	13th							
		14th							
		15th							
			 未試験実施せず						
		1st							
		2nd							
		3rd							
2nd	3rd	4th							
Semeste	Quarter	5th							
		6th							
		7th							
		8th		<u> </u>					

		9th				
		10th				
		11th				
4	th	12th				
		13th				
		14th				
		15th				
		16th 其	期末試験実施せず			
Evaluation	n Meth	od and W	eight (%)			
			報告書	発表		Total
Subtotal			50	50		100
分野横断的能	<b>膨胀的能力</b> 50 50			100		

Akashi Col	lege	Year	2021		Course Title	Intellectual Property Rights
Course Informati	on	-1				
Course Code	0042			Course Category	Specializ	zed / Compulsory
Class Format	Lecture			Credits	School C	Credit: 1
Department		ind Computer E Engineering Cou		Student Grade	5th	
Term	First Seme			Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor	MORISADA	A Yuii				
Course Objective		· · · · · · ·				
foreign). (2) Acquire the know research and develop (3) Understand the fl are in when commun	ledge to deroment officerow of applicating with	monstrate appr r in a university ation procedur a patent attor f investigation,	ropriate intellectua y or company, and es (in Japan and o ney or the Japan P and can decide w	property manage can take the lead ther countries), ar atent Office (relevented) hether to conduct	ment capabili within an org nd understand ant organizati all of the inve	I which stage of the procedure they ons). estigation by themselves or to ask
Rubric				1		
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		others the sys	perty rights in	Understand and of others the system intellectual prope Japan.	ns of	Cannot explain to others the system of intellectual property rights in Japan and other countries.
Achievement 2		an organizatio	appropriate	Can explain the k demonstrate app intellectual prope management cap an organization.	ropriate rtv	Cannot explain the knowledge to demonstrate appropriate intellectual property management capabilities within an organization.
Achievement 3		lare in when co	ocedures and the process they	Understand the fl application proce		Do not understand the flow of application procedures.
Achievement 4		Understand th investigation, whether to co	e importance of and can decide nduct all of the ov themselves or	Can understand to finvestigation a determine the ne investigation.	nd can	Do not understand the importance of investigation.
Achievement 5		necessary to o	hemselves, and	Can explain the cliteracy necessary investigation ther	to conduct	Cannot acquire the computer literacy necessary to conduct investigation themselves.
Assigned Departr 学習・教育到達度目標		ectives				
Teaching Method	• •					
Outline	1) Basic the rights, cop 2) Method rights) 3) Flow of registration 4) Flow of application 5) Matters of investigusing the correlating to	yright, etc.) ologies for inte application pro n) international a ı, focusing on t related to inve ating patents, online J-PlatPat e will be taughi intellectual pro	llectual property management of the property management of the procedures, etc. (expending policies, etc.) (expending policies, desiplatform). It by instructors who perty rights in generic management of the property rights in generic platform).	lanagement for restain the flows from res, etc. (explain rall patent application property right gns, and trademand that experience that is a superience that	searchers and application t espective org on system) ots: Lectures eks, and resea	ghts, design rights, trademark developers (focusing on patent o registration, and after anizations and the flow after and exercises (explain the purpose arch tools; also do search exercises dures and consultation services
Style	The class vappropriate	will be carried o e.		tures, and there w		ed research exercises, etc. as
Notice	etc.) that t rights for i develop a Students v	they or their fri t. Students sho habit of thinkin vho miss 1/3 o	end/acquaintance ould be interested i	researched and den n news related to vill not be eligible f	eveloped, how intellectual pr	that there is a creation (invention, they can protect it and pursue operty rights on a daily basis, and grade.
Characteristics of				<u>.</u>		
☐ Active Learning	,	☐ Aided by I		☐ Applicable to F	Remote Class	☐ Instructor Professionally Experienced
Course Plan				1_		
	I r	neme		G	oals	

						1 .				
		1st	Summary of intel	lectual property i	rights	Understand an rights.	overview of in	tellectual property		
		2nd	Patents I			Understand the purpose, and trequirements,	he patent (regi	patent system, its stration)		
		3rd	Patents II			Understand ho inventiveness.	w to judge nov	elty and		
	1st Ouarter	4th	Patents III			Understand the process of creating a broad and strong patent invention from ideas.				
	Qua. co.	5th	Patents IV			Understand the flow of procedures and employee inventions.				
		6th	Patents V / Interr system and pater			Understand the need, etc. for applying for patents in other countries.				
		7th	Patents VI	,			d implement matents and utili			
		8th	Midterm exam					,		
1st		9th	Explanation and of exam / Design rig		he midterm	Understand pa Understand the system.	tents and utility e outline of the	y models. design registration		
Semeste		10th	Designs II	esigns II			Understand the purpose of the design registration system, registration requirements, special design registration, the effectiveness of design rights, etc.			
		11th	Trademarks	Frademarks		Understand the related to the broth.	e trademark processes of creation	ecautions directly n of soy sauce with		
	2nd Quarter	12th	Copyrights I			(works, copyri	e outline of the ghts, moral righks, copyright re	copyright law nts, related rights, estrictions, etc.).		
		13th	Copyrights II				Understand the infringement of rights, and copyright Q&A.			
		14th	Unfair Competition Indications, etc.	n Prevention Act	, geographical	Understand Unfair Competition Prevention Act, and geographical indications.				
		15th	Investigation of d Summary of intel			or trademark. Understand the property rights	Understand and implement investigation of design or trademark. Understand the differences between intellectual property rights (patent, utility model, design, trademark, copyright)			
		16th	Final exam							
Evaluati	ion Metl	nod and	Weight (%)							
	Ex	amination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	10	00	0 0 0		0	0	100			
Basic Proficienc	y 0		0 0 0			0	0	0		
Specialize Proficienc		00	0 0			0	0	100		
Cross Are Proficienc			0	0	0	0	0	0		

to the research topic and use them appropriately for their own research.  papers related to the research topic, or understand and use them for their own study.  to the research topic, or understand and use them for own research.	А	kashi Co	ollege	Year	2021		Course Title	Graduation Thesis	
Class Format   Seminar   Credits   School Credit: 9	Course	Informa	tion						
Class Format						Course Categor	y Specializ	ed / Compulsory	
Term Year-round Classes per Week 解語:2 Texthopk and/or Teaching Materials Instructor Instructor All faculty of the department Course Objectives (1) Can set a research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective. (3) Can set a research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective. (3) Can develop self-learning abilities to continuously explore things.  Rubric  Tideal Level  Can set an appropriate research classes of the continuously applying and content of the continuously applying and solve problems systematically and solve problems systemat	Class Form	mat	Seminar						
Textbook and/or Exacting Materials Instructor All faculty of the department Course Objectives  (1) Can set a research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective.  (2) Master data processing technologies and the theories and methods of information transfer, and can apply them to various design and theorietical analyses.  (3) Can read and understand Japanese and English technical papers, and convey them to others through a presentation to have a discussion.  Rubric Industries  Achievement 1 Industries  Achievement 2 Industries  Can get on appropriate research and the property of engineering, and find and solve problems should be added to the research results obtained as technical papers, and convey them to others through a presentation to have a discussion.  Achievement 2 Industries  Can get on a properties of the properties of engineering, and find and solve problems and integrating basic knowledge of engineering, and find and solve problems and integrating basic knowledge of engineering, and find and solve problems and integrating basic knowledge of engineering, and find and solve problems and integrating basic knowledge of engineering, and find and solve problems and integrating basic knowledge of engineering, and find and solve properties transfer, and can apply them to various design and theoretical by from a broader prespective.  Can get on ponthinuously and accurately explore things  Can get on ponthinuously and accurately explore things.  Can get on ponthinuously and accurately convergence and get on the properties and accurately convergence and get on the properties and properties an	Departme	ent	Electrical Electrical	and Computer E Engineering Cou	ingineering Irse	Student Grade	5th		
Teaching Materials Instructor Course Objectives (1) Can set are search topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective. (2) Master data processing technologies and the theories and methods of information transfer, and can apply them to various design and theoretical analyses. (4) Can read and understand Japanese and English technical papers related to the research topic and use them for their own research. (4) Can read and understand Japanese and English technical papers, and convey them to others through a presentation to have a desemble of engineering, and find and solve problems systematically and solve problems systematically and perspective.  Achievement 1  Teaching Method  Can summarize the research results obtained as technical papers, and convey them to others through a presentation to have a designation basic knowledge of engineering, and find and solve problems systematically and presentation to the problems systematically and solve problems systematically and perspective.  Deeply master data processing technologies and the theories and methods of information various design and theoretical analyses.  Can call developed the theories and methods of information the problems systematically and problems	Term		Year-rou	nd		Classes per We	ek 前期:6 後	期:12	
Course Objectives (1) Can set a research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective.  (2) Master data processing technologies and the theroies and methods of information transfer, and can apply them to various design and theoretical analyses.  (3) Master data or data analyses.  (4) Can read and understand appanese and English technical papers related to the research topic and use them for their own research.  (5) Can summarize the research results obtained as technical papers, and convey them to others through a presentation to have a discussion.  (5) Can summarize the research results obtained as technical papers, and convey them to others through a presentation to have a discussion.  (6) Can set an appropriate research topic on their own by applying and individual solve problems systematically part papers and methods of information a broader perspective.  (7) Can get an appropriate research topic on their own by applying and solve problems systematically and perspective.  (8) Deeply master data processing technologies and methods of information and solve problems systematically and perspective.  (8) Deeply master data processing technologies and methods of information and theoretical analyses.  (8) Deeply master data processing technologies and the theories and methods of information and theoretical analyses.  (8) Can develop self-learning abilities to continuously and accurately explore things.  (9) Can develop self-learning abilities to continuously and accurately control things.  (9) Can develop self-learning abilities to continuously and accurately convey to the search topic and use them for their own subsequence of the search topic and use them for their own subsequence of the search topic and use them for their own subsequence of the search topic and use them for their own subsequence of the search topic and use them for their own subsequence of the search topic and use them for th									
(1) Can set a research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective.  (2) Master data processing technologies and the theories and methods of information transfer, and can apply them to various cessing and throad transfer and can apply them to various cessing and throad transfer and can apply them to various cessing and throad transfer and can apply them to a consumer and the processing the consumers and the processing the problems systematically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader of engineering, and find and solve problems systematically and practically from a broader problems systematically and practically from a broader and methods of information transfer, and can apply them to a processing technologies and the theories and methods of information transfer, and can apply them to a processing technologies and the engage and theoretical analyses.  Can read and decay and theoretical analyses.  Can read and engage and theoretical analyses.  Can read and understand Japanese and English technical papers and theoretical analyses.  Can read and understand Japanese and English technical papers and theoretical analyses.  Can read and unders	Instructor		All facult	y of the departme	ent				
systematically and practically from a broader perspective.  (2) Master data processing technologies and the theories and methods of information transfer, and can apply them to various (2.0) Representations of the processing technologies and the theories appears each engine technical papers related to the research topic and use them for their own research.  Rubric    Ideal Level	Course	Objectiv	es						
Liedal Level   Can set an appropriate research topic on their own by applying and and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader perspective.    Achievement 2   Deeply master data processing systematically and practically from a broader perspective.	systemati (2) Maste design an (3) Can d (4) Can re research. (5) Can si	cally and product data product data product data product data product data product data data data data data data data da	practically fr cessing tech cal analyses f-learning a nderstand Ja	om a broadér pe nnologies and the bilities to continu apanese and Eng	rspective. theories and met ously explore thing lish technical pape	hods of informat gs. ers related to the	tion transfer, an	d can apply them to various and use them for their own	
Can set an appropriate research topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and solve problems systematically and continuously explore things.  Can develop self-learning and theoretical sanabless.  Can read and deeply understand Japanese and English technical papers, and accurately connex to the system sport, for their own study.  Can assumanzize the research results obtained as technical papers, and convey them to the systematically and continuously systems of the system systems to the system systems of the systems of	Rubric								
their own by applying and and integrating basic knowledge of engineering, and find and solve perspective.    Condevement 2				Ideal Level		Standard Level		Unacceptable Level	
kechnologies and the theories and methods of information transfer, and can apply them to various design and the repretical analyses.  Achievement 3  Can develop self-learning abilities to continuously and accurately explore tunings.  Can read and deeply understand Japanese and English technical papers related to the research results obtained as technical papers, and accurately convery them to others through a presentation to have a deep discussion.  Assigned Department Objectives  Pas *** \$\phi and *** \$\p	Achievem	ent 1		topic on their own by applying and integrating basic knowledge of engineering, and find and solve problems systematically and practically from a broader			oplying and ic knowledge of nd find and solve matically and	their own by applying and integrating basic knowledge of engineering, or find and solve problems systematically and practically from a broader	
Achievement 3 abilities to continuously and accurately explore things Can read and deeply understand Japanese and English technical papers related to the research topic and use them appropriately for their own research.  Can summarize the research project owns the summarize the research topic and use them of own research.  Can summarize the research project owns the summarize the research papers, and accurately convey them to others through a presentation to have a deep discussion.  Assigned Department Objectives  **Pan **N\$\para*** and The aim of this class is to understand and analyze issues in their research topic papers, and securately convey them to others through a presentation to have a discussion.  Assigned Department Objectives  **Pan **N\$\para*** and The aim of this class is to understand and analyze issues in their research topics based on the results of the learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, and solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations one of these laboratories.  They are expected to frequently discuss research results with their supervisor.  Style  Characteristics of Class / Division in Learning    Active Learning   Division in Learning   Division	Achievem	ent 2		Deeply master technologies a and methods of transfer, and of various design	nd the theories of information tan apply them to	Master data processing technologies and the theories and methods of information transfer, and can apply them to various design and theoretical		Cannot master data processing technologies and the theories and methods of information transfer, or apply them to various design and theoretical	
understand Japanese and English technical papers related to the research topic and use them appropriately for their own research.  Can summarize the research topic and use them for their own research.  Can summarize the research topic and use them for their own research.  Can summarize the research results obtained as technical papers, and accurately convey them to others through a presentation to have a deep discussion.  Assigned Department Objectives  \$\frac{28}{28} \times \frac{3}{2} \times 3	Achievement 3		abilities to con accurately exp	tinuously and lore things	abilities to cont	elf-learning cinuously explore	abilities to continuously explore		
results obtained as technical papers, and accurately convey them to others through a presentation to others through a presentation to others through a presentation to have a deep discussion.  Assigned Department Objectives  学習・教育到達度目標(B)学習・教育到達度目標(C)学習・教育到達度目標(F)学習・教育到達度目標(F)学習・教育到達度目標(G)学習・教育到達度目標(D)学習・教育到達度)を可能は関係(D)学の表情を関係(D)学の表情を関度を可能は関係(D)学の表情を関度を可能は関格の表情を可能は関係(D)学の表情を可能は関格の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関格(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学の表情を可能は関係(D)学				understand Jap English technic to the research them appropria	panese and cal papers related n topic and use	Japanese and E papers related topic and use the	English technical to the research	English technical papers related to the research topic, or understand and use them for	
学習・教育到達度目標(B)学習・教育到達度目標(D)学習・教育到達度目標(E)学習・教育到達度目標(F)学習・教育到達度目標(G)学習・教育到達度目標(H)  Teaching Method  Outline  The aim of this class is to understand and analyze issues in their research topics based on the results of the learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, and solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations.  Graduation Thesis class is conducted by several faculty members (laboratories). Students will work on document research, experiments, simulations, examinations, etc. under the guidance of their supervisor at one of these laboratories.  They are expected to frequently discuss research results with their supervisor. If they cannot conduct research during the hours of Graduation Thesis class, transfer to other hours with permission from the supervisor. Students who spend less than 202.5 hours on research will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Active Learning  Theme  Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor, simulations, examination, etc. under the supervisor.  Style  Same as above  Same as above  Same as above				results obtaine papers, and ac them to others presentation to	results obtained as technical papers, and accurately convey them to others through a presentation to have a deep			papers, or convey them to others through a presentation	
The aim of this class is to understand and analyze issues in their research topics based on the results of the learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, and solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations.  Style  Graduation Thesis class is conducted by several faculty members (laboratories). Students will work on document research, experiments, simulations, examinations, etc. under the guidance of their supervisor at one of these laboratories.  They are expected to frequently discuss research results with their supervisor. If they cannot conduct research during the hours of Graduation Thesis class, transfer to other hours with permission from the supervisor. Students who spend less than 202.5 hours on research will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Aided by ICT  Applicable to Remote Class  Ist Graduation research  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Semeste of the same as above  Same as above  Same as above	学習・教育	到達度目標			)) 学習・教育到達度	ほ目標 (E) 学習・非	教育到達度目標 (F	F) 学習・教育到達度目標 (G) 学習・	
Outline    The aim of this class is to understand and analyze issues in their research topics based on the results of the learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, and solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations.    Style									
Outline learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, and solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations.  Style Graduation Thesis class is conducted by several faculty members (laboratories). Students will work on document research, experiments, simulations, examinations, etc. under the guidance of their supervisor at one of these laboratories.  They are expected to frequently discuss research results with their supervisor. If they cannot conduct research during the hours of Graduation Thesis class, transfer to other hours with permission from the supervisor. Students who spend less than 202.5 hours on research will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning Aided by ICT Applicable to Remote Class Instructor Professionally Experienced  Course Plan  Theme Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Semeste Ist Quarter  Again Same as above Same as above  Same as above	reachin	g Metho		CILL		1			
Graduation Thesis class is conducted by several faculty members (laboratories). Students will work on document research, experiments, simulations, examinations, etc. under the guidance of their supervisor at one of these laboratories.  They are expected to frequently discuss research results with their supervisor. If they cannot conduct research during the hours of Graduation Thesis class, transfer to other hours with permission from the supervisor. Students who spend less than 202.5 hours on research will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Theme  Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Ist Graduation research  Same as above  Same as above  Same as above	Outline		learning solve pro	up to the 4th yea blems voluntarily	ar and the basic kn / and continuously	nowledge gained by taking appro	through Prelimi priate approach	naries to Graduation Thesis, and	
Permission from the supervisor. Students who spend less than 202.5 hours on research will not be eligible for a passing grade.    Characteristics of Class / Division in Learning	Graduatio Style document			t research, expe	conducted by sev riments, simulation	reral faculty men ns, examinations	nbers (laborator s, etc. under the	ies). Students will work on guidance of their supervisor at	
Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Professionally Experienced  Course Plan  Theme  Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Semeste r  Same as above  Same as above  Same as above  Same as above	permission			on from the supe	rvisor.				
Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Professionally Experienced  Course Plan  Theme  Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Semeste r  Same as above  Same as above  Same as above  Same as above	Charact	eristics						·	
Course Plan  Theme Goals Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  Semeste r  Same as above Same as above Same as above Same as above			1				o Remote Class		
Theme Goals  Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.  1st Semeste r  1st Quarter r  2nd Same as above Same as above  3rd Same as above Same as above									
1st Semeste r 1st Quarter r 2nd Same as above	Course	Plan							
1st Semeste r 1st Quarter r 1st Same as above 1s				Theme			Goals		
Semeste r 2nd Same as above Same as above Same as above Same as above	1st		1st	Graduation resea	rch		experiments, si		
3rd Same as above Same as above	Semeste	1st  Quarter	2nd	Same as above			<u> </u>		
4th Same as above Same as above	r			Same as above					
	<u></u>	<u></u>	4th	Same as above			Same as above		

