		i College		Electr Engin Engin	ical an eering eering	d Computer Electrical Course	Year	2020		
De	par	tment Goals	1	1	ı				1	
Cou e Cat ory		Course Title	Cours e Code	Credit Type	Credit s	Class Hours per Week   1st Year   2nd Year   1st   2nd   1st   2nd   1   2   3   4   4   Q   Q   Q   Q   Q   Q   Q   Q	1st 2nd 1	14th Year   5th Year   5th Year   5th Year   2nd   1st   2nd   2   3   4   4   2   3   4   4   2   4   4   4   4   4   4   4	Instru ctor	Divisio n in Learni ng
Ge ne ral	O E 교용 >	Japanese IV	5401	Acade mic Credit	2			2	ZENT OH Masas hi	
Ge ne ral	Compsor	Physical Education IV- 1	5402	School Credit	1			2	GOTO H Takay uki,KO BAYAS HI Yuki	
Ge ne ral	Co m pu lso ry	Physical Education IV- 2	5403	School Credit	1			2	GOTO H Takay uki,MA EDA Tadan ori	
Ge ne ral	Co m pu so ry	English IV A	5404	School Credit	1			2	AKIMO TO Hiromi	
Ge ne ral	Compusory	English IV B	5405	School Credit	1			2	MORI MOTO Nana	
Ge ne ral	Compusory	Advanced English I	5406	School Credit	1			2	HERBE RT John C.	
Ge ne ral	Co m	Advanced English II	5407	School Credit	1			2	HERBE RT John C.	
Ge ne ral	El ec tiv e	Chinese-1	5408	School Credit	1		] ] ] ] 2	2	ARIKA WA Kei	
Ge ne ral	El ec tiv e	Chinese-2	5409	School Credit	1			2	ARIKA WA Kei	
Ge ne ral	El ec tiv e	German-1	5410	School Credit	1			2	YOKO TA Kazuy a	
Ge ne ral	El ec tiv e	German-2	5411	School Credit	1			2	YOKO TA Kazuy a	
Ge ne ral	El ec tiv e	French-1	5412	School Credit	1			2	FUJIM OTO Tomo nari	
Ge ne ral	El ec tiv e	French-2	5413	School Credit	1			2	FUJIM OTO Tomo nari	
Ge ne ral	El ec tiv e	Mathematical Concepts	5414	School Credit	1			2	MATS UMIYA Atusi	
Ge ne ral	El ec tiv e	Overseas Training II	5415	School Credit	1		1	l 1	All faculty of the depart ment	

Ge ne ral	Co m pu lso	Japanese IV-1	5416	School Credit	1	KUBO TA Ikumi
Ge ne ral	Co m pu Iso ry	Japanese IV-2	5417	School Credit	1	TANG E Atsuko
Sp eci ali ze d	Co m pu lso ry	Co+workⅢA	5418	School Credit	1	All faculty
Sp eci ali ze d	Co m pu lso ry	Co+work II B	5419	School Credit	1	All faculty
Sp eci ali ze d	Co m pu Iso ry	Applied Physics I	5420	School Credit	1	OGAS AWAR A Hiromi chi
Sp eci ali ze d	Co m pu lso ry	Electronic Circuits I	5421	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu iso ry	Preliminaries to Graduation Thesis	5422	School Credit	1	All faculty of the depart ment
Sp eci ali ze d	Co m pu lso ry	Applied Mathematics A	5423	School Credit	2	OGAS AWAR A Hiromi chi
Sp eci ali ze d	Co m pu lso ry	Applied Mathematics B	5424	School Credit	2	OGAS AWAR A Hiromi
Sp eci ali ze d	Co m pu lso ry	Electromagnetics II A	5425	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Electromagnetics II B	5426	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Solid State Physics A	5427	Acade mic Credit	2	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Solid State Physics B	5428	Acade mic Credit	2	OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Applied Physics II	5429	School Credit	1	NAKA NISHI Hirosh i
Sp eci ali ze d	Co m pu lso ry	Transient Analysis on Electric Circuits	5430	School Credit	1	SUYA MA Taikei
Sp eci ali ze d	Co m pu Iso ry	Electronic Circuits II	5431	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	Co m pu Iso ry	Control Engineering I	5432	Acade mic Credit	2	ENOM OTO Ryuji

Sp eci ali ze d	pu	Experiments of Electrical Engineering I A	5433	School Credit	2	HIROT A Atsush i,TERA SAWA Shinic hi,HIR ANO Masat sugu, NOMU RA Hayat o
Sp eci ali ze d	Co m pu Iso ry	Experiments of Electrical Engineering I B	5434	School Credit	2	HIROT A Atsush i,TERA SAWA Shinic hi,HIR ANO Masat sugu,
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training A	5435	School Credit	1	All faculty of the depart ment
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training B	5436	School Credit	2	All faculty of the depart ment
Sp eci ali ze d	El ec tiv e	Computer Architecture	5437	Acade mic Credit	2	NOMU RA Hayat o
Sp eci ali ze d	El ec tiv e	Discrete Mathematics A	5438	School Credit	1	HAMA DA Yukihir o
Sp eci ali ze d	El ec tiv e	Discrete Mathematics B	5439	School Credit	1	HAMA DA Yukihir o
Ge ne ral	Co m pu lso ry	English Conversation II	6501	School Credit	1	HERBE RT John C.
Ge ne ral	Co m	English V	6502	Acade mic Credit	2	
Ge ne ral	Co m pu lso ry	Advanced English III	6503	School Credit	1	HERBE RT John C.
Ge ne ral	Co m pu lso ry	Advanced English IV	6504	Acade mic Credit	2	HERBE RT John C.
Ge ne ral	El ec tiv e	Introduction to Japanese Language and Communication	6505	Acade mic Credit	2	TANG E Atsuko
Ge ne ral	El ec tiv e	Law	6506	Acade mic Credit	2	
Ge ne ral	El ec tiv e	Philosophy	6507	Acade mic Credit	2	ARAK AWA Hirono ri
Ge ne ral	El ec tiv e	Biophysical Chemistry	6508	School Credit	1	INOUE Tsuto mu

Ge ne ral	El ec tiv e	Scientific Technology and the Environment	6509	School Credit	1		IMAI Ryoich i
Ge ne ral	El ec tiv e	Sports Science I	6510	School Credit	1		GOTO H Takay uki,MA EDA Tadan ori
Ge ne ral	El ec tiv e	Sports Science II	6511	School Credit	1		GOTO H Takay uki,IS HIDA Masa mi
Ge ne ral	El ec tiv e	TOEICI	6512	School Credit	1		INOUE Hideto shi
Ge ne ral	El ec tiv e	TOEICI	6513	School Credit	2		INOUE Hideto shi
Ge ne ral	El ec tiv e	TOEICII	6514	School Credit	3	3 3	INOUE Hideto shi
Ge ne ral	El ec tiv e	Overseas Training II	6515	School Credit	1		All faculty of the depart ment
Sp eci ali ze d	Co m pu lso ry	Intellectual Property Rights	6516	School Credit	1		MORIS ADA Yuji
Sp eci ali ze d	Co m pu lso ry	Computer Simulation	6517	School Credit	1		OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Graduation Thesis	6518	School Credit	9	6 12	All faculty of the depart ment ,NAKA NISHI Hirosh i
eci ali	Co m pu lso ry	Power Electronics	6519	School Credit	1		HIROT A Atsush
Sp eci ali ze d	Co m pu	Energy Transmission and Distribution Engineering	6520	School Credit	1		HIROT A Atsush i
Sp eci ali ze d	Co m pu lso ry	Engineering of Energy Conversion	6521	School Credit	1		HIROT A Atsush i
Sp eci ali ze d	Co m	Experiments of Electrical Engineering II	6522	School Credit	2		
Sp eci ali ze d	El ec	Probability and Statistics	6523	Acade mic Credit	2		HAMA DA Yukihir o
Sp eci ali ze d	El ec tiv e	Information Theory	6524	School Credit	1		TSUC HIDA Takay uki

Sp eci ali ze d	El ec tiv e	Fundamentals of Communication Systems	6525	Acade mic Credit	2		
Sp eci ali ze d	El ec tiv e	Communication System	6526	School Credit	1		
Sp eci ali ze d	El ec tiv e	Information Network	6527	School Credit	1	INOUE Kazun ari	
Sp eci ali ze d	El ec tiv e	Control Engineering II	6528	School Credit	1	KAMI Yasus hi	
Sp eci ali ze d	El ec tiv e	Solid State Physics C	6529	School Credit	1	OHMU KAI Masat o	
Sp eci ali ze d	El ec tiv e	Application of Electronics	6530	School Credit	1	OHMU KAI Masat o	
Sp eci ali ze d	El ec tiv e	Image Engineering	6531	Acade mic Credit	2	HIRAN O Masat sugu	
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering I	6532	School Credit	1	OHMU KAI Masat o	
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering II	6533	School Credit	1	OHMU KAI Masat o	

А	kashi Co	llege	Year	2023		Course Title	Japanese IV	
Course	Informat	tion						
Course Co	ode	5401			Course Categor	y General ,	/ Compulsory	
Class Forr	mat	Lecture			Credits	Academi	c Credit: 2	
Departme	ent	Electrical E	ind Computer ingineering Co		Student Grade	4th		
Term Textbook	and/or	First Seme			Classes per Wee	ek 2		
Teaching Instructor	Materials	野田尚史・ ZENTOH M		語を話すトレーニン	グ(ひつじ書房)			
	Objectiv							
1)報告・論文を、整理 2)作成した報告・論 3)課題に応じ、根拠(		理した情報を 文の内容およ	び自分の思いや	が効果的に伝わるよ 考えを、的確に口頭	うに論理の構成や原発表することができ	展開を工夫し、作 きる。	成することができる。	
Rubric								
			理想的な到達し	/ベルの目安	標準的な到達レヘ	いの目安	未到達レベルの目安	
評価項目1			やすく、論理的	意見・報告を分かり り・実証的、レイア ヒレジメに作成でき	明確な結論・意見 やすく、論理的・ に作成できる。	・報告を分かり 実証的なレジメ	結論・意見・報告を示す材料は上 げられるが構成・レイアウトに不 備がある。	
評価項目2			優れたプレゼン	、・わかりやすさに シテーションができ 全に答えることがで	準備されたプレセ できるが、質問に 切な回答ができな	対して即座に適	読み合わせに近いプレゼンテーションとなっている。	
評価項目3			テーマに即した、簡潔・論理的。	た意味のある発言が 的・実証的にできる	テーマに合った、 だが、冗長となっ	意味のある発言 っている。	テーマから外れてはいないが、未 整理な発言内容である。	
Assigne	d Depart	tment Obje	ectives					
Teachin	g Metho	d						
Outline		一での諸問題	設問に従った学 を取り上げ、日 とを目標とする	本語の表現と日本人	対する質疑応答をF の発想の特徴につい	P心に授業を進行 Nて、知識の整理	する。日本語を使用する様々な場面 !、自発的な考察、適切な実践により	
Style			<del></del> 学生のプレゼン		(のレジメを使用)	と質疑応答を中心	いに、各テーマの理解とプレゼン技術	
Notice		90時間に相  事前学習を  と。なお適	当する学習内容  含め、発表と質  官、資料を配付	である。	り組み、国語表現(i する。		標準的な自己学習時間の総計が、 術を確実に習得するよう心がけるこ	
Charact	eristics o	of Class / [	Division in L	earning				
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Plan	ı						
			neme			Goals		
		1st   授	リエンテーショ 業の概要 表予定の立案	ン		レジメの作成の仕 基準が理解できる	t方、プレゼン注意、それぞれの評価 る。	
		2nd F	い合わせをする レーニング 1 の 記問題点の考察	発表と質疑応答		「問い合わせ」のテーマを理解し、必要な技術(話し方・5w2H・タイミングなど)を中心としたレジメを作成し、プレゼンテーションすることができる。		
		3rd	願いをする レーニング 3 の 記問題点の考察	発表と質疑応答 と整理	1	・タイミング・計	Fーマを理解し、必要な技術(気配り Eし方など)を中心としたレジメを作 Fーションすることができる。	
1st		4th	う・断る・謝る レーニング 5 の 記問題点の考察	発表と質疑応答		り・タイミング・	3テーマを理解し、必要な技術(気配・話し方)を中心としたレジメを作成 -ションすることができる。	
1st Semeste	Quarter	5th	ピーチをする レーニング 9 の 記問題点の考察	発表と質疑応答 と整理		しい内容・話した	Fーマを理解し、必要な技術(ふさわち)を中心としたレジメを作成し、プレすることができる。	
r		6th 文	書作成の基礎的	技術(図表・引用)		図表の作成の仕方	5、引用の仕方を適切に行える	
		7th   ト	さしい日本語 レーニング 1 2 記問題点の考察	の発表と質疑応答 と整理		(語選択・異文化	国」のテーマを理解し、必要な技術 と理解・マナーなど)を中心としたレ プレゼンテーションすることができる	
		8th   ト	議で発言する( レーニング 1 0 記問題点の考察	の発表と質疑応答		見整理・決定の位	のテーマを理解し、必要な技術(意 上方・会議進行など)を中心としたレ プレゼンテーションすることができる	
	2nd Quarter	  9th  上	レーニング13 記問題点の考察	2)+プレゼンテーシ の発表と質疑応答 と整理やさしい日本 の発表と質疑応答 と整理	語	・ 上記に加え、「フ し、必要な技術 したレジメを作ん できる。	プレゼンテーション」のテーマを理解 (材料選択・資料作成など) を中心と はし、ブレゼンテーションすることが	

	10th	プレゼンテーショントレーニング130 上記問題点の考察と	)発表と質疑応答		「プレゼンテーシ 術(材料選択・資 作成し、プレゼン	ョン」のテーマを <sup>3</sup> 料作成など)を中 <sup>,</sup> テーションするこ。	理解し、必要な技 心としたレジメを とができる。	
	11th	研究発表(1) トレーニング140 上記問題点の考察と	)発表と質疑応答 :整理		ド・質疑応答など	ーマを理解し、必! ) を中心としたレ: することができる。	ジメを作成し、プ	
	12th	研究発表(2)+面接 トレーニング150 上記問題点の考察と	(1) )発表と質疑応答 :整理		「面接」のテーマを 種類別の基準・自 ジメを作成し、プ	を理解し、必要な! 己紹介の仕方など! レゼンテーション	)を中心としたレー	
	13th	面接(2) トレーニング15の 上記問題点の考察と	)発表と質疑応答 :整理		「面接」のテーマ 質問を通じたPRな プレゼンテーショ	を理解し、必要な! :ど)を中心とした ンすることができ	レジメを作成し、	
	14th	アカデミックライラ の構成)	-ィングの基礎(研	究計画書・論文	研究計画の作成の ることができる	仕方、論文の書き	方の基本を理解す	
	15th	レポート・論文の作論証・例示)	F成の仕方(パワー	ライティング・	文章の構成、論証	、適切な例示の示	し方を理解できる	
	16th	期末試験						
Evaluation M	Evaluation Method and W							
	試験	発表	相互評価	態度	ポートフォリオ	その他	Total	
Subtotal	Subtotal 50		0	0	0	0	100	
基礎的能力 50		50	0	0	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	

А	kashi Co	ollege	Year	2023			ourse Title	Physical Education IV-1	
Course	Informa	tion		•					
Course Co		5402			Course Categor	у	General /	' Compulsory	
Class For	mat	Skill			Credits School Credit: 1			redit: 1	
Departme	ent	Electrica	l and Computer I	Engineering	Student Grade 4th				
Term		First Sen	l Engineering Cou nester	Classes per Wee	ek	2			
Textbook	and/or	11130 301	nester		Telasses per Wee	CK			
Teaching									
Instructor			Takayuki,KOBAY	ASHI Yuki					
Particip	Objective oate in class ke action to	sses to imp	rove students' ov	wn health and phys	sical strength. Als	so, hav	ve some le	evel of self-discipline.	
		action to do		o, recognizes are s				soperating with the team and ear	
RUDITIC			Ideal Level		Standard Level			Unacceptable Level	
Achievem	nent 1		Actively partic	ath. Have a high	Participate in cla their health and strength. Have self-discipline.	d physi	ical <sup>·</sup>	Do not participate in classes Do	
Achievem	nent 2		sport practices	cipate in various s and games, and petitive. Also have nce on games, etc.	Can participate practices and ga			·	
Achievem	ent 3			nd can play or ole of a leader.	Understand the but cannot play			Do not understand the role of a leader. Also, never play that role.	
Assigne	d Depar	tment Ob	jectives						
Teachin	ig Metho	od							
Outline		the habit Students content.	t of playing sport will split into ar	s on a daily basis. oups and leaders v oose from: Baseba	This class require	es an a to pla	active and n. review.	h of sports so that they can build proactive attitude to participate. and implement the course basketball, volleyball, badminton,	
Style		the basic	ents are encouraged to improve their skills through games based on the rules, how to play games, a lasic skills they learned in previous years. They are also encouraged to experience the fun of enhand work while collaborating and cooperating with your team with your leader in the center. Students s the 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.	t wear or bring a duction. less will be excu- attendance will discovered that s will be marked	accessories, watch sed for the first 20 be marked as abse a student left class	es, or any other u minutes. Studen ent. s early without be eir grade for prev	unnecents can eing ex vious c	essary iter participa xcused (di lasses wil	nts will be deducted from their ms. These are also eligible for the in the class after 20 minutes, tching class), their attendance for suffer a deduction equal to an n.	
Charact	eristics		Division in Le		3000 mm not 50 engine for evaluation.				
☑ Active			☐ Aided by I		☑ Applicable to	Rem	ote Class	☐ Instructor Professionally Experienced	
Course	Plan								
			Theme			Goals			
		1st	Guidance Baseball, softbal basketball, volley training, flying d	l, soccer, futsal, te yball, badminton, t isc	ahla tannis		e. Split int	purposes and objectives of this o teams in each sport and select a	
		2nd	Baseball, softbal basketball, volley training, flying d	l, soccer, futsal, te yball, badminton, t isc	abla tannia l'	Can dereflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
1ct		3rd	basketball, volley training, flying d		able tennis,	Can de reflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
	1st Quarter	4th	basketball, volley training, flying d		able tennis,	Can de reflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		5th	basketball, volley training, flying d		able tennis,	Can de reflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		6th	basketbáll, volley training, flying d		able tennis,	Can de reflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		7th	Baseball, softbal basketball, volley training, flying d	l, soccer, futsal, te yball, badminton, t isc	abla tannia l'	Can de reflect	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	

		8th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and es, led by a leader.
		9th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Split into teams in	n each sport and select a leader.
		10th	Baseball, softball, soc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and ss, led by a leader.
		11th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and ss, led by a leader.
	2nd Quarter	12th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and ss, led by a leader.
	-	13th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and ss, led by a leader.
		14th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up reflect on the clas	and practice, play games, and ss, led by a leader.
		15th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,		and practice, play games, and ss, led by a leader.
16th No final exam						
Evaluation Method and Weight (%)			nd Weight (%)			
Approach to a class				Practical skill	Leadership	Total
Subtotal			75	15	10	100
Basic Profi	iciency		75	0	0	75
Specialized	d Proficier	псу	0	0	0	0
Cross Area	a Proficien	су	0	15	10	25

А	kashi Co	ollege	Year	2023			ourse Title	Physical Education IV-2
Course	Informa	tion						
Course Co	ode	5403			Course Categor	γ	General /	Compulsory
Class Forr	mat	Skill			Credits	School Credit: 1		
Departme	ent	Electrical Electrical	l and Computer I l Engineering Co	Engineering urse	Student Grade	e 4th		
Term			Semester		Classes per We	ek	2	
Textbook								
Teaching Instructor		СОТОН		Tadapori				
	Objectiv		i akayuki,MAEDA	Tauanon				
Particip     Can tal	pate in clas ke action t	sses to impr	sports safely. Also	wn health and physo, recognizes the s	sical strength. Als ignificance of col	so, hav llabora	e some le	evel of self-discipline. ooperating with the team and can
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		improve their	gth. Have a high	Participate in cl their health and strength. Have self-discipline.	d physi	cal <sup>·</sup>	Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.
Achievem	ent 2		sport practices	cipate in various s and games, and petitive. Also have nce on games, etc.	Can participate practices and g	in vari ames.	ous sport	
Achievem	ent 3			nd can play or le of a leader.	Understand the but cannot play			Do not understand the role of a leader. Also, never play that role.
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho	d						
Outline		the habit Students content.	of playing sport will split into ar	s on a daily basis. oups and leaders v oose from: Baseba	This class requir vill take the lead	es an a to plar	active and n. review.	n of sports so that they can build proactive attitude to participate. and implement the course basketball, volleyball, badminton,
Style		Students the basic teamwor	ents are encouraged to improve their skills through games based on the rules, how to play games, basic skills they learned in previous years. They are also encouraged to experience the fun of enhan work while collaborating and cooperating with your team with your leader in the center. Students the 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 class absence.	t wear or bring a duction. 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	es, or any other minutes. Studer ent. s early without beir grade for prev	unnece nts can eing ex vious c	essary iter participat ccused (di lasses will	ts will be deducted from their ns. These are also eligible for te in the class after 20 minutes, tching class), their attendance for suffer a deduction equal to an
Charact	eristics (		Division in Le		es will flot be eligible for evaluation.			
☑ Active		<u> </u>	☐ Aided by I		☐ Applicable to Remote Class ☐ Instructor Professionally Experienced			
Course	Plan							
Course	1 1011		Theme		T	Goals		
		1st	Guidance Baseball, softbal	l, soccer, futsal, te yball, badminton, t isc	nnis, able tennis,	Under	. Split into	purposes and objectives of this o teams in each sport and select a
		2nd	Baseball, softbal	l, soccer, futsal, te	nnis, able tennis,	Can do	o warm-up on the cla	o and practice, play games, and ass, led by a leader.
2nd		3rd	basketball, volley training, flying d		able tennis,	Can do	o warm-up on the cla	o and practice, play games, and ass, led by a leader.
2nd Semeste r	3rd Quarter	4th	basketball, volley training, flying d		able tennis,	Can do	on the cla	o and practice, play games, and ass, led by a leader.
		5th	basketball, volley training, flying d		able tennis,	Can do	on the cla	o and practice, play games, and ass, led by a leader.
		6th	basketbáll, volley training, flying d		able tennis,	Can do reflect	on the cla	o and practice, play games, and ass, led by a leader.
		7th	Baseball, softbal basketball, volley training, flying d	l, soccer, futsal, te yball, badminton, t isc	nnis, able tennis,	Can do	on the cla	o and practice, play games, and ass, led by a leader.

	8th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	9th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Split into teams in each	sport and select a leader.
	10th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	11th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
4th Quarter	12th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	13th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	ractice, play games, and by a leader.	
	14th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	15th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	16th	No final exam			
<b>Evaluation Met</b>	hod ar	nd Weight (%)			
		Approach to a class	Practical skill	Leadership	Total
Subtotal	•	75	15	10	100
Basic Proficiency		75	0	0	75
Specialized Proficie	ncy	0	0	0	0
Cross Area Proficie	ncy	0	15	10	25

Instructor	Д	kashi C	ollege	Year	2023		Course Title	English IV A			
Lecture   Credits   School Credits   School Credits   Department   Electrical and Computer Engineering   Student Grade   4th   School Credits   Electrical and Computer Engineering   Student Grade   4th   School Credits   Scho	Course	Informa	tion				•				
Supertment   Electrical and Computer Engineering   Student Grade   4th	Course Co	ode	5404			Course Catego	ry General	/ Compulsory			
Februm First Semester   Classes per Week   2   Februm First Semester   Classes per Week	Class For	mat				Credits	School C	redit: 1			
First Semester   Classes per Week   2	Departme	ent				Student Grade	4th				
Active Learning Method   Unit 2: Learn listening and reading skills: Improve practical English proficiency through listening and reading exercises.	Term					Classes per We	eek 2				
Tourse Objectives  1) Improve the English islaming and reading skills: Improve practical English proficiency through listening and reading exercises.  2) Improve English vocabulary and grammar: Retain basic English skills through learning English words and grammatical element and history of English-speaking countries. Gain a deeper understanding of American social issues and modern history using videos.  Rubric    Ideal Level			(1) Roma	an Holiday (2) [	OataBase (3) Next	Stage					
1) Improve the English listening and reading skills: Improve practical English proficiency through listening and reading exercises sing a movie-oriented extextook. 2) Improve English vocabulary and grammar: Retain basic English skills through learning English words and grammatical element in Story using videos. 2) Improve English vocabulary values. 2 Ideal Level Standard Level Can fully improve practical English proficiency through istening and reading exercises. 3 Can fully improve English groficiency through intening and reading exercises. 3 Can fully improve English groficiency through istening and reading exercises. 4 Can fully improve English groficiency through istening and reading exercises. 5 Can fully improve English groficiency through istening and reading exercises. 5 Can fully improve English groficiency through istening and reading exercises. 6 Can fully improve English groficiency through istening and reading exercises. 6 Can fully improve English groficiency through istening and reading exercises. 6 Can fully improve English groficiency through an explication of the logical thrinking and international perspective increasary for future engineers. 6 Can fully improve English groficiency through an explication of the logical thrinking and international perspective increasary for future engineers. 6 Can fully improve English groficiency through a movie-oriented textbook. 7 Can improve English groficiency through a movie-oriented textbook. 7 Can improve English groficiency through a movie-oriented textbook. 8 Students who miss 1/4 or more of classes will not be eligible for evaluation. 8 Course Students who miss 1/4 or more of classes will not be eligible for evaluation. 8 Course Students who miss 1/4 or more of classes will not be eligible for evaluation. 9 Course Students who miss 1/4 or more of classes will not be eligible for evaluation. 9 Course Plan  1 Students who miss 1/4 or more of classes will not be eligible for evaluation. 1 Course schedule will be provided in the first week. Be sure to un	Instructo		1	O Hiromi							
Ideal Level	(1) Improusing a m (2) Impro (3) Under	ove the En novie-orier ove English rstand cult	glish listenir nted textboo n vocabulary cure and hist	ok. v and grammar:	Retain basic Englis	h skills through	learning English	words and grammatical elements.			
Achievement 1  Can fully improve practical English proficiency through listening and reading exercises.  Can fully improve English vocabulary through learning English vocabulary through learning English vocabulary through learning English vocabulary.  Fully learn a wide range of knowledge and skills, including the logical thinking and he logical thinking and head he logical thinking and head head head head head head head hea	Rubric			Ī							
Achievement 1   English proficiency through listening and reading exercises is listening and reading exercises. Can fully improve English vocabulary through learning English vocabulary through learning English vocabulary through learning English vocabulary through learning English vocabulary. Cannot improve English vocabulary through learning English vocabulary. Cannot improve English vocabulary. Cannot improve English vocabulary. Cannot improve English vocabulary.  Achievement 3   Fully learn a wide range of knowledge and skills, including the logical thinking and necessary for future engineers.  Achievement 4   The aim is to improve practical English proficiency through a movie-oriented textbook. Cannot improve engineers of the provided in the first week and authentic materials and link it to oral speech in English.  English vocabulary through learning through learning english vocabulary through learning through learn											
Achievement 2   vocabulary through learning English vocabulary.   Fully learn a wide range of knowledge and skills, including the logical thinking and international perspective international perspecti	Achievem	ent 1		English profici	ency through	proficiency thro	ough listening				
knowledge and skills, including the logical thinking and international perspective necessary for future engineers.  Assigned Department Objectives  Fleaching Method  (1) The aim is to improve practical English proficiency through a movie-oriented textbook. (2) Comprehend information from videos and authentic materials and link it to oral speech in English.  There will be vocabulary tests. Lessons explain to the eligible for evaluation. Course schedule will be provided in the first week. Be sure to understand in detail.  Characteristics of Class / Division in Learning  Active Learning  Theme  Class guidance Explain how classes will be conducted, vocabulary experienced  The culture of English-speaking countries with videos  4th Unit 1: Learn listening and reading on the topics  Style  1st Quarter  And Quarter  Lear culture of English-speaking countries with videos  The culture of	Achievement 2			vocabuláry th	rough learning	through learning		vocabulary through learning			
Assigned Department Objectives  Feaching Method  (1) The aim is to improve practical English proficiency through a movie-oriented textbook.  (2) Comprehend information from videos and authentic materials and link it to oral speech in English.  There will be vocabulary tests. Lessons explain the key points in the textbook and do practice questions for each unit.  Students who miss 1/4 or more of classes will not be eligible for evaluation.  Course schedule will be provided in the first week. Be sure to understand in detail.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Theme  Class guidance Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  Learn culture of English-speaking countries with videos  Touries and the provided and assignments, and plan ahead.  Unit 1: Learn listening and reading on the topics  The Unit 3: Learn listening and reading on the topics  Touries and plan altering and reading on the topics.  The Unit 4: Learn culture of English-speaking countries with videos  Touries and plan altering and reading on the topics.  The Unit 4: Learn listening and reading on the topics  The Unit 4: Learn listening and reading on the topics  The Unit 4: Learn listening and reading on the topics  The Unit 5: Learn listening and reading on the topics  The Unit 6: Learn listening and reading on the topics  The Unit 6: Learn listening and reading on the topics  The Unit 6: Learn listening and reading on the topics  The Unit 6: Learn listening and reading on the topics of Learning skills following the topics of the textbook and all the provided and all the provided and assignments and plan all the provided and assignments and plan all the provided and assignments and plan all the plan all	Achievem	ent 3		knowledge an the logical this international r	d skills, including nking and perspective	knowledge and the logical thin international pe	sk̃ills, including king and erspective	knowledge and skills, including the logical thinking and international perspective			
Dutline (1) The aim is to improve practical English proficiency through a movie-oriented textbook. (2) Comprehend information from videos and authentic materials and link it to oral speech in English. Style There will be vocabulary tests. Lessons explain the key points in the textbook and do practice questions for each unit.  Students who miss 1/4 or more of classes will not be eligible for evaluation. Course schedule will be provided in the first week. Be sure to understand in detail.  Characteristics of Class / Division in Learning	Assigne	d Depar	tment Ob								
Course Plan	Teachin	g Metho	od								
Course			(1) The a	aim is to improve	e practical English ¡	proficiency throu	igh a movie-orie	ented textbook.			
Notice    Students who miss 1/4 or more of classes will not be eligible for evaluation.			<del>-   ` '                                 </del>								
Course schedule will be provided in the first week. Be sure to understand in detail.	Style		each unit	t.	tests. Lessons exp	iaiii tile key poli	its in the textbo	ok and do practice questions for			
Active Learning   Aided by ICT   Zi Applicable to Remote Class   Instructor Professionally Experienced    Course Plan   Theme   Goals    Ist   Class guidance   Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.    2nd   Learn culture of English-speaking countries with videos   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    3rd   Unit 1: Learn listening and reading on the topics   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    4th   Unit 2: Learn listening and reading on the topics   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    5th   Unit 3: Learn listening and reading on the topics   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    6th   Learn culture of English-speaking countries with videos   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    8th   Unit 4: Learn listening and reading on the topics   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook    10th   Learn culture of English-speaking countries with videos   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook   Improve vocabulary, grammar, and listening and	Notice		Students Course s	Students who miss 1/4 or more of classes will not be eligible for evaluation. Course schedule will be provided in the first week. Be sure to understand in detail.							
Course Plan  Theme Goals  Ist Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  2nd Learn culture of English-speaking countries with videos  Theme Ist Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  2nd Unit 1: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook for the textbook forms and the conducted provided in the conducted provi	Charact	eristics	of Class /	Division in Le	earning						
Theme Class guidance Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  2nd Learn culture of English-speaking countries with videos  3rd Unit 1: Learn listening and reading on the topics  4th Unit 2: Learn listening and reading on the topics  5th Unit 3: Learn listening and reading on the topics  6th Learn culture of English-speaking countries with unit 4: Learn listening and reading on the topics  7th Unit 4: Learn listening and reading on the topics  8th Unit 5: Learn listening and reading on the topics  8th Unit 5: Learn listening and reading on the topics  7th Unit 6: Learn listening and reading on the topics  8th Unit 6: Learn listening and reading on the topics  1mprove vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listeni	□ Active	Learning		☐ Aided by I	СТ	☑ Applicable t	o Remote Class				
Theme Class guidance Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  2nd Learn culture of English-speaking countries with videos  3rd Unit 1: Learn listening and reading on the topics  4th Unit 2: Learn listening and reading on the topics  5th Unit 3: Learn listening and reading on the topics  6th Learn culture of English-speaking countries with unit 4: Learn listening and reading on the topics  7th Unit 4: Learn listening and reading on the topics  8th Unit 5: Learn listening and reading on the topics  8th Unit 5: Learn listening and reading on the topics  7th Unit 6: Learn listening and reading on the topics  8th Unit 6: Learn listening and reading on the topics  1mprove vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listeni	Courco	Dlan									
Standard	Course	Piaii		Theme			Goals				
Learn culture of English-speaking countries with videos  1st Quarter			1st	Class guidance Explain how clas	ses will be conduct	ed, vocabulary	Gain a proper u	understanding on the class content			
Ist Quarter  1st Q			2nd	Learn culture of			Improve vocabulary, grammar, and listening and				
The content of the textbook of					ening and reading	on the topics	Improve vocab	ulary, grammar, and listening and			
Sth Unit 3: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills through video  7th Unit 4: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills through video  10th Unit 7: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and			4th	Unit 2: Learn list	ening and reading	on the topics	reading skills for	llowing the topics of the textbook.			
Videos   reading skills through video   The company of the textbook   The company of the textb		Quarter	Sui				reading skills fo	llowing the topics of the textbook.			
State Semeste  8th Unit 5: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills through video  10th Unit 7: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills f					English-speaking c	ountries with	reading skills th	rough video			
9th Unit 6: Learn listening and reading on the topics  10th Unit 7: Learn listening and reading on the topics  2nd Quarter  11th Unit 7: Learn listening and reading on the topics  12th Unit 8: Learn listening and reading on the topics  13th Unit 9: Learn listening and reading on the topics  1 Improve vocabulary, grammar, and listening and reading on the topics  1 Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbo	1st Semeste		7th	Unit 4: Learn list	ening and reading	on the topics	reading skills fo	llowing the topics of the textbook.			
2nd Quarter  10th Unit 7: Learn listening and reading on the topics 12th Unit 8: Learn listening and reading on the topics 13th Unit 9: Learn listening and reading on the topics  Learn culture of English-speaking countries with reading skills through video  Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook reading skills following the topics of the textbook reading skills following the topics of the textbook	r		8th	Unit 5: Learn list	ening and reading	on the topics	reading skills fo	llowing the topics of the textbook.			
2nd Quarter  11th Unit 7: Learn listening and reading on the topics 12th Unit 8: Learn listening and reading on the topics 13th Unit 9: Learn listening and reading on the topics  10th Videos Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook Improve vocabulary, grammar, and listening and reading on the topics  13th Unit 9: Learn listening and reading on the topics  13th Unit 9: Learn listening and reading on the topics  13th Unit 9: Learn listening and reading on the topics			9th	Unit 6: Learn list	ening and reading	on the topics	Improve vocab reading skills fo	ulary, grammar, and listening and Illowing the topics of the textbook.			
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12th Unit 8: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook  13th Unit 9: Learn listening and reading on the topics Improve vocabulary, grammar, and listening and reading skills following the topics of the textbook			11th	Unit 7: Learn list	ening and reading	on the topics					
reading skills following the topics of the textbook		Qualtel	12th	Unit 8: Learn list	ening and reading	on the topics	reading skills fo	llowing the topics of the textbook.			
			13th	Unit 9: Learn list	ening and reading	on the topics	Improve vocab reading skills fo	ulary, grammar, and listening and illowing the topics of the textbook.			
			14th	Learn culture of videos	English-speaking c	ountries with					

	15th	Q&A for the final	Q&A for the final exam  The final exam			Reflect on the class content so far, and review and answer to questions for the periodic exam.  Test their understanding of the class content so far.		
	16th	The final exam						
Evaluation N	Method and	Weight (%)						
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total	
Subtotal	50	0	0	0	0	50	100	
Basic Proficiency	50	0	0	0	0	50	100	
Specialized Proficiency	0	0	0	0	0	0	0	
Cross Area Proficiency	0	0	0	0	0	0	0	

А	kashi Co	ollege	Year	Year 2023		Course Title	English IV B	
Course	Informa	tion						
Course Co		5405			Course Category		/ Compulsory	
Class For	mat	Lecture			Credits	School C	redit: 1	
Departme	ent		and Computer E Engineering Cou		Student Grade	4th		
Term		Second Se	emester		Classes per Wee	ek 2		
Textbook Teaching		Our Scien	ce (Seibido), Da	tabase 4500 (Kiril	nara), Next Stage	(Kirihara)		
Instructor	r	MORIMOT	O Nana					
Course	Objectiv	es						
content a (2) Impro (3) Gain a	nd writing ove hearing a wide ran	in English. a skills and E	nglish proficiend dge and skills, i	cv bv using audio i	materials or other	means.	ugh the practice of reading English er, through dealing with various	
Rubric					1			
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		vocabuláry ski ability to read	h the practice of content and	Can develop the vocabulary skills ability to read ar English through reading English writing in Englis	i, as well as the nd write in the practice of content and	ability to read and write in	
Achievem	nent 2		and English pr audio material	ove hearing skills oficiency by using s that come with r other means.	Can improve hed English proficient audio materials the textbook or	cy by using that come with	Cannot improve hearing skills and English proficiency by using audio materials that come with the textbook or other means.	
Achievem	nent 3		knowledge and an internation an engineer, t	a wide range of d skills, including al perspective as nrough dealing ppics related to y.	Can gain a wide knowledge and s an international an engineer, thr with various top modern society.	skills, including perspective as ough dealing ics related to	Cannot gain a wide range of knowledge and skills, including an international perspective as an engineer, through dealing with various topics related to modern society.	
Assigne	d Depar	tment Obj	•	,	,		,	
Teachin	ng Metho	od						
Outline		order to d the syntax	evelop English s and grammar	skills they will need necessary for read	d'as an engineer i ling comprehensi	in the age of gloon.	and reading comprehension in obalization, and gain knowledge of texts and solve exercise questions	
Style		to test the writing ba	eir understandin sed on the cont	g of the content. \ ent learned. There more of classes \	We will use CDs to will be assignme	o build listening ents as appropr	gability. We will practice English iate.	
Notice Charact	oristics	•	Division in Le		viii not be eligible	for evaluation.		
		DI Class / L		<u> </u>		D : Cl	☐ Instructor Professionally	
☐ Active	Learning		☑ Aided by IC	.l 	☑ Applicable to	Remote Class	Experienced	
Course	Dlan							
Course		Т	heme		(	Goals		
			rientation		(	Gain a proper u	nderstanding on the class content	
			nit 1		l	Jnderstand the	s, and plan ahead.  English sentences in each Unit	
			nit 2		l	Jnderstand the	em appropriately. English sentences in each Unit	
		-	nit 3		l	and can use them appropriately.  Understand the English sentences in each Unit		
	3rd Quarter		xercises		l	Jnderstand the	em appropriately. English sentences in each Unit	
2nd			nit 4		l	Jnderstand the	em appropriately. English sentences in each Unit	
Semeste r			nit 5	· ·		and can use them appropriately.  Understand the English sentences in each Unit		
			Init 6			Jnderstand the	em appropriately. English sentences in each Unit	
			xercises		l	Jnderstand the	em appropriately.  English sentences in each Unit	
			nit 7		l	Jnderstand the	em appropriately.  English sentences in each Unit	
	4th Quarter		nit 8		l	Jnderstand the	em appropriately.  English sentences in each Unit	
			nit 9		l	and can use them appropriately.  Understand the English sentences in each Unit		
	1				[6	ina can use the	em appropriately.	

		13th	Exercises			Understand thand can use t	Understand the English sentences in each Unit and can use them appropriately.		
		14th	Unit 10	Unit 10			Understand the English sentences in each Unit and can use them appropriately.		
		15th	Review			Summary of t	he content lear	ned.	
		16th	Final exam				Test their understanding of the class content so far.		
Evaluatio	n Me	thod and \	Weight (%)						
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	5	50	0	0	0	0	50	100	
Basic Proficiency	5	50	0	0	0	0	50	100	
Specialized Proficiency	0	)	0	0	0	0	0	0	
Cross Area Proficiency	0	)	0	0	0	0	0	0	

Akashi Col	Akashi College Year 2023			Course Title	Advanced English I	
Course Informati						
Course Code	5406			Course Category	General	/ Compulsory
Class Format	Lecture			Credits	School C	Credit: 1
Department	Electrical and Computer Engineering Electrical Engineering Course		Student Grade	4th		
Term	First Semest	er		Classes per Weel	< 2	
Textbook and/or Teaching Materials	[Available or	n paperback d	How to Deliver Your e-book], Morgared English I & II .	our Message with F n James Publishing	Power, Punch, J, © 2019 by [	and Pizzazz (Third Edition) Diane DiResta. This book is
Instructor	hn C.			·		
Course Objective	S					

- Mastering presentation delivery skills
- Writing stimulating presentation content
  Recognizing weaknesses in presentations and tactfully suggesting ideas for peer and self-improvement
  Using Visual Aids effectively in a presentation
  Handling questions from the audience skillfully
  Writing conference proposals

## Rubric

	Mastery Level	Standard Level	Unacceptable Level
Objective 1 Mastering presentation delivery skills	Able to use confident body language, a strong voice, great eye contact, appropriate intonation and stress, and natural gestures in a presentation	Able to show an awareness of how to use body language, voice projection, eye contact, intonation, stress, and gestures in a presentation	Cannot use body language, voice projection, eye contact, intonation, stress, or gestures appropriately in a presentation
Objective 2 Writing stimulating presentation content	Able to write persuasive and interesting presentation content	Able to show an awareness of how to write persuasive and interesting presentation content	Cannot write persuasive or interesting presentation content
Objective 3 Peer and self-critiquing	Able to give tactful and constructive criticism and advice in peer critiques and to write well thought out self-reflections	Able to show an awareness of how to give tactful and constructive criticism and advice in peer critiques and to write well thought out self-reflections	Cannot give tactful or constructive criticism or advice in peer critiques and not able to write sincere self-reflections
Objective 4 Using visual aids effectively in a presentation	Able to create and use visual aids that are easy for the audience to look at and understand	Able to show an awareness of how to create and use visual aids that are easy for the audience to look at and understand	Cannot create or properly use visual aids that are easy for the audience to look at and understand
Objective 5 Handling questions from the audience skillfully	Able to handle difficult questions from a presentation audience tactfully and confidently	Able to show an awareness of how to handle difficult questions from a presentation audience tactfully and confidently	Cannot handle questions from the audience with confidence
Objective 6 Writing conference proposals	Able to write research abstracts and summaries as impressive conference presentation proposals	Able to show an awareness of how to write research abstracts and summaries as conference presentation proposals	Cannot write research abstracts or summaries in English

#### Assigned Department Objectives

### Teaching Method

reaching Method	
Outline	Advanced English I involves the preparation and confident delivery of English presentations designed for professional and business contexts.
	There will be several short assignments and activities from the textbook to prepare students for their initial and final presentations.
	For Akashi Kosen students, the class will meet in the Global Terrace, but they may be asked to do group work with students from other NIT campuses in TEAMs channels assigned to them during class time.
Style	Students from other NIT campuses, who have been accepted into this class, may join each class via TEAMs.
	The final project of this course is an (in class) online "Professional and Business English Presentation Contest," where the students will present their work orally in front of peers and teachers. In addition to the 20 students enrolled in class, up to five additional individuals and/or teams of 2 or 3 students might be accepted for participation in the online contest through a vetting process. All participants will receive a "Certificate of Achievement" unless they are among the top ranked contestants, in which case they will receive a "Certificate of Excellence" with their ranking indicated.
	Students who miss 1/4 or more of classes will not be eligible for evaluation.
	Students must critique each other's work and self-reflect on each of their practice presentation performances.
	Final contest eligibility for those who are not enrolled in the class will be extended to all interested NIT

students regardless of their nationality, native language, or academic year.

# Notice

Students must not recycle their presentation content from or into any other presentations for other class assignments or contests such as COCET's English Presentation Contest.

Whether the students participate in person or through a live camera projection, the teacher must be able to see ALL of the participants engaged in relevant class time behavior throughout the duration of each class. Otherwise, the teacher reserves the right to mark the student absent. Students joining via TEAMs must leave their caméras on.

