		ii College		Engin	eering	d Computer Electrical Year 2023 Course		
D€	par	tment Goals						
Cor e Cat ory	teg	Course Title	Cours e Code	Credit Type	Credit s	Class Hours per Week           1st Year         2nd Year         3rd Year         4th Year         5th Year           1st         2nd         1st         2nd         1st         2nd           1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         1 g         2 g         4 g         2 g         4 g         2 g         4 g         2 g         4 g         2 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4 g         4	Instru ctor	Divisio n in Learni ng
Ge ne ral	Co m pu iso ry	Japanese IV	5401	Acade mic Credit	2		ZENT OH Masas hi	
Ge ne ral	Со	Physical Education IV-1	5402	School Credit	1		GOTO H Takay uki,KO BAYAS HI Yuki	
Ge ne ral	Co m pu lso ry	Physical Education IV-2	5403	School Credit	1		GOTO H Takay uki,MA EDA Tadan ori	
Ge ne ral	Co m pu lso ry	English IV A	5404	School Credit	1		AKIMO TO Hiromi	
Ge ne ral	Co m pu iso ry	English IV B	5405	School Credit	1		MORI MOTO Nana	
Ge ne ral	Co m pu lso ry	Advanced English I	5406	School Credit	1		HERBE RT John C.	
Ge ne ral	Co	Advanced English II	5407	School Credit	1		HERBE RT John C.	
Ge ne ral	El ec tiv e	Chinese-1	5408	School Credit	1		ARIKA WA Kei	
Ge ne ral	El ec tiv e	Chinese-2	5409	School Credit	1		ARIKA WA Kei	
Ge ne ral	El ec tiv e	German-1	5410	School Credit	1		YOKO TA Kazuy a	
Ge ne ral	El ec tiv e	German-2	5411	School Credit	1		YOKO TA Kazuy a	
Ge ne ral	El ec tiv e	French-1	5412	School Credit	1		FUJIM OTO Tomo nari	
Ge ne ral	El ec tiv e	French-2	5413	School Credit	1		FUJIM OTO Tomo nari	
Ge ne ral	El ec tiv e	Mathematical Concepts	5414	School Credit	1		MATS UMIYA Atusi	
Ge ne ral	El ec tiv e	Overseas Training II	5415	School Credit	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 lso ry	Control Engineering I	5432	Acade mic Credit	2	ENOM OTO Ryuji

						HIROT A
Sp eci ali	Co m pu	Experiments of Electrical	5433	School Credit	2	Atsush i,TERA SAWA Shinic hi,HIR ANO
ze d	lso ry	Engineering I A		Credit		Masat sugu, NOMU RA Hayat
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 V	5501	Acade mic Credit	2	HIRAK AWA Yuki
Ge ne ral	El ec tiv e	Introduction to Japanese Language and Communication	5502	Acade mic Credit	2	TANG E Atsuko
Ge ne ral	El ec tiv e	Law	5503	Acade mic Credit	2	KURO KUI Yoshi mi
Ge ne ral	El ec tiv e	Philosophy	5504	Acade mic Credit	2	ARAK AWA Hirono ri
Ge ne ral	El ec tiv e	Biophysical Chemistry	5505	School Credit	1	OGAS AWAR A Hiromi chi
Ge ne ral	El ec tiv e	Scientific Technology and the Environment	5506	School Credit	1	IMAI Ryoich i
Ge ne ral	El ec tiv e	Sports Science I	5507	School Credit	1	GOTO H Takay uki,KO BAYAS HI Yuki

			1	1	1		
Ge ne ral	El ec tiv e	Sports Science II	5508	School Credit	1		GOTO H Takay uki,IS HIDA Masa mi
Ge ne ral	El ec tiv e	TOEICI	5509	School Credit	1		INOUE Hideto shi
Ge ne ral	El ec tiv e	TOEICI	5510	School Credit	2		INOUE Hideto shi
Ge ne ral	El ec tiv e	TOEICII	5511	School Credit	3	3 3	INOUE Hideto shi
Ge ne ral	El ec tiv e	Overseas Training III	5512	School Credit	1		All faculty of the depart ment
Sp eci ali ze d	Co m pu iso ry	Intellectual Property Rights	5513	School Credit	1		MORIS ADA Yuji
Sp eci ali ze d	Co m pu lso ry	Computer Simulation	5514	School Credit	1		OHMU KAI Masat o
Sp eci ali ze d	Co m pu lso ry	Graduation Thesis	5515	School Credit	9		All faculty of the depart ment