		5th	Same as abo	ove		Same	as above	
		6th	Same as abo				as above	
		7th	Same as abo	-			as above	
		8th	Same as abo				as above	
		9th	Same as abo				as above	
		10th	Same as abo				as above	
		11th	Same as abo				as above	
	2nd	12th	Same as abo	ive		Same	as above	
	Quarter	13th	Same as abo	ive		Same	as above	
		14th	Same as abo	ive		Same	as above	
		15th	Same as abo	ive		Same	as above	
		16th	No final exar	n				
		1st	Graduation r	esearch		exper	ndependently conduct iments, simulations, e upervisor.	document research, examination, etc. under
		2nd	Preparation f	for the interim present esearch	ation of the	Can c interir	reate posters and har n presentation of the	ndouts to use in the graduation research.
	24	3rd	Interim pres	entation of the gradua	tion research	Can p	resent the research r	esults so far using
	3rd Quarter	4th	Graduation r	esearch		exper	ndependently conduct iments, simulations, e upervisor.	document research, examination, etc. under
		5th	Same as abo	ive		Same	as above	
		6th	Same as abo	ive		Same	as above	
2nd		7th	Same as abo	ve		Same	as above	
Semeste		8th	Same as abo	ve		Same	as above	
r		9th	Same as abo	ove		Same	as above	
		10th	Writing grad	uation thesis		Can c resea	ompile the results of trich and write a gradu	the graduation ation thesis.
		11th	Same as abo	ve		Same	as above	
		12th	Same as abo	ve		Same	as above	
	4th Quarter	13th	Preparation f presentation	for the graduation rese	earch		reate a resume to hai ation research preser	
		14th	Same as abo	ove			reate slides to use in rch presentations.	the graduation
		15th	Graduation r	esearch presentation		gradu	se slides to present thation research orally priately.	ne results of the and answer questions
		16th	No final exar	n				
Evaluat	ion Meth	od and	Weight (%)	)				
		Initiativ		Interim Presentation	Graduation the	esis	Final Presentation	Total
Subtotal		10		20	50		20	100
Basic Prof	ficiency	0		0	0		0	0
Specialize Proficienc		10		20	50		20	100
Cross Are Proficienc		0		0	0		0	0

А	kashi Co	ollege	Year	2021		Course Title	Power Electronics
Course	Informa	tion				•	
Course Co	ode	0044			Course Category	/ Speciali:	zed / Compulsory
Class Forr	mat	Lecture			Credits	School (	Credit: 1
Departme	ent		l and Computer I I Engineering Co		Student Grade	5th	
Term			Semester		Classes per Wee	ek 2	
Textbook Teaching							
Instructor		HIROTA	Atsushi				
Course	Objectiv	es					
average v 2) The ab and think 3) The ab	oltage, cu ility to und about wh ility to vol	rrents, and derstand the at measure untarily and	power, and evale e advantages an s are necessary. d continuously or	luate them quantita d disadvantages of	atively. <sup>-</sup> using power eled I materials throud	tronics techno	e various quantities such as logy, understand the problems, blems and reports, and to find the
Rubric	.ос.оо о. рс			op	<u>о от арриоаетоно.</u>		
			Ideal Level		Standard Level		Unacceptable Level
Achievem	ent 1		principles of v electronics cir calculate vario as average vo	cuits, and can ous quantities such oltage, currents, nd evaluate them	Understand the principles of var electronics circu calculate various as average volta and power, and them quantitativ	ious power its, and to s quantities su ige, current, to evaluate	Do not understand the operating principles of various power electronics circuits, and cannot calculate various quantities such as average voltage, current, and power, or evaluate them quantitatively
Achievem	Understand the advantages and disadvantages of using power electronics technology, understand the issues, and can fully consider what measures are necessary  Understand the advantages and disadvantages of using power electronics technology, understand the issues, and consider what measures are necessary				advantages ar f using power nology, issues, and ca	Do not understand the advantages and disadvantages of using power electronics	
Achievem	ent 3		and materials problems and effectively find characteristics electronics cir	organize reports through exercise reports, and can d the	Can voluntarily a continuously org and materials the problems and re- find the character electronics circu optimal range of	panize reports prough exercise ports, and car eristics of pow its and their	problems and reports, or find
Assigne	d Depar	tment Ob	jectives				
			教育到達度目標 (	F) 学習・教育到達度	<b>を目標 (H)</b>		
<u>Teachin</u>	g Metho	od					
Outline		devices. application	The range of apons, and renewa ons, and renewa oill explain and de	plications includes	consumer electro tion, making it an Iderstanding of th	nics devičes, ii	tricity using semiconductor switch iformation field, electric power nology for modern social life. This wer electronics and make them
Style		Classes v	will be conducted	focusing on lectur	es, and explanati	ons of related	technologies may be added.
Notice		Electric ( review w and thor short of submitte	Circuits and Circu hat they have a oughly review th the passing score d.	uit Theory, and the Iready learned inde ne material. Makeu	Fourier transforn ependently, in add p exams, etc. ma n, and make a red	n, therefore it lition to the st y be held if stu quest. All assig	the past, such as the content of will be necessary for them to udying for this course. Take notes idents with outstanding efforts fall inments are required to be grade.
Charact	eristics	of Class /	Division in Le	earning			
□ Active	Learning		☐ Aided by I	СТ	☐ Applicable to	Remote Class	☐ Instructor Professionally Experienced
			1		·		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Course	Plan						
			Theme			Goals	
		1st	Power electronic	s overview	9	Inderstand the situation of po- actual example	e position, importance, and current wer electronics technology, and s.
		2nd	Semiconductor of	devices for electrica	al nower (1)		e current-controlled semiconductor des used in power electronics
2nd Semeste r	3rd Quarter	3rd	Semiconductor of	devices for electrica	al nower (2)	Understand the switching device quipment.	e voltage-controlled semiconductor les used in power electronics
		4th	DC-DC converte	r (1)			e basics of DC-DC converters and ration of a buck DC-DC converter.
5th			DC-DC converte	r (2)		Understand the converter.	e circuit operation of a boost DC-DC
							e circuit operation of a buck/boost

		7th	Review			Can review ar	nd check the co	ntent so far.		
		8th	Midterm exam							
		9th	DC-AC conversio	n (1)			ne basics of DC- verter circuit us	AC conversion sing switch elements.		
		10th	DC-AC conversio	n (2)		Understand the control method used for inverters.				
		11th	DC-AC conversio	DC-AC conversion (3)		Understand va PWM inverters	arious types of i and three-pha	inverters, such as ase inverters.		
		12th	Rectifier circuits (1)			Understand the basic circuit operation of a rectifier circuit.				
	4th Quarter	13th	Rectifier circuits	(2)		rectifier circuit	ne smoothing ci ts such as chok t type smoothir	e input type and		
		14th	Rectifier circuits (3)			Understand the operation of a rectifier circuit with output voltage control function.				
		15th	Examples of power electronics applications			Can introduce electronics eq so far, and un electronics ted	derstand the in	examples of power ave been discussed apportance of power		
		16th	Final exam							
Evaluati	on Met	hod and	Weight (%)							
		xamination	Report	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	7	0	30	0	0	0	0	100		
Basic Proficienc	y 0		0	0	0	0	0	0		
Specialize Proficienc	d y	0	30	0	0	0	0	100		
Cross Are Proficienc	Area 0		0	0	0	0	0	0		

А	kashi Co	ollege	Year	2021		Course Title	Solid State	Physics C		
Course	Informa	tion								
Course Co	ode	0045			Course Categor	y Specializ	ed / Compulso	ory		
Class Forr	mat	Lecture			Credits	School C	redit: 1			
Departme	ent	Electrical a Electrical I	and Computer E Engineering Cou	ngineering Irse	Student Grade	5th				
Term		First Seme	ester		Classes per We	Week 2				
Textbook Teaching	and/or Materials	荻野俊郎「	エッセンシャル原	5用物性論」朝倉書	店					
Instructor		OHMUKAI	Masato							
Course	<u>Objectiv</u>	es								
(2)結晶構	子性につい 造について 折の原理に	て知る 知る ついて知る								
Rubric										
			理想的な到達レ	 ベルの目安	標準的な到達レ/	 ベルの目安	未到達レベノ	 レの目安		
評価項目[1	1]		光の粒子性につ ができる。	いて定量的な議論	光の粒子性についができる。	ハて定性的な議論	光の粒子性に	こついて議論できない		
評価項目[2	2]			い分類ができる。	結晶構造における	3代表的な例がわ	結晶構造にて とができない	Oいて実例を挙げるこ ヽ。		
評価項目[3	3]		X線回折の原理 きる。	を定量的に説明で	X線回折の概略な	を身に着けている		Oいて知識がない。		
	•	tment Obj		4)	•					
	g Metho		·│ लेप्राच्याच्याच्या							
	ig Metho				 わなかった事項に	 ついて学ぶ。例え	 ば固体の原子西	 記列にかかわる物理的		
Outline		な構造に関	する内容を取り扱	う。 と ここへ	10.000 D7C4-X1C	20.63.200 000		07 11C/3 /3 /17 @ 175-X-21		
Style	最初に講義を行い概略を説明したあと、各自が自主学習を行う。									
Notice		授業中は集  必要。  合格の対象	中して理解に努め としない欠席条件	か、わからないとこ ‡(割合) 1/3以上の	ろを授業中に質問 )欠課	して解決していく	プロセスが求め	られる。毎回復習が		
Charact	eristics		Division in Le		, V (D)(					
		<u> </u>			[7] Applianhla te	- Dometa Class	☐ Instruct	or Professionally		
☑ Active	Learning		☐ Aided by IC	☐ Aided by ICT ☐ Applicable to			Experience			
Course	Plan	1								
		T	heme			Goals		- **		
		1st 索	放射			熱放射における) 理解する。	ブランクの仮説の	の背景と内容について		
		2nd 쓌	電効果とコンプ	トン効果			プトン効果の定 いて理解する。	量的議論を例にとり、		
		3rd 原	子スペクトルと気	気体のエネルギー等	分配則		D構造を理解し、	気体のエネルギー等		
	1st Quarter	4th 気	体の分子運動論			金属や半導体中でを理解する。	での電子の振る	舞いの基礎となる理論		
	Quarter	5th 結	晶構造とブラベ-	-格子		結晶の構造を格力 類があるかを知る		里解し、どのような種		
		6th 結	晶格子の実例と	充填率				計算できるようになる		
1st		7th 復	習			これまでの内容を	・概観して理解	を深める。		
Semeste		8th 中	間試験			60点以上を取得	する。			
1		9th X	(線回折の基礎			X線回折の基礎で する。	ごあるブラッグの	の条件を定量的に理解		
		10th X	(線回折の応用			実際の測定におい 知る。	いて気を付けない	ければいけないことを		
	11th 結晶の不完全性		晶の不完全性			結晶の点欠陥と線欠陥の例について学ぶ。				
	2nd Quarter	12th 1	種原子の格子振動	<b>動</b>		1種類の原子から ぶ。	らなる格子の振	動について定量的に学		
		13th 2	種原子の格子振動	·····································		2種類の原子から ぶ。	2種類の原子からなる格子の振動について定量的に学			
		14th 固	体の比熱の理論			固体の比熱の理論	論を3種類学ぶ。	·		
			習			これまでの内容を	を整理して理解	を深める。		
16th 期末試験						60点以上を取得する。				
Evaluati		od and W		1	1	1				
	試馬		課題	相互評価	態度	ポートフォリオ		Total		
Subtotal	70		0	0	0	0	30	100		
基礎的能力			0	0	0	0	0	0		
専門的能力	70		0	0	0	0	30	100		