Charact	eristics	of Class	/ Division in Learning	T		1	
☑ Active	Learning		☐ Aided by ICT	☑ Applicable t	o Remote Class	☐ Instructor Professionally Experienced	
Course	Plan						
			Theme		Goals		
		1st	Course and textbook introductions Dos and don'ts of public speaking Homework: 1) Choose a presentati 2) Read "Unit 1: Secrets of Platforn Effectiveness"	on topic. n	Consider how to make the most of the course and textbook this semester.  Begin planning a persuasive presentation.		
		2nd	Unit 1: Secrets of Platform Effective Homework: 1) Write a presentation 2) Read "Unit 7: Listener-Centered Communication: Principles of Persu	outline.	Ispeaking and mis	common myths of public stakes that many speakers make. ting a presentation outline and ntation content.	
		3rd	Unit 7: Listener-Centered Commun Principles of Persuasion (Part One) Critique a classmate's outline. Homework: 1) Write a first draft of presentation. 2) Review "Unit 7: Principles of Per	your	Study techniques that will make you a more persuasive presenter. Work together with peers to improve your presentation focus.		
	1st	4th	Unit 7: Listener-Centered Commun Principles of Persuasion (Part Two) Critique a classmate's first draft. Homework: Revise and rehearse you presentation.		persúasive presei	ith peers to improve your	
	Quarter	5th	Presentation workshop Peer critiques Homework: Rehearse your present visualize/dream of having a perfect	ation and performance.	Work in groups to polish the forthco Complete peer ev	o help each other rehearse and oming "Initial Presentations." valuation forms.	
		6th	Initial Presentations (Part One) Homework: Write your self-reflection how you may have done a better In Presentation.	on report on nitial	confidence and ei	re presentation in English with nthusiasm. We will do the first ations in this class.	
		7th	Initial Presentations (Part Two) Homework: 1) Write your self-refle how you may have done a better In Presentation. 2) Read "Unit 2: Sizzle or Steak?"	ction report on nitial	Make a persuasiv confidence and er second 10 of 20 p	re presentation in English with nthusiasm. We will do the presentations in this class.	
1st Semeste r		8th	Unit 2: Sizzle or Steak? Adding pizazz to your presentation Homework: 1) Rewrite your presen transcript based on self-reflection, and teacher feedback. 2) Review "Unit 2: Sizzle or Steak?"	itation peer critiques,	delivery skills.	ocal, and verbal presentation ith peers to improve your tent.	
		9th	Unit 2: Sizzle or Steak? Adding pizazz to your presentation Final Presentation rehearsals (In cla homework) Homework: Read "Unit 3: Fear Fixe Nervousness"	ass and/or as	delivery skills.	ocal, and verbal presentation final presentation.	
		10th	Unit 3: Fear Fixes Conquering Nervousness (Part One Final Presentation rehearsals (In cla homework) Homework: Review "Unit 3: Fear F Conquering Nervousness"	ass and/or as	nervousness whe	s that may help you control your n you perform in front of an e for your final presentation.	
	2nd Quarter	11th	Unit 3: Fear Fixes Conquering Nervousness (Part Two) Final Presentation rehearsals (In class and/or as homework) Homework: Read "Unit 4: Listening: The Other Side of Speaking"		Practice exercises that may help you control your nervousness when you perform in front of an audience. Prepare for your final presentation.		
		12th	Unit 4: Listening: The Other Side o Becoming a better listener and help listen to you (Part One) Final Presentation rehearsals (In cla homework) Homework: Review "Unit 4: Listeni Side of Speaking"	oing others to ass and/or as	better listener an	s that may help you become a d help others to listen to you. final presentation.	
			13th	Unit 4: Listening: The Other Side o Becoming a better listener and help listen to you (Part Two) Final Presentation rehearsals (In cla homework)	oing others to	better listener an	s that may help you become a d help others to listen to you. final presentation.
		14th	Presentation workshop Peer critiques Homework: Rehearse your present visualize/dream of having a perfect	ation and performance.	Work in groups to polish the forthco Complete peer ev	o help each other rehearse and oving "Final Presentations." valuation forms.	

		15th	contest within the cla Summer Homework ( Choose a topic for a r	For Advanced English II): esearch conference e an abstract and summary	implementation of prese learned from this course The winners of the cont separately, without dire	Presentation grades will be determined by how well the presentation reflects the acquisition and implementation of presentation techniques learned from this course.  The winners of the contest will be determined separately, without direct references to the content taught in the course.		
		16th	No Test					
Evaluati	on Meth	od ar	d Weight (%)					
		Short Assignments/Reflective Writing	Initial Presentation	Final Presentation	Total			
Subtotal		30	30	40	100			
Professional Presentation Skills		ation	30	30	40	100		

Akashi Coll	ege	Year	2023		Course Title	Advanced English II
Course Information	on					
Course Code	5407			Course Category	General /	Compulsory
Class Format	Lecture			Credits	School Credit: 1	
Department		ınd Computer E İngineering Cou		Student Grade	4th	
Term	Second Se			Classes per Week	2	
Textbook and/or Teaching Materials	[Available	on paperback of	How to Deliver Yo or e-book], Morgan ed English I & II .	ur Message with Po James Publishing,	wer, Punch, a © 2019 by Di	nd Pizzazz (Third Edition) iane DiResta. This book is
Instructor	HERBERT .	John C.				
Course Objectives						
Mastering present     Writing stimulatin     Recognizing weak     Using Visual Aids     Handling question     Writing conference	ig presentations of the presses in presses i	tion content presentations a in a presentation audience skillfi	on	ting ideas for peer	and self-impro	ovement
Rubric						
		理想的な到達レ		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 Mastering presentatio skills	n delivery	Able to use co language, a st eye contact, a intonation and natural gestur presentation	rong voice, great ppropriate I stress, and	Able to show an a how to use body la voice projection, e intonation, stress, in a presentation	anguage, ye contact,	Cannot use body language, voice projection, eye contact, intonation, stress, or gestures appropriately in a presentation
評価項目2 Writing stimulating pr content	resentation	Able to write property	persuasive and esentation content	Able to show an a how to write persuinteresting presen	uasive and	Cannot write persuasive or interesting presentation content
評価項目3 Peer and self-critiquin	ıg	in peer critiqu	actful and riticism and advice es and to write out self-reflections	write   constructive criticism and advice		Cannot give tactful or constructive criticism or advice in peer critiques and not able to write sincere self-reflections
評価項目4 Using visual aids effectively in a presentation		Able to create aids that are e audience to lo understand		aids that are easy for the		Cannot create or properly use visual aids that are easy for the audience to look at and understand
評価項目5 Handling questions fro audience skillfully	om the	Able to handle questions fron audience tactf confidently	n a presentation	tactfully and confidently		Cannot handle questions from the audience with confidence
評価項目6 Writing conference pr	oposals		es as impressive	how to write research abstracts		Cannot write research abstracts or summaries in English
Assigned Departr	nent Obje	ectives				
Teaching Method						
Outline	Advance profession	d English II inval research con	olves the preparati ferences.	on and confident d	elivery of Engl	ish presentations designed for
		be several shoresentations.	rt assignments and	activities from the	textbook to p	repare students for their initial
Style	For Akashi with stude	Kosen student nts from other	s, the class will me NIT campuses in T	eet in the Global Te EAMs channels ass	rrace, but the igned to them	y may be asked to do group work during class time.
	Students f	dents from other NIT campuses, who have been accepted into this class, may join each class via TEAMs.				
	The final p	roject of this c eir work orally	ourse is an (in class in front of peers ar	s) online "Mock Res nd teachers.	search Confere	ence," where the students will
	  評価の対象	としない欠席条件	件(割合) 1/4以上の	欠課。		
Students must critique each other's work and self-reflect on each of their practice				actice presentation performances.		
Notice Students must not recycle their presentation content from or into any other presentation assignments or contests such as COCET's English Presentation Contest.			presentations for other class			
Whether the students participate in person or through a live camera projection, the teacher must be able see ALL of the participants engaged in relevant class time behavior throughout the duration of each class Otherwise, the teacher reserves the right to mark the student absent. Students joining via TEAMs must I their cameras on.					ut the duration of each class.	
Characteristics of	Class / D	Division in Le	earning	I		1
☐ Active Learning		☐ Aided by I	СТ	☑ Applicable to R	emote Class	☐ Instructor Professionally Experienced
Course Dis-						
Course Plan						

			Theme	Goals	
		1st	Unit 5: Research and Analyze Your Audience Designing an audience-centered presentation (Part One) Critique your classmate's conference proposal (From your summer homework: The research abstract and summary) Homework: 1) Rewrite your abstract and summary based on comments from your peers and your teacher. 2) Read/review "Unit 5: Research and Analyze Your Audience."	Practice exercises that may help you reach your audience effectively. Begin planning a mock conference presentation.	
		2nd	Unit 5: Research and Analyze Your Audience Designing an audience-centered presentation (Part Two) Homework: 1) Write a presentation outline. 2) Read "Unit 6: Building Your Presentation."	Practice exercises that may help you reach your audience effectively. Learn tips for writing a research presentation outline and organizing presentation content.	
		3rd	Unit 6: Building Your Presentation Structuring a research presentation (Part One) Critique a classmate's outline. Homework: 1) Write a first draft of your presentation. 2) Review "Unit 6: Building Your Presentation"	Organize the structure of your research presentation in a logical and systematic matter. Work together with peers to improve your presentation focus.	
	3rd Quarter	4th	Unit 6: Building Your Presentation Structuring a research presentation (Part Two) Critique a classmate's first draft. Homework: Revise and rehearse your presentation.	Organize the structure of your research presentation in a logical and systematic matter. Work together with peers to improve your presentation content.	
		5th	Presentation workshop Peer critiques Homework: Rehearse your presentation and visualize/dream of having a perfect performance.	Work in groups to help each other rehearse and polish the forthcoming "Initial Presentations." Complete peer evaluation forms.	
		6th	Initial Presentations (Part One) Homework: Write your self-reflection report on how you may have done a better Initial Presentation.	Present your research in English with confidence and enthusiasm. We will do the first 10 of 20 presentations in this class.	
		7th	Initial Presentations (Part Two) Homework: 1) Write your self-reflection report on how you may have done a better Initial Presentation. 2) Read "Unit 8: Seeing Is Believing."	Present your research in English with confidence and enthusiasm. We will do the second 10 of 20 presentations in this class.	
2nd Semeste r		8th	Unit 8: Seeing Is Believing Creating and using visual aids effectively (Part One) Homework: 1) Rewrite your presentation transcript based on self-reflection, peer critiques, and teacher feedback. 2) Review "Unit 8: Seeing Is Believing."	Create and practice using visual aids effectively. Work together with peers to improve your presentation content and visual aids.	
			9th	Unit 8: Seeing Is Believing Creating and using visual aids effectively (Part Two) Final Presentation rehearsals (In class and/or as homework) Homework: Read "Unit 9: Setting the Stage"	Create and practice using visual aids effectively. Work together with peers to improve your presentation content and visual aids. Prepare for your final presentation.
		10th	Unit 9: Setting the Stage Logistical considerations for setting up a presentation (Part One) Final Presentation rehearsals (In class and/or as homework) Homework: Review "Unit 9: Setting the Stage."	Consider ways to use the surroundings of your presentation stage to your advantage. Prepare for your final presentation.	
	4th	11th	Unit 9: Setting the Stage Logistical considerations for setting up a presentation (Part Two) Final Presentation rehearsals (In class and/or as homework) Homework: Read "Unit 10: Q&A, Difficult People, and Deadly Disasters."	Consider ways to use the surroundings of your presentation stage to your advantage. Prepare for your final presentation.	
	Quarter	12th	Unit 10: Q&A, Difficult People, and Deadly Disasters Handling question and answers calmly and effectively (Part One) Final Presentation rehearsals (In class and/or as homework) Homework: Review "Unit 10: Q&A, Difficult People, and Deadly Disasters."	Learn how to handle difficult audience members and difficult questions. Prepare for your final presentation.	
		13th	Unit 10: Q&A, Difficult People, and Deadly Disasters Handling question and answers calmly and effectively (Part Two) Final Presentation rehearsals (In class and/or as homework)	Learn how to handle difficult audience members and difficult questions. Prepare for your final presentation.	
		14th	Presentation workshop Peer critiques Homework: Rehearse your presentation and visualize/dream of having a perfect performance.	Work in groups to help each other rehearse and polish the forthcoming "Final Presentations." Complete peer evaluation forms.	

	1	5th	Final presentation in t research conference v	he context of a mock vithin the class	Presentation grades will well the presentation re implementation of preselearned from this course	be determined by how flects the acquisition and entation techniques
	1	6th	No Test			
Evaluati	Evaluation Method and Weight (%)					
Short				Final Presentation	Total	
Subtotal 3		30		30	40	100
Professional Presentation Skills		ion 30		30	40	100

Akashi College		Year	2023	2023		Chinese-1			
Course	Informat	ion							
Course Co	ode	5408			Course Categor	y General ,	/ Elective		
Class Forr	mat	Lecture			Credits	School C	redit: 1		
Departme	ent		nd Computer ngineering Co		Student Grade	4th			
Term		First Seme	ster		Classes per Wee	Week 2			
Textbook Teaching	Matérials			国語」朝日出版社.					
Instructor ARIKAWA Kei									
	Objective								
②挨拶や日	常会話など	、身の回りの	事を実用的な中	の規則を応用できる 国語で表現でき、簡 解を深めていきます	単な中国語でコミ:	と読解力を養うよ ュニケーションを	うに目指します。 取れることを目指します。		
Rubric					_				
			理想的な到達し		標準的な到達レク		未到達レベルの目安		
評価項目1			的な語彙と文法	マスターし、基礎 たの規則を応用でき 話力と読解力を十 る。	中国語の発音をでいるようにし、会記している。	対則を応用でき	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			事を実用的な中 簡単な中国語で	いからなど、身の回りの 中国語で表現でき、 で十分にコミュニケいことができる。	挨拶や日常会話な事を実用的な中国 簡単な中国語でコンを取ることがで	語で表現でき、 1ミュニケーショ	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				が生活習慣、中国 上解を十分深めてい	中国人の考え方や文化に対する理解	·生活習慣、中国	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	d Depart	ment Obje	ectives		•				
	g Method								
Outline	<u></u>	外国語の勉 焦らずにし ことを目指	外国語の勉強に肝心なのは発音と言われています。中国語も例 焦らずにしっかりとレベルアップを図りながら、「聞く」「話 ことを目指します。また、中国の社会や文化などにも触れなが 異文化への理解も深めていきます。			ではありません。 「読む」「書く よりスムーズに	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		①事前に予習を行い、学習ポイント把握したうえで授業に臨むこと。 ②授業に積極的に参加すること。 ③発声練習、会話練習にしっかり取り組むこと。 ④予習時に生じた疑問や、授業中に理解できない事項は質問をすること。 連絡員:井上英俊							
Notice		①学習ポイ ②授業で学 ③テキスト	ントを把握し授 習した後に必ず の添付CDや音声	学習が必要である。 業の理解度を高める。 復習を行うこと。 『ストリーミングURL 件(割合) 1/4以上の	を活用し、中国語		東習すること。		
Charact	eristics o	•	ivision in L						
☐ Active			☐ Aided by I		☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
Course		Tł	neme			Goals			
			·····································			<del></del>			
	l t		音4、5				と伴う母音を学ぶ。		
				:日本人ですか?			)聞き方と答え方、動詞述語文を学ぶ		
	1st	4th 第	1課 文法のま	ことめ		<u>。</u> 練習Ⅰ、Ⅱを学ぶ	 No		
	Quarter			何を学びますか?			副詞「也」、疑問詞「什么」を学ぶ		
		6th 第	2課 文法のま	ことめ	;	<u>。</u> 練習Ⅰ、Ⅱを学ぶ			
		7th 第	3課 あなたは	:最近どうですか?		形容詞述語文、「」+動詞、副詞「都」を学ぶ。			
1st		8th 復	習と中間テスト			既習内容を復習する。			
Semeste r		9th 第	3課 文法のま	とめ		練習Ⅰ、Ⅱを学ぶ	N <sub>0</sub>		
		10th 第	4課 これはど	なたの辞書ですか?		指示代詞、量詞、	反復疑問文を学ぶ。		
		11th 第	4課 文法のま	とめ	:	練習Ⅰ、Ⅱを学ぶ	N <sub>0</sub>		
	2nd	12th 第	 5課 彼はいつ	北京に来ますか?		 時間の言い方、 +場所+動詞を学	 「吧」の使い方、「去/来/回/到」 ≠ぶ。		
		13th 第	5課 文法のま	とめ		<u>・ ※/// ・ 新からとう</u> 練習Ⅰ、Ⅱを学ぶ			
		14th 第	6課 図書館は	:どこにありますか?		「有」と「在」、主述述語文、「几」と「多少」を学			
			<u> </u>			ぶ。 復習と質問応答を			
			<del>烈秘&amp;との</del> 末試験			復習と質問応答を実施する。			
Evaluati	l	od and We			<u>'</u>				
		定期試	_ `	小テスト	並	 常点	Total		

Subtotal	60	20	20	100
基礎的能力	60	20	20	100
専門的能力	0	0	0	0
分野横断的能力	0	0	0	0

Akashi College		Year	2023		Course Title	Chinese-2		
Course	Informat	ion						
Course Co	ode	5409			Course Categor	ry Genera	/ Elective	
Class Forr	mat	Lecture			Credits	School	Credit: 1	
Departme	ent	Electrical	and Computer E Engineering Cou		Student Grade	4th		
Term		Second S	emester		Classes per We	eek 2		
Textbook Teaching	Matérials			国語」朝日出版社.				
Instructor		ARIKAWA	Kei					
①中国語の ②挨拶やE	常会話など	ターし、基礎 、身の回り <i>0</i>	)事を実用的な中[	の規則を応用できる 国語で表現でき、簡 解を深めていきます	単な中国語でコミ	と読解力を養う。 ユニケーション <sup>。</sup>	ように目指します。 を取れることを目指します。	
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			的な語彙と文法	マスターし、基礎 の規則を応用でき 話力と読解力を十 。	中国語の発音をない 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	的な語彙と文法の規則を応用でき	
評価項目2			事を実用的な中	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。	挨拶や日常会話が 事を実用的な中間 簡単な中国語で ンを取ることが	国語で表現でき、 コミューケーシ=	事を実用的な中国語で表現でき、	
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	d Depart	ment Obj	ectives					
Teachin	g Metho	d						
Outline		一ことを目指	強に肝心なのは かっかりとレベルで します。また、「 理解も深めている	P国の社会や文化なる	す。中国語も例外 、「聞く」「話す どにも触れながら	ではありません。 」「読む」「書・ 、よりスムーズ(	この授業では、発音を丁寧に学び、 く」の能力をバランスよく身につける こコミュニケーションを取れるように	
Style		②授業に積  ③発声練習	極的に参加する。 3、会話練習にして 生じた疑問や、打	ポイント把握したうだと。 こと。 こかり取り組むこと。 受業中に理解できなり	<b>5</b>			
Notice		①学習ポイ  ②授業で学  ③テキスト	´ントを把握し授ӭ 望した後に必ずん の添付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。 ストリーミングURL 牛(割合) 1/4以上の	_を活用し、中国語		練習すること。	
Charact	eristics c	•	Division in Le					
☐ Active		,	☐ Aided by I		☑ Applicable to a point of the point of	o Remote Class	☐ Instructor Professionally Experienced	
	DI.							
Course	Pian	I <sub>T</sub>	'h a ma a			Capla		
			heme 前期内容の復習			Goals 前期の内容を復	翌まる	
		2nd 5		紅茶を飲みますかそ	れとも緑茶を飲	前期の内容を復習する。 A「是」B、「想」+動詞/「要」+動詞、比較の表現を学ぶ。		
			<u>73、7% :</u> 87課 文法のま	 とめ		練習Ⅰ、Ⅱを学		
	3rd	4th §	88課 あなたは	 どれが好きですか?		疑問詞「哪」、	動詞の重ね型、主題化目的語を文頭に	
	Quarter		88課 文法のま			出す表現を学ぶ 練習Ⅰ、Ⅱを学		
					•		<del>小。</del> 、様態補語を導く「得」、「怎么」を	
				毎日何時間寝ますか	1	学ぶ。		
2nd			9課 文法のま	とめ		練習Ⅰ、Ⅱを学		
Semeste			習と中間テスト			既習内容を復習		
r			第10課 あなた  第10課 文法の:	はさっきどこに行き  キャぬ	ましたか?	「又」「再」「		
				<u>よこの</u> は何をしていますか	. 7	練習Ⅰ、Ⅱを学ぶ。 進行と持続のアスペクト、「一会儿」「有点儿」「一		
	4th		511課 めなた 第11課 文法の	-	. t	点儿」、「打算」+動詞を学ぶ。 練習Ⅰ、Ⅱを学ぶ。		
	Quarter			<sub>まこめ</sub> は車の運転ができま	<b>ーーーー</b> すか?		 能」「可以」、二重目的語、禁止の表	
		14th 5	 第12課 文法の:	 まとめ		現「別/小多 練習Ⅰ、Ⅱを学		
			<u> </u>	<u> </u>		復習と質問応答		
			月末試験					

Evaluation Method and Weight (%)									
	定期試験	小テスト	平常点	Total					
Subtotal	60	20	20	100					
基礎的能力	60	20	20	100					
専門的能力	0	0	0	0					
分野横断的能力	0	0	0	0					

А	.kashi Co	ollege	Year	2023		Course Title	German-1		
Course	Informa	tion	1			,	ı		
Course Co		5410			Course Categor	y General	/ Elective		
Class Forr	mat	Lecture			Credits	Credit: 1			
Departme	ent		l and Computer I I Engineering Co		Student Grade	4th			
Term		First Sen			Classes per Week 2				
Textbook Teaching		DVDわか	るぞドイツ語!見	えるぞドイツ語!	春日正男、松澤淳	(朝日出版社)			
Instructor	-	YOKOTA	Kazuya						
Course	Objectiv	'es							
of a dictio	nary. is to be a is to have	ble to expre	ess things around	d them in simple G	erman, using wh	at they learned	Itermediate German with the help I in interactive practice. Ing German reading materials on		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	ent 1		Clearly unders sentence structure and can read German with dictionary.	cture and rules, intermediate	Clearly understa sentence struct and can read in German to som the help of a die	ure and rules, termediate e extent with	Do not clearly understand German sentence structure and rules, and cannot read intermediate German even with the help of a dictionary.		
Achievem	ent 2		Can express t them in Germ they learned i practice.	an, using what	Can express thi them in simple what they learn	German, using	Cannot express things around them in simple German.		
Achievem	ent 3		of the Germar and lifestyle th	neir understanding n way of thinking nrough reading ng materials on ns.	Can deepen the of the German and lifestyle to through reading reading materia conditions.	way of thinking a certain exten g German	understanding of the German		
Assigne	d Depar	tment Ob	jectives						
Teachin	g Metho	od							
Outline		German interactiv German	reading, writing, ve practice that ι that is practical a	listening, and spea use the grammar to	aking abilities. W opics in each sec on, students will	hen learning g tion will be inco improve their (	d to balance students' overall rammar, we will incorporate many orporated so students can learn German reading comprehension social conditions.		
Style		In addition		ot of interactive pr			students will also improve reading		
Notice		(1) Durir those the	ng the first class, at they think will	a few dictionaries be easy to use and r more of classes w	d bring it to the o	class every time	ould choose a dictionary from e. (2) Properly do the assignments		
Charact	eristics (		Division in Le		viii riot be eligible	e for evaluation	•		
☐ Active		01 01000 7	☐ Aided by I		☐ Applicable to Remote Class ☐ Instructor Professionally Experienced				
Course	Plan					<u> </u>			
		1st	Theme	German and Germa		Goals	e alphabet and pronunciation rules.		
				German and Germa	unv/		onunciation rules and greeting		
		3rd	Lektion 1			•	erstand present tense personal verbs.		
	1st Quarter	4th	Lektion 1			Grammar: Und	erstand German word order.		
	Quarter		Lektion 1				rstand Japan inside Germany.		
		6th	Lektion 1			Grammar: Understand sein and haben.			
1st Semeste		7th	Lektion 2			Grammar: Und nouns.	erstand the gender and number of		
r		8th	Lektion 2				rstand German beer and wine.		
		9th	Lektion 2			Grammar: Und and nouns.	erstand case inflections of articles		
		10th	Lektion 3		<u> </u>		rstand Berlin		
	2nd					Reading: Understand Berlin  Grammar: Understand irregular verbs and the			
	2nd Ouarter	11th	Lektion 3			Grammar: Und	nd		
	2nd Quarter		Lektion 3 Lektion 4			imperative mod	erstand Europe and the EU.		

	14th	Lektion 5	ektion 5			Reading: Understand the part-time jobs of German youth.			
	15th	Review	Review			Review the content learned in the first semester.			
	16th	Final exam			Understand the content learned.				
Evaluation N	Method and \	Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total		
Subtotal	50	0	0	30	0	20	100		
Basic Proficiency	50	0	0	30	0	20	100		
Specialized Proficiency	0	0	0	0	0	0	0		
Cross Area Proficiency	0	0	0	0	0	0	0		

А	Akashi College Year 2023			Course Title	German-2			
Course 1	Informa	tion						
Course Co	ode	5411			Course Category		' Elective	
Class Forn	mat	Lecture			Credits	School C	edit: 1	
Departme	ent		I and Computer I I Engineering Co		Student Grade	4th		
Term			Semester		Classes per Wee	k 2		
Textbook Teaching		DVDわか	るぞドイツ語!見	えるぞドイツ語!	春日正男、松澤淳	(朝日出版社)		
Instructor		YOKOTA	Kazuya					
Course (	Objectiv	es						
of a diction  The goal	nary. is to be a is to have	ble to expre	ess things aroun	d them in simple Ge	erman, using wha	t they learned	rermediate German with the help in interactive practice.  g German reading materials on	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievemo	ent 1		sentence struand can read German with dictionary.	the help of a	Clearly understar sentence structu and can read into German to some the help of a dict	re and rules, ermediate extent with	Do not clearly understand German sentence structure and rules, and cannot read intermediate German even with the help of a dictionary.	
Achievem	ent 2		Can express t them in Germ they learned i practice.	an, using what	Can express thin them in simple G what they learne	Serman, using	Cannot express things around them in simple German.	
Achievem	ent 3		of the German	heir understanding n way of thinking hrough reading ng materials on ons.	Can deepen their of the German wand lifestyle to a through reading reading materials conditions.	ay of thinking certain extent German	understanding of the German	
Assigne	d Depar	tment Ob	ojectives					
Teachin	g Metho	od						
Outline Style		German interacti German and incre In additi compreh	reading, writing, ve practice that is that is practical ease knowledge on to classes, a l pension through i	, listening, and spea use the grammar to and alive. In additio of Germany throug lot of interactive pra	aking abilities. Whopics in each section, students will in hreading materia	nen learning gr on will be inco mprove their G ils on German	I to balance students' overall ammar, we will incorporate many reporated so students can learn erman reading comprehension social conditions.  Students will also improve reading	
Notice		(1) Durii those th	at they think will	, a few dictionaries be easy to use and or more of classes w	d bring it to the cl	ass every time	uld choose a dictionary from . (2) Properly do the assignments	
Charact	eristics	•	Division in Le		THE THE CHIGIDIE	TOT CVAIGACIOTII		
☐ Active			☐ Aided by I		☐ Instructor Professiona Experienced			
Course I	Plan							
Course	i iuii		Theme		G	Goals		
		1st	Lektion 5		G	Grammar: Unde	erstand personal pronouns.	
		2nd	Lektion 5		G	Grammar: Unde	erstand prepositions.	
		3rd	Lektion 6					
			LEKTION 0			leading: Under	stand German bakeries.	
		4th	Lektion 6		G	leading: Under	stand German bakeries. erstand modal verbs and the	
	3rd Quarter	4th 5th			G ft G	leading: Under Grammar: Unde Liture tense. Grammar: Unde		
			Lektion 6		G fi G c	leading: Under Grammar: Under Lature tense. Grammar: Under Conjunctions. Leading: Under	erstand modal verbs and the	
		5th 6th	Lektion 6 Lektion 6 Lektion 7		G fu G c R G	leading: Under Grammar: Under Strammar: Under Grammar: Under Onjunctions. Leading: Under Germany.	erstand modal verbs and the erstand subordinating stand the travel situation in	
		5th	Lektion 6		G fu C C R G G	leading: Under Grammar: Under Strammar: Under Onjunctions. Leading: Under Grammar: Under Grammar: Under	erstand modal verbs and the erstand subordinating	
		5th 6th 7th	Lektion 6  Lektion 7  Lektion 7		G G C C G G G	leading: Under Grammar: Under Strammar: Under Onjunctions. Leading: Under Grammar: Under Grammar: Under	erstand modal verbs and the erstand subordinating stand the travel situation in erstand separable verbs. erstand reflexive verbs.	
		5th 6th 7th 8th	Lektion 6  Lektion 7  Lektion 7  Lektion 7		G G C C G G G G	Leading: Under Carammar: Under	erstand modal verbs and the erstand subordinating stand the travel situation in erstand separable verbs. erstand reflexive verbs.	
	Quarter	5th 6th 7th 8th 9th	Lektion 6  Lektion 7  Lektion 7  Lektion 7  Lektion 8		G fi G C R G G G R	leading: Under Grammar: Under Juture tense. Grammar: Under Juder Juder Grammar: Under Juder Grammar: Under Jud Jud Jud Jud Jud Jud Jud Jud Jud Jud	erstand modal verbs and the erstand subordinating stand the travel situation in erstand separable verbs. erstand reflexive verbs. stand Munich.	
2nd Semeste r		5th 6th 7th 8th 9th 10th	Lektion 6  Lektion 7  Lektion 7  Lektion 7  Lektion 8  Lektion 8		G fi G C R G G R C G R	leading: Under frammar: Under tense. Frammar: Under der der der der der der der der der	erstand modal verbs and the erstand subordinating stand the travel situation in erstand separable verbs. erstand reflexive verbs. stand Munich. erstand case inflections of stand Oktoberfest in Munich. erstand the three basic forms and	
	Quarter 4th	5th 6th 7th 8th 9th 10th 11th	Lektion 6  Lektion 7  Lektion 7  Lektion 7  Lektion 8  Lektion 8  Lektion 9		G fit G C C C C C C C C C C C C C C C C C C	teading: Under frammar: Under tense. Frammar: Under tense of verse frammar: Under tense frammar: Un	erstand modal verbs and the erstand subordinating stand the travel situation in erstand separable verbs. erstand reflexive verbs. stand Munich. erstand case inflections of stand Oktoberfest in Munich. erstand the three basic forms and	

	15th	Review			Review the conte semester.	ent learned in the	second		
	16th	Final exam			Understand the content learned.				
Evaluation Method and Weight (%)									
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total		
Subtotal	50	0	0	30	0	20	100		
Basic Proficiency	50	0	0	30	0	20	100		
Specialized Proficiency	0	0	0	0	0	0	0		
Cross Area Proficiency	0	0	0	0	0	0	0		

Akashi College		ollege	Year	Year 2023			ourse Fitle	French-1
Course 1	Informa	tion						
Course Co		5412			Course Categor			/ Elective
Class Forr	nat	Lecture	10 : -		Credits		School C	Credit: 1
Departme	nt		and Computer E Engineering Cou		Student Grade	4th		
Term		First Sem	nester		Classes per We	ek	2	
Textbook Teaching		釣馨・武区	内英公子『私だけの	のフランス語ノート。	』朝日出版社			
Instructor		FUJIMOT	O Tomonari					
Course	Objectiv	es						
Internatio way to lea coexistend	nalization arn differe	does not m nt cultures i	ake the world ur	niform, but it requi	res diverse cultu	ires to d	co-exist.	ecome increasingly important. From the perspective that the best r a multicultural and multilingual
Rubric			T		I.—			
			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			Learn the basi proficiency by French langua	learning the	Learn the basic proficiency by I French languag	earning ge struc	the ture.	Do not learn the basic French proficiency by learning the French language structure.
評価項目2			Learn the basi proficiency by vocabulary.	ic 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	評価項目3			on for a and multilingual ociety through ch.	Can take action multicultural ar coexistence socilearning French	nd mult ciety thi		Cannot take action for a multicultural and multilingual coexistence society through learning French.
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho	d						
Outline	In this course, students will learn the basics of French communication. The French language structure, or so called grammar, have many rules, and it seems complicated at first glance, such as the relationship betwee spelling and pronunciation, the rules on the gender of nouns, and the verb conjugation. However, if you become master them to some extent, your horizon will suddenly broaden, and you can communicate fairly well with a few vocabularies. While learning the basic expressions of everyday conversation, such as how to introduce yourself and seasonal greetings, the class aims to help students achieve a balanced mastering of the four skills: listening, speaking, reading, and writing.  After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiency.							
Style		Liaison: (	Chiho Kitagawa	grammar and voca	bulary, students	Will do	practice	questions to acquire proficiency.
Notice		imaginati	ion of the learne ore time for revie	languages, it's imp rs, so active partic ew rather than for r more of classes v	ipation in classe: pre-study.	s is requ	uired. Als	innate communication skills and so, students are encouraged to
Charact	eristics o	•	Division in Le					
□ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	to Remote Class		
Course	Dlan							
Course	riall	-	Theme			Goals		
		1st	Guidance: How o	classes will be cond tions about France	ducted / and the French	Unders	stand the neral cha languag	e overview of classes. Understand aracteristics of France and the le.
								nch words and greet.
			•	abet and pronuncia	ation / Greeting			
	1st	4th	Lesson 1: Let's in	ntroduce yourself!		Make simple verb conjugation. Say names of European countries and cities in French.		
	Quarter			ntroduce yourself!				nselves in French.
			Lesson 2: Let's t anguages!	alk about nationali	ties and	Unders	stand the	e basic rules of the gender of
1st		7th		alk about nationali	ties and		to name: itions, ar	s, nationalities, towns, nd words of others.
Semeste r		8th I	Review			Unders	standing d so far.	the weak points on the content
		9th I	Lesson 3: Let's t	alk about things ar	round you!	Increas		ocabulary and talk about things
		10th I	Lesson 3: Let's t	alk about things ar	round you!	its spe	cialties.	p to 20. Say regions of France and
	2nd	11th I	Lesson 4: Let's t	alk about your fam	nily! (1)	Use nu faire.	ımbers u	p to 69. Use the verbs avoir and
	Quarter	12th	Lesson 4: Let's t	alk about your fam	nily! (1)	other p	people's t	ages and occupations of their and family members.
		13th	Lesson 5: Let's t	alk about your fam	nily! (2)	Talk at	oout the amily me	characteristics and personalities of mbers.
		14th	esson 5. Let's t	alk about your fam	nily! (2)		clothes	

	15th	Lesson 6: Let	t's talk about thing	s you like!	Talk about things	Talk about things they like.			
	16th	Final exam			Speak and write since week 9.	Speak and write based on the content learned since week 9.			
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	30	0	20	100		
基礎的能力	50	0	0	30	0	20	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		

Course Information Course Code	nt tense		
Lecture	nt tense		
Electrical and Computer Engineering   Student Grade   4th   Term   Second Semester   Classes per Week   2   で表でいる Semester   では、	nt tense		
Electrical Engineering Course	nt tense		
Textbook and/or Teaching Materials	nt tense		
Teaching Materials Instructor FUJIMOTO Tomonari  Course Objectives  This course aims to apply and expand on the "French -1" course offered in the previous semester. The specific objectives understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the press (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change acc the number and gender of nouns; and 4. to be able to think about the meaning of simple sentences and to form simple s Rubric    理想的な到達レベルの目安	nt tense		
Instructor   FUJIMOTO Tomonari	nt tense		
This course aims to apply and expand on the "French -1" course offered in the previous semester. The specific objectives understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the prese (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change acc the number and gender of nouns; and 4. to be able to think about the meaning of simple sentences and to form simple s Rubric    Page	nt tense		
understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the prese (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change acc the number and gender of nouns; and 4. to be able to think about the meaning of simple sentences and to form simple s Rubric    Pattern	nt tense		
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   未到達レベルの目安   非価項目1	ording to entences.		
Learn the basic French proficiency by learning the proficiency by learning French language structure.    Learn the basic French proficiency by learning French language structure.    Learn the basic French proficiency by learning French vocabulary.    Can take action for a multicultural and multilingual coexistence society through learning French.    Assigned Department Objectives   Teaching Method   While reviewing the contents of the first semester, students will learn grammatical items that are advanced than those of the first semester are based on the contents of the first semester, students will operative be gradually acquire proficiency by focusing on review. We expect the active participation of st After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiency by focusing on review. We expect the active participation of st In order to learn foreign languages, it's important to make the most of the innate communications in againation of the learners, so active participation in classes is required. Also, students are encouraged more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.    Characteristics of Class / Division in Learning   Active Learning   Aided by ICT   Applicable to Remote Class   Instructor Profess   Instructor Profess   Review of the topics covered in the first semester, Can speak and write in French based of the proficiency by graining french   Proficiency by Instructor Profess   Instructor Profess   Review of the topics covered in the first semester, Can speak and write in French based of the proficiency by Instructor Profess			
French languáge structure. French languáge structure the structure to proficiency by foarmant to proficiency by foarmaning French.  Can take action for multituitural and multilingual coexistence society through learning French.  Can tokte action for multituitural and multilingual coexistence society through learning French.  Can tokte action for amultituitural and multilingual coexistence society through learning French.  Can tokte action for multituitural and multilingual coexistence society through learning French.  French languáge structure to bor successite sequitable to search proficiency by foarmanic society successitence society learning French.  Can take action for multituitural and multilingual coexistence society through learning French.  Can take action for amultituitural and multituitural and multi	French		
上earn the basic French proficiency by learning French vocabulary.  Can take action for a multicultural and multilingual coexistence society through learning French.  Assigned Department Objectives  Teaching Method  While reviewing the contents of the first semester, students will learn grammatical items that are a advanced than those of the first semester are based on the contents of the semester are based on the contents of the first semester are based on the contents of the first semester are based on the contents of the first semester, able to gradually acquire proficiency by focusing on review. We expect the active participation of st Liaison: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication singuiant on of the learners, so active participation in classes is required. Also, students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Learn the basic French proficiency by learning French vocabulary.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society through learning French.  Can take action for a multicultural and multilingual coexistence society t	g the cture.		
multicultural and multilingual coexistence society through learning French.   multicultural and mul	c French		
Teaching Method  Outline  While reviewing the contents of the first semester, students will learn grammatical items that are a advanced than those of the first semester. There is indeed a lot to memorize in elementary gramm since the contents of the second semester are based on the contents of the first semester, student able to gradually acquire proficiency by focusing on review. We expect the active participation of st After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiency. The profice of the innate communication of the learn foreign languages, it's important to make the most of the innate communication of the learners, so active participation in classes is required. Also, students are encouraged more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Profess Experienced  Course Plan  Theme  Goals  Review of the topics covered in the first semester, Can speak and write in French based of	tilingual		
Outline  While reviewing the contents of the first semester, students will learn grammatical items that are a advanced than those of the first semester. There is indeed a lot to memorize in elementary gramm since the contents of the second semester are based on the contents of the first semester, student able to gradually acquire proficiency by focusing on review. We expect the active participation of st After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiations. Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication in simagination of the learners, so active participation in classes is required. Also, students are encouraged more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Theme  Goals  Review of the topics covered in the first semester, Can speak and write in French based on the contents of the innate communication in classes is required. Also, students are encouraged in the first semester, Can speak and write in French based on the contents of the first semester.			
Outline advanced than those of the first semester. There is indeed a lot to memorize in elementary gramm since the contents of the second semester are based on the contents of the first semester, student able to gradually acquire proficiency by focusing on review. We expect the active participation of st Style After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiency. Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication in classes is required. Also, students are encouraged spend more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Active Learning  Theme  Goals  Review of the topics covered in the first semester, Can speak and write in French based on the contents of the instructor profess in the first semester, Can speak and write in French based on the contents of the first semester.			
After explanation of the grammar and vocabulary, students will do practice questions to acquire problems.  In order to learn foreign languages, it's important to make the most of the innate communication in classes is required. Also, students are encouraged more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Aided by ICT  Applicable to Remote Class  Instructor Profess Experienced  Course Plan  Theme  Goals  Review of the topics covered in the first semester, Can speak and write in French based of	ar, but s should be		
Notice  In order to learn foreign languages, it's important to make the most of the innate communication s imagination of the learners, so active participation in classes is required. Also, students are encoural spend more time for review rather than for pre-study. Students who miss 1/4 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Aided by ICT  Applicable to Remote Class Experienced  Course Plan  Theme  Goals  Review of the topics covered in the first semester, Can speak and write in French based o			
Characteristics of Class / Division in Learning  □ Active Learning □ Aided by ICT □ Applicable to Remote Class □ Instructor Profess Experienced  Course Plan □ Theme □ Goals □ Review of the topics covered in the first semester, Can speak and write in French based o	cills and ged to		
□ Active Learning □ Aided by ICT □ Applicable to Remote Class □ Instructor Profess Experienced □ Course Plan □ Theme □ Goals □ Review of the topics covered in the first semester, Can speak and write in French based o			
Theme Goals Review of the topics covered in the first semester, Can speak and write in French based o	onally		
Theme Goals  Review of the topics covered in the first semester, Can speak and write in French based o			
Review of the topics covered in the first semester, Can speak and write in French based o			
l land warm up for the second semester looptent learned in the first semester	ı the		
Can talk about broakfact. Can use the	content learned in the first semester.  Can talk about breakfast. Can use the verb		
prendre. Can explain French cuisine.			
3rd Lesson 8: Let's go on a trip! Can talk about destinations. Can talk a transport options. Can use sentences in future tense.	out the near		
Quarter 4th Lesson 9: Let's talk about the weather! Can speak using weather expressions.			
5th Lesson 9: Let's say the time and duration! Can say the time and duration.			
6th Lesson 10: Let's compare. Can speak using comparison expression			
amount of shopping.	<del>                                     </del>		
2nd Semeste 8th Review Understanding the weak points on the learned so far.	<del></del>		
9th Lesson 11: Let's ask the way! Can use command forms. Can give dire	content		
10th Lesson 12: Let's explain what you do on a day! Can create sentences using pronomina the present tense.	ctions.		
11th Lesson 12: Let's explain what you do on a day! Can talk about what they do on a norm	ctions.		
Can talk about customs of the French p	ctions. verbs in		
4th Quarter 13th Lesson 14: Let's talk about what you did during Understand how to form the perfect te avoir, and can use it.	ctions. verbs in al day. eople. Can		
Lesson 15: Let's talk about what you did during Understand how to form the perfect te imperfect tense using être, and can use	ctions. verbs in al day. eople. Can pronouns.		
Can talk about what they did yesterday what they do on a normal day learned 12.	ctions. verbs in al day. eople. Can pronouns. nse using		

	16th	Final exam							
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	30	0	20	100		
基礎的能力	50	0	0	30	0	20	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		

Akashi C	ollege	Year	2023		Course Title	Mathematical Concepts	
Course Informa	ation						
Course Code	5414			Course Categor	y General	/ Elective	
Class Format	Lecture			Credits	School C	Credit: 1	
Department	Electrical a Electrical E	nd Computer Engineering Cou	ngineering rse	Student Grade			
Term	Second Ser	mester		Classes per Wee	ek 2		
Textbook and/or Teaching Materials	碓氷久ほか	大学編入のため	の数学問題集(大日)	日本図書			
Instructor	MATSUMIY	A Atusi					
(3) 微積分の諸概   (4) 抽象的枠組を	を理解し、確実 概念を理解し、復 念を理解し、確 見体的問題に適り	テ列やベクトルに 実な計算を身にて 用する能力を獲得	関する確実な計算 Dけ、いろいろな問題 引し、適切な試験答	を身につけ、いろい 題をこなせるよう( 案の作りかたを身(	ハろな問題をこた	îせるようになること。	
以上いずれについて	も、各国の小試験	沢乙州不武殿によ	、リ连风反ではかる。	0			
Rubric	İ		<u> </u>	標準的な到達レヘ		 未到達レベルの目安	
評価項目1		確率の諸概念を		確率の諸概念を理算を身につけいる くことが出来る。	 理解し、確実な計	確率の諸概念を理解できず、確実	
評価項目2		線型代数の諸概; 行列やベクトル( 算を身につけい。 分解くことが出	こ関する確実な計 ろいろな問題を十	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。	「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	
評価項目3		微積分の諸概念 実な計算を身に 題を十分解くこ。	を十分理解し、確 つけいろいろな問 とが出来る。	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		
評価項目4		抽象的枠組を具作る能力を十分獲行	体的問題に適用す 导している。	抽象的枠組を具体	k的問題に適用す 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 Depa	rtment Obje	ctives					
Teaching Metho	bd						
Outline	高専で学習しって数学的に 臨む学生の	」た数学に初歩の 能力を高め、さら 受験対策の機会に	)確率論の学習を含む に高度な数学に親し もなるようにしたし	め、これらに関して しめる能力を身にて 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	課題提出をも	5とに、講義や質	間を行い確認小試験	験を行う。			
Notice	ように心がい として有効い	ナ、講義の進行と こはならないので	は別に各自でどん。	どん学習を進めてい	自分が必要とな いくべきである。	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	
Characteristics	•		•				
☑ Active Learning	,	☑ Aided by IC	<b>-</b>	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
			· · · · · · · · · · · · · · · · · · ·				
Course Plan		eme			Goals		
	基础	遊数学の復習 1	h⇔∧の中穴/=へ; :=			turneのレブレフ	
	演	習をおこなう。	女学Aの内容についる	こ、仮首と问起 :	基礎数学の内容を理解している。		
	2nd 1:	礎数学の復習 2 年次に学習した数 習をおこなう。	女学Bの内容についる	て、復習と問題	基礎数学の内容を理解している。		
	3rd - ラ		こついて、復習と問	題演習をおこな	1変数関数の微分について理解している。		
2nd 3rd Semeste	4th -	変数関数の積分 変数関数の積分に 。	こついて、復習と問	題演習をおこな	1変数関数の積分について理解している。		
r Quarter	ります。 5th 数数 ラ・	数の展開 列の極限、級数と -展開について、	ごべき級数、テイラ 復習と問題演習を	ーの定理とテイ おこな <u>う。</u>	 関数の展開につい	ハて理解している。	
	多 6th 主	変数関数の微積を	♪(1) 対の、偏微分、極値		多変数関数の微分について理解している。		
	多 7th 主	変数関数の微積分		、計算法と利用	多変数関数の積分	分について理解している。	
	346 課	 摂	まずべき分野を確認 はすべき分野を確認	する。	適切な試験答案の	の作り方を身につける。	
1	, , , , , ,						