Sp eci ali ze d	Co m pu lso ry	Power Electronics	5516	School Credit	1		HIROT A Atsush i
Sp eci ali ze d	Co m pu	Energy Transmission and Distribution Engineering	5517	School Credit	1		KONO Yoshiy uki
Sp	Co m pu Iso ry	Engineering of Energy Conversion	5518	School Credit	1		HIROT A Atsush i
Sp eci ali ze d	Со	Experiments of Electrical Engineering II	5519	School Credit	2		ENOM OTO Ryuji
Sp eci ali ze d	El ec tiv e	Probability and Statistics	5520	Acade mic Credit	2		HAMA DA Yukihir o
Sp eci ali ze d	El ec tiv e	Information Theory	5521	School Credit	1		NAKAI Yuichi
Sp eci ali ze d	El ec tiv e	Fundamentals of Communication Systems	5522	Acade mic Credit	2		
Sp eci ali ze d	El ec tiv e	Communication System	5523	School Credit	1		
Sp eci ali ze d	El ec tiv e	Information Network	5524	School Credit	1		INOUE Kazun ari

Sp eci ali ze d	El ec tiv e	Control Engineering II	5525	School Credit	1	ENOM OTO Ryuji	
Sp eci ali ze d	El ec tiv e	Solid State Physics C	5526	School Credit	1	OHMU KAI Masat o	
Sp eci ali ze d	El ec tiv	Application of Electronics	5527	School Credit	1	ENOM OTO Ryuji	
Sp eci ali ze d	El ec tiv e	Image Engineering	5528	Acade mic Credit	2	NAKAI Yuichi	
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering I	5529	School Credit	1	OHMU KAI Masat o	
Sp eci ali ze d	El ec tiv e	Qualifications in Electric and Electronic Engineering II	5530	School Credit	1	OHMU KAI Masat o	

А	kashi Co	llege	Year	2023		Course Title	Japanese IV					
Course Information		tion										
Course Code Class Format		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・ 2)作成し	論文を、整 た報告・論	理した情報を	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、国語表現に 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									
		1st   授	リエンテーショ 業の概要 表予定の立案	ン	レジメの作成の仕方、プレゼン注意、それぞれの 基準が理解できる。							
		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		方・5W2H・タ	Dテーマを理解し、必要な技術(話し ケイミングなど)を中心としたレジメ ビンテーションすることができる。					
1st		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・話	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。					
		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 したレジメを作成 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」のテーマを理解し、必要な技術(質問意図・ 種類別の基準・自己紹介の仕方など)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			
	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」のテーマを理解し、必要な技術(志望理由・ 質問を通じたPR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。			
	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 50		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	0	0	

А	kashi Co	ollege	Year	2023			ourse Title	Physical Education IV-1
Course	Informa	tion						
Course Co	ode	5402			Course Categor	У	General /	Compulsory
Class For	mat	Skill			Credits School Credit: 1			redit: 1
Departme	ent	Electrica	l and Computer I I Engineering Co	nd Computer Engineering Student Grants			4th	
Term		First Sen		Classes per Wee	ek	2		
Textbook	and/or					<u> </u>		
Teaching								
Instructor			Takayuki,KOBAY	ASHI Yuki				
Particip     Can tal	ke action t	sses to imp	sports safely. Also	vn health and physo, recognizes the s	sical strength. Als significance of coll	so, hav labora	e some le	evel of self-discipline. cooperating with the team and can
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievem	nent 1		improve their	ath. Have a high	Participate in cla their health and strength. Have self-discipline.	l physi	ical ·	Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.