分野横断的能力	ln	ln	Λ	ln	ln	ln	l n
ノノエデリ央ロハレン月ピノノ	10	10	U	10	10	10	U

А	kashi Co	ollege	Year	2021		Course Title	Experiments of Electrical Engineering II	
Course	Informa	tion	•	1			, 5 5	
Course Co		0046			Course Categor		red / Compulsory	
Class Forr	mat	Experim			Credits	School C	Credit: 2	
Departme	ent	Electrica  Electrica	I and Computer I I Engineering Co	Engineering urse	Student Grade	5th		
Term		First Ser			Classes per We	ek 4		
Textbook	and/or							
Teaching Instructor		KAMI Ya	sushi					
	Objectiv	<u> </u>						
(1) Can m (2) Can e (3) Can d	neasure ar xamine th	nd verify the e behavior the specification	e characteristics of an amplifier ci ations of a syster	of a transistor. rcuit using a trans n that satisfies the	istor. conditions giver	n by the experin	nent supervisor, and present them.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1			the characteristics and examine the	Can measure the of a transistor.	ne characteristic	Cannot measure the characteristics of a transistor.	
Achievem	ent 2		experiment or an op amp in amplifier circu transistor, and	d propose and s, etc. utilizing	Can examine the experiment on an amplifier cirtransistor.	the behavior of	Do not know the behavior and basic characteristics of an amplifier circuit using a transistor.	
Achievem	Achievement 3		satisfies the countries the experimen	of a system that onditions given by at supervisor, and nem in an easy-to-	satisfies the co	f a system that nditions given b	Cannot determine the specifications of a system that satisfies the conditions given.	
		Can work in a cooperating a solve the issue	nd sharing roles to	Can work in a gissues assigned		Cannot work in a group.		
Assigne	d Depar	tment Ob	ojectives	<u>-</u>			•	
学習・教育	到達度目標	票 (B) 学習・	教育到達度目標 (	E) 学習・教育到達度	要目標 (G)			
Outline	g Metho	In this cand electrespect in the state of th	tronic engineerin for others and hi	g that they acquire gh cooperativeness presentation skills	ed previously. Th s and leadership	ne aim of this cla by conducting e	ledge and techniques of electrical ass is to foster engineers with experiments in groups. ary for scientific reports through	
Style		Thev wil	will design and implement systems in PBL format, focusing on amplifier circuits using transistors. work in groups of four to five, and give presentations and submit reports as appropriate. up should voluntarily think and prepare/pre-study for the group work.					
Notice		Students the due Precaution taken m	will not receive date. ons regarding the ay be needed, so the lab and putt	a passing grade under experiments will do review. Studen ing away the equit	nless they give all specified presentations and submit reports by be given during the first week. The content of subjects already nts must pay attention to everything from taking roll-call to			
<u>Charact</u>	eristics o	of Class /	Division in Le	earning	T			
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
Cour SC	. 1011		Theme			Goals		
		1st		ng experiment and	l concept	Understand the engineering exp	various precautions related to periments and the content and experiment course. e concept of the system to be	
1 a+		2nd	Presentation of o specifications 1	concept and develo	opment of	Can present ea	ch team's concept. ppinions on the specifications of be developed.	
1st Semeste r	1st Quarter	3rd	Development of	specifications 2		Can agree on the group.	ne specifications of the system as a	
		4th	Development of	specifications 3			lan on how to meet the etermined previously.	
	5th		evelopment of specifications 3  lection and planning of elements and review of opposal for sharing of roles			Can select the parts necessary to achieve the specifications. Can summarize the sharing of roles and the		
6th				roposal for sharing of roles		future plans of	the aroup.	

		7th	Specification report m	neeting	Can present the specific methods to meet the specific sharing of roles as dete	cations decided, the pecifications, and the rmined by each group.
		8th	Track progress		Each team reviews prog specifications and plans	gress and redesigns
		9th	Measuring of the char to be used and confirm	racteristics of the elements mation of how to use them	Determine the elements their characteristics, ve examine whether they specifications.	s to be used, measure rify how to use them and are suitable for the
	10th System design and impleme		plementation 1	Can determine exactly how to build the system a target.		
	11th System design and implementation		plementation 2	Can implement the system by the construction method determined by each group.		
2nd Quarter 12th System design and implementation 3 Can comp as determ			Can complete the imple as determined by each	mentation of the system group.		
	13th System design and implement		plementation 4	Can evaluate the compl proposals for improvem	eted system and submit	
		14th	System design and in	plementation 5	Can execute the improvement have been submitted.	rement proposals that
		15th	Final presentation me	eeting	Can demonstrate and p systems.	resent implemented
		16th	No final exam		Submit reports instead	
Evaluation Method and Weight (%)						
Specification Presentation		Final Presentation	Report	Total		
Subtotal	Subtotal 30		35	35	100	
Basic Proficiency 0		0	0	0		
Specialized Proficiency 30		30	35	35	100	
Cross Are	a Proficier	псу	0	0	0	0

A	kashi Co	ollege		Year	2021			ourse Title	Probability and Statistics		
Course :	Informa	tion	·		•	Title   '					
Course Co	ode	0047				Course Categor	· · · · · ·				
Class Forr	mat	Lecture				Credits	1	Academic Credit: 2			
Departme	ent			computer in eering Cou	Engineering urse	Student Grade	!	5th			
Term		First Sem	nester			Classes per We	eek 2	2			
Textbook Teaching											
Instructor		HAMADA	Yukih	iro							
Course	Objectiv	es									
[2] Under [3] Under [4] Under [5] Can m	stand the stand the stand the nake statis	concept of	probat probat f statis ites.	oility and c oility distril	an calculate the poution and can ca an calculate basic	lculate the amour	event. nt of sar	mples.			
Rubric											
			Idea	al Level		Standard Level			Unacceptable Level		
Achievem	ent 1		vari corr	ance, cova	calculate mean, priance, and efficient and gram.	Can calculate n covariance, and coefficient and histogram.	d correla	ation	Cannot calculate mean, variance, covariance, and correlation coefficient and create a histogram.		
Achievem	ent 2		prob prob dete	pability and pability of	calculate the d conditional an event, and independence of ectly.	Can calculate the and conditional event, and determined independence of	l probab ermine t	ility óf a the	Cannot calculate the probability and conditional probability of an event, and determine the independence of the event.		
Achievem	ent 3		prob bind dist	pability of	calculate the an event under bution, Poisson nd normal	Can calculate the an event under distribution, Podistribution, and distribution.	r binomi oisson	al ´	Cannot calculate the probability of an event under binomial distribution, Poisson distribution, and normal distribution.		
Achievem	ent 4		pop calc vari	ulations ar	amples and nd can correctly ble mean, sample unbiased	Understand sar populations and sample mean, s and unbiased v	d samples and is and can calculate ean, sample variance, sed variance.  Do not understand samp populations and cannot calculate sample mean, sample variance, and unbiased variance.  Do not understand samp populations and cannot calculate sample mean, s		calculate sample mean, sample variance, and unbiased		
Achievem	ent 5		estii	accurately mation and mation.	y make point d interval	Can make point interval estimate					
Achievem	ent 6		pop	accurately ulation me ulation var	an and the	Can test the po and the popular	pulation ition var	n mean iance.	Cannot test the population mean and the population variance.		
Assigne	d Depar	tment Ob				•					
学習・教育	到達度目標	票 (D) 学習・	教育到	達度目標 (	F)						
Teachin	g Metho										
Outline		laround u	ıs, exp	lain what I	bilities and statist happened based on the basics of pro	on the pattern, ar	nd estim	iate the v	various coincidence that occurs whole from the part. In this		
Style		Each week.	ek, the	class will	alternate between	n explanation and	d exercis	se about	the content you will learn for the		
Notice		guarante reports. assignme calculus.	eed in on the second in the se	classes and will be two volves pro solve the	d the standard sel c assignments, an gramming in C. S questions or exer	f-study time requid both of them maked the transfer of the tra	f study in total. These hours include the learning time dy time required for review and completing assignment h of them must be submitted by the due date. One of this should have a prior knowledge of linear algebra and problems yourself and score it against the answer. ot be eligible for a passing grade.				
Charact	eristics o	of Class /	Divis	ion in Le	earning						
□ Active	Learning		☑ A	Aided by I	СТ	☑ Applicable to	licable to Remote Class				
Course	Plan										
Course	1 1011	-	Theme	<u> </u>			Goals				
					and 1-dimension	al data 1of 2	Unders	ırse. Can	objectives and grading method of create a frequency distribution ogram of the data.		
		2nd	1-dime	ensional da	ata 2 of 2	Can calculate mean, median, mode, vari standard deviation of the data.		ean, median, mode, variance, and			
1st Semeste r	1st Quarter	3rd	2-dime	ensional da	ata		Can cal	culate th	e correlation coefficient and		
		I., T.					regression line of 2-dimensional data.		Can explain the meaning and nature of events, and probability.		moaning and nature of trials
		4th	Discret	te probabi	lity						

		6th	Probability variab	oles and distributi	on	Can explain disdiscrete probathe sequential probability der	probability var	ity variables and ons. Also, can explain riables and the	
		7th	Mean and varian	Can calculate mean and variance of probability variables variables.			ance of probability		
		8th	Midterm examina	rm examination					
		9th	Binomial distribu	tion and Poisson	distribution	Can explain the distribution an distributions.	e binomial dist d can calculate	ribution and Poisson e their means and	
		10th	Normal distributi	on		Can explain and use normal distribution. Also, can explain the relationship between binomial distribution and normal distribution.			
		11th	Sample distributi	nple distribution  Can explain population sample variance, unbia large numbers, and ce		Can explain po sample variand large numbers	pulation, samp ce, unbiased-va , and central li	ole, sample mean, ariance, the law of mit theorem.	
	2nd	12th	Central limit theo			n normal population and central limit			
	Quarter	13th	Various probabili			e chi-squared (			
		14th	Estimation and test 1 of 2  Can perform interval estimation of mean when the population variance unknown. Also, can explain what variatistical tests.  Test 2 of 2  Test 2 of 2  Can perform interval estimation of mean when the population and unknown.  Can perform interval estimation of mean when the population mean when the population mean when the population mean unknown.			ariancė is known and			
		15th				ne population			
		16th	Final examination	า					
Evaluati	ion Met	hod and	Weight (%)						
	total 80 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Portfolio	Other	Total				
Subtotal			0	0	100				
Basic Proficienc			0	0	0				
Specialize Proficienc		)	20	0 0		0	0	100	
Cross Are Proficienc			0	0	0	0	0	0	

A	kashi Co	ollege	Year	2021			ourse	Information Theory
Course	Informat	tion		Title			TICIC	
Course Co		0048		Course Category Specialized / Elective				ed / Elective
Class Forr		Lecture			Credits School Credit: 1			•
Departme	ent		I and Computer I I Engineering Co					
Term		First Ser		urse	Classes per We	ek	2	
Textbook Teaching					,		<u>                                     </u>	
Instructor		NAKAI Y	 ′uichi					
	Objectiv							
(2) Under (3) Under limits. (4) Under (5) What	stand the stand the stand Sha is a comm	definition of types of co nnon's first junication of	of various sources oding and the cor theorem and its	nditions that coding s significance. types. In addition,	d the meaning o should meet, a	of entro and can	py in each derive the	n source, and can derive it. e average code length and its pressed.
Rubric								
			Ideal Level		Standard Level	l		Unacceptable Level
Achievem	ent 1		amount of info	y explain how the ormation is ow its validity is	Can explain ho information is out its validity is gu	defined	and how	Cannot explain how the amount of information is defined and how its validity is guaranteed.
Achievem	ent 2		various source and the mean	ne definition of es of information ling of entropy in and hence can rately.	in and the meaning of entropy in and the meaning of entropy in information and the			Do not understand the definition of various sources of information and the meaning of entropy in each source.
Achievem	ent 3		and the condi- should meet,	length and its	and the conditions that coding coding and the condit should meet, and can derive the coding should meet, t			coding and the conditions that coding should meet, the average code length and its
			Can accuratel Shannon's firs significance.	y explain st theorem and its	Can explain Shannon's first			Cannot explain Shannon's first theorem and its significance.
			a communicat	ly explain what is tion channel and nd how they can	Can explain wh communication their types, and be expressed.	า chann		Cannot explain what is a communication channel and their types, and how they can be expressed.
			Can accurately significance of second theorem	f Shannon's	Can explain the Shannon's seco			Cannot explain the significance of Shannon's second theorem.
Assigne	d Depart	tment Ob	ojectives					
学習・教育	<b>到達度目標</b>	票 (D) 学習・	教育到達度目標 (	H)				
Teachin	g Metho							
Outline		informat	ion and continue	ion theory, which is in the knowledge rection systems. The on to the first the ing the definition of	eorem of Shanno	on. Sha	annon's se	indispensable in modern life. In ad "accurate" information with the quantification of cond theorem will be taught in
Style		Classes so active	will be held in a l	ecture style using s in order to test the	slides. Students eir understandin	will be	given pra	ctice questions for assignments,
Notice		understa	and these conten	t well beforehand.	t students have the knowledge of probability and statistics			
Charact	eristics o	of Class /	Division in Le	earning				
□ Active	Learning		□ Aided by I	СТ				☐ Instructor Professionally Experienced
Course	Dlan							
Course	rian 		Theme		Goals  Can explain the model of a communic system which is assumed in informati and quantify information.			
		1st		nunication system				assumed in information theory
1st Semeste r	1st Quarter	2nd	Memoryless soul	rces and entropy		Can ex the me provide source	emoryless es clues to	simplest source of information, source, and the entropy that o the internal structure of the
		3rd	Markov source a	nd entropy		Can ex real-w entrop	orld inforr	Markov source, which is close to nation sources, and derive its