	4th Quarter	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、問題演習をお	をおこなう。また 関題や、連立微分方	基本的な型から	簡単な1階線形微分方程式を解くことができる。定数 係数2階斉次線形微分方程式を解くことができる。				
		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解くことが出来る。				
		12th	線形変換 線形変換とその表現行列、行列の固有値と固有ベクト ル、行列の対角化について、復習と問題演習をおこな う。			線形変換、固有値と固有ベクトルに関する問題を解く ことが出来る。				
		13th	ベクトル空間 ベクトル空間、部分空間、基底・次元、線形写像につ いて、やや抽象的な問題の復習と演習をおこなう。			ベクトル空間、部分空間、基底・次元、線形写像に関 する問題を解くことが出来る。				
		14th	確率 古典的確率概念と具体的問題 素朴な確率概念と、条件つき確率や期待値などの概念 を学び、具体的な問題の例をとりあげる。			独立試行の確率、余事象の確率、確率の加法定理、排 反事象の確率を理解し、簡単な場合について、確率を 求めることが出来る。条件付き確率、確率の乗法定理 、独立事象の確率を理解し、簡単な場合について確率 を求めることが出来る。				
		15th	複数の分野にまたか	まざまな複合的問題 数の分野にまたがる知識を必要とする問題をいくつ とりあげ、問題演習をおこなう。			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							
Evaluation Method and Weight (%)										
=======================================		倹	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		

Akashi College			Year	Year 2023			ourse Title	Overseas Training II	
Course	Informa	tion							
Course Code 5415					Course Categor	Course Category General /		Élective	
Class Format		Practical t	Practical training				School Credit: 1		
Departme	ent		Electrical and Computer Engineering Electrical Engineering Course				4th		
Term		Year-roun	Year-round			ek	1		
Textbook Teaching									
Instructor	-	All faculty	of the departme	ent					
Course	Objectiv	es							
(2) Can d	evelop a b	road perspe	ctive by participa	skills through par ating in training in e local area using	different culture	ning ov s.	erseas.		
Rubric			1		T				
			Ideal Level		Standard Level			Unacceptable Level	
Achievement 1			Can fully make efforts to increase knowledge and skills through participating in training overseas.		Can make efforts to increase knowledge and skills through participating in training overseas.		hrough	Cannot make efforts to increase knowledge and skills through participating in training overseas.	
Achievement 2			Can fully developerspective such participating in different cultur	ccessfully by training in	Can develop a broad perspective by participating in training in different cultures.		pating in ultures.	Cannot develop a broad perspective by participating in training in different cultures.	
Achievement 3			Can fully comm people involved smoothly using	d in the local area	Can communicate with people involved in the local area using English, etc.			Cannot communicate with people involved in the local area using English, etc.	
Assigne	d Depar	tment Obj	ectives						
Teachin	g Metho	<u>-</u> d							
Outline commur content (manner			tives of this course are to develop the ability to think things from various perspectives and to cate through a variety of training experiences overseas. The training can be carried out during acation, etc. The number of days for the training must be more than five days. This course's ill amount to over 45 hours in total. These hours include training overseas, preliminary guidance esson, preliminary research on the training destination), debrief session, and self-study time for reports to be submitted to relevant institutions, etc.						
Style		Pre-orient	ation, on-site training, and debriefing						
Notice		students a	Students are required to keep in close contact with their class teacher or supervisor. During t students are required to actively engage and communicate with the local people and act applications, including their clothing and language.  No conditions for missing classes that will not be eligible for a passing grade.						
Charact	eristics o	•	Division in Le						
☑ Active Learning		,	☑ Aided by IC			o Remote Class			
Course	Plan								
		Т	heme			Goals			
	1st Quarter	1st							
		2nd							
		3rd							
		4th							
		5th							
		6th							
		7th							
1st Semeste		8th							
r	2nd Quarter	9th							
		10th							
		11th							
		12th							
		13th							
		14th 15th							
			lo final exam						
2nd Semeste r	3rd Quarter	1st	io iiiai exaiii						
		2nd			+				
		3rd							
		4th							
		5th							
		6th							
		7th							

		8th				
		9th				
		10th				
		11th				
		12th				
	Quarter	13th				
		14th				
		15th				
		16th	No final exam			
Evaluati	ion Meth	nod and V	Veight (%)			
			Report		Presentation	Total
Subtotal			50		50	100
Basic Prof	ficiency		0 0		0	0
Specialize	ed Proficie	าсу	0		0	0
Cross Are	a Proficier	ncy	50		50	100

Д	kashi Co	ollege	Year	2023			urse itle	Japanese IV-1	
Course	Informa	tion				•			
Course Co	ode	5416			Course Categor	y G	General /	Compulsory	
Class Form	mat	Lecture			Credits	S	chool C	redit: 1	
Departme	ent	Electrical E	and Computer E Engineering Cou		Student Grade		th		
Term		First Seme			Classes per Week 2				
Textbook Teaching	and/or Materials	担当者がプ  -ズ演習』  版)	リントを配布する (スリーエーネッ	。<参考教材>鎌E トワーク)、浜田原	田美千子・仁科浩美 麻里ほか著『大学 <u></u>	美著『アス 生と留学	カデミッ 生のため	ク・ライティングのためのパラフレ の論文ワークブック』(くろしお出	
Instructor	_	KUBOTA I	kumi						
Course	Objectiv	es							
1. 適切です 2. クラス:	効果的なこ。 メートとの	とばを使い、身 アイディア共有	ł近な話題をテー <sup>-</sup> fや意見交換をとる	マにして論文が書け おして、自分の日本	る。 語力や考え方を見	直すこと	ができる	5.	
Rubric								1	
			理想的な到達レ	ベルの目安	標準的な到達レヘ			未到達レベルの目安	
評価項目1				組み立て方やこと 解し、また適切に 文が書ける。	文章の組み立て方 方に不自然な点に しており、ある程 が書ける。	はあるが、	理解は	論理的な文章の組み立て方やこと ばのルールがあまり理解できず、 論理的な文章が書けない。	
評価項目2			クラスメートとでし、自分の日本記だけでなく、相助言をすることが	の言語活動に参加 語や考えを見直す 手にもコメントや ができる。	クラスメートとの し、自分の日本語 ことができる。	)言語活動 語や考えを	動に参加 を見直す	クラスメートとの言語活動にあまり参加できない。または、参加できるが、自分の日本語や考えを見直すことができない。	
Assigne	d Depar	tment Obj	ectives						
Teachin	g Metho	d							
Outline		本授業ではを養う。	、アカデミック・	ライティングに必要	要な言語表現を学び	び、学術的	的な文章	が書けるようになるための日本語力	
Style		学術的な文	 章に触れるととも おして、アカデミ	 に、論文の構成を シック・ライティング	====================================	こ文章を 記が適切(	書く練習に使える		
Notice				-(割合) 1/4以上のク		7070 22 751		0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	
Charact	eristics	of Class / [	Division in Le	arning					
☑ Active		,	☐ Aided by IC		☑ Applicable to	Remote	e Class	☐ Instructor Professionally Experienced	
Course	Plan								
			heme			Goals 控業のロ	<del> </del>	 『内容を把握する。	
			リエンテーション					<u>Mみで比解する。</u> 「気をつけるべきことがわかる。	
		2nd イ	ントロダクション !語の言い換え(書	/ 引き言葉) 		自分が授業で扱いたいテーマについて考えることがで  きる。			
		3rd #	文の構成 語の言い換え(利	口語と漢語)		かがわか			
			論のまとめ方 語の言い換え(名	3詞化)		実際に論	論のまとめ方がわかり、与えられたテーマについて 際に論文の構成を考え、書いてみることができる。		
	1st Quarter		での種類 ☑語の言い換え(彡	ジャンルによる使い:	1:	事実、意見、行動を述べる文それぞれの特徴と、どの 構成要素に使われる文であるかがわかる。そのうえで 、短い論文が書ける。			
		6th 序	論(背景説明)			論文の背 マについ	景説明を て実際に	行う方法がわかり、与えられたテー 書いてみることができる。	
1		7th 序意	論(問題提起とだ 味の言い換え(長	う向付け) 長い文/複数の文)			をどのよ	から問題点が見つけられる。また、こうに解決しようとするのかという計	
1st Semeste r			論 味の言い換え(」	-位概念)	:	身近なテ	ーマにつ	いて論文の序論が書ける。	
			論(論拠提示) 味の言い換え(簡	簡潔な表現)		事実と意 できる。	見の違い	がわかり、両者を書き分けることが	
		10th 本 意	論(論拠提示) 味の言い換え(含	含意/解釈)		客観的な	表現を使	でって事実が説明できる。	
		11th 本	論(結論提示)			論拠を受	けて論理	的に導いた意見が書ける。	
		12th 本	論 (論の展開)			論文の例 いるかが		その中の論がどのように展開されて	
	2nd Quarter	13th 本							
	Qual tel		-*** び(まとめ、評値	<u>f</u> j)		論文の全	体のまと	があることができる。	
		15th 結	び(展望提示)		:	結論から		1を加えることができる。 1る将来に向けての展望について言及	
	15th 結び (展望提示) 16th まとめと振り返り					できる。		↑の日本語の能力と技能がどうなった	
Evaluati	ion Meth	od and We	eight (%)						

	発表・成果物	課題提出	授業態度	Total
Subtotal	70	10	20	100
基礎的能力	20	10	0	30
専門的能力	20	0	0	20
分野横断的能力	30	0	20	50

Д	kashi Co	ollege	Year	2023		Course Title	Japanese IV-2		
Course	Informa	tion			1				
Course Co	ode	5417			Course Category		Compulsory		
Class For	mat	Lecture			Credits	School Cı	redit: 1		
Departme	ent		nd Computer E ngineering Cou		Student Grade	4th			
Term		Second Ser			Classes per Wee	Veek 2			
Textbook		The teache	r will make and	I distribute the ha	ndout.				
Teaching Instructor		TANGE Atsi	uko						
	Objectiv		ano						
1. Can wr 2. Can re	rite a pape view your	er on a familiar Japanese abili	ty and way of t	propriate and effe hinking by sharing culture and expres	g ideas and excha	anging opinions	with your classmates.		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	nent 1			w to construct es and rules of m properly, and	There are some points in how to sentences and h words, but unde and can write se logically.	compose ow to use rstand them	Do not understand how to construct logical sentences and rules of words, and cannot write sentences logically.		
Achievement 2			your classmate review your Ja ideas, but also		Can participate i classmates and i Japanese and ide	review your	Cannot participate much in activities with classmates. Can participate, but cannot review your Japanese or your thoughts.		
Achievem	nent 3		of Japanese ću	ur understanding Iture and express using appropriate	Can deepen you of Japanese culti your thoughts.	r understanding ure and express	Cannot deepen your understanding of Japanese culture and express your thoughts.		
Assigne	d Depar	tment Obje	ctives						
Teachin	ng Metho	od							
Outline		We will foci	us on activities	that allow us to w	vrite sentences su	itable for acade	emic writing. Also we will focus on		
Style		<u> </u>		Japanese culture b , write and preser		ints to Japanes	e iiterature.		
Notice				more of classes v		for evaluation.			
Charact	eristics	of Class / D	ivision in Le	arning	_				
☑ Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Dlan								
Course	Piaii	Th	eme		10	Goals			
		+	ientation				class objectives and content.		
			riting a paper(	1)			at to be careful of when writing a		
		ZIIU WI	itilig a paper (	1)		paper.	· · · · · · · · · · · · · · · · · · ·		
		3rd Wr	iting a paper(	2)		inderstand now easy to understa	to compose a paper to make it and.		
		4th Wr	iting a paper(	3)	C	Can write a pap	er using appropriate expressions.		
	3rd Quarter	5th Re	ading a paper	(1)		Can understand and arguments.	and explain logical developments		
		6th Re	ading a paper	(2)	C		and explain logical developments		
		7th Re	ading a paper	(3)	C		opinions on the content of the		
2nd		8th Re	ading Japanese	e novels (1)	i	Inderstand the	development of the story, paying expression and structure.		
Semeste r		9th Re	ading Japanese	e novels (2)	l	Inderstand the	development of the story, paying expression and structure.		
		10th Re	ading Japanese	novels (3)		Can express you			
				e of Kansai (1)	l	Inderstand the	development of the story, paying expression and structure.		
	4th	12th Re	ading Literatur	e of Kansai (2)	l	Inderstand the	development of the story, paying expression and structure.		
	Quarter	13th Re	ading Literatur	e of Kansai (3)		Can express you	·		
		14th Re	ading Hyakunir	n Isshu(百人一首)	C	Can explain abo	ut Hyakunin Isshu.		
		15th Re	ading Hyakunir	n Isshu(百人一首)		Can express you	•		
			flection		C t J	Can explain new things you found out in class, things that changed their minds, and how your Japanese abilities and skills have developed.			
Evaluat	ion Meth	nod and We	ight (%)						

	Presentation, Production work	Submission of assignments	Behavior	Total
Subtotal	70	10	20	100
Basic Proficiency	20	10	0	30
Specialized Proficiency	20	0	0	20
Cross Area Proficiency	30	0	20	50

Ak	kashi Co	ollege	Year	2023			Course Title	Co+work III A
Course I	nformat	tion	I					1
Course Co	de	5418			Course Catego	ry	Specializ	zed / Compulsory
Class Form	nat	Seminar			Credits		School C	Credit: 1
Departmer	nt	Electrical Electrical	and Computer E Engineering Cou	Engineering urse	Student Grade		4th	
Term		First Sen			Classes per We	eek	2	
Textbook				の記録』、Co+worl	rk学生ポータルサイト、その他、各チームの活動の内容に応じて適宜担当			
Teaching N Instructor	riateriais	教員が用意 All facult						
Course C	Obiectiv	•	,					
自律に関する協働に関する	 る到達目標 る到達目標	票:自己調整 票:他者を尊	ができる。 重しながらチーム <sup>*</sup> 発見し新しい提案)	で作業ができる。 ができる。				
Rubric								
			理想的な到達レ		標準的な到達レ	ベルの目	目安	未到達レベルの目安
自律に関す	る到達目標	E C	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 た報告・連絡・ を立て振り返る れらのことをや	相談が <sup>-</sup> ことが <sup>-</sup>	でき、目標 できる。こ	・  グイムマインメントや必安に心し
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 者を受け入れつ る。また、協働 とができる。こ べき時に行う。	つ自己を	表現ができ 貢献するこ	他名の息見をしつかりと聞くこと 、他者を受け入れつつ自己表現を
創造に関す	る到達目標	Ē.	踏まえ、新しい 案をすることが の及ぼす影響や 。そして、これ	情報の意味づけを ものやしくみの提 できる。また提案 範囲を特定できる らを自分なりの判 最善と思う行動を	新しいものやし ことができる。 影響や範囲を特 これらのことを 。	また提覧 定できる	案の及ぼす る。また、	なん、新してものやしてみの症 案をすることができない。また提 をの及ばす影響や範囲を特定でき
Assigned	d Depart	tment Ob	•					
Teaching	g Metho	d	_					
Outline		。1人の教   交わりなる   て行動し   誰かを幸	対員が1チームもし ど)の中で、自律、 チームワークカを	,くは2チームを担当 協働、創造の能力; 発揮して、メンバー。 会との関わりを持つ;	áする。多様な環境 を養成することを と協働しながら創	竟(他学 目的と 造的なご	学科・他学: 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 賃生は、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、 合むもの、SDGs(持続可能な開発目
Style		内の人間   通じて、	関係を構築する。) その理解を深める。 成する。第7週の計 担当教員や学生かり をしながら計画的し を行いチーム活動す	欠にチームで、SDG ・それから話し合い   画発表会・意見交換   うの助言を受ける。	s(持続可能な開き を通じて、SDGsc 受会にてチームのう 助言を受け、適宜 イプの作成、実践 教員に提出する。	発目標) の目標に 舌動テー 活動なー が要に	の17の目 こつながる・ マについ で計画の修 どを進める 応じて修正	引介、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 て、ブレゼンテーションを行い、他の 8正を行う。その後はチームで協力、 6。毎週、授業の終わりにチームでふ を加えながら次回の目標を立てる。 でう。
Notice		(2)チー  (3)成!  上記 (1  う。(2)	ームの取り組み20 果 20%(協働(5 )は、ルーブリッ ) ( 3 )は計画発詞	。(自律(40%)+1 %(協働(50%)+ 0%)+創造(50% クを用いた学生の自 表会での複数の教員 牛(割合) 1/4以上の	-創造(50%)) ))  己評価、相互評値 などによる評価と	5と教員	の評価をも	ちとに、チームの担当教員が評価を行 全合格とする。
Characte	eristics o	of Class /	Division in Le	earning				T
☑ Active L	_earning		☑ Aided by IO	CT	☑ Applicable t	o Rem	ote Class	☐ Instructor Professionally Experienced
Course F	Plan		Thomas			C!		
		1	Theme オリエンテーショ:			Goals		
:		1st	授業ガイダンス、 授業ガイダンスを する諸注意、評価	ン チームビルディング 受け、全体スケジュ 方法等を確認する。 わせ、チームビルデ	ール、活動に関 担当教員とチー	この授	経業の目的か	や進め方を理解する
	1st Quarter	2nd	自で定めて記録すってアイデアを出 決定した活動目標	に沿って、実施方法	け、テーマに沿 、役割分担、ス	自律、	協働、創造	<b>造の能力を身に付ける</b>
		3rd	チーム活動の目標 アを出し議論をする 法、役割分担、ス	アジュール等を決定し活動計画書にまとめる。 活動目標の決定および活動内容の計画 チーム活動の目標決定に向け、テーマに沿ってアイデ				<b>造の能力を身に付ける</b>

Subtotal	2	24		24	12	20		20	100
			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、幸働)	路台会)(協 	物、報告会)(創造)	Total
Evaluation						エー /	 ュ評価(成果	チーム評価(成果	
Fig. 1	- N4 ''	16th	•	険 実施せず - (0/)					
		15th	前期の指針のは一般では、一般では、一般では、一般では、一般では、一般では、一般では、一般では	今後の活動計画を確認 津、協働、創造に関し 己および相互に記録す 録をもとにチーム担当 を受ける。	) ここれまでのチーム活 窓する。各自のチーム活 して目標達成した点や ける。自己および相互 は教員より個別にフィ	省み 反省 の行	チームや自身る	の行動を客観的にふり	Oかえることができ
		14th	前期の指針では、自行を自己を自己を自己を自己を自己を自己を言う。	今後の活動計画を確認 聿、協働、創造に関し 己および相互に記録す	) ここれまでのチーム活 思する。各自の行動を いて目標達成した点や ける。自己および相合 対象員より個別にフィ	省み 反省 の行	チームや自身る	の行動を客観的にふり	<b>)かえることができ</b>
I I	uarter	13th	チーム流活動計画ルの遅る	<b>画書に従ってチームで</b>	で活動を行う。スケジ 等が明らかになった場 5。		自律、協働、	創造の能力を身に付い	ける
2	nd	12th	ルの遅め	画書に従ってチームで 延や実施方法の不備等	で活動を行う。スケジ 学が明らかになった場 う。中間報告会の準備	合、	自律、協働、	創造の能力を身に付い	ける
		11th	チーム流活動計画ルの遅る	画書に従ってチームで 近や実施方法の不備等	ご活動を行う。スケジ が明らかになった場 う。中間報告会の準備	合、	自律、協働、	創造の能力を身に付け	ける
		10th	チーム流活動計画ルの遅る	舌動 画書に従ってチームで 延や実施方法の不備等	で活動を行う。スケジ 計が明らかになった場 う。中間報告会の準備	合、	自律、協働、	創造の能力を身に付い	ける
		9th	ルの遅る	画書に従ってチームで	で活動を行う。スケジ 等が明らかになった場 う。	ユー 合、	自律、協働、	創造の能力を身に付い	 ける
		8th	計画発表	見直し・チーム活動 表会&意見交換会を踏 ナジュールの遅延やす に場合、活動計画の値	替まえ、計画の見直し 関応方法の不備等が明 変正・変更を行う。	を行 らか	自律、協働、	創造の能力を身に付い	ける
		7th	活動内容		チームの活動について 企聞き、意見交換を行		チームの活動 他のチームの ができる	を簡潔に伝えることだ 活動を共有し評価し、	ができる 意見を伝えること
		6th	チーム流活動計画	 舌動	で活動を行う。計画発		自律、協働、	創造の能力を身に付い	ける
		5th	チーム流アを出し	、議論をする。決定し	Pi容の計画 け、テーマに沿ってア した活動目標に沿って し等を決定し活動計画 はする。	、方	自律、協働、	創造の能力を身に付ん	ける
		4th	チーム活アを出し法、役割	票の決定および活動♪ 舌動の目標決定に向い J議論をする。決定し 削分担、スケジュール る。完成後は活動を身	t、テーマに沿ってア いた活動目標に沿って い等を決定し活動計画	イデ 、方 書に	自律、協働、	創造の能力を身に付い	ける

基礎的能力

専門的能力

分野横断的能力

Д	Akashi Co	ollege	Year	2023		Course	; (	Co+workⅢB			
Course	Informa	tion									
Course Co	ode	5419			Course Catego	ry Specia	alized	/ Compulsory			
Class For	mat	Seminar			Credits	School Credit: 1					
Departme	ent		I and Computer I I Engineering Co		Student Grade	4th					
Term			Semester		Classes per We	eek 2					
Textbook			red textbook and	the required mate	erial will change	according to	the c	ontents of the activity of each			
Instructor	<u>Materials</u>	team.  All facult									
	Objectiv		-у								
1) Self-re 2) Co-ope	liance: To eration ski	acquire ind lls: To gain	the ability to wo	lf-management abi rk in teams and res er and organize inf	spect the teamn	nates. ver and propo	se so	olutions to problems.			
Rubric											
			Ideal Level		Standard Level			Unacceptable Level			
1 Self-reli	iance		Schedule man reporting, con planning goals teammates	tact, consultation,	Individually ab management, contact, consulgoals.	reporting,	ng	Not able to schedule management, reporting, contact, consultation, and planning goals			
2 Co-ope	ration skill	S	to express the	ent opinions, able e student personal ability to lead the onsensus.	Open to differento express the opinion, and all attributed role	student perso pility to play t	nal he	Not open to different opinions, not able to express the student personal opinion, and can't to play the attributed role in the team.			
The student can voluntarily gather information, organize and summarize this information, form ideas and summarize this information, and explain those information.						The student can't voluntarily gather information, can't organize and summarize this information, and can't explain those ideas to others.					
Assigne	d Depar	tment Ob	ojectives								
Teachin	ng Metho	od									
Outline		student departm charge a someone	can contribute to ents, different ag and challenge the e other than the	o a team in a variet ge, and people fron mselves in creating	y of environmer n outside the sc g something or p och team has to	nts (working v hool). Each g perform activi elaborate a p	vith s oup i ties t lan ai	tive skills in a manner that the itudents from other is to work with the instructor in hat will bring happiness to nd do its activities. The students ive evaluation.			
Style		group w breaks a and disc toward a of self-re teacher individua performa	ith multiple stude nd other activitie over a problem t a solution to the peliance, co-opera in charge of the to al goals. The cou	ents. After each stuss that will help to loo work with, make problem. Through tion, and creativity team. Based on the rse rubric is used to	udent introduces build relationshi plans, divide ro working to solve . After the cour e course rubric to s self-evaluation	themselves to the within the les among the this problem se start, mak distributed in mutual evaluments.	to the group e men the second the	omly selected to compose a e team, they will perform ice o. Later the team will discuss mbers and work together students will achieve the goals e that you can contact the each student has to establish in, and to evaluate the thas to fill a retrospective sheet			
Notice		evaluation the end	on by the teacher of the term (2).	e course is compose r in charge of the to r more of classes v	eam (1), and m	ultiple faculty	mem	ents, mutual evaluation, nbers at the briefing session at			
Charact	eristics	of Class /	Division in Le	earning							
☑ Active	Learning		☑ Aided by I	СТ	☑ Applicable t	o Remote Cla	ss	☐ Instructor Professionally Experienced			
Course	Plan										
Course.	luli		Theme			Goals					
		1st	Course overall grammembers of each confirmation of cadvice regarding evaluation methods.	uidance, presentati h team, team build course schedule, re I the activities, exp od. Later team me acher in charge me n building.	ling guidance, estrictions and lanation of the mbers and the		elf-re s.	liance, Co-operation and			
2nd Semeste r		2nd	Each student set goals. The team the activities. La goal, the group wethod, division	the activity target will discuss ideas a ter according to th will work on the im of roles among th hich will be summa	and a theme to e team activity plementation e members	To acquire S Creative Skil	elf-re s.	liance, Co-operation and			
		3rd	goals. The team the activities. La goal, the group wethod, division	the activity target will discuss ideas a ter according to th will work on the im of roles among th hich will be summa	and a theme to e team activity plementation e members	To acquire Self-reliance, Co-operation and Creative Skills.					

Cross Area Proficiency			24	12	20	20	0	100
Specialize Proficiency	/   0		0	0	0	0	0	0
Basic Proficiency			0	0	0	0	0	0
Subtotal	24		24	12	20	20	0	100
	Se	dividual lf-reliance rocess)	Individual Co-operation (process)	Individual Creativity (process)	Team Co- operation (process)	Team Creativity (process)	Other	Total
Evaluati			Veight (%)	I	T_		T	
		16th	No end-term Exam	1				
	Retrospective meeting and summary of activities: The group will discuss the results from the briefing session and review the team action plan. The students will evaluate individually and mutually their achieved points and goals, regarding self-reliance, co-operation, and creativity.				To acquire Self-reliance, Co-operation and Creative Skills.			
		14th	Retrospective mee The group will disc briefing session an The students will e mutually their achi regarding self-relia creativity.	cuss the results for d review the tea evaluate individual eved points and	rom the m action plan. ally and goals,	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
			Briefing session: R and listen to report			To acquire Self-re Creative Skills.	eliance, Co-opera	ntion and
	4th Quarter	12th	Team activities: W plan. The action pl according to sched of the implementathe briefing session	an may be moditule delay, the indition method, etc	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		11th	Team activities: W plan. The action pl according to sched of the implementathe briefing session	an may be modit lule delay, the ind tion method, etc	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		10th	Team activities: W plan. The action pl according to sched of the implemental the briefing session	an may be modit lule delay, the ind tion method, etc	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		9th	Team activities: W plan. The action pl according to sched of the implementathe briefing session	an may be moditule delay, the indition method, etc	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		8th	No mid-term Exam	1				
		7th	Team activities: W plan.	ork according to	the action	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		6th	Team activities: W plan. The action pl according to sched of the implemental	an may be moditule delay, the in-	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		5th	Setting targets and action plan. Accord the team, the group with them. The group with decide the method role sharing, schedule.	ling to the theme ip will draw ideas vill establish the to achieve it, de	e and goals of s and discuss activity goal, ecide members'	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and
		4th	Each student set the goals. The team we the activities. Later goal, the group will method, division or and schedule, which action plan.	ill discuss ideas a r according to the Il work on the im f roles among the	and a theme to e team activity plementation e members	To acquire Self-re Creative Skills.	eliance, Co-opera	ation and

Α	kashi Co	ollege	Year	2023		Course Title	Electronic Circuits I	
Course	Informa	tion	_					
Course Co		5421			Course Category		red / Compulsory	
Class For	mat	Lecture			Credits	School C	Credit: 1	
Departme	ent		and Computer E Engineering Cou		Student Grade	e 4th		
Term		First Seme	ester		Classes per Weel	k 2		
Textbook Teaching	and/or Materials							
Instructo		OHMUKAI	Masato					
Course	Objectiv	es						
1) Understhem, and 2) Accurathese circ 3) Accura 4) Accura	stand the od can analytely under cuits.	characteristic yze these circ stand the pri stand the pri stand the pri	cuits. nciples and pro nciples and pro	perties of negative	e-feedback circuits using arithmetic a	and various a	operties of basic circuits using amplifier circuits, and can analysis analyze and design these circuits. circuits, and can analyze and	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		of active elements of active elements of the properties of b	e characteristics ents, accurately e principles and pasic circuits using a analyze these	Understand the cof active element the principles and basic circuits using can analyze these	ts, understand d properties on a them, and	characteristics of active	
Achievem	nent 2		Accurately und principles and negative-feedly various amplifican analysis the	properties of pack circuits and ier circuits, and	Understand the properties of neg circuits and vario circuits, and can circuits.	jative-feedbac ous amplifier	principles and properties of	
Achievem	nent 3		properties accurately, can properties,		Understand the properties, can a design circuits us amplifiers.	nalyze and	Do not understand the principles and properties of circuits using arithmetic amplifiers.	
			oscillator, modulator, and demodulator circuits, and can		Understand the properties of osci modulator, and concircuits, and can design these circ	illator, demodulator analyze and	Do not understand the principles and properties of oscillator, modulator, and demodulator circuits.	
		tment Obj	<u>ectives</u>					
Teachin	ig Metho							
Outline				of analogue electrements. T), and operation		active eleme	nts such as diodes, transistors,	
Style		Classes wi	ill be held in a le		y by explaining co	ntent followin	g the textbook. Students will work	
		on exercis		issignments as app	propriate.			
Notice		Students a	are required to l	ssignments as app	nanner so they ca	ition.	its themselves. If possible, they grade.	
	eristics (	Students a should cor Students v	are required to l	essignments as app learn in an active r lit they designed a r more of classes w	nanner so they ca	ition.	, , ,	
Charact	eristics (	Students a should cor Students v	are required to lastruct the circuwho miss 1/3 or	assignments as app learn in an active r uit they designed a r more of classes w earning	nanner so they ca	ition. for a passing	grade.	
Charact	Learning	Students a should con Students of Class / [	are required to Instruct the circu who miss 1/3 or Division in Le	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  Applicable to	ntion.  for a passing  Remote Class	grade.	
Charact	Learning	Students a should con Students of Class / [	are required to Instruct the circulation who miss 1/3 or Division in Le	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  Applicable to G	Remote Class  Soals	☐ Instructor Professionally Experienced	
Charact	Learning	Students a should con Students to Students to Students to T and T	are required to lastruct the circulation of the cir	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  Applicable to G G U e se	Remote Class  Goals  Inderstand the lectrical conductors and the lectrical conductors are lectrical conductors.	Instructor Professionally Experienced  etypes of semiconductors and the action principles within serectification and voltage current	
Charact	Learning	Students a should con Students to Students to Students to T and T	are required to Instruct the circulation who miss 1/3 or Division in Le	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  Applicable to G G U e se	Remote Class  Goals  Inderstand the lectrical conductors and emiconductors and the haracteristics and the haracteristics and emiconductors and the haracteristics  Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.		
Charact  Active	Plan	Students a should cor Students of Class / [  Tast S  2nd D  3rd T	are required to lastruct the circulation of the cir	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  ✓ Applicable to  ✓   G  U e se U cl U st	Remote Class  Goals  Inderstand the lectrical conductors emiconductors haracteristics and the haracteristics and the latic properties	Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.  e basic structure, behavior and s of transistors.	
Charact	Plan	Students a should cor Students of Class / [  Tast S  2nd D  3rd T	are required to lastruct the circulation who miss 1/3 or Division in Let alique Aided by IC heme emiconductor iode	assignments as app learn in an active r uit they designed a r more of classes w earning	manner so they cand study its operavill not be eligible.  ✓ Applicable to  ✓   G  U e se U cl U st U st	Remote Class  Goals  Inderstand the lectrical conductors and emiconductors and the haracteristics and the latic properties are	Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.  e basic structure, behavior and s of transistors.  e basic structure, operation and s of FETs.  e basic structure, operation and	
Charact  Active  Course	Plan	Students a should cor Students of Class / [  To the should cor Students of Class / [  To the should core should co	are required to lastruct the circulation who miss 1/3 or Division in Let alique Aided by IC heme emiconductor iode	essignments as applearn in an active ruit they designed armore of classes wearning	manner so they cand study its operavill not be eligible.  ✓ Applicable to  ✓   G  U e se U cl U st U st U st	Remote Class  Goals  Inderstand the lectrical conductors  Inderstand the haracteristics  Inderstand the haracteristics  Inderstand the tatic properties	Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.  e basic structure, behavior and s of transistors.  e basic structure, operation and s of FETs.  e basic structure, operation and	
Charact  Active  Course	Plan	Students a should cor Students to Students	are required to instruct the circumbon miss 1/3 or Division in Let Division in	issignments as applearn in an active ruit they designed ar more of classes wearning	manner so they cand study its operavill not be eligible.  Applicable to G G U e so Cl U S S U U Cl U U S S U U U U U U U U U U U U U U U	Remote Class  Goals  Inderstand the lectrical conductors inderstand the haracteristics inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the incuits.	Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.  e basic structure, behavior and s of transistors.  e basic structure, operation and s of FETs.  e basic structure, operation and s of IC.	
Charact  Active  Course	Plan	Students a should cor Students to Students	are required to lastruct the circulation of the cir	issignments as applearn in an active ruit they designed ar more of classes wearning	manner so they cand study its operavill not be eligible.  Applicable to G G U e ss U cl U st U gt	Remote Class  Goals  Inderstand the lectrical conductors and the haracteristics inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the tatic propertie inderstand the incuits.	Instructor Professionally Experienced  etypes of semiconductors and the action principles within s.  e rectification and voltage current of pn junction.  e basic structure, behavior and sof transistors.  e basic structure, operation and sof FETs.  e basic structure, operation and sof IC.  e basics of transistor amplifier  w to design a simple bias circuit for	

		11th	Emitter ground amp	olifier circuit		Understand gain, output impedance	frequency band, input and e in transistor amplifier circuits.		
		12th	Transistor negative-	ansistor negative-feedback amplifier circuit			tive-feedback amplifier circuits		
		13th	FET bias circuit	bias circuit			Understand how to design a simple bias circuit for an amplifier circuit using FETs.		
		14th	FET equivalent circu	uit		Understand the a amplifier circuit u	nalysis of a source ground using an equivalent circuit.		
		15th	FET negative-feedba	ack amplification	n circuit	Understand negative-feedback amplifier circuit using FETs.			
		16th	Final exercise						
Evaluati	on Meth	od and V	Weight (%)						
			Examination		Exercise		Total		
Subtotal			60		40		100		
Basic Prof	iciency		0 0			·	0		
Specialize	d Proficier	псу	60		40		100		
Cross Area	a Proficien	су	0		0		0		

А	kashi Co	ollege	Year	2023		Course Title	Preliminaries to Graduation Thesis
Course	Informa	tion					
Course Co	ode	5422			Course Category	Speciali	zed / Compulsory
Class For	mat	Seminar			Credits	School (	Credit: 1
Departme	ent	Electrical E	and Computer E Engineering Cou		Student Grade	4th	
Term		Second Se	mester		Classes per Weel	k 2	
Textbook Teaching							
Instructor	r	All faculty	of the departme	ent			
	Objectiv						
l(2) Can s	ummarize	ly explore thin the results o e research th	btained for the	project undertaker approaches, and c	n. reate flexible and	innovative id	eas.
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	ent 1		Can continuous and obtain resi	sly explore things ults that match	Can continuously things.	explore	Cannot continuously explore things.
Achievem	ent 2		Can properly s		Can summarize to obtained on the taddressed.		Cannot summarize the results obtained on the theme addressed.
Achievem	ient 3		Can consider t	us approaches, tible and as. In addition,	Can consider the theme in various and create flexib innovative ideas.	approaches, le and	Cannot consider the research theme in various approaches, or create flexible and innovative ideas.
Assiane	d Depar	tment Obj	ectives				•
	g Metho						
Outline	ig i icciio	The aim of Students v	f this course is t vill gain the bas	to develop the basi ic knowledge nece	ic abilities necessa essary to address	ary for gradua a research the	ition research in the fifth year. eme and examine how to approach
Style		to one of t	hem. In accord	ance with the instr	ructions of the sup	pervisor of the	ries), and students will be assigned a laboratory they are assigned to,
Notice		Engage in	research active	lv and continuousl	V.	•	ents, simulátions, etc.
Charact	eristics (		Division in Le		Tresearch will no	t be eligible it	n a passing grade.
☑ Active		oi Ciass / L		-	□ Applicable to	Dometa Class	☐ Instructor Professionally
M Active	Learning		☑ Aided by IC	, 1	☑ Applicable to	Remote Class	Experienced
Course	Dlan						
Course	riaii		neme			ioals	
			aboratory assign	nments	A	fter learning t	the research details of each dents can apply for the laboratory in.
		2nd TI	nemed research	l	re	onduct lecturesearch, expe	e-based learning, document riments, simulations, etc. under
	3rd	3rd Sa	ame as above		S	ame as above	
	Quarter	4th Sa	ame as above		S	ame as above	
		5th Sa	ame as above		S	ame as above	
		6th Sa	ame as above		S	ame as above	
		7th Sa	ame as above		S	ame as above	2
2nd Semeste		8th Sa	ame as above		S	ame as above	2
r		1	ame as above			ame as above	
			ame as above			ame as above	
			ame as above			ame as above	
			ame as above			ame as above	
	4th		ame as above			ame as above	
	Quarter		reparing a resur	me for themed res	earch C	an summarize	e the results of the themed repare a resume for the
		15th Tl	nemed research	presentation	C		al presentation on the results of the
		16th N	o final exam				
Evaluati	ion Meth	nod and We	eiaht (%)		'		
_ + a laat		.ou unu VV	Initiative		Presentation		Total
Subtotal			50		50		100
Jublulai			100		150		1100

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

А	kashi Co	ollege	Year	2023		_	ourse Title	Electromagnetics II A	
Course	Informa	tion					•		
Course Co		5425			Course Categor	γ	Specialize	ed / Compulsory	
Class Forr	mat	Lecture			Credits		School C	redit: 1	
Departme	ent	Electrical I	and Computer Engineering Cou	ngineering rse	Student Grade	ol.	4th 2		
Term Textbook	and/or	First Seme	ester		Classes per We	ек	2		
Teaching	Matérials	0.104111447							
Instructor	_	OHMUKAI	Masato						
(1) Under	Objectiv stand and xplain the	can explain	the laws of mag erties derived fr	netism. om the Maxwell e	quation.				
Rubric			I		I			T	
			Ideal Level	d ann avalain in	Standard Level	<b></b>	مطع منجامین	Unacceptable Level	
Achievem	ent 1		Understand and can explain in detail the laws of magnetism.  Can explain in detail the various Can explain to			ism.		Do not understand and cannot explain the laws of magnetism.  Cannot explain the various	
Achievem	ent 2		properties deri Maxwell equati	ved from the	Can explain the properties deriving Maxwell equation	ed fro	m the	properties derived from the Maxwell equation.	
	•	tment Obj	ectives						
Teachin	g Metho								
Outline		magnetic	fields. Afterward quation, electror	, acquire the know	wledae of the en	tire svs	stem of el	I, this course will be focusing on ectro-magnetism by learning the quizzes to check students'	
Style	<u> </u>		art of classes wi ere will be a quiz		ecture style to ex	xplain t	he outline	e. Then, each student will self-	
Notice		This cours	e requires an ac		mitted on time.	•	•	thing is unclear during classes.	
Charact	eristics	•	Division in Le				p		
☐ Active	Learning		☐ Aided by IC	Т	☐ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan	<del>   -</del>				<u> </u>			
			heme			Goals	how to ca	Ilculate the magnetic flux density	
		1st B	iot-Savart law				ced by cur		
		2nd A	mpère's contour	integral law		Learn about the Ampère's contour integral law and learn how to calculate magnetic flux density using this law.			
			otation of vector neorem	rs (introduction of	rot), Stokes'	Learn the concept of Rotation of vectors and the Stokes' theorem. In addition, can use the above to derive the derivative form of the Ampère's contour integral law.			
	1st	4th V	ector potential a	nd gauge problen	n	potent the sca	ial for ma	potential of vectors, which is the gnetic flux density, in relation to tial of electric fields. Also know ues.	
	Quarter	5th v	he relationship bector potential, a ector potential, a ector potential	etween current d and the calculation	n mothod of			concept of vector potential by c examples.	
1st Semeste r		6th L	orentz force				d to chargetic field, a es placed	entz force, which is the force led particles moving in the and can calculate the force applied in the magnetic field. Know the s, which is an application of this	
		7th T	The torque of the current loop, the Hall effect			Formu additio	late the to	orque of the current loop. In about Hall effect.	
	8th Midterm exam					60 marks			
		9th M	lagnetic flux den nagnetic fields	sity and magnetiz				oncept of magnetization and learn magnetic fields.	
2nd Quarter		10th B	oundary condition	on, magnetic mate	erial	flux de about relation magne	ensity and the conce nship bet etic flux de	boundary conditions of magnetic magnetic fields. In addition, learn pt while comparing the ween magnetic fields and ensity and magnetization to als.	
		11th C	ch Classification of magnetic material			dielectric materials.  Learn about the properties of the five types of magnetic materials.			
			rigin of anti-mag nd hysteresis los	gnetism, magnetiz s	zation curve	Learn quanti	about the tatively. L	origin of anti-magnetism earn about hysteresis by studying f magnetization curves.	

		13th	Coulomb's law on magnets and mag		permanent	It is known that Coulomb's law, similar to charge, is applicable for magnetic poles.				
		14th	The force at which	The force at which the electromagnet attracts iron			Learn about the properties of permanent magnets and the theory of magnetic circuits. In addition, learn how to calculate the force that the electromagnet attracts a piece of iron.			
		15th	Div, rot, grad and system	laplacian in diffe	rent coordinate	Can derive div, ro	ot, grad and lapla blar coordinates.	ician in		
		16th	Final exam			Score 60 or more	e marks.			
Evaluati	on Me	ethod and \	Veight (%)							
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		100	0	0	0	0	0	100		
Basic Proficiency	,	0 0 0		0	0	0	0	0		
Specialized Proficiency		100	0 0 0		0	0	100			
Cross Area Proficiency		0	0	0	0	0	0	0		

А	kashi Co	ollege	Year	r 2023		_	ourse Title	Electromagnetics II B	
Course	Informa	tion							
Course Co		5426			Course Categor	ry	Specialize	ed / Compulsory	
Class For	mat	Lecture			Credits		School C	redit: 1	
Departme	ent	Electrical E	and Computer E Engineering Cou	ngineering rse	Student Grade		4th		
Term	and/or	Second Se	mester		Classes per We	eek 2			
Textbook Teaching	Matérials	OHMUKAT	Macato						
Instructor		OHMUKAI	Masato						
(1) Under	Objective Stand and Stand the	can explain t	the laws of mag erties derived fr	netism. om the Maxwell e	quation.				
Rubric					C. 1 11 1	1			
			Ideal Level	d as a symbol in in	Standard Level Understand and		بطغ منجامين	Unacceptable Level	
Achievem	ent 1		detail the laws	d can explain in of magnetism.  detail the various	laws of magnet	tism.		Do not understand and cannot explain the laws of magnetism.  Cannot explain the various	
Achievem	ent 2		properties deri Maxwell equati	ved from the	properties deriv Maxwell equati	ved fro		properties derived from the Maxwell equation.	
Assigne	d Depar	tment Obje	ectives						
Teachin	g Metho	d							
Outline		Imagnetic f	fields. Afterward quation, electro	d, acquire the know	wledae of the er	ntire sv:	stem of e	I, this course will be focusing on lectro-magnetism by learning the quizzes to check students'	
Style			art of classes were will be a quiz		ecture style to e	xplain t	he outline	e. Then, each student will self-	
Notice		This cours Any assign	e requires an ac		mitted on time.		•	thing is unclear during classes.	
Charact	eristics	of Class / [	Division in Le	arning					
□ Active	Learning		☐ Aided by IC	T	☑ Applicable to a positive for the	o Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan					ı			
		TI	neme			Goals			
		1st Fa	araday's law of	electromagnetic ir	nduction	induct	ion in inte	raday's laws of electromagnetic egrals and derivatives.  gnetic flux and magnetic field	
		2nd Se	elf-inductance a	nd its calculation		energy. Understand the definition of self- inductance and learn how to calculate it.			
		3rd Ir	nternal inductan	ce and energy		Calculate the internal inductance. Understand the energy of the magnetic field.			
		4th M	utual inductanc	e, Neumann form	ula	Learn and kr	about the now the d	concept of mutual inductance, efinition of coupling coefficients.	
	3rd Quarter		xamples of Neur nergy	mann formula, ge	neral theory of	using	Neumann	ncrete examples of calculations 's formula and discuss the general etic energy.	
			nipolar lead, bei onductors	tatrons, and curre	ent in	Learn unipola princip	how to ca ar lead. Ir	alculate the voltage generated in n addition, learn about the etatron. Also know about the	
2nd Semeste			urrent distribution	on and skin effect	within a	alterna	ating curre	distribution of current to ent in conductors and can analyze quantitatively.	
r		8th M	idterm test				60 marks	· · · · · · · · · · · · · · · · · · ·	
		9th ed	Integral and derivative forms of the Maxwell				t and can	xwell's concept of displacement derive the derivative form from n of the four equations.	
	10th The potential expression of the Maxwell equat retarded potentials and the Hertz vector		xwell equation,	Can co	nsider thons and u	e potential of time-dependent se this potential to draw Maxwell's			
	4th 11111 el		axwell electrom ectromagnetic v	agnetic equation a	and	Can us	se Maxwe	ll's equations to derive the wave is applicable to electromagnetic	
	Quarter 12th		he nature of the	electromagnetic	wave	Can de from N	erive the i	nature of electromagnetic waves equations.	
		13th Poynting vector		Learn	about the	definition of Poynting vector and			
			ielectric loss and ave	d polarization of e	lectromagnetic	its physical meaning.  Learn about dielectric loss quantitatively. In addition, learn about the polarization of electromagnetic waves, also learn about plane waves and circularly polarized wave.			