Achievem	nent 2		sport practices	cipate in various s and games, and petitive. Also have nce on games, etc.			ious sport	·
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 plai	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	skills they learn k while collabora	ed in previous yea ating and cooperat	rs. They are also ing with your tea	encou m with	iraged to 1 your lea	e rules, how to play games, and experience the fun of enhancing der in the center. Students should s 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, watchesed 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	unnece ets can eing ex vious c	essary iter participa ccused (di lasses wil	nts will be deducted from their ms. These are also eligible for te in the class after 20 minutes, tching class), their attendance for suffer a deduction equal to an n.
Charact	eristics		Division in Le					
☑ Active		<u>,</u>	☐ Aided by I		☑ Applicable to	Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan							
220.00	12		Theme			Goals		
		1st	Guidance Baseball, softbal	l, soccer, futsal, te yball, badminton, t isc	nnis,	Under	e. Split int	purposes and objectives of this o teams in each sport and select a
		2nd	Baseball, softbal	l, soccer, futsal, te	abla tannia - 1'	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.
4 - 4		3rd	basketball, volley training, flying d		able tennis,	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.
1st Semeste r	1st Quarter	4th	basketball, volley training, flying d		able tennis,	Can do	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 do	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 do	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 do	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	Can do warm-up and practice, play games, and reflect on the class, 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	Can do warm-up and practice, play games, and reflect on the class, 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 and practice, play gam reflect on the class, 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					
<b>Evaluation Method and Weig</b>			nd Weight (%)					
			Approach to a class	Practical skill	Leadership	Total		
Subtotal 75				15	10	100		
Basic Proficiency 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			redit: 1				
Departme	ent	Electrical Electrical	l and Computer I I Engineering Co	Student Grade		4th						
Term			Semester		Classes per We	ek	2					
Textbook												
Teaching Instructor		СОТОН	GOTOH Takayuki,MAEDA Tadanori									
	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 lle 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	vjectives									
Teachin	g Metho	d										
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 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	are encouraged skills they learn k while collabora	to improve their s ed in previous yea ating and cooperati	rs. They are also ing with your tea	encou am with	iraged to o	e rules, how to play games, and experience the fun of enhancing der in the center. Students should s 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		viii rioc be eligibit	C 101 C	valuation.					
☑ Active		<u> </u>	☐ Aided by I		☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced				
Course	Plan											
Course	. idii		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.				
24		3rd	basketball, volley training, flying d		able tennis,	Can do	ง 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 warm-up and practice, play games, and reflect on the class, led by a leader.						
		5th	basketball, volley training, flying d		able tennis,	Can do reflect	on the cla	o and practice, play games, and ass, led by a leader.				
		6th	basketbáll, volley training, flying d		able tennis,	Can do	warm-up 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 reflect	o warm-up 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,	, futsal, tennis, dminton, table tennis, Can do warm-up and practice, play games, and reflect on the class, led by a leader.			
4th Quarter	12th	Baseball, softball, soc basketball, volleyball, training, flying disc	ftball, soccer, futsal, tennis, rolleyball, badminton, table tennis, ng disc  Can do warm-up and practice, play games reflect on the class, led by a leader.				
	13th	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.		