		4th	What is coding			that coding m	ust meet.Can e	n some conditions xplain the definition its limit for instant	
		5th	Shannon's source	source coding theorem  Can explain Shannon's source coding the and its significance.			e coding theorem		
		6th	Huffman coding	ng Can construct the Huffman code scheme that can configure com					
		7th	Communication c			ne definition of one the how they are re	communication epresented.		
		8th	Midterm exam						
		9th	Mutual informatio	n		Can explain w defined by the communicatio	information tra	nformation, which is ansmitted over the	
		10th	Various communi	cation channels		Can explain no longitudinal, a channels.	oiseless, detern nd degraded co	ninistic, and ommunication	
		11th	Communication c	tion channel capacity  channel capacity  the mutual inf  Can explain he transmission of channels.  Can explain the transmission of channels.		channel capac	blain the definition of communication capacity derived from consideration of cual information.		
	2nd Quarter	12th	Improved commu			ow to improve reliability in the of information over communication			
		13th	Error rates and ru			Can explain the rules for reducing the error rat communication channels.			
		14th	Shannon's noisy-	channel coding t	heorem	Can explain SI theorem for a	Can explain Shannon's noisy-channel coding theorem for a binary symmetric channel.		
		15th	Channel coding			Can explain th coding scheme	Can explain the basic concept of some channel coding schemes.		
		16th	Final exam						
Evaluati	ion Me	thod and	Weight (%)						
	ciency 0 0 0		Behavior	Portfolio	Other	Total			
Subtotal			0	0	100				
Basic Proficienc			0	0	0				
Specialize Proficienc		.00	0 0 0		0	0	0	100	
Cross Are Proficienc		)	0	0	0	0	0	0	

Д	Akashi Co	ollege	Year	2021		Course Title	Fundamentals of Communication Systems
Course	Informa	tion					
Course Co	ode	0049			Course Categor	ry Specializ	red / Elective
Class For	mat	Lecture			Credits	Academi	ic Credit: 2
Departme	ent	Electrical a  Electrical E	nd Computer Eingineering Cou	ngineering rse	Student Grade 5th		
Term		First Seme	ster		Classes per We	ek 2	
Textbook	and/or Materials	教科書:植林	松友彦、松本隆太	郎「基本を学ぶ通信	信工学」オーム社		
Instructo		TAKITA Ma	ikoto				
Course	Objectiv	es es					
1) 通信シ  2) 通信シ	ステムを理 ステムにお	ける簡単な信号	する. 等な数学的準備 処理システムを 的学習能力を得	や基礎的な信号処理 設計できる. る.	<b>!論について理解し</b>	, 解析できる.	
Rubric					1		
			理想的な到達レ		標準的な到達レ		未到達レベルの目安
評価項目1			要な数学的準備	理解するために必 や基礎的な信号処 確に理解し,解析	要な数学的準備を	理解するために必 や基礎的な信号処 解し,解析できる	週信ン人ナムで生件するために必
評価項目2	!		通信システムに 処理システムを	おける簡単な信号 正確に設計できる	通信システムにる 処理システムを記	おける簡単な信号 设計できる.	通信システムにおける簡単な信号 処理システムを設計できない.
評価項目3			成できる.	ポートを正確に作	必要数の課題レスる.	ポートを作成でき	必要数の課題レポートを作成できない.
		tment Obje					
		` /	(育到達度目標 (F	-) 学習・教育到達度	要目標 (H)		
Teachin	ng Metho		 	明報オスために必要:	+> 甘磁頂口も	節出かフナログ語	ほう・フェルについて飯道する 科日
Outline		本授業では通信システムを理解するために必要な基礎項目および簡単なアナログ通信システムについて解説すの構成としては、後期開講科目である「通信方式」と組となる科目であるため、本科目と「通信方式」の両利を薦めたい.				16システムに りいて解説する。 村日 5科目と「通信方式」の両科目の受講	
Style		通信システム であるので、 連絡員:大「	・予習復習をして	]グ変復調方式に重りかりやりながら取	点を置いて、教科 り組むこと。	書を用いながら解	説していく。自己学習が重要な科目
Notice					復習および課題レ としない欠席条件	ポート作成に必要 (割合) 1/3以上の	な標準的な自己学習時間の総計が の欠課
Charact	eristics	of Class / D	ivision in Le	arning	T		
☐ Active	Learning		☐ Aided by IC	T	☑ Applicable to a positive to a positiv	o Remote Class	☐ Instructor Professionally Experienced
Course	Plan						
Course	riaii	Th	neme			Goals	
		導 in in	入 信システムの基z	★構成と本授業の位 ぶための数学的基礎 を解説する。	置付けを行う。 として欠かせな		ついて説明できる。変調の役割につい
		2nd デデ	ィジタル信号処理	里とアナログ信号処 里とアナログ信号処	理を比較しなが	ディジタル処理な	ヒアナログ処理の概要を説明できる。
		3rd   フ	号波の解析 ーリエ級数やフ- 説明する。	- リエ変換を用いた	信号波の表現法	周期信号と非周期 を用いて表現で	明信号をフーリエ級数とフーリエ変換 きる。
	1st Quarter	4th "電扱	氢気回路などの連 う	と離散時間システム 続時間システムとす との関係について説	ディジタル信号を	連続時間システム きる。	ムと離散時間システムについて説明で
1st Semeste r		線 5th	 形時不変システム 形性, 時不変性が			"離散時間システ 演算について説明	ムの線形性、時不変性および畳み込み 月できる。
		6th ショ		寺性およびその有効	の有効性について解説 "離散時間システムの周波数特性について特性の求め方について つ導出できる。		
		中	間演習	寅習を通して復習し	復習し、理解を深める 与えられた課題をやり遂げることができ		をやり遂げることができる。
		8th 中	ਗ試験 6 0 点以上を取得する。			导する。	
	2nd	9th  変	幅変調方式(1) 調の役割や意義( 要を説明する。	こついて説明する。	振幅変調方式の	各変調方式の役割 の概要を説明です	割について説明できる。振幅変調方式 きる。
	Quarter	10th 振	幅変調方式(2)	周について説明する	۰	振幅変調方式の変	<b>変調方法と復調方法を説明できる。</b>

11th	角度変調方式(1) 位相変調と周波数変調の概略を説明し、 占有帯域幅について説明する。	、周波数変調の	  位相変調と周波数3 	変調の性質を説明できる。
		る。	周波数変調方式の変	変調方法と復調方法を説明できる。
13th	標本化定理と搬送波として周期パルス(	信号を用いたパ	標本化定理とパルス	ス変調について説明できる。
14th	"離散的な周波数スペクトルを少ない演 高速	質量で得られる	"高速フーリエ変換 リエ変換との関係に	について説明でき、および離散フー こついて説明できる。
		、理解を深める	与えられた課題をか	らり遂げることができる。
16th	期末試験		60点以上を取得する。	
od and V	Veight (%)			
試験 Subtotal 70 基礎的能力 0		課題レポート		Total
		30		100
		0		0
門的能力 70 30		30		100
	0	0		0
	11th 12th 13th 14th 15th 16th	12th       角度変調方式 (2)         周波数変調とその復調について説明する         13th       標本化定理と搬送波として周期パルスが号変調について説明する。         高速フーリエ変換         14th       "離散的な周波数スペクトルを少ない渡高速フーリエ変換について解説する。         15th       これまでの内容を演習を通して復習し、。         16th       期末試験         Od and Weight (%)       試験         70       0         70       0	11th       位相変調と周波数変調の概略を説明し、周波数変調の占有帯域幅について説明する。         12th       角度変調方式 (2) 周波数変調とその復調について説明する。         13th       パルス変調とパルス符号変調標本化定理と搬送波として周期パルス信号を用いたパルス符号変調について説明する。         14th       高速フーリエ変換 "離散的な周波数スペクトルを少ない演算量で得られる高速フーリエ変換について解説する。         15th       ごれまでの内容を演習を通して復習し、理解を深める。         16th       期末試験         od and Weight (%)       課題レポート         70       30         0       70         30       0         70       30         0       70	11th       位相変調と周波数変調の概略を説明し、周波数変調の 占有帯域幅について説明する。       位相変調と周波数変 周波数変調方式の3         12th       角度変調方式(2) 周波数変調とその復調について説明する。       周波数変調方式の3         13th       パルス変調とパルス符号変調 標本化定理と搬送波として周期パルス信号を用いたパルス符号変調について説明する。       標本化定理とパルス ルス符号変調について説明する。         14th       『離散的な周波数スペクトルを少ない演算量で得られる 高速 フーリ工変換について解説する。       "高速 リエ変換との関係に リエ変換との関係に りまます。         15th       これまでの内容を演習を通して復習し、理解を深める これまでの内容を演習を通して復習し、理解を深める       与えられた課題をなる 与えられた課題をなる は、         16th       期末試験       6 0 点以上を取得る 30 0 70         30 0 70       30 0 30

Д	kashi C	ollege	Year	2021		Course Title	Communication System
Course	Informa	tion					
Course Co		0050			Course Categor		ized / Elective
Class Fori		Lecture Electrical a	and Computer F	Credits Computer Engineering Chudent Credits			Credit: 1
Departme	ent	Electrical E	ngineering Cou		Student Grade	5th	
Term Textbook	and/or	Second Se			Classes per We	ek 2	
Teaching		教科書:植	松友彦、松本隆え	太郎「基本を学ぶ通信	信工学」オーム社		
Instructo		TAKITA Ma	akoto				
以下の能力 1)アナロ 2)各種ラ	」を修得する ]グ・ディう ディジタル3	Dbjectives  を修得することを目標とする。  が・ディジタル通信システムおよびその基本的な構成要素について理解する。 イジタル変調方式の原理、特徴について理解する。 言方式、スペクトル拡散変調の原理、特徴について理解する。					
Rubric			T		T		T
評価項目1			理想的な到達レ アナログ・ディ ムおよびその基 ついて正確に説	ジタル通信システ 本的な構成要素に	標準的な到達レ/ アナログ・ディシムおよびその基本 ついて説明できる	ジタル通信シスラ 体的な構成要素(	未到達レベルの目安  アナログ・ディジタル通信システムおよびその基本的な構成要素について説明できない.
  評価項目2			各種ディジタル 徴について正確	変調方式の原理,特に説明できる	各種ディジタル変徴について説明で	変調方式の原理, できる	特 各種ディジタル変調方式の原理,特 徴について説明できない.
評価項目3	·		多重通信方式、	スペクトル拡散変について正確に説	多重通信方式、ご調の原理、特徴にる。	スペクトル拡散す	変 多重通信方式、スペクトル拡散変
		tment Obje					
		` ′	対育到達度目標 (I	H)			
Outline	ig Metho	本講義では	, アナログ・ディ て理解することを	アナログ・ディジタル通信システムについて解説する. 各種変調方式を用いて情報伝送 て理解することを目標とする.			
Style							ながら解説していく。自己学習が重要
Notice		前期に開講  合格の対象	される   基礎通信 としない欠席条件	言工学」を受講して( 牛(割合) 1/3以上の	いることが望ましい 欠課	ハ(受講の条件)	ではない).
Charact	eristics	of Class / D	Division in Le	earning			
□ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	Instructor Professionally Experienced
Course	Plan						
			neme			Goals	
		1st 本 目	を復習する。	を行い、基礎通信工	学で学習した項	基礎通信工学で	の学習したことの概要を説明できる。
		2nd 通 役	割を果たす確率	ける雑音の取り扱い 過程について説明す	において重要な る。		て基本的概念を説明できる。
			幅変調の雑音特(音があるときの)	性 振幅変調方式のふる 		"復調信号の信号 式別 に説明できる。	号電力対雑音比について,各振幅変調方
	3rd Quarter	周 4th 雑 る		持性 司波数変調方式のふ		"周波数変調方式 を説 明できる。	式における復調信号の信号電力対雑音比
		5th  デ	ースバンドディ ィジタル変調に バンドディジタ	ジタル変調 ついて概説し、その ル変調について説明	一つであるべー する。	ベースバンドデ	イジタル変調について説明できる。
2nd		6th デ	イジタル変調の発	雑音特性 対する特性を説明す	る。	雑音による信号	の誤りについて説明できる。
Semeste r		中	間演習	演習を通して復習し		与えられた課題	をやり遂げることができる。
		8th 中	間試験		60点以上を取得する。		
		9th パ	スバンドディジャ	ィジタル変調(1) 通信システムの特性を解析でき、相関 と相関受信機について説明する。		・ 特性を解析でき、相関受信機による信 説明できる	
		15	゚スバンドディジ	タル変調(2)			
	4th Quarter	直		AM)について説明する	<b>პ</b> .	QAM方式につい	ヽて説明できる。
		12th Pr	nase Shift Keyir SK方式について記	ng(PSK)方式 説明する。		PSK方式につい	て説明できる。
		"0		uency Division		OFDM方式につ	いて説明できる。

		14th	多重通信方式 周波数分割多重(FDM)、時分割多重 て説明する。	(TDM) につい	多重通信について記	<b></b> 说明できる。
		15th	スペクトル拡散変調 PN符号を用いた直接系列変調(DSM)による拡散変調 方式を説明する。			間について説明できる。
		16th 期末試験 6 0 点以上を		60点以上を取得す	する。	
Evaluati	on Meth	od and W	Veight (%)			
			試験	課題レポート		Total
Subtotal	Subtotal 70		70	30		100
基礎的能力	基礎的能力 0 0		0		0	
専門的能力	専門的能力 70 3		30		100	
分野横断的	能力		0	0		0

А	kashi Co	ollege	Year	2021		Course Title	Information Network
Course	Informa	tion					
Course Co	ode	0051					zed / Elective
Class For	mat	Lecture			Credits	School (	Credit: 1
Departme	ent		and Computer I Engineering Co		Student Grade	5th	
Term		First Seme		<u> </u>	Classes per We	ek 2	
Textbook						•	
Teaching		TNOUE VA					
Instructor	Objectiv	INOUE Ka	zunari				
The overa 1) Networ 2) Techno 3) IP pacl 4) Contro	all goal is t rk history, plogy that kets and ro I method b	goal is to understand the basics of network technology, and the individual goal is to acquire the following abilities history, TCP / IP protocol gy that constitutes a LAN s and routing nethod by TCP and UDP security and encryption					
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	ent 1		Fully understa networks and communicatio	and the history of TCP / IP on protocols.	Understand the networks and T communication	CP / IP	Cannot understand the history of networks and TCP / IP communication protocols.
Achievem	ent 2		Fully understa	and the topology sion method for	Understand the transmission m building a LAN.	topology and	Cannot understand the topology and transmission method for building a LAN.
Achievem	ent 3		Fully understa frames and fo packets and re		Understanding frames and for packets and rou	warding. IP	Cannot understanding of Ethernet frames and forwarding, IP packets and routing.
		tment Obj		F) 学習・教育到達度	F日樗 (山)		1
	g Metho	• •	次月到 <u>建</u> 及口标(	1)于自"教育到廷及	(口) (口)		
Outline		Learn the methods. communic experience	Understand the cation protocols e in developing	e topology for LAN . Learn the networ routers and other	construction, OS k security. In thi network devices	I reference and s subject, facu will give lectur	
Style		With the g	goal of understa	anding the basics o	f network techno	ology regarding	LAN construction, the Internet, reek.
Notice		1		) that are not eligi			
Charact	eristics		Division in Le	•			
☐ Active	Learning		☐ Aided by I	СТ	☐ Applicable to	o Remote Class	Instructor Professionally Experienced
Carriage	Dlan						
Course	Plan		homo			Goals	
		1ct T	heme he history of ne ommunication i	etworks and the tra methods will be ex	ansition of	Understand the	at the history of networks and the ommunication methods will be
		2nd si	ignals will be de	ing and compositin escribed. Specific e ion and serial inter	xamples of face will be	compositing of Specific examp	at the Digitization, coding and analog signals will be described. bles of digital transmission and will be described.
		3rd to	o the packet sw	om the circuit swit vitching method and t make up the Inte	t switching method od and the switching method to the packet switch and the technologies that make up the will be explained.  Understand that the technical outline layer that composes the OSI reference TCP / IP will be explained.  Understand that the flow of encapsulation on the transmitting side receiving side, and L2 / L3 / L4 / L7 put of the packet switching method to the packet switch and the technologies that make up the will be explained.  Understand that the difference from the switching method to the packet switch		nod to the packet switching method blogies that make up the Internet
1st	1st Quarter	4th th	he technical ou ne OSI referenc xplained.	tline of each layer e model and TCP /			poses the OSI reference model and
Semeste r	-	5th   d	ecapsulation or	of encapsulation a n the transmitting s nd L2 / L3 / L4 / L			on the transmitting side and and L2 / L3 / L4 / L7 processing.
		6th st	tar type will be	topologies such as described. The tec AN, switches / rout			pe and star type will be described. nd that the technology that
				net frame formats, roles and MAC add	troccoc '		at the Ethernet frame formats, ads, trailer roles and MAC
		8th M	lid-term exam			Mid-term exan	1
	2nd Quarter	9th m	nethod, and clas	packet format, add ssful address. The ol will be described.	routing table	address setting	at the the IP packet format, g method, and classful address. The nd route control will be described.