	15th	Electromagnetic	waves in a medi	um	Learn about t electromagne resistance is o	tic waves in a n	propagation of nedium with a finite			
	16th	Final exam			Score 60 or m	nore marks.				
Evaluation Method and Weight (%)										
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal	100	0	0	0	0	0	100			
Basic Proficiency	0	0	0	0	0	0	0			
Specialized Proficiency	100 0 0		0	0	100					
Cross Area Proficiency	0	0	0	0	0	0	0			

Д	kashi C	College Year 2023				Course Title	Solid State Physics A		
Course	Informa	tion							
Course Co		5427				Course Categor	У		ed / Compulsory
Class For	mat	Lecture				Credits		Academi	c Credit: 2
Departme	ent		l and Compute l Engineering C			Student Grade		4th	
Term		First Sen	nester			Classes per Wee	ek	2	
Textbook	and/or Materials								
Instructo		OHMUKA	AI Masato						
	Objectiv		1110000						
1) Unders 2) Unders 3) Can ex 4) Unders 5) Can de	stand the stand	Schrödinger chemistry o Hall effect q characterist	f atoms and lea Juantitatively.	arn and	about band theo voltage of pn jun	y of solids.		vithin an at	om quantitatively.
Rubric			Ideal Level			Ctandard Lovel			Unaccentable Level
			Ideal Level	und	lerstand the	Standard Level			Unacceptable Level  Do not understand the
Achievem	nent 1		Schrödinger use it to full	equ ly ur tate	uation and can nderstand the within an atom	Understand the equation and us understand the within an atom	se it elec	to tronic state	Schrödinger equation and cannot use it to understand the electronic state within an atom quantitatively.
Achievem	nent 2		chemistry of	f ato	lerstand the oms and know in theory of solids.	Understand the atoms and know theory of solids.	w the		Do not understand the chemistry of atoms and do not know the band theory of solids.
Achievem	nent 3		effect quant	titati	,	Can explain the quantitatively.	Hall	effect	Cannot explain the Hall effect quantitatively.
			Thoroughly characterist voltage of p quantitative	ics on ju	lerstand the of current and inction	Understand the of current and vigunction quantit	volta	ge of pn	Do not understand the characteristics of current and voltage of pn junction quantitatively.
			Can derive t depletion re		capacity of the n in detail.	Can derive the depletion region		city of the	Cannot derive the capacity of the depletion region.
Assigne	d Depar	tment Ob	jectives						
Teachin	ig Metho	od							
Outline		states in	solids from the	e au	onic devices is ver lantum theory th crons in metals ar	at forms the basi	ic the	eories of ele	ts will learn about the electronic ectrons, and learn quantitatively perspective.
Style		The first	part of classes here will be a c	s wil	l be taught in a le	ecture style to ex	cplair	the outline	e. Then, each student will self-
Notice		Because is essent amount standard to get a	the class will his ial. Also, be su to 90 hours of l self-study time perfect score in	nand ure t stud ne re n au	dle various phences review each tire	ne as new conter hours include th udy / review, and n additional assid	nt wi ne lea d coi anmi	ll keep com arning time mpleting as ent reports	ical foundation until the third year ing up. This course's content will guaranteed in classes and the signment reports. Student who fail irade.
Charact	eristics		Division in					<u> </u>	,
☑ Active	Learning	,	☐ Aided by	/ IC	Г	☑ Applicable to	Rer	note Class	☐ Instructor Professionally Experienced
Course	Plan	<del>                                     </del>							
			Theme				Goal		wayo partiala dualitus - £ li-liti.
		1st	Quantum theo	ry,	Schrödinger equa	ation	elect equa	rons and ca tion.	wave–particle duality of light and an derive the Schrödinger
		2nd	Bohr's theory a	and	atomic orbit		radiu	derive the l us and ener s of atomic	Bohr's theory and calculate the gy of the orbit. Learn about the orbit.
	3rd Covalent bond and energy band		I.	orbit	al hybridiza	origin of covalent bonds and attention, and the energy level when many atoms are gathered.			
1st Semeste	1st	4th	Electrical cond velocity	ucti	on, phase velocit	y and group	Can cond	derive the l	Drude's theory of electrical I know the definition of phase up velocity.
r	Quarter  5th  Dispersion relation and effective mass and brillouin zone		ass and	Can dispe	derive the eersion relati	effective mass by deriving the onship between light and rstand the concept of electron ut the brilluane zone.			
		6th	Free electron t	theo	ry, density of sta	tes	mon		dinger equation to quantize e density of state of electrons will
		7th	Hall effect and	l ele	ctron mobility		Can determine the Hall effect quantitatively, an can calculate the conductivity and the electron mobility from the results of the Hall effect experiment.		

		8th	Midterm exam			Score 60 or mo	ore marks.			
		9th	Carrier statistics i	n semiconductor	·I	lguantitatively.	Can derive the carrier density in a semiconductor quantitatively. Understand the concept of effective density of state.			
		10th	Carrier statistics i	n semiconductor	· II		re are three are	products. Learn eas of temperature y.		
		11th	Contact between	semiconductor a	ind metal	Understand qu semiconductor conditions are	and metal cor	when a ne into contact, two		
	2nd Quarter	12th	Einstein relation			Can derive Ein relationship be electron mobili formula for a s	stein relation, v tween diffusion ty. In addition, mall carrier inj	which show the n coefficient and , can derive the ection.		
		13th	The I-V character	istics of the PN j	unction	Can derive the quantitatively.	I-V characteri	stics of PN junction		
		14th	Capacity of the de	epletion region.		the method of	Can derive quantitatively the capacity of the depletion region in a PN junction, and learn about the method of determining the diffusion potential in experiments.			
		15th	Review			Review and or Learn about dr	Review and organize the content learned so far. Learn about drift transistor if there is time.			
		16th	Final exam			Score 60 or mo	Score 60 or more marks.			
Evaluati	on Met	thod and	Weight (%)							
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	1	00	0	0	0	0	0	100		
Basic Proficience	y 0		0	0	0	0	0	0		
Specialize Proficience		00	0 0		0	0	0 0			
Cross Are Proficience			0	0	0	0	0	0		

А	ıkashi Co	ollege	Year	2023		Cou Tit		Solid State Physics B	
Course	Informa	tion							
Course Co	ode	5428			Course Categor	ry Sp	oecializ	ed / Compulsory	
Class For	mat	Lecture			Credits	Ad	cademi	c Credit: 2	
Departme	ent	Electrical En	d Computer Engineering Cou	ngineering rse	Student Grade	4t	:h		
Term	17	Second Sem	nester		Classes per We	/eek 2			
Textbook Teaching									
Instructor		OHMUKAI M	lasato						
Course	Objectiv	es							
2) Learn a	about diele	Wiedemann-Frectric polarizati	on.	sloch's theorem. materials.					
Rubric									
		I	deal Level		Standard Level			Unacceptable Level	
Achievem	ent 1	\		anz law and	Understand the Wiedemann-Fr Bloch's theorem	anz law a	and	Do not understand the Wiedemann–Franz law and Bloch's theorem.	
Achievem	ent 2	7	Thoroughly und dielectric polari	derstand zation.	Understand die polarization.	electric		Do not understand dielectric polarization.	
Achievem	ent 3	\	Thoroughly und various aspects materials.		Understand the of magnetic magnetic	e various aterials.	aspects	Do not understand the various aspects of magnetic materials.	
Assiane	d Depar	tment Objec			•			•	
	ig Metho		<b></b>						
	ig Metho		solids in electro	onic devices is ver	v crucial. In clas	sses, we v	will intr	oduce the properties of dielectric	
Outline		and magnet	ic materials in	addition to the na	ture of electron	s in meta	ls.		
Style		study. There	e will be a quiz	at the end.				e. Then, each student will self-	
Notice		is essential. amount to 9 standard se to get a per	Also, be sure to the sure to the study time refers to the study time refers score in an	to review each tin	ne as new conte hours include tl udy / review, ar n additional assi	nt will ke he learnin nd comple ianment r	ep com g time ting as eports.	ical foundation until the third year ing up. This course's content will guaranteed in classes and the signment reports. Student who fail	
Charact	eristics (	of Class / Di			THE THE ENGINE	<u>c 101 a pa</u>	1551119 9	rader	
☑ Active			☐ Aided by IC		☑ Applicable to	o Remote	Class	☐ Instructor Professionally Experienced	
		<u>'</u>			<b>!</b>				
Course	Plan	1			1	1			
		The	eme			Goals			
		1st Wie	edemann-Fran	z law		between	electri	describes the relationship cal conduction and heat diffusion, from the basic principle.	
		2nd Blo	ch theorem, po	olarization and die	electric factors	focusing electroni	on the c state nd the	e basis of electromagnetism by Bloch function, which shows the of solids in crystals and definition of polarization and	
		3rd The	e Clausius–Mos	ssotti equation		Can deriv	ve the (	Clausius–Mossotti equation, which of polarization and dielectric	
	3rd Quarter	4th Elec	ctronic polariza	ation		Can disci quantitat		the electronic polarization	
2nd		5th Ion	polarization			Can hand learn abo	dle ion out LST	polarization quantitatively and equations and residual lines.	
Semeste r		6th Orio	entation polari:	tation polarization and the Langevin function				orientation polarization nd understand the characteristics n function which is used in rization.	
		7th Cor	Complex permittivity and dielectric loss				fact tha	concept of complex permittivity, at imaginary components are in dielectric loss.	
		8th Mid	lterm test			· · · · ·		re marks.	
	4th		ssification of m terial	nagnetization and	magnetic	magnetion learn abo	field a out the	tionship between magnetization, and magnetic flux density, and characteristics of the five types of ials.	
	Quarter	10th Fac	tors of magne	tism		magnetic materials.  Learn about the angular momentum caused by orbital motion and the angular momentum cause by spin, which are the factors of magnetism, and learn about the the Bohr magneton and the Land g-factor.			

	11th	Five types of magnetic materials, magnetic anisotropy and structure of magnetic domain			Can classify five types of magnetic materials, learn about magnetic anisotropy and structure of magnetic domain, and understand the causes of				
		anisotropy and structure of magnetic domain			hysteresis prope	rties in the magn	etization curve.		
	12th	The temperature susceptibility	characteristics o	f magnetic	Can derive the C Curie Weiss in fe	Curie law in paran erromagnetic.	nagnetic and		
	13th	Application of ma	gnetic materials		Learn about the permanent mag	characteristics of net materials.	iron-core and		
	14th	History of magneton magnetic mate	tic materials rese erials	earch and topics	Learn about the magnetic materi applications of d	Learn about the history of the development of magnetic materials in Japan, and learn about the applications of different magnetic materials.			
	15th	Review				Review the content so far.			
	16th	Final exam			Score 60 or mor	e marks.			
Evaluation M	1ethod and 1	Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	100	0	0	0	0	0	100		
Basic Proficiency	0	0	0	0	0	0	0		
Specialized Proficiency	100	0 0		0	0	0	100		
Cross Area Proficiency	0	0	0	0	0	0	0		

A	Akashi Co	ollege	Year	2023		Course Title	Applied Physics II		
Course	Informa	tion							
Course Co	ode	5429			Course Category	/ Specializ	red / Compulsory		
Class For	mat	Lecture			Credits	School C	Credit: 1		
Departme	ent		and Computer E Engineering Cou		Student Grade	4th			
Term		Second Se			Classes per Wee	eek 2			
Textbook									
<u>reacning</u> Instructo	Materials	NAKANISI	JI Hirochi						
	Objectiv		II TIII OSTII						
(1) Under (2) Under (3) Under	rstand the rstand the rstand the	basics of horbasics of the	ics. ermodynamics.	ration phenomena	in mechanics.				
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	nent 1		of vibration ph correctly and a		Can explain the of vibration phe apply them to s questions.	nomena and	Cannot explain the basic concepts of vibration phenomena or apply them to specific questions.		
Achievem	nent 2		Can explain th of optics corre them to specif accurately.		Can explain the of optics and ap specific question	ply them to	Cannot explain the basic concepts of optics or apply them to specific questions.		
Achievem	nent 3				Can explain the of thermodynan them to specific	nics and apply	Cannot explain the basic concepts of thermodynamics or apply them to specific questions.		
Achievem	nent 4		the experimen themselves an	rate insight into ts conducted by d summarize the riately in a report.		nducted by summarize the	Cannot give insight into the experiments conducted by themselves or summarize the results in a report.		
Assigne	ed Depar	tment Obj	ectives						
Teachin	ng Metho	d							
Outline		Among th	e major fields ir	classical physics,	this course will le	ecture on vibra	tion in mechanics, optics, and		
Style				lso involve mecha			cises and quizzes. In addition,		
Notice		Instead of problem) being able the various Students attitude.	learning each by memorizing to apply them is laws, and try can earn extra petc. in the class.	it individually, stuo to specific situatio to understand cor points by submittir	sult of applying the dents should under ons). Also, studen ncepts in physics ng voluntary assig	erstand the law ts should be av systematically. Inments, and lo	ticular situation, how to solve the vs that govern them (including ware of the relationships between ose their points depending on their of the laboratory, etc.		
Charact	teristics		Division in Le						
☑ Active	Learning	•	☐ Aided by I	CT	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Dlan								
Course	riall	-	heme		Ι,	Goals			
			everal topics ab	out vibration			mped vibration.		
			everal topics ab			_earn about da _earn about foi	•		
			everal topics ab				upled vibration.		
	3rd	4th B	asics in optics				s of geometrical optics.		
	Quarter		asics in optics				s of light as a wave.		
		6th B	asics in optics			_earn about int	erference.		
		7th B	asics in optics			_earn about dif	fraction.		
2nd		8th M	lidterm exam						
Semeste 9th 1		lechanical expe	iments	\[\frac{1}{1}	_earn how to c	onduct and report experiments on nechanical measurement.			
r		10th M	lechanical exper	iments	ı	_earn how to c	onduct and report experiments on nechanical measurement.		
	4th Quarter 12th		asics in thermo			Learn the basics of thermodynamics.			
			asics in thermo	dynamics	Į.	Learn how to handle specific heat.			
			asics in thermo	•		Learn how to handle the Carnot cycle.			
			asics in thermo	•		Learn about the second law of thermodynan			
			asics in thermo	dynamics	l	_earn about th	e irreversible change.		
		16th F	inal exam						

Evaluation Method and Weight (%)									
	Examination	Exercise / Short test	Report	Total					
Subtotal	54	36	10	100					
Basic Proficiency	0	0	0	0					
Specialized Proficiency	54	36	10	100					
Cross Area Proficiency	0	0	0	0					

								Tunnaiant Analysis as
А	kashi Co	llege	Year	2023			ourse Title	Transient Analysis on Electric Circuits
	Informa				1		Г	
Course Co		5430			Course Categor			ed / Compulsory
Class Forr	mat	Lecture	1.0		Credits		School C	redit: 1
Departme	nt		l and Computer l Engineering Co		Student Grade		4th	
Term		First Sen	nester		Classes per We	ek	2	
Textbook Teaching								
Instructor		SUYAMA	Taikei					
	Objectiv							
physical n (1) Single Unders (2) Multip Multiple (3) Distrib	neaning. T energy citand and s le-energy types of outed-elem	hree types rcuits (R-L solve single circuits (R- energy que nent circuits	of circuits will be circuits, R-C circ energy circuits. L-C circuits) estions. Basic des	e covered: uits) sign knowledge of c	oscillation circuit	s.		nematical interpretation but also
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		Isolutions of a	r circuits (R-L circuits): ne questions and single-energy olve real-world	Single-energy of circuits, R-C cir Understand the solutions of sin circuits.	e questi	ions and	Single-energy circuits (R-L circuits, R-C circuits): Do not understand the questions and solutions of single-energy circuits.
Achievem	ent 2		circuits): Can	gy circuits (R-L-C solve multiple gy questions, as isic design of cuits.	Multiple-energy circuits): Under types of energy well as the bas oscillation circu	/ proble ic desig	ems, as	Multiple-energy circuits (R-L-C circuits): Do not understand multiple types of energy problems or the basic design of oscillation circuits.
Achievem	ent 3		Understand the associ world lines su communication	on lines and lines, and solve	Distributed-eler Understand the and the associa world lines such communication transmission lir	e basic ation wi h as ı lines a	properties ith real-	Distributed-element circuits: Do not understand the basic properties and the association with real-world lines such as communication lines and transmission lines.
Assigne	d Depar	tment Ob	jectives					
	g Metho		-					
Outline		Ithe trans	sient phenomena	of single- and mul	ltiple-eneray circ	cuits an	าd distribเ	ient phenomena, and learn about uted-element circuits. We will h transient phenomena.
Style		Students 100% or The mini The crite (1) Unde (2) Unde element	who miss 1/3 cm periodic exams mum score for a pass is erstand the basic erstand and can circuits	or more of classes v a pass will be 60 ma the following three a questions and solu	vill not be eligible arks on the above points: utions for transie henomena in sir	e for ev e exan ent phen ngle- ar	valuation. ns. nomena. nd multipl	e-energy circuits and distributed-
Notice		Istudy the	e Laplace transfo	nly involve solving orm and inverse cor or more of classes v	nversions of vari	ious ma	athematic	ace transform, students need to al functions. grade.
Charact	eristics o	of Class /	Division in Lo	earning	1			
☐ Active	Learning		☐ Aided by I	СТ	☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan	<del></del>						
			Theme		1	Goals		
1.4		1st	solving Describe the bas phenomena and how to handle tl	nsient phenomena sic concepts of tran provide learning g nem. Explain how t mena questions in a	sient uidance on o solve			v to solve transient phenomena ingle-energy R-L circuit.
1st Semeste r	1st Quarter	2nd	In general, trans circuits do not co of the electrosta exists. Learn abo	mena in single-ene sient phenomena in ause vibrations bec tic or magnetic fielo out such circuits.	a in R-L or R-C because only one field energies  Onderstand that a translent phenomena of the electrostatic or magne			does not cause vibration because electrostatic or magnetic field
		Jiu	basic questions	mena in single-ene evious week, expla using Laplace trans Iling initial values.	e-energy circuits (2) explain how to solve transforms that are questions.			

Angle				1			1		
Definition of Laplace transforms, theorem and inverse conversion of Laplace transforms and provides guidance on how to use it to solve questions. Explain and inverse conversion of the Laplace transform that is necessary to solve actual questions.    The basics of circuit analysis using the Laplace transform.			4th	Learn about transi energy circuits wh	ient phenomena	in śingle- ` ´	energy circuit wh		
Comparison   Com			5th	Definition of Lapla inverse conversion Define Laplace tra on how to use it to do exercises on th inverse conversion	n of Laplace trans nsforms and pro- o solve questions se various theore n of the Laplace t	sforms vides guidance a. Explain and m and the ransform that			
Part   Do exercises on transient phenomena in single-energy circuits.   Transient phenomena in multiple-energy circuits   In a circuit where magnetic field energy and electrostatic energy both exist, in other words, a circuit that the basic properties in a circuit where magnetic field energy and electrostatic energy both exist, in other words, a circuit that the basic some second may be an adverse not. Learn about such circuits.   Transient phenomena in multiple-energy circuits, and how to solve them sing differential equations.			6th	transform For a basic circuit to use the Laplace	containing L or C transform to de	c, explain how termine the			
Sth			7th	Do exercises on tr	ansient phenome	ena in single-	Do exercises on	transient phei	nomena in single-
Substitute   Sub									
Subtotal   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Pet			8th	In a circuit where electrostatic energicircuit that consist equations will become there will be cases	gy both exist, in c is of L, C, and R, ome second orde s in which vibration	other words, a the differential er ones, and ons occur and	multiple-energy	circuits, and h	
10th			9th	(2) Learn about transi multiple-energy LI	ient phenomena RC circuits when	of discharge in	multiple-energy	LRC circuits w	hen a DC
Part   Part			10th	(3) Learn about transi alternating electro	ient phenomena motive force is a	when an	alternating electi	romotive force	ena when an e is applied to a
Quarter   12th		2nd	11th	phenomena in dist Derive the basic e circuits during stea phenomena and e	tributed-element quations of distri ady-state and tra	circuits. buted-element Insient	phenomena in di Can derive the b element circuits phenomena and	istributéd-eler asic equations during steady	ment circuits. s of distributed- y-state and transient
Learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. Find the wave propagation speed on the line.    13th			12th	Transient phenom circuits (1) Introduce solution	s using the Lapla	ice transform	circuits (1) Understand the solution of infinite, lossless, and		
14th   Do exercises on multiple-energy circuits and distributed-element circuits.   15th   Total review   16th   Final exam   Final exam   Final exam   Final exam   Final exam   Final exam   Foresentation   Presentation   Presentation   Presentation   Subtotal   100   0   0   0   0   0   0   0   0			13th	circuits (2) Following the prevalent transient pher circuits using the I	vious week, learn nomena in distrib Laplace transforn	how to solve uted-element n. Find the	distributed-element circuits using the Laplace transform. Can find the wave propagation speed		
Total   Final exam   Final ex			14th	Do exercises on m	nultiple-energy ci	rcuits and	Do exercises on		gy circuits and
Evaluation Method and Weight (%)  Examination Presentation Wutual Evaluations between students  Subtotal 100 0 0 0 0 0 0 0 0 100  Basic Proficiency 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			15th	Total review			Total review		
Examination Presentation Wutual Evaluations between students Behavior Portfolio Other Total  Subtotal 100 0 0 0 0 0 0 0 0 100  Basic Proficiency 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							Final exam		
Examination Presentation Evaluations between students Behavior Portfolio Other Total  Subtotal 100 0 0 0 0 0 0 0 0 100  Basic Proficiency 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Evaluati	on Met					Т	1	1
Basic Proficiency         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         100         100         0         100         0		E>	camination	Presentation	Evaluations between	Behavior	Portfolio	Other	Total
Proficiency         0         0         0         0         0         0           Specialized Proficiency         100         0         0         0         0         100           Cross Area         0         0         0         0         0         0         0	Subtotal	10	00	0	0	0	0	0	100
Proficiency 100 0 0 0 0 100 Cross Area 0 0 0 0 0 0 0 0		, 0		0	0	0	0	0	0
	Proficiency	, 10	00	0	0	0	0	0	100
					0	0	0	0	0

А	kashi Co	ollege	Yea	ar	2023			С	ourse Title	Electronic Circuits II	
Course	Informa	tion	•		•						
Course Co	ode	5431					Course Category		Specializ	ed / Compulsory	
Class Forr	mat	Lecture					Credits		School C	redit: 1	
Departme	ent	Electrical	and Compu Engineering	uter E a Cou	ingineering Irse		Student Grade		4th		
Term		Second S		9 000			Classes per Weel	Veek 2			
Textbook						•	•				
Teaching		OHMUKA	T Macata								
Instructor	Obiectiv	OHMUKA	1 Masato								
The goal i 1) Unders them, and 2) Accura these circ 3) Accura 4) Accura	s to achievitand the of the can analytely under	ve the follow tharacteristic yze these cilestand the postand the p	cs of active rcuits. rinciples and	elem d pro	ents, accurately perties of negat	tive-	feedback circuits	and	various a	operties of basic circuits using amplifier circuits, and can analysis analyze and design these circuits. circuits, and can analyze and	
Rubric											
	Ide			el			Standard Level			Unacceptable Level	
Achievem	ent 1		of active understar	elem nd th s of b	e characteristic ents, accurately e principles and pasic circuits usi analyze these	/ d ing	Understand the confactive element the principles and basic circuits using an analyze these	ts, ur d pro na th	nderstand perties of em, and	Do not understand the characteristics of active elements or the principles and properties of basic circuits using them.	
Achievem	ent 2		principles negative- various a	and feedl mplif	derstand the properties of pack circuits and ier circuits, and nese circuits.	d I	Understand the properties of neg circuits and vario circuits, and can circuits.	jative jus a	e-feedbac mplifier	Inogative feedback circuits and	
Achievem	Achievement 3			s acc ind d	e principles and urately, can esign circuits iic amplifiers.		Understand the pr properties, can an design circuits usin amplifiers.		ze and	Do not understand the principles and properties of circuits using arithmetic amplifiers.	
			principles oscillator, demodula	and mod ator c	derstand the properties of Julator, and ircuits, and can esign these	,	Understand the properties of osc modulator, and c circuits, and can design these circ	illato lemo anal	r, dulator	Do not understand the principles and properties of oscillator, modulator, and demodulator circuits.	
	d Depar g Metho	tment Ob	jectives								
Outline	9 1 101110	We will e			of analogue elect), and operati			acti	ve eleme	nts such as diodes, transistors,	
Style		Classes v	ill be held in a lecture style, mainly by explaining ses and design assignments as appropriate.				by explaining co	nten	t following	g the textbook. Students will work	
Notice		Students	are require	d to	learn in an activ	ve m	•	tion	_	its themselves. If possible, they	
Charact	aristics (	of Class /				25 W	iii flot be eligible	101 a	passing (	grade.	
☐ Active		or Class /	☐ Aided		_		☑ Applicable to □	Rem	ote Class	☐ Instructor Professionally Experienced	
Course	Plan										
Course	i idii	-	Theme				G	ioals			
				ampl	fier circuit 1		U	nder	stand the	characteristics of differential	
		2nd [	Differential a	ampl	fier circuit 2		U		stand how	w to design differential amplifier	
		3rd	Voltage follo	ower	circuit		U	nder		emitter follower and source	
and	3rd	4th	Characterist	ic of	an operation ar	mplif	ior U		stand the	characteristics of an operation	
2nd Semeste r	Quarter	5th	Basic amplif	ier ci	rcuit of an oper	atio	n amplifier U	nder sing	stand the	basic design of an amplifier circuit ion amplifier.	
		6th	Application (	circui	t of an operatio	n ar	nnlifior U	nder		ious application circuits using	
		7th	RC oscillator	r circ	uit		U	nder		RC oscillator circuit used as a low-	
		8th	Midterm exa	am				·			
	4th Quarter	9th l	_C oscillator	circu	uit		U	Understand the LC and crystal oscillator circuits, such as Hartley and Colpitts.			

	10t	h V	ariable frequency oscillator circ	uit	Understand the o	scillator circuit, which allows the ncy to be variable.
	11t	h TI	he basics of modulation and de	modulation	Understand the rand demodulation etc.	elationship between modulation n and the features of AM, FM,
	12t	h M	odulation circuit		Understand the A	AM and FM modulation schemes.
	13t		emodulator circuit 1		Understand the A	AM demodulation scheme.
	14t	h D	emodulator circuit 2		Understand the FM demodulation scheme.	
	15t	h Po	ower circuit		Understand the basics of power circuits used in electronic circuits and regulated power circuits	
	16t	h Fi	inal exam			
Evaluation	on Method	and We	eight (%)			
			Examination	Other		Total
Subtotal			70	30		100
Basic Profi	sic Proficiency		0 0			0
Specialized	d Proficiency		70 30			100
Cross Area Proficiency			0 0			0

А	kashi Co	llege	Year	2023		Course Title	Control Engineering I	
Course	Informat	tion	<b>'</b>	- 1		•		
Course Co	ode	5432			Course Categor	y Specializ	zed / Compulsory	
Class Forr	mat	Lecture			Credits	Academ	ic Credit: 2	
Departme	ent	Electrica   Electrica	I and Computer I Engineering Co	Engineering urse	Student Grade	4th		
Term		1	Semester		Classes per We	ek 2		
Textbook Teaching								
Instructor		ENOMOT	ΓΟ Rvuii					
Course	Objectiv		, 3					
<ol> <li>Unders</li> <li>Can ex</li> <li>Can ex</li> <li>Can ex</li> </ol>	stand the s plain trans plain stead plain frequ	ystem repr sient proper ly-state pro Jency chara	resentation using rties using step roperties using that acteristics using a	e steady-state devi	ation.			
Kubiic			Ideal Level		Standard Level		Unacceptable Level	
Achievem	chievement 1			transfer function	Can explain how transfer functio		Do not know how to derive a transfer function.	
Achievem	ent 2		Can simplify a consisting of sand feedback	a block diagram series, parallel, bonds.	Can simplify ser feedback bonds diagram.	rial, parallel, ar s in a block	Do not understand the components of a block diagram.	
Achievem	ent 3			II the indicators for insient properties ise.	Can explain sor indicators for extransient properesponse.	valuating	Cannot explain the indicators for evaluating transient properties in step response at all.	
Achievem	ent 4		Can derive th method of ste deviation and steady-state accurately.	eady-state can calculate the	Know the calcul (formula) of ste deviation.		Cannot explain steady-state deviation.	
Achievement 5  Can express the frequency response of a system obtained by combining the basic elements, in a Bode plot.			system obtained the basic	Can express the response of son elements in a B	ne of the basic	Do not know a Bode plot.		
Achievem	ent 6		Can determin the feedback accurately usi stability criter		Can explain the stability determ Nyquist stability	ination using tl	Cannot explain the Nyquist stability criterion.	
Assigne	d Depart	tment Ob						
Teachin	g Metho	d						
Outline		refrigera	itors, have a auto focusing on trans	e not very aware of in our daily lives, almost every device, including cars, air conditioners, s, have a automatic control function. In this lecture, students will learn the basics of classissing on transfer functions and frequency response. In addition, students will deepen theiring of the class content through exercises given as assignments as appropriate.				
Style		lintroduc	ed.	of transfer functions, block diagrams, time response, frequency response, and stability will be				
Notice		By think knowled credits, s assignm hours of study tir	ing and solving t ge of Laplace co students may no ents. The specifi study in total. T ne required for p	the exercises by the nversion and revers the eligible for pas check conditions will be	emselves, the stu se conversion is a ssing depending of shown during the the learning time and completing a	idents become the premise of on the submiss ne lecture. This e guaranteed in assignment rec	familiar with the calculations. Basic this course. Since this subject offer ion and content of the course's content will amount to 90 n classes and the standard self- orts.	
Charact	eristics o	of Class /	Division in L	earning	T			
☑ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
			Theme		†	Goals		
2nd 3rd Semeste Quart		1st	Introduction			method, etc. o	e objectives and the grading f the course. w feedback control works.	
	3rd Quarter	2nd	Laplace transfor	m and inverse tran	sform	Can describe the transform. Can calculate t	ne expression of the Laplace he inverse Laplace transform based ion decomposition or completing	
		3rd	Modeling with d	ifferential equations	5.	Can derive a model (differential equation) that represents the dynamic characteristics for a typical system.		
		4th	Transfer function	ns		Can derive a transfer function using the Laplace transform.		

		5th	Block diagrams			Can simplify a	Can simplify series, parallel, and feedback bonds. Can simplify a block diagram consisting of the three bonds above.			
		6th	Calculation of trai	nsient response		transform. Can calculate t	Can calculate the inverse Laplace transform based on partial fraction decomposition or completing			
		7th	The basic elemen	ts and their time	response	Can explain the Can explain the elements in ter	e characteristic	e six basic elements. cs of the basic sponse.		
			Evaluation metric	of the time resp	onse	Can explain the properties usin Can explain ste Can calculate s	a step respons	netric of transient se. viation. eviation.		
			What is frequency	/ response		Can explain the	e frequency tra	frequency response. ansfer function and gain and phase.		
			Vector locus		Can explain the of basic eleme Can draw a ve	nts.	cs of the vector locus			
		11th	Bode plots	plots			Can explain the characteristics of Bode plots of a differential, integral, first-order lag factor, and second-order lag factor.			
	4th  Quarter	- 12th	Combining Bode	olots		Can combine E				
		13th	Stability of a cont	Stability of a control system			Can explain the stability condition. Can determine the stability from the position of the poles of the transfer function.			
		14th	Stability criterion	of a feedback co	ntrol system	Can determine the stability of a feedback control system using Nyquist stability criterion.				
		15th	Review			Review the content of classes in the second half of the semester.				
		16th	Final exam			0 50				
Evaluati	ion Me	thod and	Weight (%)							
		xamination		Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	7	'0	30	0	0	0	0	100		
Basic Proficienc	ency 0		0	0	0	0	0	0		
Specialize Proficienc	ecialized 70		30	0	0	0	0	100		
Cross Are Proficienc	ross Area		0	0	0	0	0	0		

Д	Akashi Co	ollege	Year	2023		Course Title	Experiments of Electrical Engineering I A		
Course	Informa	tion	•						
Course Co		5433			Course Category		red / Compulsory		
Class For	mat	Experim			Credits	School C	credit: 2		
Departme	ent		l and Computer I I Engineering Co		Student Grade	4th			
Term		First Ser	nester		Classes per Wee	ek 4			
Textbook Teaching	and/or Materials								
Instructo	r	HIROTA	Atsushi,TERASA	WA Shinichi,HIRAN	O Masatsugu,NO	MURA Hayato			
	Objectiv								
2. Can co	nduct exp	eriments in	a planned mann	oup and carry out er based on the ba in a report with co	isic ability, and ar	nalyze the resu	the group members. Its of an experiment.		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	nent 1		Can actively p experiments b out experimer with the group	by group and carry	Can carry out ex cooperation with members.		Cannot carry out experiments.		
Achievem	nent 2		planned mann	experiments in a ner and analyze an experiment.	Can analyze the experiments.	results of the	Cannot analyze the results of an experiment.		
Achievem	nent 3		an experimen	ze the results of t in a report with g expressions and e.	Can summarize an experiment in correct writing e	n a report with	Cannot summarize the results of an experiment in a report.		
Assigne	ed Depar	tment Ob	ojectives						
Teachin	ng Metho						ically while understanding and		
Outline		help students measure power cibe super	dents develop au ement circuits; Ka rcuits. The exper vised by persons s will conduct exp	tonomy, coordination, controls; Nom iments in weeks 2 sengaged in the dependent on themoty.	ion, planning, and ura and Terazaw to 5 of the first s evelopment of ele es closely related	d leadership. Hi a, circuits and semester and w ectronic devices to the electrica	will be conducted by groups, to irano will supervise the microcomputers; and Hirota, week 4 of the second semester will and other activities in a company. al and electronic fields, such as		
Style		They wil	I actively conduc provided on the	t experiments give e spot by the instru	, based on their o ctor of the experi	own necessary iment.	ve, and submit a report on them. preparation and pre-study, and		
Notice		must cle	an the lab and poweek of the first	ts have not been received by the due date, students will not receive a passing grade. Students in the lab and put away the equipment. Precautions regarding the experiments will be given during eek of the first and second semesters. Students have to participate in all experiments. will not be graded unless they have participated in all experiments.					
Charact	eristics	•	Division in Le		<u> </u>		·		
□ Active	Learning	,	☑ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
			Theme			Goals	<u> </u>		
		1st	Experiment guid	ance	6	Jnderstand the engineering exp :heme of each o	various precautions related to periments and the outline of the experiment.		
		2nd	FPGA1 (Circuit d	esign)	(	(Integrated Dev	ic circuit inputs using IDE velopment Environment).		
		3rd	FPGA2 (emulato	r debug)		Jnderstand the simulation and debugging of ogical circuits using the IDE (Integrated Development Environment).			
	1st Quarter	4th	FPGA3 (impleme	entation and operat	.ioii) F	Understand circuit implementation in FPGA(Field Programmable Logic Array).			
1st Semeste r	Quarter	5th	FPGA4 (evaluation	on)	e F	Understand the operation, debugging, and evaluation of implementation circuitry with FPGAs.			
-		6th	Report organizat	ion	€	experiment into	•		
		7th	Computer measu	urement I.	F	processing usin nterface.	aveform measurement and g a computer and measurement		
		8th	Computer Measu	rement II.	ā	an interface mi	stethoscope using a computer and crophone for measurement.		
	2nd Quarter	9th	Report organizat		€	experiment into	<del></del>		
		10th	Flectric motor sr	ectric motor speed control			Understand how to control the speed of an electric motor.		

		11th	Direct current vol	tage stabilizatior	n circuit	Can investigat stable circuit i	Can investigate the characteristics of a voltage stable circuit in a rectification circuit.			
		12th	Report organizati				Can examine and compile the results of the experiment into a report.			
		13th	Oscillation circuits	Oscillation circuits			e various chara al oscillation cir	acteristics for various cuits.		
		14th	Low frequency ar	ow frequency amplifier characteristics			the circuit oper of the push-pu	ation and ull amplifier.		
		15th	Report organizati	Report organization			and compile the	e results of the		
		16th	No final exam							
Evaluati	on M	ethod and	Weight (%)							
		Report	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		80	0	0	20	0	0	100		
Basic Proficiency			0	0	0	0	0	0		
Specialize Proficiency	Specialized Proficiency 80		0	0	20	0	0	100		
	Cross Area Proficiency		0	0	0	0	0	0		

А	kashi Co	ollege	Year	2023		Course Title	Experiments of Electrical Engineering I B		
	Informa				<u> </u>				
Course Co		5434			Course Categor		ed / Compulsory		
Class For	mat	Experime	ent I and Computer E	Enginooring	Credits	School C	Credit: 2		
Departme	ent		Engineering Cou		Student Grade	4th			
Term		Second 9	Semester		Classes per We	asses per Week 4			
Textbook Teaching									
Instructor	-	HIROTA	Atsushi,TERASA\	WA Shinichi,HIRAN	O Masatsugu,				
	<u>Objectiv</u>								
2. Can co	nduct exp	eriments in	a planned manne	oup and carry out out on the bain on the bain a report with co	sic ability, and a	nalyze the resu	the group members. Its of an experiment.		
Rubric					T				
			Ideal Level	articipato in	Standard Level		Unacceptable Level		
Achievem	ent 1		Can actively posteriments be out experiment with the group	y group and carry its in cooperation	Can carry out e cooperation wit members.	xperiments in h the group	Cannot carry out experiments.		
Achievem	ent 2		planned mann	xperiments in a er and analyze an experiment.	Can analyze the experiments.	e results of the	Cannot analyze the results of an experiment.		
Achievement 3			an experiment	te the results of in a report with expressions and expressions and	Can summarize an experiment i correct writing	in a report with	Cannot summarize the results of an experiment in a report.		
Assigne	d Depar	tment Ob	jectives						
Teachin	g Metho	d							
help stude Terazawa, semester v in a compa			dents develop aut a, microcompute r will be supervisi pany. s will conduct exp ment, circuits, co	tonomy, coordinati rs; and Hirota, pov ed by persons enga periments on theme ontrol, and microco	on, planning, an ver circuits. The aged in the deve es closely related amputers, in grou	d leadership. Ka experiments in elopment of electrications of the electrications of four to five	will be conducted by groups, to ami will supervise controls; weeks 2 to 4 of the second ctronic devices and other activities al and electronic fields, such as we, and submit a report on them.		
Style		They will	l actively conduct	actively conduct experiments give, based on their own necessary preparation and pre-study, and provided on the spot by the instructor of the experiment.					
Notice		If all rep must cle the first	orts have not bee an the lab and pu week of the first	rts have not been received by the due date, students will not receive a passing grade. Students in the lab and put away the equipment. Precautions regarding the experiments will be given during reek of the first and second semesters. Students have to participate in all experiments. will not be graded unless they have participated in all experiments.					
Charact	eristics (	•	Division in Le	•	o participatoa	ан охронитонно	•		
☑ Active		,	☑ Aided by IC		☑ Applicable to	Remote Class	☑ Instructor Professionally Experienced		
Course	Dlan								
Course	ı iall		Theme			Goals			
			Experiment guida	ance		Understand the	various precautions related to periments and the outline of the experiment.		
		2nd	Microcomputer c	ontrol I		Can build contromicrocomputers	ol systems using embedded s.		
		3rd	Microcomputer c	ontrol II		microcomputers			
	3rd Quarter	4th	Microcomputer co	ontrol III		microcomputers	ol systems using embedded s.  nd compile the results of the		
2nd		5th	Report organizat	ion		experiment into	a report.		
Semeste		6th	Transistor amplif	ier			ansistor amplifier		
[		7th	Report organizat	ion		Can examine ar experiment into	nd compile the results of the o a report.		
		8th	Equivalent circuit	of the transforme	ı	of the transforn			
		9th	Report organizat	ion		Can examine ar experiment into	nd compile the results of the		
	1+h	10th	PLC Sequence co	ontrol I		•	basics of PLC sequence control.		
	4th Quarter	11th	Report organizat	ion		Can examine ar experiment into	nd compile the results of the oa report.		
		12th	PLC Sequence co	ontrol II		Can construct PLC sequence control systems meet the specified specifications.			