	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) D	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 increasing the logical thrinking and international perspective increasing the logical thrinking and international perspective increasing of the logical thrinking and international perspective increasing of future engineers.  4 Can fully improve English groficiency through a movie-oriented textbook. 7 Can improve English scalable increasing and link it to oral speech in English oral international perspective increasing of the logical thrinking and international perspective increasing of the logical thrinking and international perspective increasing oral link oral international perspective increasing oral international perspective increasing oral international perspective increasing or	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. Can improve English vocabulary through learning English vocabulary through learning English vocabulary through learning English vocabulary. Cannot improve English vocabulary through learning English vocabulary through learning English vocabulary. Cannot improve 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 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. (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.  Active Learning   Activ								
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	Achievement 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  1st Quarter  Theme  Class guidance Explain how classes will be conducted, vocabulary videos  3rd  Unit 1: Learn listening and reading on the topics  Sth  Unit 2: Learn listening and reading on the topics  Sth  Unit 3: Learn listening and reading on the topics  Sth  Unit 4: Learn culture of English-speaking countries with videos  10th  Learn culture of English-speaking countries with videos  The culture of English-speaking countrie	Achievem	ent 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 4: Learn culture of English-speaking countries with videos  Touries and plan alead.  Unit 4: Learn culture of English-speaking countries with videos  Touries and plan alead.  Unit 4: Learn culture of English-speaking countries with videos  Touries and plan alead.  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  Touries and plan alead.  Unit 5: Learn listening and reading on the topics  The Unit 6: Learn listening and reading on the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following the topics of the textbook in prove vocabulary, grammar, and listening and reading skills following	Achievem	ent 3		knowledge an the logical this international s	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	who miss 1/4 o chedule will be p	r more of classes v provided in the first	vill not be eligibl : week. Be sure	e for evaluation to understand i	n 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 Goals  Ist Explain how classes will be conducted, vocabulary quizzes, assignments grading system, etc.  2nd Learn culture of English-speaking countries with videos  Timprove vocabulary, grammar, and listening and reading on the topics of the textbook for the	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	Course	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 vocab	ulary, 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 Improve vocabulary, grammar, and listening and reading skills through video  11th 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	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.
12th Unit 8: 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 on the topics of the textbook reading skills following the topics of the textbook					English-speaking c	ountries with	Improve vocab reading skills th	ulary, grammar, and listening and irough video
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	

Д	kashi Co	ollege	Year	'ear 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	Our Science (Seibido), Database 4500 (Kirihara), Next Stage (Kirihara)					
Instructo	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		vocabulary ski ability to read	h the practice of content and	Can develop the vocabulary skills ability to read a English through reading English writing in Englis	s, 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 he English proficien audio materials the textbook or	icy 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 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	•	,	,		,	
	ng Metho							
Outline		order to d the syntax	evelop English s cand 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	tor evaluation.		
		DI Class / L		<u> </u>		D : C	☐ Instructor Professionally	
☐ Active	Learning		☑ Aided by IC	.l 		Remote Class	Experienced	
Course	Dlan							
Course		Т	heme		10	Goals		
			rientation		(	Gain a proper u	nderstanding on the class content	
			Init 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		ı	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		ı	and can use them appropriately.  Understand the English sentences in each Unit		
			nit 6		l	Jnderstand the	em appropriately. English sentences in each Unit	
			xercises		l	and can use them appropriately.  Understand the English sentences in each Unit		
			nit 7		ı	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	and 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			Understand thand can use t	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	on					
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	persuasive preser Work together wi	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,	Develop visual, vocal, and verbal presentation delivery skills.  Work together with peers to improve your presentation content.				
		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 cla homework) Homework: Read "Unit 4: Listening Side of Speaking"	ass and/or as	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 (%)					
S		Short Assignments/Reflective Writing	ignments/Reflective Initial 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	Knockout Presentations - How to Deliver Your Message with Power, Punch, and Pizzazz (Third Edition [Available on paperback or e-book], Morgan James Publishing, © 2019 by Diane DiResta. This book required for both Advanced English I $\&$ II .				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 properties	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	in poor critiques and to write		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 effect presentation	ctively in a	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			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 present				actice presentation performances.		
Notice Students must not recycle their presentation content from or into any other presentations for 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 be 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 Category	General ,	/ Elective	
Class Forr	mat	Lecture			Credits	School C	redit: 1	
Departme	ent		nd Computer Ingineering Co		Student Grade	4th		
Term		First Seme	ster		Classes per Wee	Week 2		
Textbook Teaching		虞萍:「ペ	アで学ぼう!中	国語」朝日出版社.				