		10th	Describes the deficlassless, and calc networks / hosts.	nition of IP addre culation of the nu	ss, classful / mber of	Understand that classful / classles of networks / hos	s, and calculation	IP address, n of the number		
		11th	The DHCP server to Technology to help request / response be explained.	p IP Describe the	ICMP echo	Understand that the DHCP server function will be described. Technology to help IP Describe the ICMP echo request / response. The ARP between L2 / L3 will be explained.				
		The connectionless type / connectionless type protocol will be described. The port number and passing to L7 will be explained.  Describes services and protocols for using the Internet such as DNS, Web. Server and HTTP.			onless type number and	Understand that the connectionless type / connectionless type protocol will be described. The port number and passing to L7 will be explained.				
						Understand that the services and protocols for using the Internet such as DNS, Web. Server an HTTP.				
		Explain the ethics, network security an encryption technology for handling thre information hidden in networks.			Understand that the ethics, network security and encryption technology for handling threats and information hidden in networks.					
		15th	The mobile comm network will be de Describe the IoT (networks.	escribed.		Understand that the access netwo understand that non-IP networks	oed. Also,			
		16th	Final exam			Final exam				
Evaluati	on Me	thod and \	Neight (%)							
	Examination Presentation  ototal 80 0  oic 0		Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal			0	0	0	0	20	100		
Basic Proficience			0	0	0	0	0	0		
Specialize Proficience		80	0	0	0	0	20	100		
Cross Are Proficience		)	0	0	0	0	0	0		

Can both draw a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot.    Can determine the stability of an open loop system using both the Routh and Hurwitz stability criterion methods.	ı II	Control Engineering 1		Cours		2021		Year	ege	ashi Col	А
Course Category   Specialized / Flective   Class Format   Lecture   Credits   School Credit   School Credit   Class Format   Electrical and Computer Engineering   Student Grade   Sth   Sthool Credit   St		Course Category Specialized / Elective							on	nformati	Course
Electrical fangineering Course Ferm First Semester Classes per Week 2 Term First Semester Classes per Week 2 Textbook and/or Teaching Materials Instructor KAMI Yasushi  Course Objectives The objectives of this course are as follows: The objective of the properties of the follows: The objective of the properties of the follows: The objective of the properties of the follows: The objective of the follows: The o									0052	de	Course Co
Electrical Engineering Course First Semester First Semester First Semester Glasses per Week 2 Textbook and/or Teaching Metarials Instructor KAMI Yasushi Course Objectives The objectives The objectives of this course are as follows: 1. can derive the transient response of a system by using the inverse Laplace transform. 2. Can draw a polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot from a transfer function, and stability margin. 3. Can desiry PID control Systems 6. Can derive the discrete time model of a system.  Rubric  Ideal Level  Standard Level  Know that the transient response of a basic system can be partial and proposed of a basic system can be partial deformations such as partial deformations and square completion.  Achievement 2  Can both draw a polygonal line approximation of a Bode plot from a transfer function, and a square completion.  Achievement 2  Can both draw a polygonal line approximation of a Bode plot.  Achievement 3  Can both draw a polygonal line approximation of a Bode plot.  Can determine the stability of an open loop system using blot.  Can determine the stability of an open loop system using blot.  Can determine the stability of an open loop system using blot.  Can determine the stability of an open loop system using blot.  Can determine the stability of an open loop system using blot.  Can derive the discrete time model of a system both using the selection proposed proposed plot.  Can derive the discrete time and a proposition of a Bode plot.  Can derive the discrete time for a polygonal line approximation of a Bode plot.  Can derive the discrete time for a polygonal line approximation of a Bode plot.  Can derive the		dit: 1							Lecture	at	Class For
Textbook and/or Teaching Metalerials Instructor Course Objectives The objectives of this course are as follows: The objectives of the course are as follows: The objectives of the course are as follows: The objective of the provision of a Bode plot.  Can determine stability criterion and support of the course of a system of the course of th			:h			ngineering rse	r En Cour	gineering Co	Electrical Er	nt	Departme
Teaching Materials Instructor KMI Yasushi Course Objectives The objectives of this course are as follows: The objectives of a postern by using the Routh and Hurwitz stability criterion methods.  Achievement 1  Can derive the transient response of a basic space can be a basic space				ek 2	Classes per We			er	First Semes		
Course Objectives											
The objectives of this course are as follows: 1. Can derive the transient response of a system by using the inverse Laplace transform. 2. Can draw a polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot. 3. Can determine stability criteria of open-loop systems by using the Routh and Hurwitz stability criterion methods. 5. Can design PID control systems 6. Can derive the discrete time model of a system.  Rubric    Can derive the discrete time model of a system by using the inverse Laplace transform after performing the inverse Laplace transform after performing the formula physical proposed in the proximation of a Bode plot from a transfer function, and derive a transfer function, and derive a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of								ni	KAMI Yasus		
The objectives of this course are as follows: 1. Can derive the transient response of a system by using the inverse Laplace transform. 2. Can draw a polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot drawing from a transfer function. Conversely, can derive a transfunction from the polygonal line approximation of a Bode plot. 3. Can derive the discrete time model of a system.  Rubric    Ideal Level									<u> </u>	biective	Course
Ideal Level	ifer			r function. (	g from a transfer	Bode plot drawing of a Bode plot. systems by using t	fal nof psy	se of a syste eximation of oproximation of open-loop	course are a sient respon nal line appr gonal line a ility criteria margin. trol systems	ives of this ive the trai w a polygo om the pol ermine sta l a stability ign PID co	The object 1. Can de 2. Can dr. function f 3. Can de 4. Can fin 5. Can de
Achievement 1  Can derive the transient response of a system by using the inverse Laplace transform.  Can both draw a polygonal line approximation of a Bode plot from a transfer function, and derive a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot.  Can determine the stability of an open loop system using both critication in the frequency response.  Can design PID control systems with both the step response from the solution of a differential apunction and a differential approximation.  Achievement 6  Can derive the discrete time model of a system both using the solution of a differential apunction and a differential apunction and a differential apunction and a differential approximation.  Assigned Department Objectives  Pa · 教育對達度目標 (D) 字 · 教育對達度目標 (F) 字 · 教育對達度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class control following Control Figneering I, such as the Rotult and Hurwitz stability criterion methods and themselves.  They will learn how to determine the transient response of a postern using a post of the second of the proposition of a differential approximation of a differential approximation of a differential approximation of a differenti											Rubric
Achievement 1  Can derive the transient response of a system by using the inverse Laplace transform.  Can both draw a polygonal line approximation of a Bode plot from a transfer function, and derive a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot from a transfer function from a polygonal line approximation of a Bode plot.  Can determine the stability of an open loop system using both critication in the frequency response.  Can design PID control systems with both the step response from the solution of a differential apunction and a differential approximation.  Achievement 6  Can derive the discrete time model of a system both using the solution of a differential apunction and a differential apunction and a differential apunction and a differential approximation.  Assigned Department Objectives  Pa · 教育對達度目標 (D) 字 · 教育對達度目標 (F) 字 · 教育對達度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class control following Control Figneering I, such as the Rotult and Hurwitz stability criterion methods and themselves.  They will learn how to determine the transient response of a postern using a post of the second of the proposition of a differential approximation of a differential approximation of a differential approximation of a differenti		Unacceptable Level			Standard Level			deal Level	J		
Achievement 2  Can both draw a polygonal line approximation of a Bode plot derive a transfer function from a polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot of a Polygonal line approximation of a Bode plot.  Can determine the stability of an open loop system using either the Routh or Hurwitz ability criterion methods.  Can find a stability margin or to indicate the applicable location in the frequency response.  Can design PID control systems with both the step response method and limit sensitivity method.  Can design PID control systems with either the step response method or the limit sensitivity method.  Can derive the discrete time model of a system both using the solution of a differential approximation.  Achievement 6  Can derive the discrete time model of a system both using the solution of a differential approximation.  Can derive a discrete time model of a system both using the solution of a differential approximation.  Assigned Department Objectives  \$\frac{\text{gain with margin or to indicate the applicable for a system both using the solution of a differential approximation.}  Assigned Department Objectives  \$\text{gain with margin or to indicate the indicate the properties of control system based on a simulation.  They will learn how to determine the transient response of a system based on a simulation. In almost every class, after the content of the lesson is explained, there will be marey assignments and periodic exams. T	iverse	Cannot calculate the inve Laplace transform.	inverse tial	transient basic systen using the in urm after formula ch as partia position and	Know that the tresponse of a be derived by u Laplace transfo performation su fraction decomp	transient system by using olace transform.	the t a sy Lapl	Can derive th esponse of a he inverse La	) I	ent 1	Achievem
Achievement 3 an open loop system using both the Routh and Hurwitz stability criterion methods.  Achievement 4 Can find a stability margin or indicate the applicable location in the frequency response.  Achievement 5 Can design PID control systems with both the step response method and limit sensitivity method.  Achievement 6 Can design PID control systems with both the step response method and limit sensitivity method.  Can derive the discrete time model of a system both using the solution of a differential equation and a differential approximation.  Assigned Department Objectives  字習 教育到達度目標 (D) 学習 教育到達度目標 (F) 学習 教育到達度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following control Engineering I, such as the Routh and Hurwitz stability refrerior methods.  Can derive a discrete time model of a system using a solution of a differential approximation.  Assigned Department Objectives  字習 教育到達度目標 (D) 学習 教育到達度目標 (F) 学習 教育到達度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability refrerion methods an design PID control systems, and also learn how to simulate the response of control system themselves.  They will learn how to determine the transient response of a system, and about stability margins and many control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review the calculations. Also, because there will be many assignments and	a´Bode nction, or ion from	line approximation of a B plot from a transfer function derive a transfer function a polygonal line approxin	e Can either draw a polygonal line approximation of a Bode plot from a transfer function, or derive a transfer function a polygonal line approximation a polygonal line approximation				on o sfer nsfe line	pproximation rom a transfellerive a trans polygonal li	i f	ent 2	Achievem
Achievement 4 indicate the applicable location in the frequency response.  Can design PID control systems with both the step response method and limit sensitivity method.  Can derive the discrete time model of a system both using the solution of a differential approximation.  Achievement 6  Achievement 6  Can derive the discrete time model of a system using a solution of a differential approximation.  Can derive a discrete time model of a system using a solution of a differential approximation.  Assigned Department Objectives  学習・教育到遙度目標 (D) 学習・教育到遙度目標 (F) 学習・教育到遙度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class and design method of PID control systems, and also learn how to simulate the response of control system system services and demonstrate how to verify the response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review the should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning		Do not know the Routh r Hurwitz stability criterion method.	Can determine the stability of an open loop system using either the Routh or Hurwitz stability criter				p sy nd F	n open loop he Routh and	t	ent 3	Achievem
Achievement 5 with both the step response method and limit sensitivity method.  Can derive the discrete time model of a system both using the solution of a differential equation and a differential approximation.  Assigned Department Objectives  字習・教育到達度目標(D)字習・教育到達度目標(F)字習・教育到達度目標(H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability criterion methods and designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review the content.  Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Course Plan	margin.	Cannot find a stability ma	n of a			plicable location	app	าdicate the a	i	ent 4	Achievem
Achievement 6	itrol	Cannot design PID contro system	ónse	step respói	with either the method or the	step response	ie st	vith both the nethod and l	1	nt 5	Achievem
字習・教育到達度目標 (D) 学習・教育到達度目標 (F) 学習・教育到達度目標 (H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability criterion methods an design method of PID control systems, and also learn how to simulate the response of control system themselves.  They will learn how to determine the transient response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review th content.  Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Aided by ICT  Applicable to Remote Class  The profession Experienced  Course Plan	rete time	Cannot derive the discret model of a system.	a	em using a fferential lifferential	model of a syst solution of a dif equation or a d	tem both using a differential differential	syste of a d a	nodel of a sy he solution o quation and	t t	ent 6	Achievem
字習・教育到達度目標(D)字習・教育到達度目標(F)字習・教育到達度目標(H)  Teaching Method  While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability criterion methods an design method of PID control systems, and also learn how to simulate the response of control system themselves.  They will learn how to determine the transient response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review th content.  Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Profession Experienced								ctives	nent Obje	l Departr	Assigne
While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability criterion methods an design method of PID control systems, and also learn how to simulate the response of control system themselves.  They will learn how to determine the transient response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review th content.  Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Added by ICT  Applicable to Remote Class  Instructor Profession Experienced				· 	目標 (H)	) 学習・教育到達度	(F)			-	
While we are not very aware of in our daily lives, almost every device, including cars, air conditioners refrigerators, have a automatic control function. In this course, students will learn the basics of class controls following Control Engineering I, such as the Routh and Hurwitz stability criterion methods an design method of PID control systems, and also learn how to simulate the response of control system themselves.  They will learn how to determine the transient response of a system, and about stability margins and control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review th content.  Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Added by ICT  Applicable to Remote Class  Instructor Profession Experienced										Method	Teachin
Style   Control designs. In addition, as an overall summary of the previous study on control engineering, we explain and demonstrate how to verify the response of a control system based on a simulation. In almost every class, after the content of the lesson is explained, there will be exercises to review th content.    Students can expect a large amount of calculations to do in assignments and periodic exams. Therefore should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.    Characteristics of Class / Division in Learning	ssical nd the ms by	learn the basics of classic ity criterion methods and ponse of control systems	function. In this course, students will learn the basics of class , such as the Routh and Hurwitz stability criterion methods an					s, have a auto owing Contro ood of PID co	refrigerators controls foll design meth themselves.		
Notice   should actually think and solve exercise problems assigned as appropriate themselves, to get used to calculations. Also, because there will be many assignments and exercises, make efforts to finish them Students who miss 1/3 or more of classes will not be eligible for a passing grade.  Characteristics of Class / Division in Learning  Active Learning   Aided by ICT   Applicable to Remote Class   Instructor Profession Experienced   Course Plan	e will he	control engineering, we w d on a simulation. e exercises to review the	tudy on o em base ere will b	revious stu ntrol syster ained, ther	ummary of the p response of a cou he lesson is expl	n, as an overall sund the income to verify the income the content of the content	itior te h aftei	gns. In additi demonstrate ery class, af	control desi explain and In almost e content.		Style
□ Active Learning □ Aided by ICT □ Applicable to Remote Class □ Instructor Profession Experienced □ Course Plan	o doina i	mselves, to get used to d ke efforts to finish them of	solve exercise pro e there will be ma more of classes v	nd so use or i	ally think and Also, becaus no miss 1/3 c	should actucal calculations Students wi					
Course Plan			-		1	arning	Lea	vision in L	Class / Di	eristics of	Charact
	nally	☐ Instructor Professiona Experienced					' IC	☐ Aided by I	[	_earning	☐ Active
										lan	Course
1st Semeste Ruarter 1st Introduction Understand the outline of this course and the content of the study and objectives.	d know										