		13th	Report organizati	on		Can examine a experiment into	Can examine and compile the results of the experiment into a report.			
		14th	Variable speed co motor by means	Variable speed control of the inductive electric motor by means of a PWM inverter			principles of PW f inductive electr	M inverters and ic motors.		
		15th	Summarizing and				and organize the	e experiment.		
		16th	No final exam							
Evaluati	Evaluation Method and Weight (%)									
		Report	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		80	0	0	20	0	0	100		
Basic Proficiency	у	0	0		0	0	0	0		
Specialized Proficiency 80		80	0	0 20		0	0	100		
Cross Area		0	0	0	0	0	0	0		

А	kashi Co	llege	Year	2023			ourse Title	Off-Campus Practical Training A	
Course	Informat	tion	·	•		•		-	
Course Co		5435			Course Catego	ry	Specialize	ed / Elective	
Class For	nat	Practical	training		Credits		School C	redit: 1	
Departme	ent	Electrical Electrical	and Computer E Engineering Cou	Engineering urse	Student Grade		4th		
Term		Year-rou	nd		Classes per We	eek	1		
Textbook Teaching									
Instructor	-	All facult	y of the departm	ent					
Course	Objectiv	es							
(1) Can e (2) Can u	xperience se slides to	some of the preport on	e actual technical the things they h	activities related t nave experientially	o engineering. learned.				
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		Can experience some of the actual technical activities related to engineering collaboratively.		Can experience actual technica related to engi	l activit	ies	Cannot experience some of the actual technical activities related to engineering.	
Achievem	ent 2		things they ha	to report on the ve experientially be 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 Ob	jectives						
Teachin	g Metho	d							
Outline		fields of e	electrical and ele	in companies, gove ctronic engineering echnology and car	and informatio	n engir	neering. T	rporations, universities, etc. in the hrough this experience, students learning.	
Style		Follow th	ie guidance giver	n by instructors at	the internship d	estinati	on.		
Notice Charact	eristics (	teacher. Students Student i Students such as r	should actively oneed to be respe who spend less	experience real-wo ctful of courtesies, than 5 days or less t be eligible for a p	orld technical act attire, language s than 32 hours	tivities. e, and o	other beh	ntact with your year 4 class aviors appropriate as an internee. in 2 hours may be replenished by	
		or Class /						☐ Instructor Professionally	
☐ Active	Learning		☐ Aided by I	CT Applicable to		o Remo	ote Class	Experienced	
C	Dl								
Course	Pian		 Theme			Goals			
				end of first semes	ter)	Can understand the precautions of student training and the manners at the training site.			
		2nd :	Intern (during su	ımmer vacation)	·	Can experience some of the technical activities at the training site.			
		3rd	Same as above			Same as above			
	1st Quarter		Same as above			Same as above			
	Quarter		Same as above				Same as above		
			Same as above				as above		
		7th	Same as above			Same	as above		
1st Semeste			Same as above			Same	as above		
r			Same as above				as above		
			Same as above				as above		
			Same as above Same as above				as above as above		
	2nd		Same as above				as above as above		
	Quarter		Same as above				as above		
		15th		ing (done at the b	eginning of the nounced in the			outcome of the internship using	
			No final exam						
		1st							
		2nd							
ا مرا		3rd							
2nd Semeste	3rd	4th							
r	Quarter	5th							
		6th							
		7th 8th							
		JULI							

		9th						
		10th						
		11th						
	4th	12th						
	Quarter	13th						
		14th						
		15th						
		16th						
Evaluat	ion Meth	nod ar	nd Weight (%)					
			Training destination evaluation	Report	I	Presentation	Total	
Subtotal	Subtotal		30	30	4	40	100	
Basic Pro	Basic Proficiency		0	0	(	0	0	
Specialized Proficiency		ncy	30	30	4	40	100	
Cross Area Proficiency		ncy	0	0	(	0	0	

А	kashi Co	llege	Year	2023		Course Title	Off-Campus Practical Training B	
Course	Informat	tion						
Course Co	ode	5436			Course Category	Specializ	red / Elective	
Class Forr	mat	Practical trai			Credits	School C	Credit: 2	
Departme	ent	Electrical an Electrical En	d Computer Ei gineering Cou	ngineering rse	Student Grade	4th		
Term		Year-round			Classes per Weel	k 2		
Textbook								
Teaching Instructor		All faculty of	the departme	ent				
Course	Objectiv							
(1) Can e	xperience	some of the ac	tual technical things they h	activities related ave experientially	to engineering. learned.			
Rubric		<u>,                                      </u>						
		I	deal Level		Standard Level		Unacceptable Level	
Achievem	Achievement 1		Can experience octual technica elated to engi ollaboratively.	l activities neering	Can experience s actual technical a related to engine	activities	Cannot experience some of the actual technical activities related to engineering.	
Achievem	ent 2	t le	hings they hav	to report on the ve experientially e understood by	Can use slides to things they have learned.			
Assigne	d Depart	ment Objec	tives					
	g Metho							
Outline		Internship is fields of elec	trical and elec	tronic engineering	ernment agencies g and information n exert the knowle	engineering.	orporations, universities, etc. in the Through this experience, students	
Style		1	•		the internship des	_	icarriirig.	
		Students who such as repo	o spend less torting) will not vision in Le	han 9 days or les be eligible for a p arning	s than 72 hours (spassing grade.	shortages with	naviors appropriate as an internee. iin 4 hours may be replenished by	
☐ Active	Learning		☐ Aided by ICT ☐ Applicable to		Remote Class	Experienced		
Course	Plan							
		The	me		G	ioals		
		1st Gui	dance (at the	end of first semes	ster) C	Can understand the precautions of student training and the manners at the training site.		
		2nd Inte	ern (during sui	mmer vacation)	С	Can experience some of the technical activithe training site.		
		3rd San	ne as above			ame as above		
	1st Quarter		ne as above			ame as above		
	Quarter	5th San	ne as above		S	Same as above		
		6th San	ne as above		S	ame as above		
1st			ne as above			ame as above		
Semeste  r			ne as above			ame as above		
			ne as above			ame as above		
			ne as above ne as above			ame as above ame as above		
	2nd		ne as above			ame as above		
	Quarter		ne as above			ame as above		
			ne as above			ame as above		
		15th San	ne as above		S	ame as above		
16th No final exam								
		1st Inte	ern (during su	mmer vacation)	C	an experience ne training site	some of the technical activities at e.	
		2nd San	ne as above			ame as above		
2nd			ne as above		S	ame as above		
Semeste	3rd Quarter		ne as above			ame as above		
l.			ne as above			ame as above		
		<del>                                     </del>	ne as above ne as above			ame as above		
	7t					ame as above ame as above		
L	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, g middle of the second	g (done at the beginr Irades will be announ Id semester)	ning of the ced in the	Can report the outcome of the internship using slides.		
		16th	No final exam					
Evaluat	ion Meth	od an	d Weight (%)					
			Training destination evaluation	Report	Р	Presentation	Total	
Subtotal			30	30	4	10	100	
Basic Prof	ic Proficiency 0		0	0	)	0		
Specialize	Specialized Proficiency 30		30	4	10	100		
Cross Are	a Proficier	псу	0	0	0	)	0	

P	Akashi Co	ollege	Year	2023		Course Title	Computer Architecture
Course	Informa	tion					
Course C		5437			Course Category	<i>'</i>	red / Elective
Class For	mat	Lecture			Credits	Academ	ic Credit: 2
Departme	ent		and Computer E Engineering Cou		Student Grade	4th	
Term		First Seme	ester				
Textbook	and/or Materials						
Instructo		NOMURA I	Hayato				
Course	Objectiv	es	•				
<ol> <li>Unders</li> <li>Unders</li> </ol>	stand the i stand the o	pasic structur nstruction secontrol archite nemory archi	t architecture. ecture.	lity of a computer.			
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1		Understand an basic structure of a computer.	nd can explain the e and functionality	Understand the and functionality		
Achieven	nent 2		Understand an instruction arc	nd can explain the hitecture.	Understand the architecture.		Do not understand the instruction architecture.
Achievem	nent 3		control archite		architecture.		Do not understand the control architecture.
			Understand an memory archit	d can explain the ecture.	Understand the architecture.	memory	Do not understand the memory architecture.
		tment Obj	ectives				
Teachir	ng Metho						
Outline		In this cou theory of t computer.	the CPU instruct	vill learn the overvi	iew of the basic s tive control, men	structure and function of the structure	unctionality of a computer, and the loutput devices that make up a
Style		Classes wi retention.	ll mainly involve	e lectures, but if no	ecessary, there v	vill be exercises	to improve understanding and
Notice Charact	eristics	semester, Students v	ss students are	us of how the CPU more of classes w	into account the , which is the co vill not be eligible	contents of Op re hardware of for evaluation	erating System held in the first a computer, execute a process.
	Learning	01 01000 / 1	☐ Aided by IC		☐ Applicable to	Remote Class	☐ Instructor Professionally Experienced
	DI						
Course	Plan	 	h a ma a		T.	Capla	
			heme			Goals Understand the	e basic structure and functionality
				puter architecture	(	of a computer.	
		2nd D	ata representat pating-point for	ion (1): Fixed-poir mats	nt format,	Understand the formats for rep	e fixed-point and floating-point resenting numeric data.
		3rd D	ata representat	ion (2): Text data,		Understand the image data.	e representation of text data and
	1st Quarter	4th Ir	nstruction archit estruction set	ecture (1): Basic o	configuration,	Understand the instruction set.	basic CPU configuration and
	Quarter	5th Ir	nstruction archit ddressing mode	ecture (2): Instruc		Understand the mode.	e instruction format and addressing
			nstruction archit equence	ecture (3): Instru		executed.	e order in which the instructions are
1st Semeste	7th Control architecture (1): Control methods			ethods	Understand the controlling inst	e methods and pipelines for ruction execution.	
r	8th Midterm exam				<u> </u>	Midterm exam	
	9th 10th		ontrol architect	ure (2): Interrupts		Understand into instruction exec	errupts that change the flow of cution.
			•	ture (1): Virtual m	erriory ,	virtual memory	
				ture (2): Cache me			the memory and paging.
	2nd Quarter			ture (3): Address t			address translation.
	Quarter	Ir		ture (4): Segment hitecture (1): Type			e segmentation method.  e types of input/output devices and
		in in	put/output dev	ices and their man	agement 1	their managem	ent.
I		cl	nannels	hitecture (2): Inpu			e input and output channels.
		16th Fi	nal exam			Final exam	

Evaluation Method and Weight (%)									
	Examination	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		

A	Akashi College		Year	2023		Course Title	Discrete Mathematics A	
Course	Informa	tion						
Course C		5438			Course Categor		zed / Elective	
Class For	mat	Lecture			Credits	School	Credit: 1	
Departme	ent		and Computer I Engineering Co		Student Grade	4th		
Term		First Sem	ester		Classes per Wee	/eek 2		
Textbook	and/or Materials							
Instructo		HAMADA	Yukihiro					
Course	Objectiv	es						
[1] Can e	explain what op self-dir	at counting i	ontinuous learnii	ng skills by maste	ring the argument	ts used in a m	athematical proof.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		in a classified determine wh		Can explain sets functions, and control whether the car sets are equal	determines	Cannot explain a set and a function, and cannot determine whether the cardinalities of two sets are equal	
Achievem	nent 2		and predicate write a mathe	contraposition tion, and the induction	Can explain the and predicates, mathematical p by contrapositic contradiction, a mathematical ir methods.	and write a roof using pro on and nd the	Cannot explain the propositions and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction methods.	
Achievem	nent 3		Can define ser	ts and functions d correctly.	Can define sets recursively.	and functions	Cannot define sets and functions recursively.	
Assigne	d Depar	tment Ob	jectives					
Teachir	ig Metho	od						
Outline		lfoundatio	ns of computer	science. In this co	atics that deals wi ourse, you will lea form and context	rn about sets a	crete subjects, and one of the and functions, mathematical r.	
Style			vill be held in a l					
Notice		description	n. Trv to solve	the examples or e	tion of the term a exercise problems will not be eligible	vourself and s	itive image from the formal core it against the answer. 1.	
Charact	eristics	of Class /	Division in Le	earning	,			
☐ Active	Learning		☑ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
			Гһете		1	Goals		
		1st E	Basic form				to represent sets or conditions.	
		2nd	Γhe relationship	between the sets		Can perform v basic formulas	arious set operations and can use	
		3rd F				Can explain the basics function.		
		4th F	Function 2/2			and substitutio	e associative law, inverse function on for injection, surjection, bijection function, and composition.	
	1st Quarter	5th I	infinite sets and	cardinality 1/2		Can explain th determine if the equal.	e cardinality of a set and can ne cardinalities of the two sets are	
		6th I	infinite sets and	cardinality 2/2	1	continuum.	e counting and cardinality of the	
1st Semeste r		7th Propositions and proof by contradiction		iction	inverse, and co	e propositions and the converse, ontraposition. Can write proof using contraposition and adiction.		
	8th Midterm exam It is given during class.							
	9th		Predicate			Can explain a true or false a	predicate (a function that takes only s a value).	
	2nd Quarter		Propositional log ability	ic and its limitatio	n in descriptive	propositional le in a logical exp	e logical expression of a ogic and can represent a statement oression. Can explain the logical oredicate logic.	
			_anguage				e basics of formal languages.	
		12th	Mathematical inc	duction 1 of 2			tical proof by induction	
		13th	Mathematical inc	duction 2 of 2		can write mat induction. Can	hematical proof using the complete explain the dual induction.	

	14th	Recursive definition	on		Can define set	ts, functions, et	c. recursively.
	15th	Backus form and	context-free gra	mmar	Can handle Bagrammar.	ackus form and	context-free
	16th	Final exam					
Evaluation	Method and \	Weight (%)					
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	100	0	0	0	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	100	0	0	0	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

А	kashi Co	ollege	Year	2023		Course Title	Discrete Mathematics B		
Course	Informa	tion							
Course Co	ode	5439			Course Category	Specializ	ed / Elective		
Class Forr	mat	Lecture			Credits	School C	redit: 1		
Departme	ent	Electrical En	crical and Computer Engineering Student Grac						
Term Textbook	and/or	Second Sem	nester		Classes per Wee	eek 2			
Teaching Instructor	Matérials	HAMADA Yu	ıkihiro						
	Objectiv		IKITIII O						
[1] Can e	xplain the xplain the	generalized co basics of graph	ncept of being n theory. al language the	equal and being leory.	larger (smaller).				
Rubric			<u> </u>	- ,					
		I	deal Level		Standard Level		Unacceptable Level		
Achievem	ent 1	r	Can explain the elation, partial otal orders acc	orders, and	Can explain the relation, partial of total orders.		Cannot explain the equivalence relation, partial orders, and total orders.		
Achievem	ent 2	(	Can explain the	path, nd tree of graph	Can explain the connectivity, and theory.		Cannot explain the path,		
Achievem	ent 3	f	ree grammar,	s form, context- finite automaton, immar correctly.	Can use Backus free grammar, fi and regular grar	nite automator	Cannot use Backus form, context-free grammar, finite automaton, and regular grammar.		
	d Depar g Metho	tment Objec	ctives		•				
Outline	у месно	Discrete ma foundations	of computer s	cience. In this coι	tics that deals wit urse, you will lear	h finite or disc n about relatio	rete subjects, and one of the ns on a set, graphs and trees,		
Stylo			aton and regul						
Style					on of the term ar	nd get an intuit	ive image from the formal		
Notice		description. Students wh	Try to solve tho miss 1/3 or	ne examples or ex more of classes w	ercise problems y	ourself and sc	ore it against the answer.		
Charact	eristics o	of Class / Di	vision in Lea	arning	T				
□ Active	Learning	[	Aided by IC	Γ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
		The	eme		C	Goals			
		1st Bin	ary relation 1 o	of 2			basics of binary relation.		
		2nd Bin	ary relation 2 o	of 2	Ĺ	inary relation.	omposition and exponentiation of		
		3rd Equ	ivalence relati	on 1/2	<u>C</u>	Can explain the generalization o	equivalence relation, which is a of the concept of equal.		
		4th Equ	iivalence relati	on 2/2	( s	Can handle equ subdivisions of	ivalence class, quotient set, and equivalence relation.		
	3rd Quarter	5th Ord	ler 1 of 2		C	Can explain the order of the ine	partially ordered set and total quality (=) generalization.		
		6th Ord	ler 2 of 2		l∈ In	extremum, max	upper extremum, lower kimum, and minimum values of a d set, and can explain the above ary.		
2nd			term exam given during	class.					
Semeste		8th Illu	stration of bina	ary relation		Can illustrate th Iraph.	ne binary relation as a directed		
			sse diagram, to sure	ppological sort, an	d transitive	Can draw a Has	se diagram of partially ordered plain the closure of topological sort		
		10th Gra	ph basics 1 of	2			basics of graphs.		
	11th Graph basics 2 of 2 4th Quarter				a	Can explain the basics of graphs.  Can explain n-partite graph and several kinds of paths in a graph. Also, can represent a graph by adjacency matrix, adjacency list and incidence matrix.			
	Zuai tu	12th The	e connectivity o	of a graph	C	component, cut edge connectivi	diameter, radius, connected vertex, bridge, connectivity and ty. Also, can explain n-connected nected.		
		13th Tre	е		t	and n-edge connected.  Can explain the fundamental concepts and theorems about trees. Also, can explain ordered tree, positional tree, binary tree and n-ary tree.			

		14th	Finite automaton automaton	and nondetermin	istic finite	Can define FA and NFA formally and draw their state transition diagrams. Also, can determine the language that they accept.			
	15th Regular grammar and regular expression		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.						
		16th	Final exam						
Evaluation	n Meth	nod and V	Weight (%)						
	Ex	amination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	10	0	0	0	0	0	0	100	
Basic Proficiency	0		0	0	0	0	0	0	
Specialized Proficiency	10	0	0	0	0	0	0	100	
Cross Area Proficiency	0		0	0	0	0	0	0	

Akashi Col	Akashi College		2024		Course Title	English Conversation II		
Course Informat	ion							
Course Code	6501			Course Category	General	/ Compulsory		
Class Format	Lecture			Credits	School C	Credit: 1		
Department	Electrical and Electrical En	d Computer E gineering Cou	ingineering Irse	Student Grade	5th	5th		
Term	Second Sem	ester		Classes per Week	2			
Textbook and/or Teaching Materials	Conversation by David Ke	n Strategies: he and Peggy	Pair and Group Ac Dustin Kehe (201	tivities for Develop .4) Pro Lingua Ass	oing Communi ociates, ISBN:	cative Competence (Third Edition) 978-0-86647-369-9.		
Instructor	HERBERT Jo	hn C.						
Course Objective	)C	•	•	•				

## Course Objectives

- 1) Read aloud or speak considering the basic rhythms, intonations, and sound connections in phrases and sentences in order to
- convey one's meaning to a listener.

  2) Learn the rules of English pronunciation and accents and use them properly in order to speak clearly and convey one's meaning
- to a listener.
  3) Memorize the vocabulary learned in junior high school. Learn new vocabulary in accordance with the curriculum guidelines for high school and technical English terms required for professional education, and use them properly.
  4) Learn grammar and sentence structure in accordance with the curriculum guidelines for high school in addition to the grammar and structure learned in junior high school, and use them properly.
  5) Listen to and catch the necessary information from the content spoken in a clear pronunciation at a speed of about 100 words a minute, regarding everyday life and familiar topics.
  6) Speak one's opinions and impressions in English using basic terms, regarding everyday life and familiar topics.
  7) Make explanations and tell stories at a speed of about 100 words a minute in a manner that conveys one's meaning to a listener.
  8) Use conversation strategies to keep an English conversation lively and meaningful.

	nversation	strategies	to keep an English conversation live	ely and meaning	gful.				
Rubric			1	1					
			Mastery Level	Standard Level	1	Unacceptable Level			
Objective 1			Clear pronunciation and natural intonation	Understandable and recognizate	e pronunciation ble intonation	Poor pronunciation using only Japanese katakana to try to speak English and flat intonation			
Objective	Objective 2		Natural accent, stress, and rhythm	Understandable and rhythm	e accent, stress,	Incomprehensible accent, stress, rhythm			
Objective	3		Mastery of all textbook vocabulary	Mastery of mos vocabulary wh focused on in o	st of the textbook ich the teacher class lectures	Mastery of only a few of the textbook vocabulary which the teacher focused on in class lectures			
Objective	4		Mastery of all the grammar from the textbook and from the teacher's lectures	Mastery of mos grammar from from the teach	the textbook and	Mastery of only some of the grammar from the textbook and from the teacher's lectures			
Objective	5		Able to maintain a basic conversation fluently	Able to mainta conversation se	in a basic omewhat fluently	Not able to maintain a basic conversation			
Objective	6		Able to express opinions in English clearly	Able to express English somew		Not able to express opinions in English			
Objective	7		Able to explain ideas fluently in English	Able to explain fluently in Engl	ideas somewhat lish	Not able to explain ideas in English			
Objective	8		Able to use all of the English conversation strategies from the textbook skillfully and with ease	l Fnalish conver	ize and use many sation strategies ook	Not able to recognize or use English conversation strategies from the textbook			
Assigne	d Depar	tment Ob	ojectives						
Teachin	g Metho	d							
Outline			urse focuses on English conversation practice and confidence building. Students will make the English we learned from previous classes come alive in its spoken form.						
Style		Each les This cou given at of the se	son will involve plenty of conversation practice with a different theme and grammar point each wee se also includes the practice and assessment of pronunciation and intonation. A written test will be the end of the semester and speaking tests will be held during class time in the 8th and 15th week mester.						
Notice		individua focused	articipation in English is essential fo al and as a member of a group is 20 and those who are more than 10 m s who miss 1/4 or more of classes v	)% of the final g inutes late for c	grade for this cours class may be count	se. Students who do not stay			
Charact	eristics (	of Class /	Division in Learning						
☑ Active	Learning		☑ Aided by ICT	☑ Applicable t	o Remote Class	☐ Instructor Professionally Experienced			
Course	Plan								
			Theme (Cl. 1)		Goals				
2nd Semeste	2nd 3rd 13t N		Unit 1: Using Rejoinders (Short, na responses in English conversation) Making Following Questions Conversation practice.	and Unit 2:	keep a conversati	good follow up questions to keep			
r	Quarter	2nd	Unit 3: Confirmation Questions and Clarifications with Question Words Conversation practice.		lmisunderstanding	or confirmation to avoid			

		3rd	Unit 6: Expre	ng or Killing the Conve	ersation and	conver end a	ce using expressions to rsation when desired a conversation when co	and expressions to	
			Conversation	practice.		desired  Learn	d. to express how the ce	ertainty of an answer.	
		4th	Unit 7: Interr Instructions.	rupting Someone and l	Jnit 8: Echoing	Practic someo Practic	be joining conversation one politely. The confirming understand was said.	ns by interrupting	
		5th	Unit 9: Polite and Unit 10: Conversation	Requests, Responses, Getting a Response practice.	and Excuses	respor reques Practic	ce making casual and nding both positively a sts. e encouraging others rsation.	nd negatively to	
		6th	Unit 11: Solid and Unit 12: Conversation	Responding with Deta	ails	conver Practic	ce getting more detaile rsation partner. ce giving more detaile rsation partner.	ed information from a	
		7th	Review of firs	st 12 textbook units			e conversation strated a confidently spoken		
		8th	Speaking Tes	its		Use th create	e conversation strated a confidently spoken	gies from the book to English conversation.	
		9th	Unit 13: Maki Finding the R Conversation	ing Comparisons and L ight Word practice.	Jnit 14:	Practic Practic to say		nd ideas in English. ou find the right word	
		10th	Unit 15: Expl Someone Conversation	oring a Word and Unit practice.	16: Correcting	Practice strategies to help you understand and use vocabulary in a wider range of situations. Practice correcting someone politely when they give false information.			
		11th			a	Practice making sure that you are understood. Practice starting and finishing an English conversation smoothly.			
	4th Quarter	12th		nning and Ending a Ph Expressing Opinions practice.	one Call	Practice starting and finishing a telephone call smoothly in English. Practice expressing opinions politely and with confidence.			
		13th	Unit 21: Maki Discussion Co Conversation		nd Units 22:	discus: group. Practic and sn	te techniques for parti sions and coming to a te including everyone noothly connecting ev discussion.	consensus as a in a group discussion	
		14th	Formal Meeti	Units 23 and 24: Summarizing and Conducting a formal Meeting Conversation practice.		Practic followi meetir	ce summarizing what I ing the rules of partici ngs.	has been said and pating in formal	
		15th	Speaking Tests			e conversation strated a confidently spoken			
		16th	End-term Exa	nd-term Exam on ALL of the conversation rategies taught in the textbook.			the conversation stra		
Evaluati	on Meth	od and	Veight (%)						
		Two Sp	aking Tests One Written Test Homework/Qu		izzes	Active Learning/Behavior	Total		
Subtotal		40 20		20	20		20	100	
Basic Engl Communi	lish cation	40		20	20		20	100	

			.,			Course	
	Akashi Co		Year	2024		Title	English V
	Informa						
Course Co		6502			Course Categor	·	/ Compulsory
Class Fori	mat	Lecture			Credits	Academ	ic Credit: 2
Departme	ent	Electrical Electrical	l and Computer E l Engineering Cou	ingineering Irse	Student Grade	5th	
Term		First Sen	nester		Classes per Week 2		
Textbook Teaching	and/or Materials	(1) 早川室 (2) 瓜生豊	幸治「THE HIGH I 豊・篠田重晃「Nex	ROAD TO THE TO ct Stage 英文法・i	EIC® LISTENING 語法問題」桐原書店	AND READING	TEST] KINSEIDO.
Instructo							
	Objectiv						
2 ) 既習の   3 ) 既習の   4 ) 平易な	の高等学校学 の高等学校学 な英語で書た	学習指導要領 学習指導要領 かれた文章を	に準じた文法を習行 に準じた文構造を 読み、その概要を	を習得して適切に選 导して適切に運用て 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	<b>ごきる。</b>	きる。 得して適切に運!	用できる。
Rubric					I=34-11=13-1		10-1
			理想的な到達レ		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		局等字校字習指   出語彙を十分に  用できる。	導要領に準じた新 習得して適切に運	高等学校学習指導 出語彙を習得して	算要領に準じた新 て運用できる。	高等学校学習指導要領に準じた新 出語彙を習得していない。
評価項目2	2		高等学校学習指 法や文構造を十 に運用できる。	導要領に準じた文 分に習得して適切	高等学校学習指導 法や文構造を習行。	算要領に準じた文 身して運用できる	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	3			導要領に準じた文 得して適切に運用	高等学校学習指導 構造を習得して減 。		
評価項目4	1		平易な英語で書 、その概要を十 情報を読み取る	かれた文章を読み 分に把握し必要な ことができる。	平易な英語で書た 、その概要を把抗 読み取ることが「	屋し必要な情報を	
  評価項目5	5		英語の発音・ア 十分に習得して 。	クセントの規則を 適切に運用できる	英語の発音・アク 習得して適切に過		英語の発音・アクセントの規則を 習得していない。
Assigne	ed Depar	tment Ob	jectives				·
Teachin	ng Metho	Ы					
. ——							
Outline		(1) 国際( 。 (2) 広くF	用いられる資格試験	<b>倹に出題される英文</b>	を題材とすることに		こ、特に「読む・聞く」技能を涵養する    英語運用能力の向上を目指す。
		(1) 国際( 。 (2) 広く月 目標を達 ・新出単	用いられる資格試験 成するためには、) 語について、該当	食に出題される英文 欠の自己学習が必要 単語、発音のみでな	を題材とすることに	こより、実践的なる例文も産出可能	※英語運用能力の向上を目指す。 能とすること。
Outline		(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業にで	用いられる資格試験 成するためには、次語について、該当時 おいて学習した英文 ストは語彙を増やし	能に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 、 英作文力向上の	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会と)	こより、実践的なる例文も産出可能で練習すること。	送英語運用能力の向上を目指す。 とすること。
Outline Style Notice	teristics (	(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業にで (1) 小テン (2) 理由が 評価の対対	用いられる資格試験 成するためには、次 語について、該当時 おいて学習した英文 ストは語彙を増やし はき遅刻や欠課によ 象としない欠席条ん	第に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 ノ、英作文力向上の よる小テストの未受 件(割合) 1/4以上の	を題材とすること( である。 く、用いられてい。 「能な状態になるま	こより、実践的なる例文も産出可能で練習すること。	送英語運用能力の向上を目指す。 とすること。
Outline Style Notice Charact	teristics (	(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業にで (1) 小テン (2) 理由が 評価の対対	用いられる資格試験 成するためには、次語について、該当時 おいて学習した英文 ストは語彙を増やし	会に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 大を作文力向上の よる小テストの未受 件(割合) 1/4以上の earning	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会と)	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。	英語運用能力の向上を目指す。 能とすること。 引すること。
Outline  Style  Notice  Charact  Active	e Learning	(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業にで (1) 小テン (2) 理由が 評価の対対	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙を増やして なき遅刻や欠席によ 象としない欠席条件 Division in Le	会に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 大を作文力向上の よる小テストの未受 件(割合) 1/4以上の earning	を題材とすること(である。 である。 く、用いられてい。 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。	※英語運用能力の向上を目指す。 能とすること。 引すること。 □ Instructor Professionally
Outline Style Notice Charact	e Learning	(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業にで (1) 小理元 (2) 理由の対 評価の対	用いられる資格試験 成するためには、) 語について、該当 おいて学習した英文 ストは語彙を増やし なき遅刻や欠課によ 象としない欠席条 Division in Le	会に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 大を作文力向上の よる小テストの未受 件(割合) 1/4以上の earning	を題材とすること(である。 である。 く、用いられてい。 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能 で練習すること。 して、十分に活用 する。 o Remote Class	※英語運用能力の向上を目指す。 能とすること。 引すること。 □ Instructor Professionally
Outline  Style  Notice  Charact  Active	e Learning	(1) 国際( 。 (2) 広くF 目標を達 ・新出単 ・授業に (1) 小理由が 評価の対 of Class /	用いられる資格試験 成するためには、次 語について、該当時 おいて学習した英文 ストは語彙を増やし なき遅刻や欠課によ 象としない欠席条何 Division in Le	会に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 大を作文力向上の よる小テストの未受 件(割合) 1/4以上の earning	を題材とすること(である。 である。 く、用いられてい。 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。	※英語運用能力の向上を目指す。 能とすること。 引すること。 □ Instructor Professionally
Outline  Style  Notice  Charact  Active	e Learning	(1) 国際( 。 (2) 広くF 目標を達 ・ 短業にで (1) 小子に (2) 理の対対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙物や欠課によ なき遅刻や欠課によ 象としない欠席条件 Division in Le	会に出題される英文 次の自己学習が必要 単語、発音のみでな 文を復習し、復唱可 大を作文力向上の よる小テストの未受 件(割合) 1/4以上の earning	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能 で練習すること。 して、十分に活用 する。 o Remote Class	※英語運用能力の向上を目指す。 能とすること。 目すること。 □ Instructor Professionally
Outline Style Notice Charact	e Learning	(1) 国際( 。 (2) 広くF 目標を達 ・ 新出単 ・ 授業にこ (1) 小理内対 評価の対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙や欠課には なき遅刻や欠課には 象としない欠席条件 Division in Le 図 Aided by IC	使に出題される英文 次の自己学習が必要 対語、発音のみでな 文を復習し、復唱可 大を作文入内の未受 にる小テストの未受 件(割合) 1/4以上の earning	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 o Remote Class Goals	※英語運用能力の向上を目指す。 能とすること。 引すること。 □ Instructor Professionally
Outline Style Notice Charact	e Learning	(1) 国際( 。(2) 広くF 目標を達 ・新出単 ・授業にで (1) 小子の (2) 理由が 評価の対す of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙や欠課による なき遅刻や欠課による 象としない欠席条件 Division in Le 図 Aided by IC Theme 授業の進め方・単語 説明を行う。	使に出題される英文 次の自己学習が必要 対語、発音のみでな 文を復習し、復唱可 大を作文入りの未受 にる小テストの未受 件(割合) 1/4以上の earning	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 o Remote Class Goals	英語運用能力の向上を目指す。 能とすること。 引すること。 □ Instructor Professionally Experienced
Outline Style Notice Charact	Plan 1st	(1) 国際( 。(2) 広くF 目標を達 ・新出単 ・授業にで (1) 小テス (2) 理由が 評価の対対 of Class /	RINられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙や欠課には なき遅刻や欠席条件 Division in Le 図 Aided by IC Theme 授業の進め方・単に 説明を行う。 Unit 1. Travel	使に出題される英文 次の自己学習が必要 対語、発音のみでな 文を復習し、復唱可 大を作文入りの未受 にる小テストの未受 件(割合) 1/4以上の earning	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 O Remote Class Goals	英語運用能力の向上を目指す。  Eとすること。  If すること。  Instructor Professionally Experienced  S語句・表現を習得する
Outline Style Notice Charact	Plan	(1) 国際( 。(2) 広くF 目標を達 ・新出単。 ・授業にで (1) 小子に (2) 理由が 評価の対対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙を増やし ない欠席条付 Division in Le 図 Aided by IC Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ou		を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 O Remote Class Goals 「旅行」に関す 「食事」に関す 「メディア」に	英語運用能力の向上を目指す。  Eとすること。  I すること。  I nstructor Professionally Experienced  S語句・表現を習得する S語句・表現を習得する
Outline Style Notice Charact	Plan 1st	(1) 国際(。 (2) 広くF 目標を達)・ ・授業にで (1) 小田の対対 のす Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙を増やし はき遅刻や欠席条件 Division in Le 図 Aided by IC Theme 打業の進め方。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media		を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 DRemote Class Goals 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced  る語句・表現を習得する る語句・表現を習得する 関する語句・表現を習得する
Outline Style Notice Charact	Plan 1st	(1) 国際(。 (2) 広くF 目標を達別・・授業にて (1) 小田田 (2) 理の対対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙や欠課による なき遅刻や欠課による をとしない欠席条件 Division in Le 図 Aided by IC Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ocu		を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 フて、十分に活用する。 O Remote Class Goals 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「買い物」に関	英語運用能力の向上を目指す。  Eとすること。  Bすること。  Instructor Professionally Experienced  S語句・表現を習得する る語句・表現を習得する の語句・表現を習得する の語句・表現を習得する の語句・表現を習得する の語句・表現を習得する
Outline  Style  Notice  Charact  Active  Course	Plan 1st	(1) 国際(。 (2) 広くF 目標を達用・ ・授業にで (1) 小田の対対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語彙や欠課による なき遅刻や欠課による をとしない欠席条件 Division in Le 図 Aided by IO Theme 授業の進め方・単語 説明を行う。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media Unit 4. Entertain Unit 5. Purchasin	(に出題される英文 次の自己学習が必要 学語、発音のみでな 文を復習し、復唱可 元、本の小子の 中(割合) 1/4以上の earning 江	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 フて、十分に活用する。 O Remote Class Goals 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「買い物」に関	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced  る語句・表現を習得する る語句・表現を習得する 関する語句・表現を習得する る語句・表現を習得する る語句・表現を習得する る語句・表現を習得する する語句・表現を習得する する語句・表現を習得する
Outline  Style  Notice  Charact  Active  Course	Plan 1st	(1) 国際(。 (2) 広くF 目標を達用・・授業にで、(2) 理由が評価の対対の Class /	用いられる資格試験 成するためには、) 語について図した英文 ストは語彙や欠課による なき遅刻や欠席条件 Division in Le 図 Aided by IO Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media Unit 4. Entertain Unit 5. Purchasin Unit 6. Clients 中間試験		を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 して、十分に活用する。 の Remote Class の Remote Class 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「関い物」に関	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced  る語句・表現を習得する る語句・表現を習得する 関する語句・表現を習得する る語句・表現を習得する る語句・表現を習得する る語句・表現を習得する する語句・表現を習得する する語句・表現を習得する
Outline  Style  Notice  Charact  Active  Course	Plan 1st	(1) 国際( (2) 広くF 目標を達別・・授業にで (1) 小里の対対の Class /	用いられる資格試験 成するためには、) 語について図した英文 ストは語彙や欠課にる なき遅刻かい欠席条件 Division in Le 図 Aided by IO Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media Unit 4. Entertain Unit 5. Purchasin Unit 6. Clients 中間試験を実施する		を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 フて、十分に活用する。 O Remote Class Goals 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「買い物」に関 「取引先」に関	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced  S語句・表現を習得する  S語句・表現を習得する  対する語句・表現を習得する  S語句・表現を習得する
Outline  Style  Notice  Charact  Active  Course	Plan 1st	(1) 国際( (2) 広くF 目標を達別・・授業にで、(2) 小理の対対 (1) 小理の対対 of Class /	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語類や欠課係を なとしない欠席条件 Division in Le 図 Aided by IO Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media Unit 4. Entertain Unit 5. Purchasin Unit 6. Clients 中間試験を実施す 中間試験の返却と	使に出題される英文 次の自己学習が必要 対を復習し、復国の 文を復習し、復国の 大る小テストの未至の 中(割合) 1/4以上の earning に 話テスト・評価のが は ment ng る。 解説を行う。 は	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	Table に関す る例文も産出可能で練習すること。 フて、十分に活用する。  Remote Class  Goals  「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「以楽」に関す 「取引先」に関 特に不正解の箇 「採用・求人」	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced  S語句・表現を習得する S語句・表現を習得する フォる語句・表現を習得する S語句・表現を習得する する語句・表現を習得する する語句・表現を習得する する語句・表現を習得する する語句・表現を習得する する語句・表現を習得する する語句・表現を習得する する語句・表現を習得する
Outline  Style  Notice  Charact  Active  Course	Plan  1st Quarter	(1) 国際( (2) 広くF 目標を達)・・授業にで (1) 小理の対対 のf Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th	用いられる資格試験 成するためには、) 語について、該当時 おいて学習した英文 ストは語類や欠課係を なき遅刻ない欠席条件 Division in Le 図 Aided by IC Theme 授業の進め方・単 説明を行う。 Unit 1. Travel Unit 2. Dining Ot Unit 3. Media Unit 4. Entertain Unit 5. Purchasin Unit 6. Clients 中間試験を実施する 中間試験の返却とり 中間試験の返却とり いれば 7. Recruiting	使に出題される英文 次の自己学習が必要 対語、発音のみでなった。 対を復習し、復国の 大を作文入りの未受 件(割合) 1/4以上の earning に 語テスト・評価のが は ment は ment は の。 解説を行う。	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 フて、十分に活用する。 の Remote Class の Remote Class 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「以楽」に関す 「取引先」に関 特に不正解の箇 「採用・求人」 「人事」に関す	英語運用能力の向上を目指す。  Eとすること。  Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced  Instructor Experienced  Instructor Professionally Experienced  Instructor Professionally Experienced  Instructor Professionally Experienced  Instructor Professionally Experienced  Instructor Experienced  Instructo
Outline  Style  Notice  Charact  Active  Course	Plan  1st Quarter	(1) 国際( (2) 広くF 目標を達別・授業にで (1) 小里由が 評価の対対 of Class /	RINられる資格試験のようには、注意について、該当時にで学習した英文ストは語類や欠けには語類や欠席条例を対象としい次のでは、 Aided by IC A	使に出題される英文 次の自己学習が必要 対語、発音のみでなった。 対を復習し、復唱可 大を作文入りの未受 件(割合) 1/4以上の earning にするから、 は 語テスト・評価のが は ment 「関 る。 解説を行う。 は に のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 ののののがである。 ののののがである。 ののののがである。 ののののがである。 のののがである。 ののののがである。 のののののがである。 ののののののがである。 のののののののののののののののののののののののののののののののののののの	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出可能で練習すること。 フて、十分に活用する。 の Remote Class の Remote Class 「旅行」に関す 「食事」に関す 「メディア」に 「娯楽」に関す 「娯楽」に関す 「関い物」に関 特に不正解の箇 「採用・求人」 「大事」に関す 「広告・宣伝」	<ul> <li>英語運用能力の向上を目指す。</li> <li>とすること。</li> <li>引すること。</li> <li>「Instructor Professionally Experienced</li> <li>る語句・表現を習得する</li> <li>る語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> </ul>
Outline  Style  Notice  Charact  Active  Course	Plan  1st Quarter	(1) 国際( (2) 広くF 目標を達別・・授業にで (1) 小田の対対 of Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th	RINられる資格試験のはまた。 はまたのには、 注意にて学習した英文 ストは語類や欠けには語類や欠席条例 Division in Lease を Division in	使に出題される英文 次の自己学習が必要 対語、発音のみでなった。 対を復習し、復唱可 大を作文入りの未受 件(割合) 1/4以上の earning にするから、 は 語テスト・評価のが は ment 「関 る。 解説を行う。 は に のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 ののののがである。 ののののがである。 ののののがである。 ののののがである。 のののがである。 ののののがである。 のののののがである。 ののののののがである。 のののののののののののののののののののののののののののののののののののの	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	こより、実践的な る例文も産出った。 る例文もを含るに活用する。 の Remote Class の Remote Class 「族事」に関す 「以楽」に関す 「娯楽」に回す 「関い物」に関 「取引先」に関 「採用・求し関」 「採用・定医伝」 「大広、議」に関す	<ul> <li>英語運用能力の向上を目指す。</li> <li>とすること。</li> <li>すること。</li> <li>Instructor Professionally Experienced</li> <li>る語句・表現を習得する</li> <li>る語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> <li>ご関する語句・表現を習得する</li> </ul>
Outline  Style  Notice  Charact  Active  Course	Plan  1st Quarter	(1) 国際(。 (2) 広くF 目標を達別・・授業にで、(2) 理の対対の Class / で Class	現するためには、 対するためには、 対話について習した英文 ストは語彙や欠課によるとしない欠席条件 Division in Le 図 Aided by IO Theme 授業の進め方・単 短がまで行う。 Unit 1. Travel Unit 2. Dining Ou Unit 3. Media Unit 4. Entertain Unit 5. Purchasin Unit 6. Clients 中間試験を実施する 中間試験の返却とい 中間試験の返却とい 中間試験のでのではいる。 中間は、中間はいいでは、 中間は、 いでは、 にがは、 いでは、 にが	使に出題される英文 次の自己学習が必要 対語、発音のみでなった。 対を復習し、復唱可 大を作文入りの未受 件(割合) 1/4以上の earning にするから、 は 語テスト・評価のが は ment 「関 る。 解説を行う。 は に のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 のののがである。 ののののがである。 ののののがである。 ののののがである。 ののののがである。 のののがである。 ののののがである。 のののののがである。 ののののののがである。 のののののののののののののののののののののののののののののののののののの	を題材とすること( である。 く、用いられてい 能な状態になるま ための良い機会とし 験は0点の扱いと つ欠課	all Substitute (Text of the state of the s	英語運用能力の向上を目指す。 ととすること。  Instructor Professionally Experienced  Instructor Professionally Expe

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					

А	.kashi Co	ollege	Year	Year 2024			ourse Title	Advanced English III
Course	Informa	tion		l			TIUC	
Course Co		6503			Course Categor	У	General	/ Compulsory
Class Forr	mat	Lecture			Credits		School C	redit: 1
Departme	ent		I and Computer I Engineering Co		Student Grade		5th	
Term		First Ser		34.00	Classes per We	ek	2	
Textbook		(No text	book) Handouts	based on the teach	er's experience i	n the :	subiect w	vill be shared.
Teaching Instructor		<u> </u>	T John C.		•			
	Objectiv							
1) Write of 2) Write of 3) Analyzo 4) Critique	complete E descriptive e and critic e your pec	inglish essa essays wit que profess ers' essays	hout using the sional works of a and encourage	g "I" or other perso verb "to be." art or films that deal them to write better develop your own w	with controvers			"I."
Rubric					I			
			Ideal Level		Standard Level			Unacceptable Level
Achievem No "I" in y		/S	Able to write meaningful, essays witho	and descriptive	Able to write co meaningful, and essays with a na reduction in the	d desci oticeal	riptive ble	Unable to write meaningful and descriptive essays without using "I."
Achievem E-Prime (I			Able to write meaningful, essays withoverb.	complete, and descriptive ut using the "be"	Able to write co meaningful, and essays with a n- reduction in the verbs.	d desci oticeal	riptive ble	Unable to write meaningful and descriptive essays without using the "be" verb.
Achievem Critical an			Able to write clearly demo critical-thinki	an essay that nstrates your ng skills.	Able to show ar how to demons critical-thinking	trate y	eness of our	Unable to demonstrate critical-thinking skills.
Achievem Peer critic			Able to help their essays constructive	your peers improve through feedback.	Able to give your pee feedback on their ess		rs some ays.	Unable to give your peers any feedback on their essays.
Achievem Responsib		ΔI		I in a responsible cally productive	Able to show an awareness of how to use AI in a responsible and academically productive way.		sponsible	Unable to use AI responsibly for academic purposes.
	d Depar g Metho	tment Ob	ojectives					
Outline	<u>g 1 100110</u>	Advance Compos	ed English III is ition" courses co velop essay writi	mmonly taught at i	ourse that utilizes universities in the	a coll e Unite	ection of ed States	ideas from "Freshmen . The main purpose of this course
Style		as a pre arid, me	-writing tool wil	l help students deve ge, simile, personifi	lop their writing	skills.	Other wr	outlining, and using AI responsibly iting tools such as a five-senses be explored to bring creativity and
		in the co	ontext of homey assignments. In	ork assignments th	at will later be us st write essays w	sed in	class for	will only be used for practice essays separate critiquing and reflective ort beyond the paperback
Notice		essays.						s in one semester. In addition to neir work and critique each other's
Cl- :		-!	,	or more of classes v	vill not be eligible	e for e	valuation	
		or Class /	Division in L					☐ Instructor Professionally
☑ Active	Learning		☐ Aided by	ICT	☐ Applicable to	Rem	ote Class	Experienced
Course	Plan	1						
			Theme			Goals	r.	.,,
1st Semeste r	1st Quarter	1st	Descriptive Wri The Five Sense	ting (Prompt One) F s Grid and the elimi	Part One nation of "I"	thorou Avoid Home and cr Read " Writing https:	igh descr the narra work: Ru itique its 'English F q Classes	Prime as an Instructional Tool in ," retrievable from anenglish.state.gov/files/ae/resourc
		2nd	Descriptive Wri E-Prime: "To be	ting (Prompt One) F e" or "Not to be"?		Write		active descriptions without the
		3rd	Descriptive Wri In class, writing descriptive essa	ting (Prompt One) F g practice and analy ays	cic of			ing and revising a descriptive essay ally generated by AI.