Instructor		ARIKAWA	Kei					
	<u>Objective</u>							
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	単な中国語でコミニ	と読解力を養うよ 1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			Г					
			理想的な到達し		標準的な到達レベ		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 この規則を応用でき 会話力と読解力を十 ら。	中国語の発音をマ 的な語彙と文法の るようにし、会記 っている。	)規則を応用でき	中国語の発音をマスターし、基礎 的な語彙と文法の規則を応用でき るようにし、会話力と読解力を養 えていない。	
評価項目2			事を実用的な中 簡単な中国語で	いなど、身の回りの 四語で表現でき、 で十分にコミュニケ にことができる。	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、  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			中国人の考えた	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 。	
Assiane	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。中国語も例が 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。			ごはありません。 「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		②授業に積  ③発声練習	極的に参加する 、会話練習にし 生じた疑問や、i	ポイント把握したうだ こと。 っかり取り組むこと。 授業中に理解できなり	•			
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	•	Division in L					
☐ Active		n Glaco / E	☐ Aided by I		☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
Course		Ti	neme		I	Goals		
			音1、2、3			<del>500.15</del> 声調、単母音、子		
	l t		<u>日1、2、5</u> 音4、5				と伴う母音を学ぶ。	
			<u>ロ・、。</u> 1課 あなたは	 日本人ですか?		人称代詞、名前の聞き方と答え方、動詞述語文を学ぶ		
	1st	4th 第	1課 文法のま	ナめ		<u>.</u> 練習Ⅰ、Ⅱを学ぶ	an M -	
	Quarter			<u></u> 何を学びますか?	,	「的」の使い方、副詞「也」、疑問詞「什么」を学ぶ		
		6th 第		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?	3	形容詞述語文、「」+動詞、副詞「都」を学ぶ。		
1st		8th 復	習と中間テスト		j	既習内容を復習す	<b>する。</b>	
Semeste r		9th 第	3課 文法のま	とめ	1	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	1	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		・ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※		
		14th 第	6課 図書館は	どこにありますか?			主述述語文、「几」と「多少」を学	
			期総まとめ			ぶ。 復習と質問応答を		
	l t		末試験			i×日C月IUI心口で	- C 10 1 2 0 0	
Evaluati	l	od and We						
_+41441	OII I ICCIII	定期試	_ `	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	llege	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 っかりとレベルだ 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 前期の内容を復習する。		
		2nd 5		紅茶を飲みますかそ	れとも緑茶を飲		ョッる。   」+動詞/「要」+動詞、比較の表現	
			<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を学ぶ。 期間〈時間量〉、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		第11課 めなた 第11課 文法の	-	. t	<u>点儿」、「打算</u> 練習Ⅰ、Ⅱを学	」+動詞を学ぶ。	
	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			<u> </u>		

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	1		,	ı		
Course Co		5410			Course Categor	y General	/ Elective		
Class Forr	mat	Lecture			Credits	School (	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 material conditions.	way of thinking a certain exten g German	understanding of the German		
Assigne	d Depar	tment Ob	jectives						
Teachin	g Metho	d							
Outline		German interactiv German	reading, writing, νe practice that ι that is practical a	listening, and speause 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 tha	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		<u> </u>	☐ Aided by I		☐ Applicable to Remote Class ☐ Instructor Professionally Experienced				
	<b>D</b> I								
Course	Pian		Thoma			Goals			
		1	Theme Introduction to (	German and Germa			e alphabet and pronunciation rules.		
				German and Germa	nv.		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.		
1-1		6th	Lektion 1			Grammar: Understand sein and haben.			
1st Semeste		7th	Lektion 2			Grammar: Und nouns.	erstand the gender and number of		
Γ		1	Lektion 2				rstand German beer and wine.		