		2nd	Laplace transform and inverse tra	ansform	transform. Can calculate the	expression of the Laplace e inverse Laplace transform based n decomposition or completing
		3rd	Calculation of transient response		Can derive step retc. using the inv	responses, impulse responses, verse Laplace transform. neaning of convolute integrals, their expressions.
		4th	Polygonal line approximation of a	Bode plot 1	Can draw a Bode with a transfer fu of the primary el	e plot (gain plot) line for a system unction consisting of the product ement.
		5th	Polygonal line approximation of a	Bode plot 1	polygonal line ap	transfer function from the proximation of a Bode plot (gain with a transfer function product of the primary element.
		6th	Stability margins		Can explain a sta Can explain when in the frequency	re a stability margin is indicated
		7th	Review		Review the conte the semester.	ent of classes in the first half of
		8th	Midterm exam			
		9th	Internal stability, and Hurwitz sta method	bility criterion	stability and the match.	concepts of external and internal conditions under which they ne stability using Hurwitz stability
		10th	Routh stability criterion method		Can determine the cases, using Rou	ne stability, including special th stability criterion method,.
		11th	PID control		(transfer function Can explain the e Can explain the e	effect of P action.
	2nd Quarter	12th	How to design PID control system	าร	sensitivity metho	ne PID gain using the step
		13th	Discretization of the model		differentiating th Can find a solution	crete time model by e differential equations. on of a differential equation, and time model using it.
		14th	Control system design simulation	exercise	Can explain how control system b control target an	to simulate the response of a y discretizing the model of the d the control device.
		15th	Review		Review the conte of the semester.	ent of classes in the second half
		16th	Final exam			
Evaluat	ion Meth	nod and	nd Weight (%)			
			Examination Exercise			Total
Subtotal			80 Exercise			100
Basic Pro				0		
Specialized Proficiency 80 20				100		
	a Proficier		0	0		0
		,	<u> </u>			1

А	kashi Co	ollege		Year	2021		(		Engineering of Energy Conversion
Course 1	Informa	tion							
Course Co	ode	0053				Course Catego	ry	Specialize	ed / Elective
Class Forn	nat	Lecture				Credits		School Cr	edit: 1
Departme	nt	Electrical	Engi	Computer Er neering Cour		Student Grade			
Term		First Semester Classes per Wed						2	
Textbook Teaching									
Instructor		FUJII Ha	ruhisa	 a					
Course	Objectiv	es							
The aim of 1. The abinature, so 2. The abinature abinatu	of this cour ility to und ociety and ility to und em to oth ility to und on, recogniz	rse is to devilerstand the the environ derstand the ers. Herstand nevice the effective the effective to device the effection device the effective device device the effective dev	e posi iment e basi w me ts of t	t, and conside c mechanism thods of pow technology o	ectrical energy in per them. ns and equipment wer generation and n nature and soci	of various pow d power storage ety, and explair	er ger e in ac n then	neration me ddition to ex	es, and its relationship with other strongs and substations, and disting methods of power understanding of the above
Rubric									
			Ide	eal Level		Standard Level	I		Unacceptable Level
Achievem	ent 1		of e am rela and	electrical ene long various ationship wit	d the positioning ergy in particular energies, and its h nature, society ment, and can nem.	electrical energ	gy in p s energe th nat nmen	particular gies, and its ture, society	Do not understand the positioning of electrical energy in particular among various energies, and its relationship with nature, society and the environment, and cannot consider them.
Achievem	ent 2		me var me car	rious power of thods and si	nd equipment of	Understand the mechanisms are various power methods and s can explain the	nd equ gener substa	uipment of ation tions, and	Do not understand the basic mechanisms and equipment of various power generation methods and substations.
Achievem	ent 3		ger sto pov rec tec	generation methods and power storage, in addition to existing power generation methods, and recognize the effects of technology on nature and society, and can accurately explain them to others.		Understand ne generation me methods for po addition to the generation me recognize the etchnology on society, and cot others.	thods ower s existi thods effects natur	and storage, in ng power , and s of e and	Do not understand new power generation methods and methods for power storage, in addition to the existing power generation methods, or recognize the effects of technology on nature and society.
			eva thir cor	evaluation items 1 to 3, and can eval think specifically of the optimal combination as a power supply com		Thoroughly unevaluation item think of the op combination as systems.	ns 1 to itimal	o 3, and car	Do not thoroughly understand the evaluation items 1 to 3, and cannot think of the optimal combination as a power supply system.
Assigne	d Depar	tment Ob	jecti	ives					
学習・教育	到達度目標	票 (C) 学習・	教育至	引達度目標 (D	) 学習・教育到達度	目標 (H)			
Teachin	<u>g Metho</u>								
Outline		The cour thermal, technolog	se will and r gies a	II cover the b nuclear power and systems	pasic issues of power. Furthermore, s such as solar ene	ver generation s tudents will also rgy, wind power	syster o und r, and	ns and equi erstand clea fuel cells.	pment, such as hydroelectric, an new power generation
Style			vill be	conducted i	in a lecture style,				
Notice		an impor	tant o	course for ac	s course, it's impo quiring an electric more of classes w	cian license.			rsics and chemistry. This is also rade.
Characte	eristics (	-		sion in Lea				<u> </u>	
□ Active				Aided by IC		☑ Applicable t	o Ren	note Class	☐ Instructor Professionally Experienced
Course	Plan								
			Them	ne			Goals		
1st An c			An ov conve	verview of ele ersion engine	ectrical energy and eering	d energy	Can explain the position of electrical energy modern society, its relationship with environmental problems, and the conversivarious types of energy into electrical energy		
1st Semeste r	1st Quarter	2nd	Overv	view of hydro	pelectric power ge	neration	Can explain the power generation methods an hydrodynamics of hydroelectric power plants, the basics of hydroelectric power plants,		
		3rd	Hydro	ppower facilit	ies, pumping pow	/er	Unde	erstand the their function	various main hydroelectric plants ons, and can explain an outline of c power plant.

								ly understand the	
		4th	Waterv genera	vheel and attached tors and electrical (	equipment, turbine equipment	e 	véhicles, the mechanisms and explain t water vehicle speed. Can a	ir characteristics, to generate elect	and their cricity. Can compare s of various types of ciency and specific echanisms and
		5th	Overvi	verview of thermal power generation				the thermodynam the mechanisms of er generation, and of steam power of er generation.	
		6th	Steam	power generation			turbines, ger and boilers,		
		7th		urbine power generation and combined cycle r generation			generation a among therr	nd combined cycl nal power plants,	of gas turbine power e power generation and can explain ermal power plants.
		8th	Midterr	m exam					
		9th	Overvi	view of nuclear power generation			Can explain the system of reactors and the components of commercial power reactors (pressurized water reactors, boiling water reactors).		
		10th	Basics	of nuclear reactions	S		Can explain the energy of nuclear and fission reactions, which are the basis of nuclear power generation.		
		11th		design and nuclear generation	fuel cycle for nucle	ar	Can explain the safety design of light-water reactors and outline the nuclear fuel cycle.		
	2nd Quarter	12th	Solar e	nergy generation			Can explain the principles, features, and challenges of solar and solar thermal power generation systems as a representative renewable energy.		
		13th	Wind p	ower			Can explain the principles, characteristics, and challenges of wind power generation.		
		14th	Fuel ce	ll power generation	١		Can explain issues of fue	the principles, typ I cells.	es, features, and
		15th	Power	storage			Can explain the technologies involved in power storage using secondary batteries and superconductivity.		
		16th	Final e	xam					
Evaluati	on Meth	nod and \	Weight	 : (%)					
		Examinatio		Exercise	Mutual Evaluations between students	Beha	vior	Portfolio	Total
Subtotal		70		30 0 0			0	100	
Basic Profi	iciency	0		0	0	0		0	0
Specialized Proficiency		70		30 0 0				0	100
Cross Area Proficiency		0		0	0	0		0	0

Д	kashi Co	llege	Year	2021		Course Title	Energy Transmission and Distribution Engineering	
Course	Informat	ion						
Course Co	ode	0054			Course Categor	y Specialize	ed / Elective	
Class For	mat	Lecture			Credits	School Ci	edit: 1	
Departme	ent		l and Computer I I Engineering Co		Student Grade	5th		
Term			Semester		Classes per We	ek 2		
Textbook								
I eaching Instructor	Materials	KONO Yo	ochivulsi					
	Objective		DSHIYUKI					
1) Unders electrical 2) Unders 3) Unders liberalizat	stand the trend the astand the astand the wind t	ransmission nalysis me vays the electrical		or power system co tem should be in re mental issues.		-	systems required for transmitting andscape, such as power	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ient 1		substation, ar mechanisms, control systen	equipment, and ns required for electrical energy in	Understand the substation, and mechanisms, ed control systems transmitting ele	distribution (quipment, and required for	Do not understand the transmissions, substation and distribution mechanisms, equipment, and control systems required for the transmitting electrical energy.	
Achievem	ent 2		analysis of po	iired for control	Understand the methods requir system control	ed for power	Do not understand the analysis methods required for power system control and analysis.	
Achievem	ent 3		social landsca  liberalization /	r system should be o changes in the pe, such as power deregulation and nmental issues in	in response to o	systém should be changes in the e, such as powe deregulation and	in response to changes in the	
			Can handle sp building syste various situati	pecific methods for m controls in ions.	Understand the specific methods for building system controls.		Do not understand concrete methods for building system controls.	
	d Depart		•	ectives				
			教育到達度目標 (	F) 学習・教育到達度	目標 (H)			
Teachin	g Metho							
Outline		analysis, devices f system e The aim compone control n will help	development of for power electro engineering depa of the course is ents, which play nethods and con students recogn	operation and plar onics applications (hartment, leveraging to gain knowledge a major role in the trol theories related	nning support sy: IVDC and FACTS this experience. about the struct energy supply s I to the stable op the recent issue	stems, and reserved;  at Mitsubishi Eure of the electrystem. In addition of supperstion of suppers of power liber	engaged in power system arch and development of power ilectric Corporation's electrical cal energy supply system and its on, students will learn various ly systems. Furthermore, classes alization (such as electricity	
Style		students	understand. In		will go on a facto		exercises and homework to help as 5 and 6 to help deepen their	
Notice		A textbo	ok will be used to ory tour for week who miss 1/3 o	o aid students' und ks 5 and 6 will take or more of classes w	erstanding, but in place at consecution of be eligible	is not mandator utive times by cl e for a passing g	/ to buy. nanging the timetable. rade.	
Charact	eristics c		Division in Le					
	Learning		☐ Aided by I		☑ Applicable to	Remote Class	☑ Instructor Professionally Experienced	
Course	Dlan							
Course	riall		Theme			Goals		
2nd Semeste r Quarter				electric business ar	nd the power	Have studied the and understand and operation could that made it a re	e evolution of the electric business the overview of the configuration ontrol of the electric power system eality. Furthermore, are aware of arding the liberalization of electric	
			Transmission po	wer (1)		as well as track characteristics.	nsmission methods and voltage, constants and transmission Also, understand the recent nethods, such as microgrids, as	
		3rd	Transmission po	wer (2)		Same as above		

		4th	Substations (1)			Understand the roles a substations and switch components of the pov	boxes, which are important	
		5th	Substations (2)			Same as above		
		6th	, ,	ufacturing factory		Have visited a power e factory online or actual understanding of the a	quipment manufacturing ly to deepen their ctual machine.	
		7th	Power distributi	on		Understand the voltage of the electrical distribution system and the electrical distribution equipment. Furthermore, understand the types of power in demand and the quality of electricity.		
		8th	Midterm exam			Understand the conten	t from weeks 1 to 7.	
		9th	Unit method, p	rotection of the power	system	the element technological calculation of power sy	t method, which is one of es for the analysis and stems. Have mastered the ncy control of the power	
		10th	Operation and o	control of the power sy	stem	power systems (such a planning and economic	and demand control of s supply and demand load distribution), and quency and voltage control	
	4th	11th	Symmetric coor	dinates and failure cald	culations	Understand the failure calculation (symmetric coordinate system), which is one of the analytic calculations of the power system. Are more proficient in fault calculation through learning specific cases and exercises.		
	Quarter	12th	Stability of the	power system (1)		Understand the voltage the power system.	e and frequency stability of	
		13th	Stability of the	oower system (2)		Understand the static and dynamic and transient stability of the power system.		
		14th	Power Systems	and the Environment		Have deepened their understanding on the classification of environmental problems in electric power systems, environmental problems caused by electromagnetic fields, and the global environment.		
		15th	Next generation	ext generation of power systems		Understand the challer of the next generation (smart grid), which sho increase in electric veh	ould respond to the	
		16th	Final exam	Final exam		Understand the conten		
Evaluati	on Meth	od ar	nd Weight (%)			•		
	<u> </u>	.54 41	Examination	Report	F	Exercise	Total	
Subtotal			60	20		20	100	
Basic Prof	iciency		0	0		)	0	
Specialize		ncy	60	20		20	100	
Cross Are			0	0	c		0	
				<u> </u>				