	4th		/riting (Prompt One) P n, simile, and metaph		create	ersonification, simile, a more lively and colorf work: Polish up the AI ot One.	ful descriptions.			
	5th	Descriptive W Peer critiques	/riting (Prompt One) P s of revised descriptive	art Five writing		v your classmates' rev feedback for improven				
	6th	Descriptive W Final practice	escriptive Writing (Prompt 1.5) Part Six nal practice writing and analysis for Prompt One			Familiarize yourself with the format of the graded descriptive writing task, which will take place in the following class, through a simulation activity.				
	7th	In Class, Gra	Graded, Descriptive Essay (Prompt Two)			all of your training and x classes to the writing with a new prompt an	of a descriptive			
	8th	Critical analys Time to Kill"	rsis of the 1996 Hollywood film "A (Prompt Three)			op critical thinking skill re your opinion about about how "A Time to t used) to promote an d to racial discriminatio	controversial topics. Kill" could be used awareness of issues			
	9th	(or teachable (Prompt Thre	and discussions on less ) through the film "A ee) symbolism in films as a	Time to Kill"	how it	Understand the power of symbolism in films and how it can influence society. Express your opinions and concerns in English.				
	10th	Introduction English essay Outlining an	to critical thinking and analysis in /s (Prompt Three) analysis			ize your thoughts and ersuasive manner.	analyses in a logical			
	11th	Writing an int (Prompt Thre	n introduction to a critical analysis hree)			an introduction that m ion of the reader even with your opinion befo	if he or she does not			
2nd Quarter	12th	Writing the b Three)	ody of a critical analys	is (Prompt	Organize facts and details in a logical order.					
	13th	Writing the co (Prompt Thre	onclusion of a critical a	analysis	Finish a critical analysis with a good summary and a convincing call to action.					
	14th	In class writing essays (Prom	ng and review of critical pt Three)	al analysis	Familiarize yourself with the format of the graded critical analysis essay, which will take place in the following class, through a simulation activity.					
	15th	In Class, Grad Four)	ded, Critical Analysis E	ssay (Prompt	Apply all of your training and practice from the last six classes to the writing of a critical analysis essay with a new prompt and no AI support.					
	16th	No test								
<b>Evaluation Metho</b>	od and \	Weight (%)								
	Pre-writ	ing Activities	Peer Critiques	Descriptive Ess	say	Critical Analysis Essay	Total			
Subtotal	20		20	30		30	100			
English Composition	20		20	30		30	100			

	Akashi Co	ollege	Year	2024		Course Title	Advanced English IV			
Course	Informa	tion								
Course Co	ode	6504			Course Category		' Compulsory			
Class For	mat	Lecture			Credits	Academi	Credit: 2			
Departme	ent		ll and Computer E Il Engineering Cou		Student Grade	5th				
Term			Semester		Classes per Wee	er Week 2				
Textbook		(No text	book) Handouts l	based on the teach	ner's experience in	the subject w	ill be shared.			
I eaching Instructor	Materials r		T John C.	, a c c c c c c c c c c c c c c c c c c	от о сиреттетте п	543,555	20 3 64.			
Course	Objectiv	'es								
2) Write 3) Write	e research e research	grant propo	osals in English. In proposals in En	and conference pr	oposals.					
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
Achievem Writing A			Able to write a can capture thattention	an abstract that ne reader's	Able to show an the important co good abstract		Unable to show any awareness of the important components of a good abstract			
Achievem Writing G	nent 2 Grant Propo	osals		a complete and ant proposal in	Able to show an the important co good grant propo	mponents of a	Unable to show any awareness of the important components of a good grant proposal			
Achievem Writing C	nent 3 Conference	Proposals	Able to write a	a complete and nference proposal	Able to show an the important co good conference	awareness of amponents of a	Unable to show any awareness			
Achievement 4 Writing Research Papers  Able to write a well-structured, clear, and concise research paper in English  Able to show an awareness of the important components of a good research paper  Unable to sho of the important components of a good research paper										
Assigne	ed Depar	tment Ol	ojectives							
Teachir	ng Metho	od								
Outline		students	learn how to wri	ite abstracts and re	esearch reports th	nat are worthy	als for this class are to help of publication and presentation ojects in international contexts.			
Style		This cou as a pre	rse follows a prod -writing tool will l	cess approach to w help students deve	vriting whereby br Plop their writing s	ainstorming, o kills.	utlining, and using AI responsibly			
Notice		Students requires students	s will not be grade students to write s should be willing	ed on any AI gene , critique, revise, , to share their wo	rated or AI assiste and rewrite their work and critique ea	ed reports. Like work several ti ch other's wor	e Advanced English III, this course mes in one semester. And, K.			
Charact	teristics		Division in Le		•					
	Learning	•		tarriiriy						
			☐ Aided by I		☐ Applicable to	Remote Class	☐ Instructor Professionally Experienced			
			☐ Aided by I		☐ Applicable to	Remote Class				
Course	Plan		☐ Aided by Id		☐ Applicable to	Remote Class				
Course	Plan		☐ Aided by Id			Remote Class				
Course	Plan	1st	Theme Course Overview	СТ	G	Goals				
Course	Plan		Theme Course Overview Brainstorming ar	СТ	G	Goals Choose a resea	Experienced  The control of the cont			
Course	Plan	2nd	Theme Course Overview Brainstorming ar Abstracts I	СТ	G C V	Goals Choose a resea Vrite a clear an Vrite a clear an	ch topic to write about. d concise abstract. d concise abstract.			
Course	Plan		Theme Course Overview Brainstorming ar	СТ	G   C   V   V   C   C   C   C   C   C   C	Goals Choose a resea Vrite a clear ar Vrite a clear ar Critique your cli	ch topic to write about. d concise abstract. d concise abstract. assmate's abstract.			
Course	Plan  3rd Quarter	2nd 3rd 4th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal I	nd Topic Selection	C C V V C C P P e	Goals Choose a reseal Vrite a clear ar Vrite a clear ar Critique your cla Prepare a logica Expenditures.	rch topic to write about. d concise abstract. d concise abstract. sssmate's abstract. I budget request for research			
Course	3rd	2nd 3rd 4th 5th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal I	nd Topic Selection	C V V C P e	Goals Choose a resear Vrite a clear an Vrite a clear an Critique your cla Prepare a logica expenditures. Vrite about price	Experienced  The character of topic to write about.  In disconcise abstract.  In disconcise abstract.  In disconcise abstract.  In budget request for research  In research endeavors.			
Course	3rd	2nd 3rd 4th 5th 6th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal I Grant Proposal II	nd Topic Selection	C   C   V   V   C   C   P   e   V   V   V   V   V   V   V     V	Goals Choose a resear Vrite a clear ar Vrite a clear ar Critique your cla Prepare a logica Expenditures. Vrite about prid Vrite a rational	Experienced  The charact to write about.  In disconding abstract.  In disconding abstract to the conding abstract abstract.  In disconding abstract to the conding abstract abs			
Course	3rd	2nd 3rd 4th 5th 6th 7th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal I Grant Proposal II Grant Proposal II Grant Proposal II	nd Topic Selection  I	G   C   V   V   C   C   P   P   P   V   V   V   V   V   V     V   C   C	Goals  Choose a resear  Vrite a clear ar  Vrite a clear ar  Critique your cla  Expenditures.  Vrite about prio  Vrite a rational  Vrite about a d	Experienced  The character of topic to write about.  In disconcise abstract.  In disconcise abstract.  In substract.  In budget request for research  In research endeavors.  In the concise abstract.  In substract.  I			
2nd	3rd	2nd 3rd 4th 5th 6th 7th 8th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal I Grant Proposal II Grant Proposal II Grant Proposal IV Grant Proposal IV	nd Topic Selection  I	G   C   V   V   C   C   P   P   C	Goals  Choose a resear  Vrite a clear ar  Vrite a clear ar  Critique your cla  Expenditures.  Vrite about prio  Vrite a rational  Vrite about a d  Critique your cla  Critique your cla  Critique your cla  Critique your cla	Experienced  The character of topic to write about.  Indicate the concise abstract.  Indicate the character of the character			
2nd Semeste	3rd	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal II Grant Proposal II Grant Proposal II Grant Proposal IV Grant Proposal IV Conference Proposal	nd Topic Selection  I II II V osal I	C   C   V   V   C   C   P   P   C	Goals  Choose a resear  Vrite a clear ar  Vrite a clear ar  Vrite a logica  xpenditures.  Vrite about prio  Vrite a rational  Vrite about a d  Critique your cla  critique your cla  roposal.  Vrite a confere  ummary, and	Experienced  The concise abstract.  In deconcise abstr			
2nd Semeste r	3rd	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal II Grant Proposal II Grant Proposal II Grant Proposal IV Grant Proposal IV Conference Propo	nd Topic Selection  I II II V osal I	C   C   V   V   C   C   C   C   C   C	Choose a resear  Vrite a clear ar  Vrite a clear ar  Vrite a logica  xpenditures.  Vrite about prio  Vrite about a d  Critique your cla  critique your cla  vrite a confere  ummary, and critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla	Experienced  The concise abstract.  In disconding abstract.  In disconding abstract.  In disconding abstract.  In disconding abstract.  In disconding abstract.  In disconding abstract abstract abstract abstract.  In disconding abstract abstract abstract abstract abstract abstract abstract, abstract, abstract, abstract, abstract abstract abstract are are abstract abstract are are are abstract abstract abstract are are abstract abstract abstract are are abstract abstract abstract are are abstract abstract are are abstract abstract abstract are are abstract abstract abstract are are abstract abstract abstract are are abstract abstract abstract abstract are are abstract abstract abstract are are abstract abst			
2nd Semeste	3rd	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal II Grant Proposal II Grant Proposal II Grant Proposal IV Grant Proposal IV Conference Proposal	nd Topic Selection  I II II V osal I	V V V C P e e V V V V V V S C	Choose a resear  Vrite a clear ar  Vrite a clear ar  Vrite a logica  xpenditures.  Vrite about prio  Vrite about a d  Critique your cla  critique your cla  vrite a confere  ummary, and critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla  critique your cla	Experienced  The topic to write about.  In disconsise abstract.  In disconsist abstract.  In dis			
2nd Semeste	3rd	2nd 3rd 4th 5th 6th 7th 8th 9th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal II Grant Proposal II Grant Proposal II Grant Proposal IV Grant Proposal IV Conference Propo	I II V v v osal I osal II I	G C V V V C C P P V S S C C a P F C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C A P C C C A P C C C A P C C C A P C C C A P C C C A P C C C C	Goals  Choose a resear  Vrite a clear ar  Vrite a clear ar  Vrite a clear ar  Critique your cla  Expenditures.  Vrite about prio  Vrite about a d  Critique your cla   Experienced  The topic to write about.  In disconsise abstract.  In disconsist abstract.  In dis				
2nd Semeste	3rd Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th	Theme Course Overview Brainstorming ar Abstracts I Abstracts II Grant Proposal II Grant Proposal II Grant Proposal II Grant Proposal IV Conference Proposal IV Conference Proposal IV Research Report	I II V v v osal I I II	G   C   V   V   C   C   P   P   C   C   P   P   C   C	Goals  Choose a resear  Vrite a clear ar  Vrite a clear ar  Vrite a clear ar  Critique your cla  Expenditures.  Vrite about prio  Vrite about a d  Critique your cla   Experienced  The topic to write about.  It concise abstract.  It doncise abstract.  It doncise abstract.  It budget request for research  The research endeavors.  It is for your research plan.  The search plan.  The search endeavors.  The tailed research plan.  The presentation abstract,  The presentation abstract,  The presentation abstract,  The presentation and a clear thesis statement,  The port.  The search endeavors.  The presentation abstract,  The presentation abstract,  The presentation and a clear thesis statement,  The presentation and a clear thesis and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and the presentation and t				

	15th	Research Report V	Research Report V			Defend your report in 5 minutes or less, followed by Q/A.				
	16th	No test								
Evaluation Method and Weight (%)										
	Abstract	Grant Proposal	Conference Proposal	Research Report	Pre-writing Activities	Peer Critiques	Total			
Subtotal	10	30	10	30	10	10	100			
Writing about Research	10	30	10	30	10	10	100			

Akashi College  Course Information			Year	2024		Course Title	Introduction to Japanese Language and Communication		
Course 1	Informat	tion	•						
Course Co		6505			Course Category	General /	/ Elective		
Class Forr		Lecture			Credits		Credit: 2		
Departme	nt	Electrical a Electrical E	nd Computer Er ngineering Cour	ngineering rse	Student Grade	5th			
Term		First Seme			Classes per Wee	k 2			
Textbook Teaching	and/or Materials	適宜プリン	トを配布する。			·			
Instructor		TANGE Ats	uko						
Course (	Objectiv	es							
1) 実用的 2) 報告・ 3) 報告・	]な文章(手 論文の目的 論文を、整	紙・メール) に応じて、印 理した情報を	を、相手や目的に 刷物、インターネ 基にして、主張か	応じた体裁や語句 ットから適切な情報 効果的に伝わるよ	を用いて作成するこ 報を収集することか うに論理の構成や展	とができる。 できる。 開を工夫し、作	成することができる。		
Rubric									
			理想的な到達レク	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			場に応じた的確な紙・メールを作成る。	的確な表現を用い を作成することが	て手紙・メール できる。	手紙・メールの表現に難がある。			
評価項目2			報告書・論文の株 、文書中に的確は る。	材選択が適切で こ示すことができ	報告書・論文の材: 確に示すことがで		報告書・論文の材料に不足がある 。		
評価項目3			報告書・論文の様 かつ、効果的であ		報告書・論文の構. である。	成・展開が適切	報告書・論文の構成・展開に難が ある。		
Assigne	d Depart	tment Obje	ectives						
	g Metho								
Outline	5	エントリー注意点等を	既説する。各白、	レポート・論文なる 材料を事前に準備し 得することを目的る	、制限時間内で適	々な文章(文書 切に書く練習を	) 表現について、それぞれの特徴や 行う。明らかになった問題点を克服		
Style			を基本とする。各			うえで、課題を	課す。随時、日本語表現に関する小		
Notice		90時間に	相当する学習内窓	習時間と、予習・復 である。 (割合) 1/3以上の		ト作成に必要と	なる標準的な自己学習時間の総計が		
Charact	eristics o		Division in Lea		7 CDA				
□ Active		7. Glass / B	☐ Aided by IC		☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course I	Plan								
004.50		Th	ieme		G	Goals			
		オ 1st 1	リエンテーション 授業の概要 わかりやすい文		1	わかりやすい文章について理解し、実践することがで きる。			
		文 2nd 1	章の書き方 わかりやすい文			わかりやすい文章について理解し、実践することがで			
		2 履	説明文を書く 歴書・エントリー	シート		きる。  S人の進路希望に			
		2	データ部分の書 自己PRの書き7 望理由書・研究計	<u></u>			はすることができる。 		
	1st	4th 1 2	志望理由書 研究計画書		)	多人の希望進路に 計画を適切な形	応じた志望理由と研究(キャリア /式で作成することができる。		
	Quarter		語表現 尊敬語と謙譲語 場面に応じた敬	· 文語表現	苟	対語表現を理解し	,、適切に使用することができる。		
1st Semeste r			紙・メール 手紙の書き方 メールの書き方	ī	岩	犬況に応じた手紙	・メールを作成することができる。		
						適切な材料を用い することができる	Nて、論理的・効果的な小論文を作成 i。		
	2 材料収集・構成					適切な材料を用い することができる	Nて、論理的・効果的な小論文を作成 i。		
	フィードバック 9th 1 課題のフィードバック					目身の作成した文 ごきる。	z書を見直し、適切に改善することが		
	2 事例の検討 2nd Quarter 10th 2 考え方・基礎的技術の整理					アカデミックスキ ことができる。	-ルを理解し、自身の文章に反映する		
		要		<del></del>	要	<b>契約の方法を理</b> 解	<b>ぱし、適切に要約することができる。</b>		

	12th	論文1 1 論文の構成 2 表記上の注意点			論文作成上の注意点を	を理解し、実践することができる
	13th	論文 2 1 引用の注意点 2 文献表			注記・引用・文献表	を適切に書くことができる。
	14th	報告書・レポート 1 企画書・提案書 2 プレゼンテーション	ン		テーマ設定・材料選排作成することができる	R・表現技術に優れた各種文書を る。
	15th	課題と整理 1 問題点と整理 2 まとめ			自身の研究計画を見る。	直し、適切に改善することができ
	16th	期末試験				
Evaluation Me	thod an	d Weight (%)				
		試験	課題	7	その他	Total
Subtotal	al 50		50	0		100
基礎的能力	礎的能力 50		50	0		100
専門的能力		0	0	0		0
分野横断的能力		0	0	0		0

А	kashi Co	llege	Year	2024			ourse Title	Sports Science I		
Course :	Informa	tion								
Course Co	ode	6510			Course Categor	у	General /	Elective		
Class Forr	mat	Skill			Credits		School Cre	edit: 1		
Departme	ent		and Computer Er Engineering Cou		Student Grade		5th			
Term		First Sem	ester		Classes per We	ek	2			
Textbook Teaching										
Instructor	-	GOTOH T	akayuki,MAEDA	Tadanori						
Course	Objectiv	es								
Particip     Can tal	pate in clas ke action t	ses to impro	orts safely. Also,	n health and phys recognizes the si	ical strength. Als gnificance of col	so, hav Ilaborat	e some lev ing and co	vel of self-discipline. coperating with the team and can		
Rubric			Ideal Level		Standard Level			Unacceptable Level		
Achievem	ent 1		Actively particip	th. Have a high	Participate in cl their health and strength. Have self-discipline.	d physic	cal ·	Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.		
Achievem	ent 2		lare very compe	pate in various and games, and etitive. Also have se on games, etc.	Can actively pa various sport pi games. And als for them.	ractices	s and	Do not participate in various sport practices and games.		
Achievem	ent 3	Understand the role of a leader well, and can help increase teamwork.  Understand and can play or take on the role of a leader.  Do not understand the role of leader. Also, never play that role.								
<u>Assigne</u>	d Depar	tment Obj	ectives							
Teachin	g Metho	d								
Outline		the habit Students content. S	of playing sports will split into gro Students can cho	on a daily basis. ups and leaders w ose from: Softball	This class requir vill take the lead , soccer, futsal,	es an a to plan tennis.	ctive and review, a basketbal	of sports so that they can build proactive attitude to participate. and implement the course I, volleyball, badminton, table , based on requests from		
Style		the basic	skills they learne while collaborat	d in previous year ing and cooperati	s. They are also ng with your tea	encou m with	raged to e	rules, how to play games, and xperience the fun of enhancing er in the center. Students should support their effort.		
Notice		grade. Do not These are Use of Tardine If it is of that class absence.	wear accessories also eligible for smartphones or ess will be excuse attendance will b discovered that a will be marked a	s, watches, or any grade deduction. any other unrelated for the first 20 e marked as abse student left class as absent, and the	other unnecessed activities duri minutes. Studer nt. early without be ir grade for prev	sary ite ng clas nts can eing ex vious cl	ms, as we s are subject participate ccused (dite asses will	s will be deducted from their  Il as chewing gum during class.  ect to point deductions.  e in the class after 20 minutes,  ching class), their attendance for suffer a deduction equal to an		
<u> </u>		•		or more of classes	will not be eligi	DIE TOF	evaluation			
Cnaract	eristics (	or Class /	Division in Lea	arning	Γ					
☑ Active	Learning		☐ Aided by IC	Т	☑ Applicable to	Remo	te Class	☐ Instructor Professionally Experienced		
Course	Dlan									
Course	riall	1_	'l		Т	C- '				
		1st v	olleyball, badmir s determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Goals Unders course leader.	. Split into	ourposes and objectives of this teams in each sport and select a		
		2nd S	oftball, soccer, followers, follo	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	etball, other sports while ensuring	Can do reflect	warm-up on the cla	and practice, play games, and ss, led by a leader.		
1st Semeste r Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring reflect on the classafety, based on requests from students.							and practice, play games, and ss, led by a leader.			
		4th va	olleyball, badmir s determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Can do reflect	warm-up on the cla	and practice, play games, and ss, led by a leader.		
		5th v	olleyball, badmir s determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Can do warm-up and practice, play games, and reflect on the class, led by a leader.				

		6th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requi	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		7th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requi	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		8th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		9th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring	Split into teams in each	sport and select a leader.
		10th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		11th		table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	?nd Quarter	12th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring		ractice, play games, and by a leader.
		13th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring		ractice, play games, and by a leader.
		14th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		15th	Softball, soccer, futsal volleyball, badminton, as determined feasible safety, based on requ	table tennis, other sports by teachers while ensuring	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		16th	No final exam			
Evaluatio	n Meth	od an	nd Weight (%)			
			Approach to a class	Practical skill	Leadership	Total
Subtotal			75		10	100
Basic Profic	iency		75	0	0	75
Specialized	Proficien	су	0	0	0	0
Cross Area	Proficien	су	0	15	10	25

А	kashi Co	llege	Year	2024			ourse Title	Sports Science II		
Course 1	Informat	tion								
Course Co	ode	6511			Course Categor	у	General /	Elective		
Class Forr	mat	Skill			Credits		School Cre	edit: 1		
Departme	ent		and Computer Ei Engineering Cou		Student Grade		5th			
Term		Second Se	emester		Classes per We	/eek 2				
Textbook Teaching										
Instructor	•	GOTOH T	akayuki,ISHIDA I	Masami						
Course (	Objectiv	es								
<ul> <li>Can tak</li> </ul>	ke action t	sses to impro o conduct sp action to do	orts safely. Also	n health and phys recognizes the si	ical strength. Als gnificance of col	so, hav llaborat	e some leving and co	vel of self-discipline. operating with the team and can		
Rubric			Ideal Level		Standard Level			Unacceptable Level		
Achievem	ent 1		Actively particip	th. Have a high	Participate in cl their health and strength. Have self-discipline.	d physic	cal <sup>·</sup>	Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.		
Achievem	ent 2		are very compe	pate in various and games, and etitive. Also have se on games, etc.	Can actively pa various sport pi games. And als for them.	ractices	and	Do not participate in various sport practices and games.		
Achievem	ent 3	Understand the role of a leader well, and can help increase teamwork.  Understand and can play or leader. Also, never play that role.								
Assigne	d Depart	tment Obj	ectives							
Teachin	g Metho	d								
Outline		the habit Students content. S	of playing sports will split into gro Students can cho	on a daily basis. <sup>-</sup> ups and leaders w ose from: Softball	This class requir ill take the lead , soccer, futsal,	es an a to plan tennis.	ctive and provided in the contract of the cont	of sports so that they can build proactive attitude to participate. and implement the course I, volleyball, badminton, table , based on requests from		
Style		the basic	skills they learne while collaborat	d in previous year ing and cooperati	s. They are also ng with your tea	encou m with	raged to e your lead	rules, how to play games, and xperience the fun of enhancing er in the center. Students should support their effort.		
Notice		grade. Do not These are Use of Tarding but their If it is that class absence.	wear accessories also eligible for smartphones or ess will be excuse attendance will b discovered that a will be marked a	s, watches, or any grade deduction. any other unrelate ed for the first 20 e marked as abse student left class	other unnecessed activities duri minutes. Studer nt. early without b ir grade for prev	ng clas ng clas nts can eing ex vious cla	ms, as wel s are subje participate cused (dite asses will s	s will be deducted from their Il as chewing gum during class. ect to point deductions. e in the class after 20 minutes, ching class), their attendance for suffer a deduction equal to an		
Cla = :== =±		_			Will flot be eligi	DIE 101	evaluation	•		
Charact	eristics (	or Class /	Division in Le	arming						
☑ Active	Learning		☐ Aided by IC	Т	☑ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced		
Course I	Dlan									
Course	iull	-	heme		ı	Goals				
		1st v	Guidance Softball, soccer, frolleyball, badmir s determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Unders	. Split into	ourposes and objectives of this teams in each sport and select a		
		2nd v	olleyball, badmir is determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Can do reflect	warm-up on the clas	and practice, play games, and ss, led by a leader.		
2nd Semeste r	3rd Quarter	3rd v	olleyball, badmir is determined fea	utsal, tennis, bask uton, table tennis, usible by teachers requests from stud	other sports while ensuring	Can do reflect	warm-up on the clas	and practice, play games, and ss, led by a leader.		
		4th va	olleyball, badmir is determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Can do warm-up and practice, play games, and reflect on the class, led by a leader.				
		5th v	olleyball, badmir is determined fea	utsal, tennis, bask iton, table tennis, isible by teachers requests from stud	other sports while ensuring	Can do reflect	warm-up on the clas	and practice, play games, and ss, led by a leader.		

		6th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		7th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		8th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and p reflect on the class, led	ractice, play games, and by a leader.
		9th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Split into teams in each	sport and select a leader.
		10th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		11th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
	4th Quarter	12th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		13th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e bv teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		14th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin	Can do warm-up and preflect on the class, led	ractice, play games, and by a leader.
		15th	Softball, soccer, futsa volleyball, badminton as determined feasibl safety, based on requ	, table tennis, other sports e by teachers while ensurin		ractice, play games, and by a leader.
		16th	No final exam			
Evaluation	on Meth	od an	nd Weight (%)		•	
Lvalaati	J. 7 1 CC1		Approach to a class	Practical skill	Leadership	Total
Subtotal			75	15	10	100
Basic Profi	ciency		75	0	0	75
,				0	0	0
Cross Area		-	0	15	10	25
		- '		•		-

А	kashi Co	llege		Year	2024			ırse tle	TOEICI
Course 1	Informat	tion							
Course Co	de	6512				Course Categor	y G	eneral /	Elective
Class Forn	nat	その他				Credits	S	chool Cre	edit: 1
Departme	nt	Electrical Electrical	and C Engin	Computer En Leering Cou	ngineering rse	Student Grade	51	th	
Term		Year-rour	nd			Classes per We	ek 1		
Textbook Teaching	Matérials	None							
Instructor		INOUE H	idetos	hi					
Course (									
1) The stu knowledge what show limited rai	vs that the	oster cross- h and the E students E	-cultur nglish nglish	ral understa -speaking c n knowledge	anding and cross-cultural backgroun e fulfills the needs	cultural adaptabil d. The student s of everyday life	lity by ta should ac and allov	ckling ex quire 43 ws busin	xam questions that require 0 or more points in the test, ess communication within a
Rubric						_			
			Idea	al Level		Standard Level			Unacceptable Level
1) cross-c and adapt		derstanding	culti cros tack requ and	ural unders ss-cultural a ding exam o	s fostered cross- tanding and idaptability by questions that dge of English n-speaking ound.	The student has cross-cultural u and cross-cultu by tackling exar require knowled and the English cultural backgro	Inderstan Iral adapt m questi dge of En I-speakin	iding ability ons that iglish	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	The students have acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.  The students have acquired English knowledge that fulfills the needs and allows busin communication within a limited range.							e that yday life	The students have not acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.
Assigne	ed Department Objectives								
Teachin	g Metho	d							
Outline		KOSEN (h entered k of self-lea	nigher (OSEN arning	education I need to ac and autone	institution). A skill cquire these skills omously learning,	required to live at an early stage and not "study"	through e. In this as they	the 21st course, have lea	oblem is a skill necessary at t century. The students that the students will learn methods irned at junior high school. Also, olem discovery and resolution.
Style		The credi	ts are	obtained a	ccording to tests r	esults, no classe	es		
Notice		period sti period wi TOEIC (T Public Ins	pulate II not I est of stitution this te	ed by the st be accepted English for on (Educations)	udents' affairs offi d. The indicator of International Con onal Testing Servio	ce. Applications English commun nmunication), a ce), which has ther prove his or her	without nication test deve he larges English	the test capabilit eloped b t scale a	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 c	of Class /	Divis	sion in Le	arning				
□ Active	Learning			Aided by IC	т	☐ Applicable to	o Remote	e Class	☐ Instructor Professionally Experienced
									127,501.101.1004
Course I	Plan								
		1	Theme	9			Goals		
		1st							
		2nd							
		3rd							
	1st	4th							
	Quarter	5th							
		6th							
1 at		7th							
1st Semeste		1	No mic	d-term Exa	m				
r		9th							
10th									
		11th 12th				-			
	2nd Quarter	12th 13th							
		14th							
		15th							
			No enc	d-term Evai	 m				
16th No end-term Exam									
2nd	3rd	2nd							
Semeste	Quarter	3rd							
		4th				_			

		T+b						
		5th						
		6th						
		7th						
	8th 9th		No mid-term Exa	m				
		10th						
		11th						
	4th	12th						
	Quarter 13th							
		14th						
		15th						
		16th	No end-term Exa	m				
Evaluat	ion Me	thod and	Weight (%)			•		
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	ic ficiency		0	0	0	0	0	100
Specialize Proficienc	Specialized 0		0	0	0	0	0	0
Cross Are Proficienc		0	0	0	0	0	0	0

А	kashi Cc	llege		Year	2024			urse ïtle	TOEICI
Course	Informat	tion							
Course Co	ode	6513				Course Categor	y (	General /	Elective
Class Forr	mat	その他				Credits	Ş	School Cre	edit: 2
Departme	ent	Electrical Electrical	and ( Engir	Computer En neering Cou	ngineering rse	Student Grade		ōth	
Term		Year-rour	nd			Classes per We	ek 2	2	
Textbook Teaching	Matérials	None							
Instructor		INOUE H	idetos	shi					
	Objectiv								
1) The stu knowledge what show limited rai	ws that the	foster cross- h and the E e students E	-cultu nglish inglish	ıral understa n-speaking c h knowledge	anding and cross-cultural backgroun e fulfills the needs	cultural adaptabi d. The student s of everyday life	ility by to should a and allo	ackling ex cquire 50 ows busin	kam questions that require 0 or more points in the test, ess communication within a
Rubric						_			
			Ide	al Level		Standard Level			Unacceptable Level
cross-cultural understanding and adaptability			cult cros tack req and	tural unders ss-cultural a kling exam (	s fostered cross- tanding and idaptability by questions that dge of English n-speaking ound.	cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking			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.
The students h English knowledge  2) English knowledge  the needs of every state of the students h the students h English knowledge			dge that fulfills veryday life and s communication	The students had some English king fulfills the need and allows busing communication range.	nowledg s of eve iness	je that ryday 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 Depart	tment Ob	jecti	ves					
Teachin	g Metho	d							
Outline		KOSEN (I entered k of self-lea	nigher (OSEN arning	r education N need to ac g and auton	institution). A skill cquire these skills omously learning,	required to live at an early stage and not "study"	throughe. In this as they	n the 21st s course, have lea	oblem is a skill necessary at t century. The students that the students will learn methods irned at junior high school. Also, olem discovery and resolution.
Style		The credi	its are	e obtained a	ccording to tests i	esults, no classe	es		
Notice		period sti period wi TOEIC (T Public Ins Through	pulate II not est of stitution this to	ed by the st be accepted f English for on (Education est, the stud	udents' affairs offi d. The indicator of International Con onal Testing Servio	ce. Applications English communumunication), a ce), which has the	without inication test dev he large English	the test capability eloped by st scale a	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 o	of Class /	Divis	sion in Le	arning				
☐ Active	Learning			Aided by IC	т	☐ Applicable to	o Remot	te Class	☐ Instructor Professionally Experienced
									Experienced
Course	Plan								
Course		-	Them	e			Goals		
		1st							
		2nd							
		3rd							
	1st	4th							
	Quarter	5th							
		6th							
1st		7th 8th	Vla mi	id torm Eva	~				
Semeste		9th	NO IIII	id-term Exar	11				
r		10th							
		11th							
		12th							
	Quarter	13th							
	14th								
15th									
			No en	ıd-term Exar	m				
2nd		1st							
2nd Semeste 3	3rd Quarter	2nd 3rd							
r	2	4th							
	l	1011							

		T+b						
		5th						
		6th						
		7th						
		8th	No mid-term Exa	m				
		9th						
		10th						
		11th						
	4th	12th						
	Quarte							
		14th						
		15th						
		16th	No end-term Exa	m				
Evaluat	ion Me	thod and	Weight (%)			•		
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	cy	100	0	0	0	0	0	100
Specialize Proficienc	ed Cy	0	0	0	0	0	0	0
Cross Are Proficienc		0	0	0	0	0	0	0

А	kashi Co	llege		Year	2024		Course		TOEICII	
Course 1	Informat	tion								
Course Co	ode	6514				Course Categor	y Gene	eral /	Elective	
Class Forn	mat	その他				Credits	Scho	ol Cre	edit: 3	
Departme	ent	Electrical Electrical	and C Engine	Computer El eering Cou	ngineering rse	Student Grade	5th			
Term		Year-rour	nd			Classes per Wee	eek 3			
Textbook Teaching	Matérials	None								
Instructor		INOUE Hi	detosh	hi						
Course (										
1) The stu knowledge what show limited rar	ws that the	foster cross- h and the Er e students E	cultur nglish- nglish	al understa -speaking c knowledge	anding and cross-cultural backgrounge fulfills the needs	cultural adaptabil d. The student s of everyday life	lity by tackli hould acquii and allows l	ng ex re 65 busin	ram questions that require 0 or more points in the test, ess communication within a	
Rubric						_				
			Idea	al Level		Standard Level			Unacceptable Level	
cross-cultural understanding and adaptability			cultu cross tack requ and	ural unders s-cultural a ling exam (	s fostered cross- tanding and idaptability by questions that dge of English n-speaking ound.	cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking			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.	
The students have English knowledge 2) English knowledge the needs of every allows business cor within a limited ran			dge that fulfills veryday life and s communication	The students hat some English kr fulfills the needs and allows busing communication range.	nowledge th s of everyda ness	at ıy 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 Depart	tment Obj	jectiv	es/es						
Teachin	g Metho	d								
Outline		KOSEN (h entered K of self-lea	nigher (OSEN arning	education need to ac and auton	institution). A skill cquire these skills omously learning,	required to live at an early stage and not "study"	through the In this cou as they hav	e 21st urse, ve lea	oblem is a skill necessary at t century. The students that the students will learn methods rned at junior high school. Also, olem discovery and resolution.	
Style		The credi	ts are	obtained a	ccording to tests r	esults, no classe	es			
Notice		period sti period wil TOEIC (To Public Ins Through 1	pulate II not t est of stitutio this te	ed by the st be accepted English for on (Education est, the stud	udents' affairs offi d. The indicator of International Con onal Testing Servio	ce. Applications English commun nmunication), a ce), which has th prove his or her	without the nication cap test develop ne largest so English land	test ability ed by ale a	apply for the credits during the scores or after the application y will be measured utilizing the US Test and Development and know-how in the world. e skills, and motivation to learn	
Charact <sub>0</sub>	eristics o	of Class /	Divis	ion in Le	arning					
☐ Active	Learning			Aided by IC	т	☐ Applicable to	Remote Cl	ass	☐ Instructor Professionally Experienced	
									Experienced	
Course I	Plan									
Course		Т	Theme	<u> </u>			Goals			
		1st								
		2nd								
		3rd								
	1st	4th								
	Quarter	5th								
		6th								
		7th								
1st Semeste			No mid	d-term Exa	m					
r		9th								
		10th								
		11th								
	2nd Quarter	12th				+				
	Quarter 13th									
	14th					+				
	15th		do end	d-term Exai						
16th No		NO EIIU	a terrii EXdi	11						
2nd	3rd	2nd				-				
Semeste	3rd Quarter	3rd								
r   (2.7.2.		4th								

		T+b						
		5th						
		6th						
		7th						
		8th	No mid-term Exa	m				
		9th						
		10th						
		11th						
	4th	12th						
	Quarte							
		14th						
		15th						
		16th	No end-term Exa	m				
Evaluat	ion Me	thod and	Weight (%)			•		
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100	0	0	0	0	0	100
Basic Proficienc	cy	100	0	0	0	0	0	100
Specialize Proficienc	ed Cy	0	0	0	0	0	0	0
Cross Are Proficienc		0	0	0	0	0	0	0

Akashi College		Year	2024			ourse Title	Overseas Training III		
Course	Informa	tion							
Course Co	ode	6515			Course Categor	у	General /	<sup>'</sup> Elective	
Class Forr	mat	Practical t	raining		Credits		School C	redit: 1	
Departme	ent		and Computer E Engineering Cou		Student Grade		5th		
Term		Year-roun	d		Classes per We	r Week 1			
Textbook Teaching									
Instructor	-	All faculty	of the departme	ent					
Course	Objectiv	es							
(2) Can d	evelop a b	road perspec	ctive by participa	skills through par sting in training in e local area using	different culture	ning ov s.	erseas.		
Rubric			1		r				
			Ideal Level	Standard Level			Unacceptable Level		
Achievem	ent 1		Can fully make increase knowl through partici overseas.		Can make effor knowledge and participating in overseas.	skills t	hrough	Cannot make efforts to increase knowledge and skills through participating in training overseas.	
Achievement 2			Can fully developerspective such participating in different cultur	ccessfully by training in	Can develop a be perspective by training in differ	particip	pating in ultures.	Cannot develop a broad perspective by participating in training in different cultures.	
Achievem	ent 3		Can fully comm people involved smoothly using	d in the local area	Can communica involved in the English, etc.			Cannot communicate with people involved in the local area using English, etc.	
Assigne	d Depar	tment Obj	ectives						
Teachin	g Metho	d							
Outline  The objectives of this course are to develop the ability to think things from various perspectives and to communicate through a variety of training experiences overseas. The training can be carried out during summer vacation, etc. The number of days for the training must be more than five days. This course's content will amount to over 45 hours in total. These hours include training overseas, preliminary guidan (manner lesson, preliminary research on the training destination), debrief session, and self-study time f preparing reports to be submitted to relevant institutions, etc.						ng can be carried out during nan five days. This course's overseas, preliminary guidance			
Style		Pre-orient	ation, on-site tra	aining, and debrief	ing				
Notice		students a	are required to a		d communicate \ e.	with th	e local pe	pervisor. During the training, cople and act appropriately as a	
Charact	eristics o	•	Division in Le						
☑ Active		,	☑ Aided by IC		☑ Applicable to	Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan								
		Т	heme			Goals			
		1st							
		2nd							
		3rd							
	1st	4th							
	Quarter	5th							
		6th							
		7th							
1st Semeste		8th							
r		9th							
		10th							
		11th							
	2nd Quarter	12th							
	Quarter	13th							
		14th							
		15th	la final avana						
		1	o final exam						
		1st 2nd							
		3rd							
2nd Semeste	3rd	4th							
r	Quarter	5th							
		6th							
		7th							

		8th				
		9th				
		10th				
		11th				
	4th	12th				
	Quarter	13th				
		14th				
		15th				
		16th	No final exam			
Evaluati	ion Meth	nod and V	Veight (%)			
			Report		Presentation	Total
Subtotal			50		50	100
Basic Prof	ficiency		0			0
Specialize	ed Proficie	าсу	0		0	0
Cross Area Proficiency 50			50	100		

Akashi Col	llege		Year	2024			Course Title	Intellectual Property Rights	
Course Informat	ion								
Course Code	6516				Course Category	/	Specializ	ed / Compulsory	
Class Format	Lecture				Credits		School C	redit: 1	
Department	Electrical Electrical	l and ( l Engir	Computer E neering Cou	ngineering rse	Student Grade		5th		
Term	First Sen	nester	•		Classes per Wee	Classes per Week 2			
Textbook and/or Teaching Materials									
Instructor	MORISAI	DA Yu	ji						
Course Objective	es	-	•						
(1) Understand and of foreign). (2) Acquire the know research and develop (3) Understand the f	can explair vledge to doment offic low of app nicating wit mportance	lemon cer in a licatio th a pa e of inv	estrate appro a university on procedure atent attorn vestigation,	opriate intellectu or company, ar es (in Japan and ey or the Japan and can decide	al property managed can take the lead other countries), a Patent Office (relevented)	emer d with and u vant t all o	nt capabilithin an organderstand organization the inve	other countries (international and ties within an organization as a anization. which stage of the procedure they ons). stigation by themselves or to ask ant it.	
Rubric			, .o. aog	and mredeligation	,		,p.oc		
		Ide	al Level		Standard Level			Unacceptable Level	
Achievement 1		oth	ers the systellectual pro	d can explain to tems of perty rights in er countries.	Understand and others the system intellectual proper Japan.	ms o	of .	Cannot explain to others the system of intellectual property rights in Japan and other countries.	
Achievement 2		den inte ma an	organization	ppropriate	an organization	propr erty pabil	riate	Cannot explain the knowledge to demonstrate appropriate intellectual property management capabilities within an organization.	
Achievement 3		app wha are with	at stage of t in when co	cedures and the process they mmunicating attorney or the	Understand the application proce			Do not understand the flow of application procedures.	
Achievement 4		inve whe inve	estigation, a ether to cor	e importance of and can decide aduct all of the y themselves or rt to do it.	Can understand of investigation a determine the no investigation.	and d	can	Do not understand the importance of investigation.	
Achievement 5		nec	cessary to co	nemselves, and	Can explain the literacy necessar investigation the	ry to	conduct	Cannot acquire the computer literacy necessary to conduct investigation themselves.	
Assigned Depart	ment Ob	jecti	ves						
Teaching Method	1								
Outline	rights, cc 2) Methor rights) 3) Flow ( registrati 4) Flow ( application 5) Matted of invest using the This cour relating t	opyrigiodolog of app ion) of inte on, foo rs rela igating e onlin rse wil to inte	ht, etc.) ies for intell dication production rnational ap cusing on th thed to inves g patents, u le J-PlatPat ll be taught ellectual pro	dectual property cedures, etc. (explication procedure PCT internations tigation on intestigation on intestigation), by instructors we perty rights in g	management for resplain the flows from the flows from the flows from the flows from the flows from the flows from the flows from the flows from the flows from the flows flows from the flows flows from the flows from the flows from the flows flows from the flows flows from the flows flows flows flows from the flows fl	responding significant signifi	rchers and plication to ective organists of the contract of th	ghts, design rights, trademark developers (focusing on patent o registration, and after anizations and the flow after and exercises (explain the purpose rch tools; also do search exercises lures and consultation services	
Style	The class	s will bate.	be carried o		ectures, and there v			d research exercises, etc. as	
Notice	etc.) that rights for develop Students	t they r it. St a habi s who	or their frie cudents sho it of thinking miss 1/3 or	end/acquaintanc uld be interested J. more of classes	e researched and d	evelo inte	oped, how llectual pro	that there is a creation (invention, they can protect it and pursue operty rights on a daily basis, and	
Characteristics o	f Class /	Divis	sion in Le	arning					
☑ Active Learning			Aided by IC	T	☑ Applicable to	Rem	note Class	☑ Instructor Professionally Experienced	
Course Plan	T				,				
		Them	е		0	Goals	;		

		1st	Summary of intel	lectual property r	ights	Understand an	overview of in	tellectual property		
		2nd	Patents I				he patent (regi	patent system, its stration)		
		3rd	Patents II			Understand ho inventiveness.	w to judge nov	elty and		
	1st	4th	Patents III				Understand the process of creating a broad and strong patent invention from ideas.			
	Quarter	5th	Patents IV			Understand th inventions.	Understand the flow of procedures and employee			
		6th		atents V / International patent application ystem and patent systems in other countries			cessary of appl	ying International		
		7th					Understand the outline of the utility model, its purpose, and its registration requirements, etc.			
		8th					Understand and implement methods for investigating patents and utility models.			
1st Semeste		9th	Design rights I	Design rights I			tents and utility e outline of the	y models. design registration		
r		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	rademarks			e trademark processes of creation	ecautions directly n of soy sauce with		
	2nd Quarter	12th	Copyrights I	opyrights I			e outline of the ghts, moral righ ks, copyright re	copyright law nts, related rights, estrictions, etc.).		
		13th	Copyrights II			Understand the infringement of rights, and copyright Q&A.				
		14th	Unfair Competitio Indications, etc.	n Prevention Act,	Prevention Act, geographical		Understand Unfair Competition Prevention Act, and geographical indications.			
		15th		investigation of design or trademark Summary of intellectual 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 Met	hod and	Weight (%)	T	T					
	Ex		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	0	100		
Cross Are Proficienc	Area o o o			0	0	0	0			

,	Akashi Co	ollege	Year	2024		Course Title	Computer Simulation	
Course	Informa	tion						
Course C	Code	6517			Course Category	/ Specializ	ed / Compulsory	
Class For	rmat	Lecture			Credits	School C	redit: 1	
Departm	ent	Electrica Electrica	al and Computer E al Engineering Cou	ngineering Irse	Student Grade			
Term		First Ser	mester		Classes per Wee	ek 2		
	k and/or Materials	三井田惇	郎、須田宇宙共著	「数値計算法第2版新	所装版」森北出版			
Instructo		· ·	AI Masato					
1. 数値計	Objectiv †算上発生す りな数学の問	る主要な誤	差について, その原 , 解を求める手法	夏因を説明できる. (アルゴリズム) を記	説明できる.			
Rubric			1					
			理想的な到達レ	ベルの目安	標準的な到達レベ		未到達レベルの目安	
アルゴリズム			講義で扱ったする数値解法(ア 称を正確に説明	べての問題に対す ルゴリズム)や名 できる	講義で扱った問題法(アルゴリズムを一定数説明できは講義で示す)	.) の概要や名称	講義で扱った問題のに対する数値解法(アルゴリズム)の概要や名称をほとんど説明できない(個数の目安は講義で示す)	
Assigne	ed Depar	tment Ol	ojectives					
Teachir	ng Metho							
Outline				かりやすく解説し	•			
Style		解説のあ	とに、実際に数値記	†算を行う演習に取	組んでもらう。	以解を導出する標	準的な問題について,一通り扱う.	
Notice				牛(割合): 1/3以_	上の欠課			
Charac	teristics	of Class /	<sup>/</sup> Division in Le	arning	1			
☑ Active	e Learning		☐ Aided by IC	<u>т</u>	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
	DI.							
Course	Plan				L			
		1 ct	Theme 二分法			Goals 二分法の考え方を	·····································	
		1st 2nd	ニュートン法			<u></u>		
		3rd	ベアストウ法			<u> </u>		
		4th	ガウス・ジョルダン					
	11st			ノ広	ĺ	カリス・ショルタ の重要性を理解す	クン法のアルコリスムを知りヒボット 「る。	
1st Quarter 5th		5th	確認テスト	ノ <u>広</u> 		カリス・ショルタ の重要性を理解す 6 0点以上を取得	ブン法のアルゴリズムを知りピボット 「る。 」 する。	
		5th 6th	確認テスト	ン <u>本</u> 	- 5	6 0 点以上を取得 ガウス・ザイデル		
			確認テスト	去とヤコビの反復法	-	6 0 点以上を取得 ガウス・ザイデル の違いを理解し、	する。 >法とヤコビの反復法のアルゴリズム	
4-1		6th	確認テストガウス・ザイデル	去とヤコビの反復法	<u> </u>	6 0 点以上を取得 ガウス・ザイデル の違いを理解し、 固有値の計算法 <i>0</i>	計する。 >法とヤコビの反復法のアルゴリズム それぞれの特徴を理解する。	
1st Semeste r	Quarter	6th 7th	確認テスト ガウス・ザイデル 固有値と固有ベク	去とヤコビの反復法 トルの解法		60点以上を取得 ガウス・ザイデリ の違いを理解し、 <u>固有値の計算法の</u> ラグランジュ補間	計する。 法とヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 )アルゴリズムを理解する。	
	Quarter	6th 7th 8th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法	去とヤコビの反復法 トルの解法		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグランジュ補能 最小2乗法のアリ	はなる。 は と かっぱい では できます かまま かまま かまま かまま かまま かまま かまま かまま かまま か	
	Quarter	6th 7th 8th 9th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関係	去とヤコビの反復法 トルの解法		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグランジュ補間。 最小2乗法のアリ を理解する。 60点以上を取得	はまする。 は と ヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 ウアルゴリズムを理解する。 ひアルゴリズムを理解する。 ひとニュートン補間について理解する  ・ゴリズムを理解し、相関係数の概念	
	Quarter 2nd	6th 7th 8th 9th 10th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関の 確認テスト	去とヤコビの反復法 トルの解法 系数		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグランジュ補間。 最小2乗法のアリ を理解する。 60点以上を取得 漬分計算の方法と 理解する。	はなる。 はとヤコビの反復法のアルゴリズムそれでれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する にゴリズムを理解し、相関係数の概念	
	Quarter	6th 7th 8th 9th 10th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関の 確認テスト 数値積分	去とヤコビの反復法 トルの解法 系数		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグランジュ補間。 最小2乗法のアリを理解する。 60点以上を取得 賃分計算の方法と 理解する。 微分方程式の数値 着ける。	はまする。 ル法とヤコビの反復法のアルゴリズムそれでれの特徴を理解する。 のアルゴリズムを理解する。 別とニュートン補間について理解する ルゴリズムを理解し、相関係数の概念 はする。 として台形公式とシンプソンの公式を	
	Quarter 2nd	6th 7th 8th 9th 10th 11th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関の 確認テスト 数値積分 オイラーの前進公	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得がつくれる。 がウス・ザイデリの違いを理解し、 可違のを理解し、 固有値の計算法の ラグランシュ補間。 最小2乗法のアリを理解する。 60点は単の方法と 理解する。 微分方程式の数値 微分方程式のより 微分方着ける。	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する がゴリズムを理解し、相関係数の概念 はして台形公式とシンプソンの公式を は対象として差分近似の解法を身に の精密な方法としてルンゲクッタ法を にはなります。	
	Quarter 2nd	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関の 確認テスト 数値積分 オイラーの前進公式	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得がついた。 がウス・ザイデリの違いを理解し、 面有値の計算法の 同ができます。 最小2乗法のアリを理解し、 を理解する。 60点計算る。 横分計算る。 微分方表と 微分方表とである。 微分方表とである。 では、の数値 では、の数値 では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する いゴリズムを理解し、相関係数の概念 はある。 として台形公式とシンプソンの公式を は計算法として差分近似の解法を身に は精密な方法としてルンゲクッタ法を になっきる。	
Semeste r	Quarter  2nd Quarter	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関が 確認テスト 数値積分 オイラーの前進公式 ルンゲクッタ法 高階の微分方程式が 確認テスト	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグラン乗法のアリ を理解する。 60点計算の方法と 賃分計する。 機分計算る。 微分方る。 微分方る。 大型ののでする。 大型の方法と では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する いゴリズムを理解し、相関係数の概念 はある。 として台形公式とシンプソンの公式を は計算法として差分近似の解法を身に は精密な方法としてルンゲクッタ法を になっきる。	
Semeste r	Quarter  2nd Quarter	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関でを認っている。 数値積分 オイラーの前進公式 ルンゲクッタ法 高階の微分方程式でを認っている。 確認テスト Weight (%)	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグラン乗法のアリ を理解する。 60点計算の方法と 賃分計する。 機分計算る。 微分方る。 微分方る。 大型ののでする。 大型の方法と では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 シアルゴリズムを理解する。 ウアルゴリズムを理解する。 はとニュートン補間について理解する。 シゴリズムを理解し、相関係数の概念 はする。 として台形公式とシンプソンの公式を には、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	
Evaluat	Quarter  2nd Quarter	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関 確認テスト 数値積分 オイラーの前進公 ルンゲクッタ法 高階の微分方程式の確認テスト Weight (%) 試験	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグラン乗法のアリ を理解する。 60点計算の方法と 賃分計する。 機分計算る。 微分方る。 微分方る。 大型ののでする。 大型の方法と では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する がゴリズムを理解し、相関係数の概念 はして台形公式とシンプソンの公式を は対象をはないでは、 は対象をは、 は対象をは、 は対象をは、 は対象をは、 は対象をは、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は	
Semeste r  Evaluat Subtotal	Quarter  2nd Quarter	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関 確認テスト 数値積分 オイラーの前進公 ルンゲクッタ法 高階の微分方程式 確認テスト Weight (%) 試験 50	去とヤコビの反復法 トルの解法 系数 式	平常点 50	60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグラン乗法のアリ を理解する。 60点計算の方法と 賃分計する。 機分計算る。 微分方る。 微分方る。 大型ののでする。 大型の方法と では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズムそれぞれの特徴を理解する。のアルゴリズムを理解する。別とニュートン補間について理解するのでは、相関係数の概念でする。として台形公式とシンプソンの公式をは計算法として差分近似の解法を身には特密な方法としてルンゲクッタ法をは、では、これでは、では、これでは、これでは、これでは、これでは、これでは、これ	
Semeste r Evaluat	2nd Quarter tion Meth	6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	確認テスト ガウス・ザイデルが 固有値と固有ベク 補間法 最小二乗法と相関 確認テスト 数値積分 オイラーの前進公 ルンゲクッタ法 高階の微分方程式の確認テスト Weight (%) 試験	去とヤコビの反復法 トルの解法 系数 式		60点以上を取得 ガウス・ザイデリ の違いを理解し、 固有値の計算法の ラグラン乗法のアリ を理解する。 60点計算の方法と 賃分計する。 機分計算る。 微分方る。 微分方る。 大型ののでする。 大型の方法と では、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、ののでは、の	はとヤコビの反復法のアルゴリズム それぞれの特徴を理解する。 のアルゴリズムを理解する。 はとニュートン補間について理解する がゴリズムを理解し、相関係数の概念 はして台形公式とシンプソンの公式を は対象をはないでは、 は対象をは、 は対象をは、 は対象をは、 は対象をは、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は	

41.116		T ,,	2024		Course	
Akashi Co	llege	Year	2024		Title	Graduation Thesis
Course Informat	ion					
Course Code	6518			Course Category Specialize		ed / Compulsory
Class Format	Seminar			Credits	School C	redit: 9
Department	Electrical and Computer Engineering			Student Grade	5th	
Term	Year-round			Classes per Week	前期:6後	期:12
Textbook and/or Teaching Materials						
Instructor	All faculty o	f the departm	ent ,NAKANISHI H	iroshi		
Course Objective	es					
systematically and p (2) Master data proc design and theoretic (3) Can develop self- (4) Can read and un- research.	ractically from essing techno al analyses. -learning abilit derstand Japa	n a broader pe blogies and the ties to continu nnese and Eng	erspective. theories and met ously explore thing lish technical pape	hods of informatiogs. rs related to the r	en transfer, an	ring, and find and solve problems d can apply them to various and use them for their own through a presentation to have a
Rubric						
	I	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	t a c	copic on their of and integrating of engineering solve problems	propriate research own by applying g basic knowledge , and find and systematically	their own by appl	lying and knowledge of find and solve atically and	Cannot set a research topic on their own by applying and integrating basic knowledge of e engineering, or find and solve problems systematically and practically from a broader

Rubric			
	Ideal Level	Standard Level	Unacceptable Level
Achievement 1	Can set an appropriate 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.	their own by applying and	Cannot set a research topic on their own by applying and integrating basic knowledge of engineering, or find and solve problems systematically and practically from a broader perspective.
Achievement 2	Deeply master data processing technologies and the theories and methods of information transfer, and can apply them to various design and theoretical analyses.	Master data processing technologies and the theories and methods of information transfer, and can apply them to various design and theoretical analyses.	Cannot master data processing technologies and the theories and methods of information transfer, or apply them to various design and theoretical analyses.
Achievement 3	Can develop self-learning abilities to continuously and accurately explore things	Can develop self-learning abilities to continuously explore things.	Cannot develop self-learning abilities to continuously 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 read and understand Japanese and English technical papers related to the research topic and use them for their own study.	Cannot read Japanese and English technical papers related to the research topic, or understand and use them for 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.	Can summarize the research results obtained as technical papers, and convey them to others through a presentation to have a discussion.	Cannot summarize the research results obtained as technical papers, or convey them to others through a presentation to have a discussion.
Assigned Department O	bjectives		
Teaching Method			

## Assigned Department Objectives 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 evaluation.

Charact	<u>.ensucs</u>	or Class	s / Division in Learning			
☑ Active	☑ Active Learning		☑ Aided by ICT	☑ Applicable	to Remote Class	☐ Instructor Professionally Experienced
Course	Plan	_				
			Theme		Goals	
		1st	Graduation research		Can independent experiments, sin the supervisor.	tly conduct document research, nulations, examination, etc. under
1st Semeste	1st	2nd	Same as above		Same as above	
r	Quarter	3rd	Same as above		Same as above	
		4th	Same as above		Same as above	
		5th	Same as above		Same as above	

		6th	5th Same as above				Same as above			
		7th	Same as above			Same as above				
		8th	Same as above			Same as above				
	2nd Quarter	9th	Same as above			Same as above				
		10th	Same as above			Same as above				
		11th	Same as abo			Same as above				
		12th	Same as abo		Same as above					
		13th	Same as above			Same as above				
		14th	Same as above			Same as above				
		15th	Same as above			Same as above				
		16th	No final exam			3 45 45570				
	3rd Quarter	1st	Graduation research			Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.				
		2nd	Preparation for the interim presentation of the graduation research			Can create posters and handouts to use in the interim presentation of the graduation research.				
		3rd	Interim presentation of the graduation research			Can present the research results so far using posters.				
		4th	Graduation research				Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.			
		5th	Same as above			Same as above				
		6th	Same as above			Same as above				
21		7th	Same as above			Same as above				
2nd Semeste		8th	Same as above			Same as above				
r	4th Quarter	9th	Same as above			Same as above				
		10th	Writing graduation thesis			Can compile the results of the graduation research and write a graduation thesis.				
		11th	Same as above			Same as above				
		12th	Same as above			Same as above				
		13th	Preparation for the graduation research presentation			Can create a resume to hand out in the graduation research presentation.				
		14th	Same as above			Can create slides to use in the graduation research presentations.				
		15th	Graduation re	Graduation research presentation			Can use slides to present the results of the graduation research orally and answer questions appropriately.			
		16th	No final exam							
Evaluati	ion Meth	od and	Weight (%)							
Initiatives				Interim report	Graduation the	esis	Graduation meeting for presenting research papers	Total		
Subtotal	Subtotal			20	50		20	100		
Basic Proficiency		0		0	0		0	0		
	Specialized			20	50		20	100		
Cross Area Proficiency		0		0	0		0	0		

Akashi College		Year	Year 2024		Course Title			
Course 1	Informa	tion		•			•	
Course Co	ode	6519			Course Categor	y Speciali	zed / Compulsory	
Class Format Lecture					Credits	School	Credit: 1	
Departme	ent	Electrica	ll and Computer I Il Engineering Co	and Computer Engineering		5th		
Term			Semester		Classes per We	ek 2		
Textbook								
Teaching   Instructor		HIROTA	Atsushi					
	Objectiv	<u> </u>	7(6505)11					
average v 2) The ab and think 3) The ab characteri	oltage, cu ility to und about wh	irrents, and derstand th at measure	l power, and eval le advantages an es are necessarv.	luate them quantit d disadvantages o	atively. f using power ele	ectronics techno	te various quantities such as plogy, understand the problems, pblems and reports, and to find the	
Rubric			1		Ta			
			Ideal Level		Standard Level		Unacceptable Level	
Achievement 1			principles of v electronics cir calculate vario as average vo	understand the operating ples of various power onics circuits, and can ate various quantities such erage voltage, currents, ower, and evaluate them itatively.  Understand the operating principles of various electronics circuits calculate various as average voltage and power, and to them quantitative		rious power uits, and to us quantities su age, current, I 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	
Achievement 2			disadvantages electronics tec understand th	ne issues, and can what measures	Understand the disadvantages of electronics tech understand the consider what r necessary	of using power inology, issues, and ca	advantages and disadvantages of using power electronics	
Achievement 3			and materials problems and effectively find characteristics electronics cir	organize reports through exercise reports, and can d the	Can voluntarily and continuously organize reports and materials through exercise problems and reports, and can find the characteristics of power electronics circuits and their optimal range of applications.		and materials through exercise problems and reports, or find the characteristics of power electronics circuits and their	
Assigne	d Depar	tment Ol	ojectives					
Teachin <sub>e</sub>	g Metho	od						
Outline		devices. applicati course v	The range of applions, and renewal will explain and de	plications includes	consumer electro tion, making it ar nderstanding of th	onics devices, i	ctricity using semiconductor switch information field, electric power nnology for modern social life. This wer electronics and make them	
Style					· · · · · · · · · · · · · · · · · · ·		technologies may be added.	
Notice Characte	eristics	Electric review vand thou short of submitted	Circuits and Circu what they have al roughly review th the passing score ed.	uit Theory, and the lready learned indo ne material. Makeu e by a small margi or more of classes	e Fourier transform ependently, in ad p exams, etc. ma in, and make a re	m, therefore it dition to the st ay be held if st equest. All assi	the past, such as the content of will be necessary for them to cudying for this course. Take notes udents with outstanding efforts fall gnments are required to be	
		J.a.s. /			□ Applicable to	Domoto Class	☐ Instructor Professionally	
☐ Active	Learning		☐ Aided by I		☑ Applicable to	Nemote Class	Experienced	
Co	Dla:-							
Course I	riaN 		Themo		I	Goals		
2nd Semeste	3rd Quarter	1st	Theme Power electronic	s overview		Understand the position, importance, and curre situation of power electronics technology, and actual examples.		
		2nd	Semiconductor devices for electrical power (1)			Understand the current-controlled semiconductor switching devices used in power electronics equipment.		
		3rd	Semiconductor of	emiconductor devices for electrical power (2)			Understand the voltage-controlled semiconductor switching devices used in power electronics equipment.	
				miconductor devices for electrical power (3)			Understand the new type semiconductor switching devices used in power electronics equipment.	
Semeste r		4th	Semiconductor of	devices for electric	al nower (2)	switching devi	ces used in power electronics	
		4th 5th	Semiconductor of DC-DC converted		al power (3)	switching devi equipment. Understand th	e basics of DC-DC converters and ration of a buck DC-DC converter.	

		7th	DC-DC converter	(3)		Understand the DC-DC convert		ion of a buck/boost		
		8th	Review				Understand the contents of the first half through exams or exercises			
		9th	DC-AC conversion (1)			Understand the basics of DC-AC conversion through an inverter circuit using switch elements.				
	4th Quarter	10th	DC-AC conversion	n (2)		Understand the	Understand the control method used for inverters.			
		11th	DC-AC conversion (3)			Understand va PWM inverters	Understand various types of inverters, such as PWM inverters and three-phase inverters.			
		12th	Rectifier circuits (1)			Understand the basic circuit operation of a rectifier circuit.				
		13th	Rectifier circuits (	2)		Understand the smoothing circuits used in rectifier circuits such as choke input type and capacitor input type smoothing circuits.				
		14th	Rectifier circuits (	3)		Understand the operation of a rectifier circuit with output voltage control function.				
		15th	Examples of power	er electronics app	olications	Can introduce the application examples of power electronics equipment that have been discussed so far, and understand the importance of power electronics technology.				
		16th	Final exam							
Evaluati	on Met	hod and	Weight (%)							
E		xamination	Exercise, Report	Mutual Evaluations between students	Efforts	Portfolio	Other	Total		
Subtotal	4	0	40	0	20	0	0	100		
Basic Proficience	y 0		0	0	0	0	0	0		
Specialized Proficiency		0	40	0	20	0	0	100		
Cross Area Proficiency 0			0	0	0	0	0	0		

Α	kashi Co	llege	Year	2024			ourse Title	Energy Transmission and Distribution Engineering
Course 1	Informat	ion	I				ricic	Distribution Engineering
Course Co		6520			Course Categor	ry	Specialize	ed / Compulsory
Class Forn	nat	Lecture			Credits		School Cr	
Departme	nt		l and Computer E l Engineering Cou		Student Grade		5th	
Term		Second 9	Semester		Classes per We	ek	2	
Textbook Teaching		Not man	datory. For refer	ence, Isao Iyoda, '	'Denryoku Hass	sei • Yus	sou Kouga	ıku", Ohm-sha
Instructor		HIROTA	Atsushi					
Course (	Objective	es						
electrical ( 2) Unders 3) Unders liberalizati	energy. tand the a tand the w on / derec	nalysis me vays the ele		or power system co em should be in re nental issues.		-		systems required for transmitting andscape, such as power
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		substation, an mechanisms, control system	equipment, and ns required for lectrical energy in	Understand the substation, and mechanisms, e control systems transmitting ele	l distrib quipme s requir	oution ' ent, and ed 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 pov	ired 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		in response to social landscap liberalization /	systém should be changes in the be, such as power deregulation and mental issues in	electric power s in response to social landscap liberalization /	n response to changes in the social landscape, such as power iberalization / deregulation and		in response to changes in the social landscape, such as power
Achievem	ent 4		Can handle sp building syster various situati		Understand the methods for bu controls.			Do not understand concrete methods for building system controls.
Assigne	d Depart	ment Ob	jectives	ectives				
Teachin	g Metho							
Outline		analysis, devices f system of The aim compone control n will help trading),	development of for power electro engineering depa of the course is t ents, which play a nethods and cont students recogni deregulation (su	operation and plar nics applications (hartment, leveraging to gain knowledge a major role in the trol theories related at a microgrids)	nning support sy HVDC and FACTS this experience, about the struct energy supply s d to the stable o I the recent issu and global envir	stems, 5) at Mi cure of t system. peratio es of po onmen	and reseatisubishi E the electri In addition In of suppower liber tal issues.	
Style		students to help d	understand. In a leepen their unde	addition, the class rerstanding of actua	will go on a facto Il machines. Hos	ory tou okawa	r for week is the liais	
Notice  A textbook will be used to aid students' understanding, but is not mandated. The real factory tour for weeks 5 and 6 will take place at consecutive times case of virtual remote factory tour, it will be included in ordinal class scheol Students who miss 1/3 or more of classes will not be eligible for a grade e					ive times i ss schedu	by changing the timetable. In le.		
Charact	eristics c	of Class /	Division in Le	earning				
□ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced
C-	DI-							
Course	rian		Tl		Т	C. '		
1st E		Evolution of the system	electric business ar	·	and un and op that m	nderstand peration co lade it a re uation reg	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	
Semeste r 2nd Transmission power (1)				wer (1)	Have studied transmission method as well as track constants and tran characteristics. Also, understand the energy supply methods, such as mhot topics.		constants and transmission Also, understand the recent	
		3rd	Transmission po	wer (2)		Same	as above	

		4th	Substations (1)		!	Understand the roles are substations and switchly components of the pow	poxes, which are important		
		5th	Substations (2)			Same as above			
		6th	Equipment manufac	turing factory	- 10	Visite a power equipment manufacturing factory online or actually to deepen their understanding of the actual machine.			
		7th	Power distribution			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 Unit method, p			tion of the power system	method, which is one of es for the analysis and stems. Have mastered the ncy control of the power				
		9th	Operation and contr	rol of the power system		Understand the supply power systems (such a planning and economic have mastered the freq systems.	s supply and demand		
		10th	Symmetric coordina	Symmetric coordinates and failure calculations			calculation (symmetric nich is one of the analytical er system. Are more ation through learning cises.		
		11th	Stability of the power	Stability of the power system (1)			nd dynamic and transient		
	4th Quarter	12th	Stability of the power system (2)			Understand the synchropower system.	onisum stability of the		
		13th	Stability of the power	Stability of the power system (3)			Understand the voltage and frequency stability of the power system.		
		14th	Power Systems and	Systems and the Environment		Have deepened their understanding on the classification of environmental problems in electr power systems, environmental problems caused by electromagnetic fields, and the global environment.			
		15th	Next generation of p	f power systems		Understand the challenges and countermeasure of the next generation electric power system (smart grid), which should respond to the increase in electric vehicles and new energy.			
		16th	Final exam		- I	Understand the content	from weeks 1 to 15.		
Evaluati	Evaluation Method ar								
			Examination	Report	Fx	rercise	Total		
Subtotal			40	30	30		100		
	Basic Proficiency 0			0	0		0		
	Specialized Proficiency 40		-	30	30	)	100		
· ·			0	0	0		0		
	Cross Area Proficiency 0								

А	.kashi Co	ollege		Year	2024			ourse Title	Engineering of Energy Conversion
Course	ourse Information								22
Course Co		6521				Course Categor	ry	Specialize	ed / Compulsory
Class Forr	mat	Lecture				Credits		School Cr	edit: 1
Departme	ent	Electrica Electrica	l and l Engi	Computer E neering Cou	ngineering rse	Student Grade	5th		
Term		First Ser				Classes per We	eek	2	
Textbook Teaching									
Instructor		HIROTA	Atsus	shi					
	Objectiv								
The aim of this course is to develop the following capacities.  1. The ability to understand the positioning of electrical energy in particular among various energies, and its relationship nature, society and the environment, and consider them.  2. The ability to understand the basic mechanisms and equipment of various power generation methods and substations explain them to others.  3. The ability to understand new methods of power generation and power storage in addition to existing methods of power generation, recognize the effects of technology on nature and society, and explain them to others.  4. The ability to think of the optimal combination as a power supply systems based on a thorough understanding of the stopics.									thods and substations, and sisting methods of power
Rubric						,			
			Ide	eal Level		Standard Level			Unacceptable Level
Achievem	Achievement 1			electrical en ong various ationship wi	nd the positioning ergy in particular energies, and its th nature, society nment, and can hem.	electrical energ	gy in pa energi th natu nment,	irticular es, and its re, 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	Achievement 2			rious power ethods and s	nd equipment of	various power generation		tion ons, and	Do not understand the basic mechanisms and equipment of various power generation methods and substations.
Achievem	ent 3		ger sto pov rec tec	Understand new power 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 net generation met methods for po addition to the generation met recognize the e technology on society, and ca to others.	thods a ower sto existing thods, a effects of nature	ind orage, in g power and of 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.
			cor	nk specifical	bughly understand ation items 1 to 3, and can specifically of the optimal ination as a power supply ms.  Thoroughly understand evaluation items 1 to 3, and think of the optimal combination as a power suppress.			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	ojecti	ives					
Teachin	g Metho	d							
Outline		thermal, technolo	, and r ogies a	nuclear pow and systems	er. Furthermore, s such as solar ene	students will also rgy, wind power	o under r, and f	rstand clea uel cells.	pment, such as hydroelectric, an new power generation
Style		Classes v Liaison:	will be Nakai	conducted Yuichi	in a lecture style,	in line with the	textboo	ok.	
Notice  In order to understand this course, it's important to review the basics of physics and chemistry. The an important course for acquiring an electrician license.  Students who miss 1/3 or more of classes will not be eligible for evaluation.						rsics and chemistry. This is also			
Charact	eristics o	•		sion in Le					
☐ Active Learning				Aided by IC	CT	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Dlan								
Course	i iui i		Them	ne			Goals		
1				neme In overview of electrical energy and onversion engineering		d energy	Can ex moder enviro	n society, nmental p	position of electrical energy in its relationship with roblems, and the conversion of energy into electrical energy.
1st Semeste r	1st Quarter	2nd	Overv	view of hydr	oelectric power ge	eneration	the ba	dynamics of sics of hyo	power generation methods and of hydroelectric power plants, and droelectric power plants.
		3rd	Hydro	power facili	ties, pumping pov	ver	Understand the various main hydroelectric		

		4th		wheel and attached tors and electrical e	equipment, turbine equipment	2	véhicles, the mechanisms and explain t water vehicle speed. Can a	he characteristics	and their ricity. Can compare of various types of ciency and specific echanisms and	
		5th	Overvi	ew of thermal powe	er generation	Understand the thermodynamics necessary to understand the mechanisms of thermal and nuclear power generation, and can explain the mechanisms of steam power generation among thermal power generation.				
		6th	Steam	power generation			turbines, ger and boilers,		structure of steam imps, condensers, in facilities of the Plant.	
		7th		bine power genera generation	tion and combined	cycle	generation a among thern	nd combined cyclenal power plants,	of gas turbine power e power generation and can explain ermal power plants.	
		8th	Review	•			Understand texams or exe		e first half through	
		9th	Overvi	ew of nuclear powe	r 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	5		the energy of nucl nich are the basis	lear and fission of nuclear power		
		11th		design and nuclear generation	fuel cycle for nucle	ar		the safety design outline the nuclea		
	2nd Quarter	12th	Solar e	nergy generation			challenges of	the principles, feat f solar and solar tl ystems as a repre	tures, and hermal power sentative renewable	
		13th	Wind p	ower			Can explain the principles, characteristics, and challenges of wind power generation.			
		14th	Fuel ce	ll power generation	1		Can explain the principles, types, features, and issues of fuel cells.			
	16th Final e		Power	Power storage				Can explain the technologies involved in power storage using secondary batteries and superconductivity.		
			Final e							
Evaluati			Weight	(%)						
			Exercise, Report	Mutual Evaluations between students	Effort	:S	Portfolio	Total		
Subtotal				40	0	20		0	100	
Basic Prof	Basic Proficiency 0			0	0	0		0	0	
Specialize Proficiency		40		40	0	20		0	100	
Cross Area Proficiency		0		0	0	0		0	0	

A	kashi Co	olleae	Year	2024			ourse	Experiments of Electrical
			1	1-2			Title	Engineering II
Course Co	Informat Informat	6522			Course Categor	٧,	Specializ	red / Compulsory
Class Forr		Experim	ent		Credits	У	School C	
Departme	nt	Electrica	l and Computer	Engineering	Student Grade		5th	
Term		First Ser	l Engineering Co nester	urse	Classes per We			
Textbook					, and a second			
Teaching Instructor								
	Objectiv	 						
(1) Can m (2) Can e: (3) Can d	neasure an	d verify the e behavior the specification	e characteristics of an amplifier c ations of a syste	rcuit using a trans	istor. conditions giver	n by the	e experin	nent supervisor, and present them.
Kubi ic			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		Can measure	the characteristics and examine the	Can measure the of a transistor.		racteristic	·
Achievem	ent 2		Can examine experiment or an op amp in amplifier circutransistor, and	d propose and s, etc. utilizing	Can examine the experiment on an amplifier circle transistor.	the bel	havior of	Do not know the behavior and basic characteristics of an amplifier circuit using a transistor.
Achievem	ent 3		satisfies the c	of a system that onditions given by at supervisor, and nem in an easy-to-	specifications o satisfies the co	determine the cifications of a system that sfies the conditions given by experiment supervisor.		Cannot determine the specifications of a system that satisfies the conditions given.
Achievem	ent 4		Can work in a cooperating a solve the issu	nd sharing roles to	Can work in a group on the issues assigned.		on the	Cannot work in a group.
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho							
Outline		and elect respect f It also a	tronic engineerir for others and hi	ig that they acquire gh cooperativeness presentation skills	ed previously. Th s and leadership	ne aim by con	of this cla Iducting e	ledge and techniques of electrical ass is to foster engineers with experiments in groups.  ary for scientific reports through
Style		Students They wil Each gro	s will design and I work in groups oup should volun	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 cleaning Students	s will not receive date. ons regarding th ay be needed, so the lab and putt s who miss 1/3 c	a passing grade ungle experiments will of the contract of the	nless they give a be given during nts must pay atto oment.	ll speci the firs ention	ified prese st week. T to everyt	entations and submit reports by  The content of subjects already hing from taking roll-call to
Charact	eristics (	of Class /	Division in L	earning	<u> </u>			
☑ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan							
55015C	Ourse Plan Theme							
				Precautions during experiment and concept		engine	eering exp se of this scuss the	e various precautions related to periments and the content and experiment course.
1ct	2nd		Presentation of ospecifications 1	Presentation of concept and development of specifications 1		Can pr	resent ea kchange (	ch team's concept. ppinions on the specifications of be developed.
1st Semeste Quarter		3rd	Development of	specifications 2		Can ag group.		ne specifications of the system as a
		4th	Development of	specifications 3		Can su specifi	ubmit a p cations d	lan on how to meet the etermined previously.
		5th	Selection and plant plant plant plant plant proposal for sha	anning of elements ring of roles	and review of	Can summarize the sharing of roles and the future plans of the group.		
		6th	Preparation for p	presentation				the next week's report meeting

		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 im	plementation 1	Can determine exactly l target.	now to build the system as
		11th	System design and im	plementation 2	Can implement the syst method determined by	em by the construction each group.
	2nd Quarter	12th	System design and im	ystem design and implementation 3		mentation of the system group.
		13th	System design and im	System design and implementation 4		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	
Evaluati	ion Meth	nod ar	nd Weight (%)			
			Specification Presentation	Final Presentation	Report	Total
Subtotal	ıbtotal 30 35		35	35	100	
Basic Prof	Basic Proficiency 0		0	0	0	
Specialize	Specialized Proficiency 30 35			35	35	100
Cross Are	Special desired and the second of the second			0	0	0

А	kashi Co	ollege	Year	2024		Course Title	Probability and Statistics	
Course :	Informa	tion		·				
Course Co	ode	6523			Course Categor	y Special	ized / Elective	
Class Forr	mat	Lecture			Credits	Acaden	nic Credit: 2	
Departme	ent		and Computer Engineering Co		Student Grade	5th		
Term		First Sen			Classes per Week 2			
Textbook					•	•		
Teaching Instructor		HVWVDV	Yukihiro					
	Objectiv		TUKITITO					
[1] Can or [2] Under [3] Under [4] Under [5] Can m	rganize 1- stand the stand the stand the nake statis	and 2-dime concept of concept of	probability distress and control testing the statistics and control testing te	can calculate the pr ibution and can calc can calculate basic s	culate the amour	vent. It of samples.		
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		variance, co	calculate mean, variance, and pefficient and pgram.	Can calculate m covariance, and coefficient and histogram.	l correlation	<ul> <li>Cannot calculate mean, variance, covariance, and correlation coefficient and create a histogram.</li> </ul>	
Achievem	ent 2		probability a	r calculate the nd conditional fan event, and e independence of rrectly.	Can calculate the and conditional event, and determined independence of	probability of ermine the	Cannot calculate the probability and conditional probability of an event, and determine the independence of the event.	
Achievem	ent 3		probability of	r calculate the f an event under ribution, Poisson and normal	an event under binomial distribution, Poisson distribution, and normal		Cannot calculate the probability of an event under binomial distribution, Poisson distribution, and normal distribution.	
Achievem	ent 4			and can correctly nple mean, sample	Understand samples and populations and can calculate sample mean, sample variance, and unbiased variance.		Do not understand samples and populations and cannot calculate sample mean, sample variance, and unbiased variance.	
Achievem	ent 5		Can accurate estimation are estimation.	ely make point nd interval	Can make point estimation and interval estimation.		Cannot make point estimation and interval estimation.	
Achievem	ent 6		Can accurate population management	léan and the	Can test the po and the populat	pulation mean tion variance.	Cannot test the population mean and the population variance.	
Assigne	d Depar	tment Ob						
Teachin	g Metho	od						
Outline		laround u	ıs. explain what	pabilities and statistic happened based or arn the basics of pro	n the pattern, an	d estimate the	m various coincidence that occurs whole from the part. In this	
Style		Each wee					it the content you will learn for the	
Notice guarantee reports. T assignmen calculus.			eed in classes a There will be twents involves pr Try to solve th who miss 1/3	nd the standard self vo assignments, and ogramming in C. St e questions or exerc or more of classes v	-study time requal both of them mudents should had tise problems you	ired for review nust be submit ave a prior kno urself and scoo	rs include the learning time v and completing assignment ted by the due date. One of the owledge of linear algebra and re it against the answer.	
		<u> </u>			[7] Applia-1-1-1	Domata Cl-	☐ Instructor Professionally	
☐ Active	Learning		☑ Aided by	ICI	☑ Applicable to	kemote Clas	Experienced	
	DI.							
Course	rıan		Thoma		Т	Cools		
			Theme Course guidanc	e and 1-dimensiona	ıl data 1/2	the course. Ca	ne objectives and grading method of an create a frequency distribution	
2nd 1		1-dimensional o	data 2 of 2		Can calculate	stogram of the data.´ mean, median, mode, variance, anc ation of the data.		
1st Semeste	1st Quarter	3rd	2-dimensional (	data		Can calculate	the correlation coefficient and e of 2-dimensional data.	
-		4th	Discrete probat	oility			ne meaning and nature of trials,	
		5th	Conditional pro	bability and Bayes' t	theorem	events, and probability.  Can calculate conditional probability and determine whether two events are independe Also, can explain Bayes' theorem.		

		6th	Probability varia	bles and distribut	ion	Can explain di discrete proba the sequential probability dei	screte probabili bility distributio probability var nsity function.	ity variables and ons. Also, can explain iables and the		
		7th	Mean and variar	nce of probability	variables	Can calculate variables.	Can calculate mean and variance of probability variables.			
		8th	Midterm examin It is given durin							
		9th	Binomial distribution and Poisson distribution			Can explain th distribution ar distributions.	e binomial dist d can calculate	ribution and Poisson their means and		
		10th	Normal distribut	ion		explain the rel	nd use normal o ationship betwo Id normal distri	distribution. Also, can een binomial bution.		
		11th	Sample distribut	tion		Isample varian	opulation, samp ce, unbiased-va s, and central li	ole, sample mean, ariance, the law of mit theorem.		
	2nd	12th	Central limit the	Central limit theorem			Can explain normal population and central limit theorem.			
	Quarter	13th	Various probabi	Various probability distributions			e chi-squared o	distribution and t-		
	14th		Estimation and	Estimation and test 1 of 2			Can perform interval estimation of population mean when the population variance is known and unknown. Also, can explain what we claim by statistical tests.			
		15th	Test 2 of 2	Test 2 of 2			Can perform two-tailed and one-tailed tests for the population mean when the population variance is known and unknown.			
		16th	Final examination	on						
Evaluat	ion Met	hod and	Weight (%)							
	E	xamination	n Task	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	ubtotal 80		20	0	0	0	0	100		
Basic Proficienc	cy 0		0	0	0	0	0	0		
Specialize Proficienc			0	0	0	100				
Cross Are Proficienc			0	0	0	0	0	0		

А	kashi C	ollege	Year	2024		Course Title	Fundamentals of Communication Systems	
Course	Informa	tion		•				
Course Co	ode	6525			Course Categor	y Specia	alized / Elective	
Class Forr	mat	Lecture			Credits	Acade	emic Credit: 2	
Departme	ent		l and Computer     Engineering Co		Student Grade	5th		
Term		First Sen			Classes per We	ek 2		
Textbook	and/or							
Teaching Instructor								
Course		 /AC						
The goal i 1) Unders and can a 2) Can de	is to achie stand the inalyze the esign a sim	ve the follow mathematic em. aple signal p	rocessing syster	ies: nd basic signal prod m in a communicat kills through the pr	ion system.	·	nderstand communication systems	
Rubric					1			
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		basic signal punecessary to u	preparation and rocessing theory understand on systems and	Understand the preparation and processing theo understand com systems and ca	l basic signal ory necessary nmunication	mathematical preparation and basic signal processing theory necessary to understand	
Achievem	ent 2			design a simple sing system in a on system.	Can design a sit processing syste communication	eṁ in a	Cannot design a simple signal processing system in a communication system.	
Achievement 3			Can correctly required num reports.	write up the ber of assignment	Can write up th number of assig	e required Inment repor	Cannot write up the required number of assignment reports.	
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho	od						
Outline		analogue	e communication	systems. This cou	rse is paired with	n Communica	unication systems, and simple ation Systems, which will be held in ation Systems is recommended.	
Style		demodul sure to v	ation systems, a	the basics of commend the material will pre-study review.	ll be explained us	ms and the ar sing a textboo	nalogue modulation and ok. Self-study is important, so be	
Notice		lguarante	se's content will amount to 90 hours of study in total. These hours include the learning tied in classes and the standard self-study time required for pre-study $/$ review, and compent reports. Students who miss $1/3$ or more of classes will not be eligible for a passing grant reports.					
Charact	eristics	of Class /	Division in Le	earning				
☐ Active	Learning		☐ Aided by ICT			Remote Clas	ss   Instructor Professionally   Experienced	
Course	Plan							
		1	Theme			Goals		
		1st	and the position out. Discuss on esser	ure of the commun ing of this class wil ntial mathematical imunication system ns.	I be carried fundamentals		about communication systems. Can ole of modulation.	
		2nd	Digital and analo Discuss on the c processing versu	ogue signal process haracteristics of dig us analogue signal	ing gital signal processing.	Can explain a briefly.	about digital and analogue processing	
	3rd		Signal Wave Ana Discuss on the ruusing Fourier sei	alysis epresentation of sig ries and Fourier tra		Can express using Fourier	periodic and non-periodic signals series and Fourier transforms.	
1st Semeste r	Semeste Ouarter		Discuss on the re time system suc	discrete time syste elationship betwee h as an electrical c stem that deals wit	n a continuous-   ircuit and a	Can explain c systems.	continuous and discrete time	
			Linear time inva Discuss on the b as linearity and	riant system pasic properties of s time invariants and		Can explain t convolution o	the linearity, time invariant and operations of discrete time systems.	
			system and its e	onse of the system requency character effectiveness. Discu ency response usin	ss on the	Can explain a	and derive the frequency cs of discrete time systems.	
		7th	Midterm exercise Review the cont	e ent learned so far t n a better understa	:hrough	Can accomplish the challenges assigned.		

		8th	Midterm exam		Score 60 or more	e marks.
		9th	Amplitude modulation systems (1) Explain the role and significance of Explain the amplitude modulation s	modulation. ystem.	Can explain the r Can explain ampl	ole of each modulation system. itude modulation system briefly.
		10th	Amplitude modulation systems (2) Explain amplitude modulation and i demodulation.	ts	Can explain the modulation and demodulation methods of amplitude modulation system.	
		11th	Angle-modulation systems (1) Explain phase modulation and frequendulation briefly, and explain the used for frequency modulation.	uency bandwidth	Can explain the nature of phase modulation and frequency modulation.	
	2nd Quarter	12th	Angle-modulation systems (2) Explain frequency modulation and i demodulation.	ts	Can explain the n methods of frequ	nodulation and demodulation ency modulation system.
		13th	Pulse modulation and pulse-code m Explain the sampling theorem and modulation using the periodic pulse carrier wave.	nodulation the pulse-code e signal as the	Can explain the s modulation.	ampling theorem and pulse
		14th	Fast Fourier transforms Explain fast Fourier transforms that discrete frequency spectra in less c	result in omputations.	Can explain the fast Fourier transform and their relationship with discrete Fourier transforms.	
		15th	Final exercise Review the content learned so far t exercises to gain a better understar	hrough nding.	Can complete the assignments given.	
		16th	Final exam		Score 60 or more marks.	
Evaluati	ation Method and W		Weight (%)			
			Examination	Report		Total
Subtotal			70	30		100
Basic Prof	iciency		0	0		0
Specialize	d Proficier	ncy	70	30		100
Cross Area	a Proficien	су	0	0		0

Д	Akashi Co	ollege	Year	2024			ourse Fitle	Communication System	
Course	Informa	tion	1	1				<u> </u>	
Course Co		6526			Course Categor	ry	Specializ	ed / Elective	
Class For	mat	Lecture			Credits		School C	redit: 1	
Departme	ent		and Computer E Engineering Cou		Student Grade		5th		
Term		Second Se		1130	Classes per We	eek	ek 2		
Textbook Teaching	Matérials	教科書:植	松友彦、松本隆っ	太郎「基本を学ぶ通	信工学」オーム社				
Instructo									
以下の能力 1)アナロ 2)各種ラ	コグ・ディミ ディジタル?	ることを目標と ジタル通信シス な調方式の原理	でする。 ステムおよびそのほと、特徴についてほる。 な変調の原理、特征である。						
Kubiic			理想的な到達レ	ベルの日安	標準的な到達レイ	ベルの目	  安	未到達レベルの目安	
				<u>, 、、、、、、。</u> ジタル通信システ	アナログ・ディ			アナログ・ディジタル通信システ	
評価項目1			ムおよびその基 ついて正確に説	本的な構成要素に 明できる.	ムおよびその基準 ついて説明できる	本的な構 る.	成要素に	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	:		各種テインタル  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3  徴について説明	変調力式 できる.	心原理,衔	ト 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	1		多重通信方式、 調の原理、特徴 明できる。	スペクトル拡散変 について正確に説	多重通信方式、 調の原理、特徴( る。	スペクトについて	ル拡散変 説明でき	多重通信方式、スペクトル拡散変 調の原理、特徴について説明でき ない。	
Assigne	d Depar	tment Obj	ectives						
Teachin	ng Metho								
Outline		本講義では 理論につい 目標とする	て理解することを	ィジタル通信システ. を目標とする. また.	ムについて解説す 、現代社会の通信	る. 各種 システム	重変調方式 ムで使われ	を用いて情報伝送を行うための基礎 ている変調技術を幅広く知ることを	
Style		アナログ通	信に加え、デジタ	タル通信の変復調方: で、予習復習をしつ:	式に重点を置いて	、教科書	・スライ	ドを用いながら解説していく。自己	
Notice		本講義では理論についまた、現代	、アナログ・ディンで理解することを 社会の通信シスラ		ムについて解説する 変調技術を幅広く	る. 各種	<b>重変調方式</b>	を用いて情報伝送を行うための基礎 する。	
Charact	eristics	of Class / I	Division in Learning						
□ Active	Learning		☐ Aided by ICT ☑ Applicable			o Remo	te Class	☐ Instructor Professionally Experienced	
Course	Plan								
Course	lian	Т	heme			Goals			
		其 1st	予して	を行い、基礎通信工	学で学習した項		言工学での	D学習したことの概要を説明できる。	
		可 2nd 道	軍率過程の基礎 配信システムにお	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。	確率過程	程について	基本的概念を説明できる。	
			議幅変調の雑音特性 経音があるときの	生 振幅変調方式のふる	まいを説明する	復調信号 式別に記	号の信号電 説明できる	電力対雑音比について, 各振幅変調方 る。	
			るまいを説明す	周波数3 を説明で		こおける復調信号の信号電力対雑音比			
Quarter 5th Semeste		- <sub></sub>  7	る。 复習・小テスト(1) アナログ変調における雑音について振り返る。簡単な プログラムを利用して、各変調方式のふるまいを確認 する。小テストを実施する。		小テスト	トで60%」	以上を取得する。		
r <u></u>		j-	ディジタル変調の <sup>デ</sup> ィジタル変調の			ディジク	タル変調に	こおける雑音について説明できる。	
	7tl		。 パスバンドディジタル変調(1) 信号空間解析と相関受信機について説明する。			通信システの判定	ステムの特 定方法を <b>訳</b>	・ 特性を解析でき、相関受信機による信 礼明できる。	
		1	『スバンドディジ					こ説明できる。	
	4+1-	9th     i	『スバンドディジ』 『行振幅変調(Q <i>A</i> □説明する。	タル変調(3) AM)と位相偏移変調	I (PSK) につい	QAM方:	式、PSK7	う式について説明できる。	
	4th Quarter	10th	2習・小テスト( ディジタル変調に で利用して、各変	ついて振り返る。簡	単なプログラム 確認する。小テ	小テストで60%以上を取得する。			
	10th   を利用して、各変調方式のふるまいを確認する。小テ								

		11th	Orthogonal Frequency Multiplexing(OFDM) する。	/ Division 方式、OFDM方式について説	明 OFDM方式について説明で	ごきる。
		12th	多重通信方式 周波数分割多重(FDM) 分割多重(CDM)につい	、時分割多重(TDM)、符号 いて説明する。	号 多重通信について説明でき	きる。
		13th	移動通信システムと変調 移動通信システムの発展 った変調方式を振り返る	屡の歴史を題材に、本講義で扱	各変調方式がどのように依	<b>赴われてきたかを知る。</b>
		14th	通信システムにおける変世の中にある通信システ変調技術、通信技術が修 てまとめる。	変調技術(1) -ムを各自で調べ、どのような 使われているかをレポートとし	: 各自で興味を持った通信: ポートとしてまとめられる	ンステムについて調査し、レ 3。
		15th	通信システムにおける変各自が作成したレポート テムにおける変調技術の	፻調技術(2) ◇を読み合い、様々な通信シス ○使われ方を知る。	レポートを互いに読み合う ムに関する知識を吸収する	うことで、様々な通信システ
		16th				
Evaluation	uation Method and Weight (%)		d Weight (%)			
	小テスト		<b>小テスト</b>	レポート	課題	Total
Subtotal	ıbtotal 40		10	30	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 40		10	30	30	100
分野横断的	能力	(	)	0	0	0

А	kashi Co	ollege	Year	2024		Course Title	Information Network		
Course 1	Informa	tion		1		Title			
Course Co		6527			Course Categor	ry Specializ	red / Elective		
Class Forn	mat	Lecture			Credits	School C	Credit: 1		
Departme	ent		ind Computer E Engineering Cou		Student Grade	5th			
Term		First Seme			Classes per We	Veek 2			
Textbook Teaching		指定しない	•						
Instructor		INOUE Kaz	zunari						
Course (		_							
1) ネット  2) LANを  3) IPパケ  4) TCPと	、ワークの歴 構成する技 「ットとルー :UDPによる	を史、TCP/IPフ 技術 -ティング	プロトコル	とし、以下の能力の	習得を個別目標と	する。			
Rubric					_				
			理想的な到達レ		標準的な到達レク		未到達レベルの目安		
評価項目1					ネットワークのB  プロトコルを理解	歴史とTCP/IP通信 解できる。	ネットワークの歴史とTCP/IP通信  プロトコルを理解できない。		
評価項目2				トポロジーと伝送					
評価項目3			イーサネットフ ディング、IPパ ングを十分に理	レームとフォワー ケットとルーティ 解できる。	イーサネットフl ディング、IPパク ングを理解できる	レームとフォワー ケットとルーティ る。	イーサネットフレームとフォワー ディング、IPパケットとルーティ ングを理解できない。		
評価項目4			UDP/TCPの制御 とアプリケーシ できる。	即方式、ポート番号 ョンを十分に理解		方式、ポート番号  コンを理解できる			
評価項目5			ネットワークに潜む脅威、セキューネットワークに			替む脅威、セキュ 技術を理解できる			
Assigne	d Depar	tment Obje	•		10				
	g Metho								
Outline		する。この	科目では、ルーク	タほかネットワーク	機器開発の実務経	験を有する教員カ 	いて学習する。LAN構築のためのトポットワークセキュリティについて学習、講義形式と演習形式で授業を行う		
Style							・ 一 一 で理解することを目標とし、第1週		
Notice		3年授業  ¶  合格の対象	青報工学概論」で としない欠席条件	でのネットワークの笑 牛(割合) 1/3以上の	ロ識を前提とする。 欠課				
Charact	eristics		Division in Le						
□ Active	Learning		☑ Aided by IC	T	☑ Applicable to	o Remote Class	☐ Instructor Professionally Experienced		
Course I	Dlan								
Course	Piaii	Т	neme			Goals			
			ットワークの歴	史と通信方式の変遷	について説明す		歴史と通信方式の変遷について理解で		
		12nd T	ナログ信号のデー説明する。ディー ス具体例につい	ィジタル化、符号化 ジタル伝送とシリア て説明する。	と複合化につい ルインターフェ	て理解できる。 <del>?</del>	ディジタル化、符号化と複合化につい ディジタル伝送とシリアルインターフ ついて理解できる。		
		3rd 🗓	線交換方式から	パケット交換方式へ る技術について説明			らパケット交換方式への違い、インタ する技術について説明する。		
	1st	技	術概要について			技術概要についる			
1st	Quarter	Sun L2	2/L3/L4/L7処理(	のカプセル化と非カの流れについて説明	する。	L2/L3/L4/L7処3	でのカプセル化と非カプセル化、 里の流れについて理解できる。		
Semeste r		6th   (1)	て説明する。 ANを構成する技行	など各種ネットワー ボ、スイッチ/ルータ		いて理解できる。	型など各種ネットワークトポロジにつ 支術、スイッチ/ルータについて理解で		
		イ 7th ロ	ーサネットフレ· ード、トレーラ	ームフォーマット、 の役割とMACアドレ	ヘッダー、ペイ ·スについて説明	イーサネットフし	ノームフォーマット、ヘッダー、ペイ ラの役割とMACアドレスについて理解		
						中間試験			
		8th 4				中国武装   IPパケットフォーマット、アドレスの設定方法、クラスフルアドレスについて理解できる。ルーティングテーブルと経路制御について理解できる。			
	2nd Ouarter	IP 9th Z	パケットフォー <sup>・</sup> フルアドレスに	ついて説明する。ル	設定方法、クラ ーティングテー	IPパケットフォ- スフルアドレス(	こついて理解できる。ルーティングテ		