Akashi College			Year	2021			ourse Title	Application of Electronics	
Course	Informat	tion					ı		
Course Co		0055				Course Catego	rv	Specialize	ed / Elective
Class Forr		Lecture				Credits		School Cr	
Departme		Electrica	l and l Eng	Computer En ineering Cour	ngineering se	Student Grade		5th	
Term		First Ser	neste	er		Classes per We	ek	2	
Textbook Teaching		教科書は	指定し	<b>ンない。適宜、</b>	講義資料を配布する	3.			
Instructor	-	INOUE K	(azun	ari					
Course	Objectiv	·							
(2)血液 (3)凝固	δ細胞分析方 3、生化学、	ī法、特にフ 免疫検査等	ローサ	サイトメータの 用される測定原	的・意義を理解する 測定原理・特徴を理 理および分光学的が 技術に付いて理解で	里解する。 3検出技術の特徴	を理解す	する。	
Rubric									
			理	想的な到達レヘ	·//の目安	標準的な到達レイ	ベルの目	 l安	未到達レベルの目安
評価項目1			種	表的な臨床検査 類と検査目的・ できる。	至(検体検査)の ・意義を正確に理	代表的な臨床検査 種類と検査目的 る。	査(検体 ・意義を	検査)の 理解でき	代表的な臨床検査(検体検査)の 種類と検査目的・意義が理解でき ない。
評価項目2			血イ	液細胞分析方法	t、特にフローサ E原理・特徴を正	血液細胞分析方法 イトメータの測定 解できる。			血液細胞分析方法、特にフローサイトメータの測定原理・特徴が理解できない。
評価項目3			2	れる測定原理は 出技術の特徴を	免疫検査等に使用 および分光学的な 正正確に理解でき	凝固、生化学、5 される測定原理る 検出技術の特徴を	免疫検査 および分 を理解で	等に使用 光学的な きる。	凝固、生化学、免疫検査等に使用される測定原理および分光学的な 検出技術の特徴が理解できない。
評価項目4			代よ	表的な臨床検査	S装置システムお がに付いて正確に	代表的な臨床検証 よび構成要素技行 きる。	査装置シ 析に付い	/ステムお )て理解で	代表的な臨床検査装置システムお よび構成要素技術に付いて理解で きない。
Assigne	d Depart	tment Ob	ject	ives					
				到達度目標 (H	)				
Teachin	g Metho	 d		-					
Outline		でいる。 術等の基理とそれ	本講乳 礎に作 に用し	気では、血液や すいて解説する いられている光	尿等を分析対象とす。 。また、生化学的源	する検体検査に関 測定、免疫学的測 や化学、分子生物	してその	D概要およる子学的測	に伴い技術革新や更なる展開が進ん びその検査に応用されている計測技 定等の各分野の測定における基本原 定装置に付いて解説する。また、本
Style		行う。							から第15週まで講義形式で授業を
Notice		生物学の	知識力	がある方が望ま	しい。 (割合) 1/3以上の:	欠課			
Charact	eristics o			ision in Lea					
□ Active	Learning	,		Aided by IC	Г	☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan								
			Then	ne			Goals		
		1st	臨床村	検査概論(1)			臨床検	査全体の概	治療における検査の役割や種類等、 接に付いて理解できる。 仕方や精度管理等について理解でき
		2nd	臨床村				同上		
				学検査(1)			生化学 検査技術 生化学	析の概要を 検査装置の	る項目の意義や検査方法等、生化学 理解できる。 概要とそれに応用されている、測定 術等を理解できる。
	1st	4th	生化	学検査(2)			同上		
1st Quarter		5th	血液等	学検査(1)			の概要 <sup> </sup>  赤血球 <sup> </sup>  -サイ	を理解でき や白血球な トメータに	検査技術および、血液凝固検査技術 る。 との細胞分析に使用されているフロ 応用されている流体力学、工学技術
		6th	<b>血液</b>	 学検査(2)			寺を埋)  同上	解できる。	
7		7th		全快 <u>国(2)</u> 検査(尿、便)			尿の定機器を3	理解できる	沈渣検査技術の概要およびその測定の概要を理解できる。
		8th	中間	 試験			5/2	大/日川/1大日	LEVINUM CATULL C.C. O.
			<b>計試験</b> 業見学			臨床検査機器・試薬を開発、生産している企業を見学 し、実際の検査装置や臨床検査に関わる企業活動を知 ることで、臨床検査に関する理解を深めることができ			

	10th	免疫学的検査(1)		化学発光免疫測定数	D概要を理解できる。 表置等の概要とそれに応用されてい 支術等を理解できる。	
	11th	免疫学的検査(2)		同上		
	12th	遺伝子検査(1)		遺伝子検査技術の概要を理解できる。 PCR装置やシークエンサー等の遺伝子検査装置の概要 とそれに応用されている測定原理、検出技術を理解で きる。		
	13th	遺伝子検査(2)		同上		
	14th	微生物検学検査		微生物学検査技術の概要を理解できる。 微生物学検査に使用されている検査装置の概要とそれ に応用されている測定原理、検出技術を理解できる。		
	15th	臨床検査のトピックス		臨床検査における、最近の話題を理解できる。 これまでの講義の振り返りによる総復習を行える。		
	16th	期末試験		期末試験		
<b>Evaluation Meth</b>	od and V	Veight (%)				
		試験	発表		Total	
Subtotal		80 20			100	
基礎的能力		0 0			0	
専門的能力		80 20		·	100	
分野横断的能力		0	0		0	

	kashi Co	llege	Year	2021		Course Title	Image Engineering	
Course	Informat	tion						
Course Co	ode	0056			Course Category	Specialize	ed / Elective	
Class Forr	mat	Lecture			Credits	Academi	Credit: 2	
Departme	ent	Electrical I	and Computer E Engineering Cou		Student Grade			
Term		Second Se	emester		Classes per Weel	k 2		
Textbook Teaching								
Instructor		NAKAI Yu	ichi					
Course	Objectiv	es						
(1) Under (2) Under (3) Under	stand the stand the stand the	scope and ex nature of im outline and o	lage information characteristics o	ications of image e and understand w f various types of i processing and im	/hy image encodir mage encoding.	ng technology i	s needed.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		examplés of ap	in the scope and oplications of g technologies.	Can explain the sexamples of applimage encoding to	lications of	Cannot explain the scope and examples of applications of image encoding technologies.	
Achievem	ent 2			e nature of image of can accurately nage encoding re needed .	Understand the r information and why image encode technologies are	can explain ding	Cannot explain the nature of image information and why image encoding technologies are needed.	
Achievem	ent 3		Can specifically outline and characteristics types of encoding.	aracteristics of	Can explain the c characteristics of of image encodir	various types	Cannot explain the outline and characteristics of various types of image encoding.	
			Can accurately practical use of		Can explain the plastic image proclimage encoding	essing and	Cannot explain the practical use of basic image processing and image encoding technologies.	
Assiane	d Depart	tment Obj			•		•	
			教育到達度目標 (H	 1)				
	g Metho							
Outline		image cor briefly, an	mpression) are and then giving le	a must. In this lecti ctures on various i	ure, we will be ex mage encoding te	plaining the na echnologies. In	data volume (image encoding or ture of the image information addition, we will ensure the computing software, etc.	
Style		Slides will be three t	be mainly used to four assignme	to explain the con ents over the cours	tent in class. Also e of half a semest	o, since this is a ter. Assignmen	learning-credit subject, there will ts will be about creating programs	
trial perform specified processes, so we will explain the application students can used for the ass								
Notice		assignmer course of involve pr	nt reports. As th half a semester. ogramming, it's	l the standard self- iis is a learning-cre . All assignments n desirable to have	study time required states there subject, there nust be submitted experiences in pro-	ed for pre-stude will be three to to earn the croparammina (in	ly / review, and completing of our assignments over the redits. Since the assignments any language).	
	eristics o	assignmer course of involve pr Students	nt reports. As th half a semester. ogramming, it's who miss 1/3 or	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w	study time required states there subject, there nust be submitted experiences in pro-	ed for pre-stude will be three to to earn the croparammina (in	ly / review, and completing of our assignments over the redits. Since the assignments any language).	
		assignmer course of involve pr Students	nt reports. As th half a semester. ogramming, it's	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	study time required states there subject, there nust be submitted experiences in pro-	red for pre-stud will be three to to earn the crogramming (in for a passing g	ly / review, and completing of our assignments over the redits. Since the assignments any language).	
Charact	Learning	assignmer course of involve pr Students	nt reports. As th half a semester. ogramming, it's who miss 1/3 or Division in Le	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	study time requir dit subject, there nust be submitted experiences in provill not be eligible	red for pre-stud will be three to to earn the crogramming (in for a passing g	ly / review, and completing of our assignments over the edits. Since the assignments any language). rade.	
Charact	Learning	assignmer course of involve pr Students	nt reports. As th half a semester. ogramming, it's who miss 1/3 or Division in Le	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	estudy time required to subject, there submitted experiences in provill not be eligible.  Applicable to	red for pre-student will be three to will be three to the crops of the	ly / review, and completing of our assignments over the edits. Since the assignments any language). rade.	
Charact	Learning	assignmer course of involve pr Students v	nt reports. As th half a semester. ogramming, it's who miss 1/3 or Division in Le	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	estudy time required to subject, there submitted experiences in proviil not be eligible.  Applicable to	red for pre-student will be three to the control of	ly / review, and completing of four assignments over the edits. Since the assignments any language). rade.	
Charact	Learning	assignmer course of involve pr Students v of Class / I	nt reports. As th half a semester. rogramming, it's who miss 1/3 or Division in Le	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	estudy time required it subject, there nust be submitted experiences in provill not be eligible.  Applicable to	red for pre-stude will be three to will be three to will be three to will be three to will be	ly / review, and completing of our assignments over the edits. Since the assignments any language). rade.	
Charact	Learning	assignmer course of involve prostudents of Class / I	nt reports. As th half a semester. rogramming, it's who miss 1/3 or Division in Le  Aided by IC  Theme	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning	estudy time requiridit subject, there nust be submitted experiences in provill not be eligible.  Applicable to	red for pre-stude will be three to will be three to will be three to will be three to will be	ly / review, and completing of our assignments over the edits. Since the assignments any language). rade.  Instructor Professionally Experienced  information is generally said to nage correlation. Can explain relation is and what happens	
Charact	Learning	assignmer course of involve pr Students vof Class / I	nt reports. As the half a semester. ogramming, it's who miss 1/3 or Division in Le    Aided by IC    Theme    The nature of imates and a seminal and a semin	I the standard self- is is a learning-cre is al assignments in desirable to have more of classes wearning	estudy time requiridit subject, there ust be submitted experiences in provill not be eligible.  Applicable to  G D h w w U a	red for pre-stude will be three to will be	ly / review, and completing to four assignments over the edits. Since the assignments any language). rade.  Instructor Professionally Experienced  information is generally said to nage correlation. Can explain relation is and what happens relation is stronger.	
Charact	Learning	assignmer course of involve pr Students of Class / I	nt reports. As the half a semester. ogramming, it's who miss 1/3 or Division in Le    Aided by IC    Theme    The nature of imates and a seminal and a semin	I the standard self- is is a learning-cre . All assignments n desirable to have more of classes w earning  CT  age information  ion by Python (1)	study time requiridit subject, there nust be submitted experiences in provill not be eligible.  Applicable to  G D h w U a C C C W e	red for pre-stude will be three to will be three to the control of	ly / review, and completing of four assignments over the edits. Since the assignments any language). rade.  Instructor Professionally Experienced  information is generally said to nage correlation. Can explain relation is and what happens relation is stronger.  I to use Python to accomplish the to do the processing given as an concept of entropy encoding, sed together with various types of	
Charactic Active  Course  2nd Semeste	Plan 3rd	assignmer course of involve pr Students vof Class / I	nt reports. As the half a semester. ogramming, it's who miss 1/3 or Division in Le    Aided by IC    Theme    The nature of image manipulate    mage manipulate    ma	I the standard self- is is a learning-cre is is a learning-cre is all assignments in desirable to have more of classes wearning  CT  age information  ion by Python (1)  ion by Python (2)	estudy time requiridit subject, there nust be submitted experiences in provill not be eligible.  Applicable to  G  D  h  w  C  a  C  W  e  C  C  C  C  C  C  C  C  C  C  C  C	red for pre-stude will be three to will be three to will be three to the control of the control	information is generally said to nage correlation. Can explain relation is and what happens relation is stronger.  It to use Python to accomplish the to do the processing given as an concept of entropy encoding,	
Charactic Active  Course  2nd Semeste	Plan 3rd	assignmer course of involve pr Students of Class / I	nt reports. As the half a semester. The half a semester who miss 1/3 or Division in Le and Aided by IC and Aid	the standard self- is is a learning-cre is is a learning-cre is a learning-cre is a learning-cre is all assignments in desirable to have more of classes we carning  CT  age information  ion by Python (1)  ion by Python (2)  g (1)	study time requiridit subject, there nust be submitted experiences in provill not be eligible.  Applicable to  G  D  h  w  U  a  C  w  e  C  C  C  C  C  C  C  C  C  C  C  C	red for pre-stude will be three to will be three to will be three to a to earn the cropramming (in for a passing gramming grammin	ly / review, and completing of four assignments over the edits. Since the assignments any language). rade.  Instructor Professionally Experienced  information is generally said to nage correlation. Can explain relation is and what happens relation is stronger.  to use Python to accomplish the to do the processing given as an concept of entropy encoding, sed together with various types of ain Huffman and arithmetic	
Charactic Active  Course  2nd Semeste	Plan 3rd	assignmer course of involve pr Students of Class / I	nt reports. As the half a semester. ogramming, it's who miss 1/3 or Division in Le    Aided by IC    Theme    The nature of imate    mage manipulate    mage manipulate    intropy encoding    intropy encoding    intropy encoding	I the standard self- is is a learning-cre is is a learning-cre is a learning-cre is a learning-cre is a learning-cre desirable to have more of classes we earning  CT  age information  ion by Python (1)  ion by Python (2)  g (1)  g (2)  ng (1)	study time requiridit subject, there nust be submitted experiences in provill not be eligible.  Applicable to  G  D  h  w  U  a  C  a  C  w  e  C  tt	red for pre-stude will be three to will be three to will be three to a to earn the crogramming (in for a passing gramming grammin	ly / review, and completing of our assignments over the edits. Since the assignments any language). rade.  Instructor Professionally Experienced  Instructor Professionally Experienced  information is generally said to nage correlation. Can explain relation is and what happens relation is stronger.  It to use Python to accomplish the to do the processing given as an concept of entropy encoding, sed together with various types of ain Huffman and arithmetic pical techniques for entropy  principle of predictive encoding, mage encoding.  characteristics of predictive an explain how to compensate for	

		9th	Transform encod	ing (1)		Can explain the and can explain cosine transformage enco	Can explain the concept of transform encoding, and can explain the two-dimensional discrete cosine transform (DCT), which is the mainstream of image encoding today.				
		10th	Transform encoding (2)			Can explain JF method based	Can explain JPEG, which is an image coding method based on DCT.				
		11th	Wavelet transform	mation		lis gaining atte	Can briefly explain the wavelet transform, which is gaining attention as the next-generation method of transform encoding.				
	4th Quarter	- 12th	Vector quantizati	on (1)			e overview of vor	vector quantization, zation.			
		13th	Vector quantizati	ector quantization (2)			e performance s of vector quai	, design techniques ntization.			
		14th	Other image enco	oding		methods such	Can explain outline of other image encoding methods such as block truncation encoding, progressive encoding, etc.				
		15th	Video encoding			Can explain value briefly.	rious video en	coding methods			
		16th	Final exam								
Evaluati	ion Met	thod and	Weight (%)								
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Exercise	Other	Total			
Subtotal	7	'0	0	0	0	30	0	100			
Basic Proficienc	y o	)	0	0	0	0	0	0			
Specialize Proficienc	alized ency 70		0	0	0	30	0	100			
Cross Are Proficienc		)	0	0	0	0	0	0			