		11th	DHCPサーバー機能について説明する。 術ICMPエコー要求・応答について説明 のARPについて説明する。	IPを助ける技 lする。L2/L3間	DHCPサーバー機能 技術ICMPエコー要 L2/L3間のARPにつ	について理解できる。IPを助ける 求・応答について理解できる。 いて理解できる。	
		12th	コネクションレス型・コネクションレン について説明する。ポート番号とL7へいて説明する。	ス型プロトコル の受け渡しにつ		型・コネクションレス型プロトコル る。ポート番号とL7への受け渡しに	
			DNS、Web.サーバーとHTTPなどイン におけるサービスとプロトコルについ		DNS、Web.サーバ におけるサービスと	ーとHTTPなどインターネット利用 ニプロトコルについて理解できる。	
		14th	ネットワークに潜む脅威と情報を取りす 、ネットワークセキュリティと暗号化す 明する。			3脅威と情報を取り扱う上での倫理 Fュリティと暗号化技術について理	
		15+h	移動体通信とアクセスネットワークに <sup>-</sup> 。 IoT(Internet of Things)と非IPネッ て説明する。	- 1 22/0/37 3	移動体通信とアクセスネットワークについて理解でき  る。  IoT (Internet of Things) と非IPネットワークについ  て理解できる。		
		16th	期末試験		期末試験		
Evaluation	n Metho	od and V	Veight (%)				
			試験	演習課題		Total	
Subtotal	80			20		100	
基礎的能力	礎的能力 0			0		0	
専門的能力	<b>評門的能力</b> 80 20			20		100	
分野横断的能	力		0	0		0	

Akashi Co	llege	Year	ear 2024			Control Engineering II
Course Informat	iọn					
Course Code	6528			Course Category		ed / Elective
Class Format	Lecture	ad Campustan F		Credits	School Cı	edit: 1
Department	Electrical E	nd Computer Ei ngineering Cou		Student Grade	5th	
Term Textbook and/or	Second Ser	nester		Classes per Week	2	
Teaching Materials						
Instructor	KAMI Yasus	shi				
Course Objectives The objectives of thi 1. Can derive the tra 2. Can draw a polygor function from the po 3. Can determine sta 4. Can find a stability 5. Can design PID co 6. Can derive the dis	s course are a insient respondenal line appr lygonal line a ability criteria y margin. ontrol system	nse of a system oximation of a approximation of of open-loop s	Bode plot drawing of a Bode plot. ystems by using t	g from a transfer fu	unction. Conve	ersely, can derive a transfer riterion methods.
Rubric		,				
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		Can calculate the Laplace transfor partial fraction and completing	orm based on decomposition	Can calculate the Laplace transform partial fraction de	based on	Cannot calculate the inverse Laplace transform.
Achievement 2		approximation from a transfer derive a transfe		Can either draw a approximation of from a transfer fuderive a transfer fa polygonal line a of a Bode plot.	a Bode plot nction, or unction from	Can neither draw a polygonal line approximation of a Bode plot from a transfer function, o derive a transfer function from a polygonal line approximation of a Bode plot
Achievement 3		Can determine an open loop sy special cases of stability criteric	f the Routh	Can determine the stability of an open loop system using the normal Routh stability criterion methods.		Do not know how to use the Routh stability criterion method
Achievement 4		Can determine an open loop s Hurwitz stabilit methods.	the stability of ystem using y criterion	Can derive a Hurv	vitz matrix.	Do not know how to use the Routh stability criterion method
Achievement 5		Can find a stab indicate the ap in the frequenc	ility margin or to plicable location cy response.	Can explain the destability margin.	efinition of a	Cannot explain the definition of a stability margin.
Achievement 6		Can explain a r among control frequency performance frequency reso compencetors.	specifications, ormances and	Can explain the rebetween control sand frequency per	pecifications	Cannot explain the relationship between control specifications and frequency performances.
Achievement 7			control systems esponse method.	Can explain an outline of PID control system design with step response method.		Cannot explain an outline of PI control system design with step response method.
Achievement 8		Can design PID with the limit s method	control systems ensitivity	Can explain an outline of PID control system design with limit sensitivity method		Cannot explain an outline of PI control system design with limi sensitivity method
Achievement 9				Can derive a difference		Do not know methods of difference approximation of derivative.
Assigned Depart	-	ctives				
Teaching Method	While we a refrigerator controls fol	s, have a autor lowing Control hod of PID con	matic control funct Engineering I, suc	tion. In this cours th as the Routh and	se, students w d Hurwitz stab	ding cars, air conditioners, and ill learn the basics of classical ility criterion methods and the esponse of control systems by
They will learn how to determine the transient response of a system, and about stability margins and F control designs. In addition, as an overall summary of the previous study on control engineering, we we style 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.						
Notice	should actu calculations Students w	ially think and s a. Also, because tho miss 1/3 or	solve exercise prole there will be man more of classes w	blems assigned as	appropriate th	d periodic exams. Therefore, they nemselves, to get used to doing nake efforts to finish them quickly rade.
Characteristics o	f Class / D	ivision in Le	arning	T		
		☑ Aided by IC		I	emote Class	☐ Instructor Professionally

			Theme		Goals		
		1st	Introduction		Understand the o	outline of this course and know e study and objectives.	
		2nd	Laplace inverse transform			inverse Laplace transform based decomposition or completing	
		3rd	Calculation of transient response		Can derive step responses, impulse responses, etc. using the inverse Laplace transform.		
		4th	Equivalent transformation of Block	diagrams	Can transform co equivalent simple	e ones.	
	3rd Quarter	5th	Polygonal line approximation of a E	Bode plot 1	Can draw a Bode with a transfer fu of the primary ele	plot (gain plot) line for a system inction consisting of the product ement.	
		6th	Polygonal line approximation of a E	Bode plot 1	polygonal line ap plot)for a system	transfer function from the proximation of a Bode plot (gain with a transfer function product of the primary element.	
		7th	Stability margins		Can explain a sta Can explain wher in the frequency	e a stability margin is indicated	
2nd		8th	Hurwitz stability criterion method a stability criterion method	and Routh	Can determine the stability using Hurwitz and normal Routhh stability criterion methods.		
Semeste		9th	Special cases of Routh stability crit	erion method	Can determine the stability with the special cases of Routh stability criterion method.		
		10th	Loop shaping and compensator		Can explain the r	elationship between control d frequency performances.	
		11th	PID control	(transfer function).  ID control  Can explain the effect of P action. Can explain the effect of I action. Can explain the effect of D action.  Can explain the effect of D action.  Can determine PID gain using the ultim sensitivity method.		effect of P action. Effect of I action.	
	4th Quarter	12th	How to design PID control systems			Can determine the PID gain using the step	
		13th	Discretization of the model		Can derive a discrete time model by differentiating the differential equations. Can find a solution of a differential equation, and derive a discrete time model using it.		
		14th	Control system design simulation e	exercise	control system by	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					
Evaluation Method and Weight (%)							
			Examination	Exercise		Total	
Subtotal			70	30		100	
Basic Prof	ficiency		0	0		0	
Specialize	d Proficier	псу	70	30		100	
Cross Are	a Proficier	псу	0	0		0	

Akashi College		ollege	Year	2024		Course Title	Solid State Physics C
Course	Informa	tion					
Course Co	ode	6529			Course Category	Specializ	ed / Elective
Class For	mat	Lecture	1 6		Credits	School C	redit: 1
Departme	ent	Electrical ar	nd Computer Er ngineering Cour	ngineering rse	Student Grade	5th	
Term	.,	First Semes	ter		Classes per Weel	2	
Textbook Teaching	and/or Materials	荻野俊郎「エ	ニッセンシャル応	用物性論」朝倉書	店		
Instructor	r	OHMUKAI M	1asato				
(1)光の粒· (2)結晶構	Objectiv 子性につい 造について 折の原理に	 て知る 知る					
Rubric		I,	·m+n++		1#2#4# 1 x 7:12 + 1		
		-	理想的な到達レ/ *の粒子性につい	ベルの目安 ハて定量的な議論	<ul><li>標準的な到達レベル</li><li>光の粒子性につい⁻</li></ul>		未到達レベルの目安   光の粒子性について議論できない
評価項目[1]			ができる。	, で 足里的 3 成	ができる。		•
評価項目[2]			結晶構造の細かい	ハ分類ができる。	結晶構造における(かる)	代表的な例がわ	結晶構造について実例を挙げるこ とができない。
評価項目[3	3]		X線回折の原理を きる。	を定量的に説明で	X線回折の概略を!	身に着けている	X線回折について知識がない。
Assigne	d Depar	tment Obje	ctives				
Teachin	ig Metho	_					
Outline		固体物性Cてな構造に関す	では4年の固体物である内容を取り扱	性A、Bで取り扱	わなかった事項につ	いて学ぶ。例え	ば固体の原子配列にかかわる物理的
Style		講義形式によ	り重要な概念の		 深く理解するために を実施する。	、周囲とのコミ	ュニケーションを交えた自習をおこ
Notice		授業中は集中 必要。	りて理解に努め		ろを授業中に質問し	て解決していく	プロセスが求められる。毎回復習が
Charact	eristics		vision in Lea		-		
☑ Active		,	☐ Aided by ICT ☐ Applicable to		Remote Class	☐ Instructor Professionally Experienced	
		<u>'</u>			1		
Course	Plan	Ι .					
		l IThe	neme				
	Theme					oals ぬめにおける	プランクの仮説の背景と内容について
	1st 熱放射				熱		プランクの仮説の背景と内容について
		1st 熱放			烈 理 光	対射におけるこ 関解する。	プトン効果の定量的議論を例にとり、
		1st 熱放 2nd 光電	対射 電効果とコンプト	、ン効果 「体のエネルギー等	対 対	は放射におけるこ 2解する。 光電効果とコンス その粒子性につい	プトン効果の定量的議論を例にとり、 いて理解する。 D構造を理解し、気体のエネルギー等
	1st	1st 熱族 2nd 光電 3rd 原三	対射 電効果とコンプト		対 対 対 対 対 対 対 対 対 対 対 が 対 が 対 が 対 が 対 が	A放射におけるご 関解する。 全電効果とコンジ その粒子性につい マチスペクトルの 配則について理 会属や半導体中で	プトン効果の定量的議論を例にとり、 ハて理解する。 D構造を理解し、気体のエネルギー等
	1st Quarter	1st 熱抗 2nd 光電 3rd 原子 4th 気体	対射 電効果とコンプト アスペクトルと気		対配則 対 分配則 分 金 を を を を する	独放射におけるこ 経解する。 全電効果とコンこ の粒子性につい マテスペクトルの で記則についても	プトン効果の定量的議論を例にとり、 いて理解する。 D構造を理解し、気体のエネルギー等 理解する。 での電子の振る舞いの基礎となる理論
		1st 熱放 2nd 光電 3rd 原子 4th 気体 5th 確認	対射	(体のエネルギー等	対 対 対 対 対 が に が に の に に の に に の に の に の に の に の に の に の に の に の に の に に に に に に に に に に に に に	A放射におけるこ を を を で を で で で で で で で で で で で で で	プトン効果の定量的議論を例にとり、 いて理解する。 D構造を理解し、気体のエネルギー等 理解する。 での電子の振る舞いの基礎となる理論 引する。 Pという概念で理解し、どのような種
1et		1st 熱放 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶	対射 電効果とコンプト アスペクトルと気 本の分子運動論 &テスト	<ul><li>(体のエネルギー等)</li><li>格子</li></ul>	対 対 対 対 対 が が が が が が が が が を を を を を を を を を を を を を	A放射におけること を関する。 全電効果とコンス の粒子性についる でではいて可いて可能について可能関について可能 に属や半導体中では では、対したを取得 は、対したを取得 は、対したを取得 は、対したを取得 は、対したを取得 は、対したを取得 は、対したを取得 は、対したを取得	プトン効果の定量的議論を例にとり、 いて理解する。 D構造を理解し、気体のエネルギー等 理解する。 での電子の振る舞いの基礎となる理論 引する。 Pという概念で理解し、どのような種
1st Semeste r		1st 熱放 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶	対射 電効果とコンプト アスペクトルと気 本の分子運動論 忍テスト 晶構造とブラベー	<ul><li>(体のエネルギー等)</li><li>格子</li></ul>	対   対   対   分配則   原   分配則   の   名を   名を   名を   名を   名を   名を   名を   名を	放射におけること 関する。 に関する。 に関する。 で対象子性について でラスペクトルの で見いて可いて可 に関い半導体中で と理解する。 の点以上を取得 はあるかを知る は表的な結晶にこ は線回折の基礎で	プトン効果の定量的議論を例にとり、 いて理解する。 D構造を理解し、気体のエネルギー等 理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 る。
Semeste		1st 熱放 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X系	対射 電効果とコンプト アスペクトルと気 本の分子運動論 忍テスト 晶構造とブラベー 晶格子の実例と充	<ul><li>(体のエネルギー等)</li><li>格子</li></ul>	対   対   分配則   一   分配則   一   会を   6   経   数   代。   X   す   ま	放射におけるこ 関解する。 電効果とコンプ で対象子性につい でアスペクトルの 計配則に導体中で 連属や半導る。 の点以上を取得 は高の構造を格って があるかを知る。 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、	プトン効果の定量的議論を例にとり、1て理解する。 内構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる
Semeste		1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X %	対射  図効果とコンプト  アスペクトルと気  本の分子運動論  のテスト  品構造とブラベー  品格子の実例と充  泉回折の基礎  泉回折の応用	<ul><li>(体のエネルギー等)</li><li>格子</li></ul>	対   対   分配則   一   分配則   一   会を を 6   経数   代。   X   対   実知   1   1   1   1   1   1   1   1   1	放射におけること 関する。 に関する。 に関する。 に関する。 に関いて可能 に関いて可能にでいて可能を関係する。 の点以上を取得 はこれがあるかを知る。 は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 いて気を付けなければいけないことを
Semeste		1st 熱放 2nd 光電 3rd 原子 4th 気化 5th 確認 6th 結晶 7th 結晶 8th X彩 9th X彩	対射 電効果とコンプト アスペクトルと気 本の分子運動論 忍テスト 晶構造とブラベー 晶格子の実例と充 泉回折の基礎	<ul><li>(体のエネルギー等)</li><li>格子</li></ul>	対   対   分配則   一   分配則   一   会を   名を   名を   名を   名を   名を   名を   名を   名	放射におけること 関する。 に電効果とコンス ででである。 ででである。 の点以上を取得 にはいて理解する。 の点以上を取得 はあるかを知る。 は、はいかは、はいかである。 には、はいがである。 には、はは、はは、はは、はは、はは、はは、はは、はは、はは、はは、はは、はは、は	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 いて気を付けなければいけないことを
Semeste	Quarter 2nd	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶	対射  図効果とコンプト  子スペクトルと気  本の分子運動論  忍テスト  晶構造とブラベー  晶格子の実例と充  説回折の基礎  認回折の応用	「体のエネルギー等 一格子 で填率	計   対   対   対   対   対   対   (   (   (   (   (   (   (   (   (   (	放射におけるご 関する。 電効果とコンパー ででである。 でである。 の点のは、一般である。 の点のは、一般である。 は、一般でな。 は、一般である。 は、一を、一を、一を、 は、一を、 は、一を、 は、 は、 は、 は、 は、 は、 は、 は、 は、 は	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 ものいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 って気を付けなければいけないことを
Semeste	Quarter	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶	対射 動果とコンプト アスペクトルと気 本の分子運動論 ステスト 諸構造とブラベー 諸格子の実例と充 泉回折の基礎 泉回折の応用 ステスト 最の不完全性	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   分配則   一   分配則   一   会   名   大   大   も   は   は   は   は   は   は   は   は   は   は	放射におけるご 解する。 電効果とコンプ の粒子性につい でアスペクトルの を関いに導体中で 連興解する。 の点以上を取得 ものがあるが表記である。 の点以上を取得 はいかである。 であるがあるがある。 である。 である。 にはいかである。 にはいかである。 である。 にはいかである。 にはいがではいがではいがである。 にはいがではいがではいないがでないがでないがではいがでないがでないがではいがでないがではいがではいがではいが	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 この電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる こあるブラッグの条件を定量的に理解 いて気を付けなければいけないことを 引する。
Semeste	Quarter 2nd	1st 熱抗 2nd 光電 3rd 原子 4th 気化 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶 12th 1和	対射 動果とコンプト アスペクトルと気 本の分子運動論 ステスト 諸構造とブラベー 諸格子の実例と充 泉回折の応用 ステスト 最回折の応用 ステスト 最回折の応用	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   分配則   一   分配則   一   会を   名   名   表   表   表   表   表   表   表   表   表   表	独射におけるご 関する。 電効果とコンプ でを対象子性について では、アイクトルの では、関係では、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、 には、 には、 には、 には、 には、 には、 に	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 引する。 という概念で理解し、どのような種 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 へて気を付けなければいけないことを 引する。
Semeste	Quarter 2nd	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X ※ 9th X ※ 10th 確認 11th 結晶 12th 1和 13th 2和	対射  図効果とコンプト  アスペクトルと気  本の分子運動論  Rアスト  品構造とブラベー  品格子の実例と充  認回折の応用  Rアスト  品の不完全性  重原子の格子振動	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   対   対   対   対   対   (   (   (   (   (   (   (   (   (   (	独射におけるご 関する。 電効果とコンプ でを対象子性について では、アイクトルの では、関係では、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、関係では、 には、 には、 には、 には、 には、 には、 には、 に	プトン効果の定量的議論を例にとり、 って理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 って気を付けなければいけないことを いなる格子の振動について定量的に学 なる格子の振動について定量的に学
Semeste r	Quarter  2nd Quarter	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶 12th 1和 13th 2和 14th 固体	対射 動果とコンプト アスペクトルと気 本の分子運動論 ステスト 書格子の実例と充 最回折の応用 ステスト 最回折の応用 ステスト 最回折の応用 ステスト 最の子の格子振動 重原子の格子振動 本の比熱の理論 ステスト	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   対   対   対   対   対   (   (   (   (   (   (   (   (   (   (	放射におけるご 解する。 にである。 にである。 にでする。 のたりにいてする。 のには、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	プトン効果の定量的議論を例にとり、 って理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 する。 という概念で理解し、どのような種 る。 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 って気を付けなければいけないことを いなる格子の振動について定量的に学 なる格子の振動について定量的に学
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Semeste r Evaluati	Quarter  2nd Quarter	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶 12th 1和 13th 2和 14th 固体 15th 確認 16th od and Wei	対射 認効果とコンプト アスペクトルと気 本の分子運動論 忍テスト 晶構造とブラベー 晶格子の実例と充 認回折の応用 忍テスト 最回折の応用 忍テスト 電原子の格子振動 本の比熱の理論 忍テスト の比熱の理論 のアスト	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   対   が   原   分配則   原   分配則   原   分配則   の   名を   6   6   6   1   1   7   1   1   1   1   1   1   1	放射におけるご 解する。 にである。 にである。 にでする。 のたりにいてする。 のには、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	プトン効果の定量的議論を例にとり、 「て理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 でする。 という概念で理解し、どのような種 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 いて気を付けなければいけないことを いまする。 なな格子の振動について定量的に学 命を3種類学ぶ。 いする。 「Total
Evaluati Subtotal	2nd Quarter ion Meth	1st 熱抗 2nd 光電 3rd 原子 4th 気化 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶 12th 1和 13th 2和 14th 固化 15th 確認 16th od and Wei	対射    図効果とコンプト   アスペクトルと気体の分子運動論器アスト   温橋造とブラベー   温格子の実例と充意回折の応用器アスト   温原子の格子振動車原子の格子振動車の比熱の理論器アスト   関射 (%)   試験   50	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   対   が   が   が   が   が   が   で   で   で   で   で   で   で   で   で   で	放射におけるご 解する。 にである。 にである。 にでする。 のたりにいてする。 のには、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	プトン効果の定量的議論を例にとり、 へて理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 する。 という概念で理解し、どのような種 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 いて気を付けなければいけないことを 引する。 なな格子の振動について定量的に学 なる格子の振動について定量的に学 なる格子の振動について定量的に学 なる格子の振動について定量的に学
Semeste r	2nd Quarter ion Meth	1st 熱抗 2nd 光電 3rd 原子 4th 気体 5th 確認 6th 結晶 7th 結晶 8th X 終 9th X 終 10th 確認 11th 結晶 12th 1和 13th 2和 14th 固体 15th 確認 16th 16th 10d and Wei	対射 認効果とコンプト アスペクトルと気 本の分子運動論 忍テスト 晶構造とブラベー 晶格子の実例と充 認回折の応用 忍テスト 最回折の応用 忍テスト 電原子の格子振動 本の比熱の理論 忍テスト の比熱の理論 のアスト	<ul><li>(本のエネルギー等</li><li>一格子</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力)</li><li>(力</li></ul>	対   対   対   が   原   分配則   原   分配則   原   分配則   の   名を   6   6   6   1   1   7   1   1   1   1   1   1   1	放射におけるご 解する。 にである。 にである。 にでする。 のたりにいてする。 のには、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	プトン効果の定量的議論を例にとり、 「て理解する。 の構造を理解し、気体のエネルギー等理解する。 での電子の振る舞いの基礎となる理論 でする。 という概念で理解し、どのような種 のいて充填率を計算できるようになる であるブラッグの条件を定量的に理解 いて気を付けなければいけないことを いまする。 なな格子の振動について定量的に学 命を3種類学ぶ。 いする。 「Total

Akashi College		Year	Year 2024			Application of Electronics	
Course	Informa	tion				•	
Course C	ode	6530			Course Category	/ Specializ	ed / Elective
Class For	mat	Lecture			Credits	School C	redit: 1
Departme	ent	Electrical  Electrical	and Computer E Engineering Cou	ingineering urse	Student Grade	5th	
Term		Second S	Semester		Classes per Wee	k 2	
Textbook	and/or Materials	なし					
Instructo		ОНМИКА	I Masato				
	Objectiv						
(1)電子の (2)電子が (3)電子を	発見の歴史 電界や磁界 利用した元	について知る から受けるた	/めとする各種分析	その応用について知 行方法について知る。	<b>口る</b> 。		
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	1		電子の発見の歴っている。	史についてよく知	電子の発見の歴史いる。	について知って	電子の発見の歴史について知らない。
評価項目 2	2		電子にかかる様 量的に説明でき てよく知ってい	々な力について定 、その応用につい る。	電子にかかる様々 性的に説明でき、 て知っている。	な力について定 その応用につい	電子にかかる様々な力について説 明できず、その応用について知ら ない。
評価項目3	3		っている。	について詳しく知	元素分析の手法にる。	ついて知ってい	元素分析の手法について知らない。
評価項目4	4		超伝導について	詳細に知っている	超伝導について知	っている。	超伝導について知らない。
		tment Ob	jectives				
Outline	ng Metho	JJトムソン	ンの陰極線の発見が		応用されている超伝	導に至るまで、	
Style		ら解説する		 トを組み合わせて進る	めていく。		
		確認テス	トを50%、平素の	学習状況等を50% <i>σ</i>	D割合で総合的に評	 価する。	
Notice		評価の対象	<u> 家としない欠席条例</u>	牛(割合) 1/3以上の2	欠課		
Charact	teristics	of Class /	Division in Le	arning	T		
☑ Active	Learning		☑ Aided by IO	<u>Т</u>	☐ Applicable to	Remote Class	☑ Instructor Professionally Experienced
Course	Plan						
		-	Theme			SI-	
		11st   1				Goals	
					Ē	電子発見の歴史に	こついて理解する。
			電子の発見 電子が電界から受	ける力	<u> </u>	電子発見の歴史に電子が電界から	受ける力を定量的に考察できる。
		2nd				電子発見の歴史に電子が電界から	
		2nd 5	電子が電界から受	けるカ		電子発見の歴史に 電子が電界から 電子が磁界から 電子 で 電界と磁界が共れ	受ける力を定量的に考察できる。
	3rd Ouarter	2nd (1) 3rd (1) 4th (1)	電子が電界から受電子が磁界から受	けるカ		電子発見の歴史に 電子が電界から 電子が磁界から 知る。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 字するときに受ける力の状況と応用に
	3rd Quarter	2nd 1 3rd 1 4th 6	電子が電界から受電子が磁界から受 電子が磁界から受 磁界と電界が共存	けるカ		電子発見の歴史に電子が電界から登電子が磁界から登記る。電界と磁界が共存のいて知る。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 字するときに受ける力の状況と応用に
		2nd 1 3rd 1 4th 3 5th 6	電子が電界から受電子が磁界から受 電子が磁界から受 磁界と電界が共存 確認テスト 電子の加速器	けるカ	で で タ で ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	電子発見の歴史に電子が電界から登電子が磁界から登記る。 電界と磁界が共存しいて知る。 50点以上を取る。 電界や磁界から登記る。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を すするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知
2nd Semeste		2nd 1 3rd 1 4th 6 5th 6 7th	電子が電界から受電子が磁界から受 電子が磁界から受 磁界と電界が共存 確認テスト 電子の加速器	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「	電子発見の歴史に電子が電界から受電子が磁界から受証者。 電子が磁界から受証者。 電界と磁界が共存しいて知る。 50点以上を取る。 電界や磁界から受証る。 シンクロトロンが シンクロトロンが 真空管の構造を発	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 学するときに受ける力の状況と応用に した。 受ける力の応用として加速器について
		2nd 1 3rd 1 4th 5th 6th 7th 8th	電子が電界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放出	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	では、	電子発見の歴史に電子が電界から発電子が磁界から発明る。電界と磁界が共存しいて知る。 電界と磁界が供存しいて知る。 150点以上を取る。電界や磁界から発明る。 シンクロトロンがり、電子の熱電気の構造を終する。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 学するときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 P放出について知る。
		2nd	電子が電界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放出	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	で で が ・ ザー 電子の放	電子発見の歴史に電子が電界から発電子が磁界から発明る。電界と磁界が共存しいて知る。 電界と磁界が供存しいて知る。 150点以上を取る。電界や磁界から発明る。 シンクロトロンがり、電子の熱電気の構造を終する。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を すするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 放出について知る。 回り、空間電荷制限電流の物理を理解 の構造と仕組について理解する。
		2nd	電子が電界から受電子が磁界から受 磁界と電界が共存 確認テスト電子の加速器 シンクロトロン放出 真空管と空間電荷 速度変調管	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	電子発見の歴史に 電子が電界から 電子が磁界から 電子と磁界が共れ ついて知る。 50点以上を取る。 電界や磁界から 可る。 シンでの熱電・ ででいる。 でではいる。 でではいる。 では、 では、 では、 では、 では、 では、 では、 では、 では、 では、	受ける力を定量的に考察できる。 受ける力について理解し、その応用を すするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 放出について知る。 回り、空間電荷制限電流の物理を理解 の構造と仕組について理解する。
	Quarter	2nd	電子が電界から受電子が磁界から受 磁界と電界が共存 確認テスト電子の加速器 シンクロトロン放 単 空管と空間電荷 速度変調管 確認テスト	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	電子発見の歴史に 電子が電界から 電子が磁界から 電子と磁界が共れ ついて知る。 50点以上を取る。 電界や磁界から 可る。 シン電子の熱電・ 真空管の構造を知 フライストロンの フライストロンの である。 フライストロンの である。 フライストロンの である。 フライストロンの である。 フライストロンの である。 フライストロンの である。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を でするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 の対比について知る。 のり、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 の には、 の に
	Quarter	2nd	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放出真空管と空間電荷速度変調管確認テスト電子顕微鏡	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	で を で が で で が で で が で で が で で が に で の が に の に に の に に の に に の に の に の に に の に に に に に に に に に に に に に	電子発見の歴史に 電子が電界から 電子が磁界から 電子と磁界が無 でいて知る。 50点以上を取る。 での点以上を取る。 での点の構造を での点以上を取る。 でライストロンが でライストロンの ででの点以上を取る。 でライストロンの でである。 でライストロンの でである。 できないである。	受ける力を定量的に考察できる。 受ける力について理解し、その応用を でするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 の対比について知る。 のり、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 の には、 の に
	Quarter	2nd	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放血真空管と空間電荷速度変調管確認テスト電子顕微鏡元素分析の手法超伝導	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 一 電子の放 ず - 電子の放 - - - - - - - - - - - - - - - - - - -	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいな、 でのには、 でいには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 対するときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 所放出について知る。 即り、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 続と透過型電子顕微鏡の原理と特徴に オトルミネッセンスなどの元素分析の その性質及び応用について理解する。 一つ物理、その発展について知る。
	Quarter	2nd	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放射車空管と空間電荷速度変調管を認テスト電子顕微鏡元素分析の手法超伝導	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 一 電子の放 ず 一 電子の放 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「	電子発見の歴史に電子が電界から野電子が磁界から野電子が磁界から野電子と磁界が共れていて知る。 の点以上を取る。電界と磁界から野田る。 の点以上を取る。 をの点以上を取る。 での点以上を取る。 での点以上を取る。 では、大口ンの がでは、大口ンの のには、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口ンの をしいて、大口、大口、大口、大口、大口、大口、大口、大口、大口、大口、大口、大口、大口、	受ける力を定量的に考察できる。 受ける力について理解し、その応用を でするときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 の大変間電荷制限電流の物理を理解 の構造と仕組について理解する。 に できる過型電子顕微鏡の原理と特徴に オトルミネッセンスなどの元素分析の その性質及び応用について理解する。 に でもないで知る。
Semeste r	4th Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放真空管と空間電荷速度変調管確認テスト電子顕微鏡元素分析の手法超伝導に破壊を表する。	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 一 電子の放 ず 一 電子の放 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「 「	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいな、 でのには、 でいには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには	受ける力を定量的に考察できる。 受ける力について理解し、その応用を 対するときに受ける力の状況と応用に 受ける力の応用として加速器について 対射光と自由電子レーザーについて知 所放出について知る。 即り、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 続と透過型電子顕微鏡の原理と特徴に オトルミネッセンスなどの元素分析の その性質及び応用について理解する。 一つ物理、その発展について知る。
Semeste r	4th Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放射車空管と空間電荷を速度変調管を認テスト電子顕微鏡元素分析の手法超伝導を認テストでは関係である。	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世 で で が で で が で で が で で が で で が で で が に で で で で で で で で で で で で で	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいな、 でのには、 でいには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには	ではる力を定量的に考察できる。 ではる力について理解し、その応用をでするときに受ける力の状況と応用にでける力のが、と応用にでける力の応用として加速器について知る。 のは、空間電荷制限電流の物理を理解の構造と仕組について理解する。 のは、空間電が制限である。 のでは、これについて理解する。 のでは、これについて知る。
Semeste r  Evaluat	4th Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放射車空管と空間電荷速度変調管確認テスト電子顕微鏡元素分析の手法超伝導確認テスト	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	ずー 電子の放 デー 電子の放 デー 電子の放 を	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいな、 でのには、 でいには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには	ではる力を定量的に考察できる。 ではる力について理解し、その応用を でするときに受ける力の状況と応用に ではる力の応用として加速器について 対射光と自由電子レーザーについて知 の力が、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 では、カートルミネッセンスなどの元素分析の この性質及び応用について理解する。 この性質及び応用について理解する。 この性質及び応用について理解する。
Evaluat Subtotal	4th Quarter ion Meth	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放真空管と空間電荷速度変調管確認テスト電子顕微鏡元素分析の手法超伝導確認テスト	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	世一電子の放 デー 電子の放 デー 電子の放 デー 電子の放 デー ま ま ま る	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいな、 でのには、 でいには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには、 でのには	ではる力を定量的に考察できる。 ではる力について理解し、その応用をでするときに受ける力の状況と応用にでける力のが況と応用にでける力の応用として加速器について知れないでである。 のはいるの性質とは組について理解する。 の性質及び応用について理解する。 の性質及び応用について理解する。 のでである。 のであるである。 のであるである。 のであるである。 のであるである。 のであるできる。 のであるであるできる。 のであるでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
Semeste r  Evaluat	Quarter 4th Quarter ion Meth	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	電子が電界から受電子が磁界から受電子が磁界から受磁界と電界が共存確認テスト電子の加速器シンクロトロン放射車空管と空間電荷速度変調管確認テスト電子顕微鏡元素分析の手法超伝導確認テスト	ける力 する時に受ける力 する時に受ける力 射光と自由電子レー	ずー 電子の放 デー 電子の放 デー 電子の放 を	電子発見の歴史に電子発見の歴史に電子が電界から発電子が磁界から発記る。 の点以上を取る。 の点以上を取る。 の点以上を取る。 での点以上を取る。 での点以上を取る。 での点以上を取る。 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 での点のでは、 でのには、 でいるには、 で	ではる力を定量的に考察できる。 ではる力について理解し、その応用を でするときに受ける力の状況と応用に ではる力の応用として加速器について 対射光と自由電子レーザーについて知 の大放出について知る。 のは、空間電荷制限電流の物理を理解 の構造と仕組について理解する。 では、 では、 では、 では、 では、 では、 では、 では、 では、 では、

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分野横断的能力	ln	ln	ln
ノノエバスはバルンはピノノ	10	10	10

Akasl	hi Col	lege	\	Year	2024			ourse Title	Image Engineering	
Course Info	rmati	on								
Course Code		6531				Course Categor	γ	Specialize	d / Elective	
Class Format		Lecture				Credits	Academic Credit: 2			
Department		Electrical Electrical	and Cor Enginee	mputer E ering Cou	ngineering rse	Student Grade		5th		
Term		Second S	Semester	-		Classes per We	Week 2			
Textbook and,										
Teaching Mate Instructor	erials	HIRANO	Masatsu	gu						
Course Obje	ective	S								
(1) Understand (2) Understand (3) Understand	d the s d the n d the o	cope and e ature of in utline and	nage info characte	ormation eristics of	cations of image and understand f various types of processing and in	why image encod image encoding.	ding ted		s needed.	
Rubric										
			Ideal I	Level		Standard Level			Unacceptable Level	
Achievement 1	1		examp	olés of ap	in the scope and oplications of g technologies.	Can explain the examples of apimage encoding	plication	ns of	Cannot explain the scope and examples of applications of image encoding technologies.	
Achievement 2	2		inform explaii	nation and n why im	e nature of image d can accurately lage encoding re needed .	Understand the information and why image encotechnologies are	d can e oding	xplain	Cannot explain the nature of image information and why image encoding technologies are needed.	
Achievement 3	3		outline	e and cha s types o	explain the aracteristics of of image	Can explain the characteristics of image encod	of vario		Cannot explain the outline and characteristics of various types of image encoding.	
Achievement 4	4		praction	cal use of	explain the f basic image I image encoding	Can explain the basic image proimage encoding	oċessin	g and	Cannot explain the practical use of basic image processing and image encoding technologies.	
Assigned De	eparti	ment Ob	jective	S						
Teaching M	ethod									
Outline		When ha image co	mpression of then	on) are a giving led	must. In this lec ctures on various	ture, we will be e image encoding	explaini techno	ing the nat logies. In	data volume (image encoding or ture of the image information addition, we will ensure the computing software, etc.	
Style		Slides wi	ll be mai to four a orm spec	nly used assignme	to explain the co	ntent in class. Als se of half a seme	so, sind	ce this is a ssignment	learning-credit subject, there will se will be about creating programs can used for the assignments in	
Notice		guarante assignme course of involve p	ed in cla ent repor f half a se programn	sses and ts. As th emester. ning, it's	the standard self is is a learning-cr	-study time requed it subject, ther must be submitted experiences in p	iired fo e will bed to e progran	r pre-stud be three to arn the cre nming (in	include the learning time y / review, and completing of four assignments over the edits. Since the assignments any language).	
Characterist	tics of									
☐ Active Lear		Class /		led by IC		☑ Applicable to	o Remo	ote Class	☑ Instructor Professionally Experienced	
						1			1	
Course Plan	1									
		-	Theme			I	Goals			
	:			ıre of ima	age information		Digitize have s what i	tronger im mage corr	nformation is generally said to nage correlation. Can explain elation is and what happens elation is stronger.	
	:	2nd :	Image m	nanipulati	ion by Octave (1)		Unders		to use Python to accomplish the	
	[	3rd :	Image m	nanipulati	ion by Octave (2)			se Python t	to do the processing given as an	
2nd Semeste 3rd Oua		4th	Entropy	encoding	(1)		Can ex which encodi	is often us	concept of entropy encoding, led together with various types of	
1		5th I	Entropy	encoding	(2)		Can br encodi encodi	ings as typ	in Huffman and arithmetic ical techniques for entropy	
		5th I	Predictiv	e encodir	ng (1)		Can ex the sin	rplain the purplest of in	orinciple of predictive encoding, mage encoding.	
	[	7th	Predictive	e encodir	ng (2)		encodi	cplain the control of	characteristics of predictive an explain how to compensate for s.	
	[8	3th	Midterm	exam						

		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 encod	ing (2)		Can explain JF method based	Can explain JPEG, which is an image coding method based on DCT.				
	4th	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	on (2)		Can explain th and challenges	e performance s of vector quai	, design techniques ntization.			
		14th	Other image enco	oding		Can explain outline of other image encoding methods such as block truncation encoding, progressive encoding, etc.					
		15th	Video encoding			Can explain value briefly.	Can explain various video encoding methods briefly.				
		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	Basic Proficiency		0	0	0	0	0	0			
Specialize Proficienc	ed y	<b>'</b> 0	0	0	0	30	0	100			
Cross Are Proficienc		)	0	0	0	0	0	0			

А	kashi Co	ollege		Year	2024		C		Qualifications in Electric and Electronic Engineering I	
Course	Informa	tion				_	•			
Course Co		6532				Course Catego	ry	1 '	ed / Elective	
Class For		その他 Electrica	Land	d Computor F	nginooring	Credits		School Cr	edit: 1	
Departme	ent	Electrica	l Eng	d Computer Ei gineering Cou	rse	Student Grade		5th		
Term		Year-rou	nd			Classes per We	eek	1		
Textbook Teaching		なし								
Instructor	ſ	OHMUKA	M I	Masato						
	<u>Objectiv</u>									
電気電子I 該当する資	ニ学に関わる §格に関して	5内容の外部 「は担当教員	団体 が単	による資格試験 位認定の審査に	€に合格することを こあたるので、単位	目標とする。 取得を希望するも	のは事	前に相談し <sup>-</sup>	ておくこと。	
Rubric						_				
				関想的な到達レ		標準的な到達レ			未到達レベルの目安	
評価項目1			事	電気主任技術者録 ■担任者AI・D□ ○て合格できる.	第3種または,工 0総合種に余裕をも	電気主任技術者類 事担任者AI・DI る.	第3種語 分総合種	または, エ に合格でき	電気主任技術者第3種または、工事担任者AI・DD総合種に合格できない。	
評価項目2			$\perp$							
評価項目3		Oh		<b></b>						
		tment Ob	jec	tives						
Outline	g Metho	電気電子	工学:	分野の学習の成 験のいずれかに	課として、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 定する	に準じて単作 期日までに戻	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	わなり	しい。						
単位認定に Notice する。この				合格証書または 間内に証明書類	は合格証明書等の証 類を提出できない場 で割合) 条件なし	明書類が必要で、合には単位が認定	申請期されな	間は冬休みりい。期限を施	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 /	Diν	vision in Le	arning					
☑ Active	Learning			☐ Aided by ICT ☑ Appl			o Rem	ote Class	☐ Instructor Professionally Experienced	
Course	Dlan									
Course	riaii		The	me			Goals			
		1st	自主	:学習 :学習	目主的な学習(講義)	+/=+o+>; ·)	 めることができる.			
			<u>貝恰</u> 同上 同上		は土町仏子白(研我に	\$1J1J/&V1)	自主的	めることができる.		
		3rd	同上 同上	-			自主的	めることができる.		
	1st		同上 同上				自主的	に学習を進	めることができる.	
	Quarter		同上 同上				自主的に学習を進めることができる.			
			同上 同上				自主的	自主的に学習を進めることができる.		
		7 U I	同上 同上				自主的	自主的に学習を進めることができる.		
1st Semeste			同上				自主的	に学習を進	めることができる.	
r			同上				自主的	に学習を進	めることができる.	
			同上				自主的	に学習を進	めることができる.	
		11th	同上 同上				自主的	に学習を進	めることができる.	
	2nd	12th	同上 同上				自主的	に学習を進	めることができる.	
	Quarter		同上 同上				自主的	に学習を進	めることができる.	
			同上 同上				自主的	に学習を進	めることができる.	
		1301	同上	-			自主的	に学習を進	めることができる.	
		16th	同上 同上	<u>.                                    </u>			自主的	)に学習を進	めることができる.	
2nd Semeste r	3rd Quarter	1st	同上 同上					自主的に学習を進めることができる.		

Part												
日本的に学習を進めることができる。			2nd	同上 同上			自主的に学習を進む	めることができる.				
Hu   同上   日主的に子音を進めることができる。			3rd	同上 同上			自主的に学習を進む	めることができる.				
Still   同上   自主的に学習を進めることができる。			4th	同上 同上			自主的に学習を進む	めることができる.				
Part			5th	同上 同上			自主的に学習を進む	めることができる.				
Nth   同上   日主的に学習を進めることができる。   日本的に学習を進めることができる。   日本的に学習を述る。   日本的に学習を述る。   日本のに学習を述る   日本のに述る   日本のに述る							自主的に学習を進む	<b>かることができる</b> .				
Pth   同上   自主的に学習を進めることができる。							自主的に学習を進む	<b>かることができる</b> .				
10th   同上   自主的に学習を進めることができる。			8th				自主的に学習を進む	<b>かることができる</b> .				
Ath Quarter			9th				自主的に学習を進む	<b>かることができる</b> .				
Ath Quarter					Ŀ			自主的に学習を進めることができる.				
4th Quarter			11th	- - - - - - - - - - - - - - - - - - -			自主的に学習を進めることができる.					
13th   同上   自主的に学習を進めることができる。							自主的に学習を進む	かることができる.				
14th   同上   自主的に学習を進めることができる。		Quarter	13th	同上 同上			自主的に学習を進む	めることができる.				
Istn   同正   目主的に子音を進めることができる。   Istn   Int						自主的に学習を進む	<b>かることができる</b> .					
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							自主的に学習を進む	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       専門的能力     0     0     0     0     100     100			16th									
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	Evaluati	ion Meth	nod and V	Veight (%)								
基礎的能力     0     0     0     0     0     0       専門的能力     0     0     0     0     100     100		試馬	· 験	発表	相互評価	態度	ポートフォリオ	その他	Total			
専門的能力 0 0 0 0 100 100				0	0	0	0	100	100			
	基礎的能力	0		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			

А	.kashi Co	ollege		Year	2024			Titlo	Qualifications in Electric and Electronic Engineering II	
Course	Informa	tion			•	_				
Course Co		6533				Course Categor	У	1 .	ed / Elective	
Class Forr		その他 Electrica	l and	Computer E	nginooring	Credits		School Cr	edit: 1	
Departme	ent	Electrica	l Eng	ineering Cou	rse	Student Grade	5th			
Term Textbook	d /	Year-rou	ınd			Classes per We	eek 1			
Teaching		なし								
Instructor		OHMUKA	\I Ma	isato						
	Objectiv マニ思わる		田休	ニトス姿投計を	 倹に合格することを	ロ煙レオス				
該当する資	4年に関わる	は担当教員	が単位	立認定の審査に	あたるので、単位	取得を希望するもの	のは事	前に相談し	ておくこと。	
Rubric						T			T	
				想的な到達レクラン	ベルの目安 第1種または, 第	標準的な到達レイ			未到達レベルの目安	
評価項目1	評価項目1		2 る	種試験に余裕:	をもって合格でき	電気主任技術者第 2種試験に合格で			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										
	d Denar	tment Ob	iect	ives						
	g Metho		اعدر	•						
Outline	<u> </u>	電気電子	工学分格試験	分野の学習の成 険のいずれかに	課として、外部団 合格した場合、学	体主催の資格試験の 生課教務担当が指揮	の結果( 定する)	に準じて単位 期日までに	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	わない	, \ <sub>o</sub>						
Notice		単位認定する。こ	には台の期間	合格証書または 関内に証明書類 よない欠度条件	は合格証明書等の証 質を提出できない場 片(割合) 条件なし	明書類が必要で、『合には単位が認定』	申請期に	間は冬休み	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	•		ision in Le	· · · · · ·					
☑ Active				Aided by IC	<u> </u>	☑ Applicable to	Rem	ote Class	☐ Instructor Professionally	
				, , , , , , , , , , , , , , , , , , , ,					Experienced	
Course	Plan									
			Then				Goals			
		ISt			自主的な学習(講義に	31T17/361)			めることができる.	
			同上				自主的に学習を進めることができる.			
			同上 同上				自主的に学習を進めることができる.			
	1st	4(1)	同上			自主的に学習を進			めることができる.	
	Quarter		同上				自主的に学習を進めることができる.			
		6th	同上				自主的	に学習を進	めることができる.	
		7tn	同上 同上				自主的	に学習を進	めることができる.	
1st Semeste		8th	同上				自主的	に学習を進	めることができる.	
r		9th	同上 同上				自主的	に学習を進	めることができる.	
		10th	同上 同上				自主的	に学習を進	めることができる.	
		11th	同上 同上				自主的	に学習を進	めることができる.	
	2nd	12th	同上 同上				自主的	に学習を進	めることができる.	
	Quarter	13th	同上 同上				自主的	に学習を進	めることができる.	
		14th	同上 同上				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.	
		16th	同上 同上				自主的	に学習を進	めることができる.	
2nd Semeste r	3rd Quarter	1st	同上				自主的に学習を進めることができる.			

	Quarter	13th	同上 同上 同上 同上 同上 同上 同上			自主的に学習を進めることができる.		
	4th	12th				自主的に学習を進めることができる. 自主的に学習を進めることができる.		
		10th 11th	同上 同上 同上			自主的に学習を進む		
		9th	同上 同上			自主的に学習を進めることができる.		
		8th	同上			自主的に学習を進めることができる.		
		7th	同上 同上			自主的に学習を進む	かることができる.	
		6th	同上 同上			自主的に学習を進む	かることができる.	
		5th	同上同上			自主的に学習を進む	かることができる.	
l		4th	同上同上			自主的に学習を進む	かることができる.	
		3rd	同上同上			自主的に学習を進む	かることができる.	
		2nd	同上同上			自主的に学習を進む	かることができる.	