А	kashi Co	ollege	Year	2021		Course Title	Computer Simulation	
Course	Informa	tion						
Course Co		0057			Course Categor	<i>'</i>	zed / Elective	
Class Forr	mat	Lecture	al and Computer	Enginooring	Credits	Academic Credit: 2		
Departme	ent		ll Engineering Co		Student Grade	5th		
Term		Second	Semester		Classes per We	ek 2		
Textbook Teaching								
Instructor	٢	KAMI Ya	sushi					
	Objectiv							
2. Can de	escribe a so	olution met	hod (algorithm)	ations yield errors. on basic math prob mena on a compute	lems. er, starting from	how to create	a model.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1			ne method so as to errors on numerical				
Achievem	ent 2		Can accuratel solution meth all specified p	od (algorithm) for	Can explain an methods (algor finding solution problems.	ithms) for	Cannot explain the method (algorithm) of finding solutions to problems.	
Achievem	ent 3		Can program solution (near solution) for a problems	a method to find a real-time all specified	Can program a solutions (near solutions) for so	real-time	Cannot program a method to find a solution to problems.	
Assigne	d Depar	tment Ol	ojectives					
学習・教育	到達度目標	票 (D) 学習・	· 教育到達度目標 (	(H)				
Teachin	g Metho	d						
Outline		conduct reproduct the cont simulation	computer-based ce and observe, t ents. In classes,	experiments on sing to identify the chara we will introduce the If, and practice the	nple models of r acteristics of the ne basic concept	natural and soc phenomenon a s and the lates:	The aim of this course is to al phenomena that are difficult to and to deepen the understanding of t examples of modeling and illenges by programming and	
Style		Lectures In additi choosing Exercise	s will be conducter ion to what stude g. ss are supposed t s will be evaluate	o build a system to	s. ses, they will per help students ir	n their own ara	activities on assignments of their duation research. during the exercises, and	
Notice		guarante assignm As this o Probabil reference	eed in classes an ent reports. course is built on ity and Statistics, es during the cla	d the standard self- the content of Data , it's recommended	study time requal Structures and that students re	ired for pre-stu Algorithms, Co eview these tex	s include the learning time day / review, and completing mputer Programming, and tbooks, materials, etc. as grade.	
Charact	eristics	•	Division in L					
☐ Active	Learning		☐ Aided by I	СТ	☐ Applicable to	o Remote Class	☐ Instructor Professionally Experienced	
Course	Dlan							
Course	riali		Theme		I	Goals		
		1st		ulations and recurre		Understand tim algorithms.	ne and space complexity of ne) complexity of some algorithms. urrence relations which give oblems.	
21		2nd	Repetitive methodata loss	ods, errors, loss of	significance,	Can derive rep solutions of pro Can explain the in numerical ca	etitive methods which give	
2nd Semeste 3rd Quarter 3		3rd	Nonlinear equati	ions		Can explain the method ,and fa	e Newton method, the bisection alse position method .	
		4th	Simultaneous ed	quations 1		Can explain alg and sweep out	orithms of Gaussian elimination methods.	
		5th	Simultaneous ec	quations 2			orithms of Jacobi, Gauss-Seidel	
		6th	Exercise			Exercise on the of the semeste	contents of classes in the first half r.	
7th Review				Review the contents of classes in the first half of the semester.				

		8th	Midterm exam				
		9th	Eigenvalue		Can explain algor methods for obta	ithms of Jacobi and the power ining eigenvalues of matrices.	
		10th	Interpolation of functions		Can explain linear interpolation, Newton forward linear interpolation and lagrange linear interpolation.		
		11th	Method of least squares		Can explain the n	nethod of least squares.	
4th		12th	Numerical differentials		differentials with formulas.	t and second order numerical forward, central and backward torder numerical differential erpolation.	
Qua	arter	13th	Numerical integrals		Can calculate numerical integrals with rectangle, trapezoidal and Simpson's rule.		
		14th	Initial value problem and Boundary of ordinary differential equations	value problem	Runge-Kutta met problem. Can explain an al	ithms of Euler, Heun's and thod for the Initial value gorithm of finite-dfference oundary value problem.	
		15th	Review		Review the conte of the semester.	nt of classes in the second half	
		16th	Final exam				
Evaluation	Meth	od and \	Weight (%)				
			Examination	Exercise		Total	
Subtotal			80	20		100	
Basic Proficier	Basic Proficiency 0 0				0		
Specialized Proficiency 80 20			20		100		
Cross Area Proficiency			0	0		0	

А	Akashi College Year 2021		Course Title	Qualifications in Electric and Electronic Engineering I				
Course 1	Informa	tion		•			•	
Course Co	ode	0058			Course Category	/ Specia	alized / Elective	
Class Forn	mat	その他			Credits	School Credit: 1		
Departme	ent	Electrical a   Electrical E	nd Computer E ngineering Cou	ngineering rse	Student Grade	5th		
Term		Year-round	d Classes per W			ek 1		
Textbook Teaching	and/or Materials	なし						
Instructor		OHMUKAI	Masato					
Course	Objectiv	es						
電気電子工該当する資	学に関わる 格に関して	る内容の外部団 ては担当教員が	容の外部団体による資格試験に合格することを目標とする。 担当教員が単位認定の審査にあたるので、単位取得を希望するも				淡しておくこと。	
Rubric	ubric							
	理想的な到達レベルの目安標準的な到達レ					未到達レベルの目安		
評価項目1			電気主任技術者 事担任者AI・DI って合格できる	第3種または,工 D総合種に余裕をも	電気主任技術者第 事担任者AI・DD る.	3種または, 総合種に合格	工 電気主任技術者第3種または,工でき 事担任者AI・DD総合種に合格できない.	
評価項目2								
評価項目3								
		tment Obje						
子音·教育 Teachin			有到莲没日倧 (广	) 子省・教育到達度	₹日倧 (Ħ <i>)</i>			
Outline	g Metrio	電気電子工 の外部資格	学分野の学習の成 試験のいずれかに	成果として、外部団( こ合格した場合、学)	体主催の資格試験の 生課教務担当が指定		て単位を与える科目と位置づける。指定 でに所定の手続きを完了すれば、1単位を	
Style		<u>与える。</u> 授業は行わ	÷N.1					
		単位認定に	は合格証書または	は合格証明書等の証明	 明書類が必要で、甲	=請期間は冬々	木み以降で教務係が指定した期日までと	
Notice		•		東を提出できない場合 中(割合) 条件なし	合には単位が認定で 	られない。期間 	限を厳守すること。 	
Charact	eristics (	of Class / D	<u>ivision in Le</u>	arning	<u> </u>			
☐ Active	Learning		☐ Aided by IC	T	☐ Applicable to	Remote Cla	Instructor Professionally Experienced	
Course	Plan	T I			T			
			ieme 主学習			Goals		
		IST 資	格試験に対する目	自主的な学習(講義に	31T17/4V1)		を進めることができる. 	
		2nd 同				自主的に学習	を進めることができる. 	
		3rd 同				自主的に学習	を進めることができる.	
	1st Quarter	4th 同	<u>上</u>			自主的に学習	を進めることができる.	
	Quarter	5th 同	上 上		I	自主的に学習	を進めることができる.	
		6th 同	上 上			自主的に学習	を進めることができる.	
		7th 同	上 上			自主的に学習	を進めることができる.	
1st Semeste			間試験実施せず					
r		9th 同	上 上			自主的に学習	を進めることができる.	
		10th 同	上 上			自主的に学習	を進めることができる.	
		11th 同	上上			自主的に学習	を進めることができる.	
	2nd	12th 同	上 上			自主的に学習	を進めることができる.	
Quarter 同上 同上		ı	自主的に学習	を進めることができる.				
14th 同上 同上			1	自主的に学習	を進めることができる.			
15th 同上 同上			自主的に学習を進めることができる.					
同工								
2nd Semeste r	3rd Quarter	1st 同	<u>L</u> L			自主的に学習	を進めることができる.	

Part				_							
Ath   同士   日本   日本   日本   日本   日本   日本   日本   日			2nd	同上 同上			自主的に学習を	自主的に学習を進めることができる.			
Parameter   Pa			3rd	同上 同上			自主的に学習を	自主的に学習を進めることができる.			
			4th	同上			自主的に学習を	進めることができ	きる.		
Province of the province			5th	同上 同上			自主的に学習を	進めることができ	きる.		
Part			6th	同上			自主的に学習を	自主的に学習を進めることができる.			
Ph			7th	同上			自主的に学習を	自主的に学習を進めることができる.			
Page			8th	中間試験実施せる	<b>j</b> "						
Ath Quarter   11th   同上   12th   同上   12th   同上   13th   13th   同上   13th   13t			9th	同上			自主的に学習を	自主的に学習を進めることができる.			
Ath Quarter   12th   同士   12th   同士   13th   同士   13th   同士   13th   同士   14th   同士   14th   同士   15th   同士   16th   期末試験実施せず   16th   期末試験実施せず   16th   期末試験実施せず   17th   1			10th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
Part			11th	同上			自主的に学習を	自主的に学習を進めることができる.			
13th   同上   13th   同上   14th   同上   14th   同上   14th   同上   15th   同上   16th   16th   18th   16th   18th   18t			1	同上同上			自主的に学習を	自主的に学習を進めることができる.			
15th   同上		Quarter	l l	同上			自主的に学習を	自主的に学習を進めることができる.			
Fealuation Method and Weight (%)			14th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
Evaluation Method and Weight (%)       試験     発表     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100			15th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
試験     発表     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100			16th	期末試験実施せる	<b>f</b>						
Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100	Evaluation Method and Weight (%)										
基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100	試			発表	相互評価	態度	ポートフォリス	オーその他	Total		
専門的能力 0 0 0 0 100 100	Subtotal 0			0	0	0	0	100	100		
	基礎的能力 0			0	0	0	0	0	0		
分野横断的能力   0	専門的能力 0			0	0	0	0	100	100		
	分野横断的能力 0			0	0	0	0	0	0		

Akashi College			Year	ar 2021			Course Title Qualifications in Electric and Electronic Engineering			
Course	Informat	tion								
Course Co		0059			1			ed / Elective		
Class Format その他		d and	d Computor Fr	Credits		School Cr	redit: 1			
Department Electrical a Electrical E			al Eng	gineering Coul	rse	Student Grade		5th		
Term Year-round			und			Classes per We	ek	1		
Textbook Teaching		なし								
Instructor	•	OHMUK	AI M	asato						
	Objectiv		75371	- 1 - Va 16 - NE	\-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
電気電子工学に関わる内容の外部団体による資格試験に合格することを目標とする。 該当する資格に関しては担当教員が単位認定の審査にあたるので、単位取得を希望するものは事前に相談しておくこと。										
Rubric			ı							
			-+	型想的な到達レイ		標準的な到達レク	ベルの目	安	未到達レベルの目安	
評価項目1			2	電気主任技術者第 2 種試験に余裕な 3.	電気主任技術者第 2種試験に合格		たは,第	電気主任技術者第1種または,第 2種試験に合格できない.		
評価項目2										
評価項目3		tmont Ol								
		tment Ol			) 学習・教育到達原					
	a Metho		3/1-		<u>) 16 WHILE</u>	кши (11)				
Outline	<u>.</u>		工学	分野の学習の成 験のいずれかに	果として、外部団 合格した場合、学	体主催の資格試験 生課教務担当が指	の結果に 定する期	準じて単クロングログライス (1) はまでに	位を与える科目と位置づける。指定 所定の手続きを完了すれば、1単位を	
Style		授業は行	わな							
Notice		単位認定 する。こ 合格の対	には の期 象と	合格証書または 間内に証明書類 しない欠席条件	合格証明書等の証 を提出できない場 (割合) 条件なし	明書類が必要で、 合には単位が認定	申請期間されない	は冬休み. い。期限を	以降で教務係が指定した期日までと 厳守すること。	
Charact	eristics o	of Class /	/ Div	vision in Lea	arning					
☐ Active	Learning			☐ Aided by ICT ☐ Applicable t			o Remote Class			
									Ехрепенева	
Course	Plan									
			The				Goals			
		1st	資格		目主的な学習(講義に	は行わない)		- 7	めることができる.	
	1st Quarter	2nd	同上 同上				自主的に	こ学習を進	めることができる. 	
		3rd	同上同上			自主的(	こ学習を進	めることができる.		
		4th	同上同上	• • •			自主的に	に学習を進	めることができる.	
		5th	同上				自主的に	こ学習を進	めることができる.	
		6th	同上 同上	- -		自主的に	こ学習を進	めることができる.		
		7th	同上同上	• • •			自主的に	こ学習を進	めることができる.	
1st Semeste		8th		-  試験実施せず						
r	2nd Quarter	9th	同上同上	<u>.</u> -			  自主的に	こ学習を進	めることができる.	
		10th	同上同上				自主的に	二学習を進	めることができる.	
		11th	同上				自主的に	ご学習を進	めることができる.	
		12th	同上 同上				自主的に	こ学習を進	めることができる.	
		13th	同上 同上				自主的に	こ学習を進	めることができる.	
		14th	同上 同上				自主的に	で学習を進	めることができる.	
		15th	同上				自主的に	ご学習を進	めることができる.	
		16th	期末	試験実施せず						
2nd Semeste r	3rd Quarter	1st	同上同上	-			自主的に	に学習を進	めることができる.	

Part				_							
Ath   同士   日本   日本   日本   日本   日本   日本   日本   日			2nd	同上 同上			自主的に学習を	自主的に学習を進めることができる.			
Parameter   Pa			3rd	同上 同上			自主的に学習を	自主的に学習を進めることができる.			
			4th	同上			自主的に学習を	進めることができ	きる.		
Province of the province			5th	同上 同上			自主的に学習を	進めることができ	きる.		
Part			6th	同上			自主的に学習を	自主的に学習を進めることができる.			
Ph			7th	同上			自主的に学習を	自主的に学習を進めることができる.			
Page			8th	中間試験実施せる	<b>j</b> "						
Ath Quarter   11th   同上   12th   同上   12th   同上   13th   13th   同上   13th   13t			9th	同上			自主的に学習を	自主的に学習を進めることができる.			
Ath Quarter   12th   同士   12th   同士   13th   同士   13th   同士   13th   同士   14th   同士   14th   同士   15th   同士   16th   期末試験実施せず   16th   期末試験実施せず   16th   期末試験実施せず   17th   1			10th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
Part			11th	同上			自主的に学習を	自主的に学習を進めることができる.			
13th   同上   13th   同上   14th   同上   14th   同上   14th   同上   15th   同上   16th   16th   18th   16th   18th   18t			1	同上同上			自主的に学習を	自主的に学習を進めることができる.			
15th   同上		Quarter	l l	同上			自主的に学習を	自主的に学習を進めることができる.			
Fealuation Method and Weight (%)			14th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
Evaluation Method and Weight (%)       試験     発表     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100			15th	同上同上			自主的に学習を	自主的に学習を進めることができる.			
試験     発表     相互評価     態度     ポートフォリオ     その他     Total       Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100			16th	期末試験実施せる	<b>f</b>						
Subtotal     0     0     0     0     100     100       基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100	Evaluation Method and Weight (%)										
基礎的能力     0     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100	試			発表	相互評価	態度	ポートフォリス	オーその他	Total		
専門的能力 0 0 0 0 100 100	Subtotal 0			0	0	0	0	100	100		
	基礎的能力 0			0	0	0	0	0	0		
分野横断的能力   0	専門的能力 0			0	0	0	0	100	100		
	分野横断的能力 0			0	0	0	0	0	0		