		9th	Lektion 2			Grammar: Und and nouns.	erstand case inflections of articles		
		10th	Lektion 3		<u> </u>	Reading: Unde	rstand Berlin		
land [						Grammar: Understand irregular verbs and the			
		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 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	.kashi Co	ollege	Year	2023		Course Title	German-2	
Course 1	Informa	tion						
Course Co		5411			Course Category		/ Elective	
Class Forr	mat	Lecture			Credits	School C	redit: 1	
Departme	ent		I and Computer I I Engineering Co		Student Grade	4th		
Term			Semester		Classes per Wee			
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  The goal	nary. is to be a is to have	ble to expr	ess things around	d them in simple Ge	erman, using wha	at they learned	termediate German with the help in interactive practice.  In german reading materials on	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		sentence structure and can read German with dictionary.	the help of a	Clearly understa sentence structu and can read int German to some the help of a dic	re and rules, ermediate 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 thir them in simple ( what they learne	German, using	Cannot express things around them in simple German.	
Achievem	ent 3		of the Germar and lifestyle tl	heir understanding n way of thinking hrough reading ng materials on ons.	Can deepen thei of the German v and lifestyle to a through reading reading material conditions.	vay of thinking a 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 that is practical a ease knowledge on to classes, a lension through i	, listening, and spea use the grammar to and alive. In addition of Germany throug lot of interactive pro	aking abilities. Whopics in each sect on, students will i h reading materia	nen learning gr ion will be inco mprove their ( als on German	d to balance students' overall ammar, we will incorporate many inporated so students can learn German 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	d bring it to the c	lass every time	ould choose a dictionary from e. (2) Properly do the assignments	
Charact	eristics o	•	Division in Le		The De engine	TOT CVAIGACION		
☐ Active			☐ Aided by I		☑ Applicable to Remote Class ☐ Instructor Professionally Experienced			
Course I	Plan							
Course	i iuii		Theme			Goals		
		1st	Lektion 5		(	Grammar: Und	erstand personal pronouns.	
		2nd	Lektion 5				erstand prepositions.	
		3rd	Lektion 6				stand German bakeries.	
		4th	Lektion 6			Grammar: Und uture tense.	erstand modal verbs and the	
	3rd Quarter	5th	Lektion 6			Grammar: Und	erstand subordinating	
		6th	Lektion 7		F	Reading: Under	rstand the travel situation in	
2nd		7th	Lektion 7			Germany. Grammar: Understand separable verbs.		
Semeste r		8th	Lektion 7				erstand reflexive verbs.	
		9th	Lektion 8		F	Reading: Unde	rstand Munich.	
		10th	Lektion 8			Grammar: Und adjectives.	erstand case inflections of	
	4+1-	11th	Lektion 9				rstand Oktoberfest in Munich.	
	4th 11th		Lektion 9		(	Grammar: Understand the three basic forms		
					past tense of verbs.  Reading: Understand the football situation			
		13th	Lektion 10		F		rstand the football situation in	

	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	

А	kashi Co	ollege	Year	Year 2023			ourse Title	French-1	
Course 1	Informa	tion							
Course Co		5412			Course Categor			/ Elective	
Class Forr	nat	Lecture	10 : -		Credits		School 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	Can tak multicu coexiste learning			and multilingual ociety through	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		called gra spelling a become r well with introduce the four	ammar, have mand pronunciation master them to so a few vocabular s yourself and se skills: listening, s	any rules, and it se n, the rules on the some extent, your ries. While learning asonal greetings, t speaking, reading,	ems complicated gender of noun horizon will sudd the basic exprection to the class aims to and writing.	d at firs s, and t denly b ssions o help st	t glance, the verb roaden, a of everyo tudents a	French language structure, or so- such as the relationship between conjugation. However, if you and you can communicate fairly day conversation, such as how to achieve a balanced mastering of 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	o Remo	te Class	☐ Instructor Professionally Experienced	
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	s's talk about thing	s you like!	Talk about things	Talk about things they like.			
	16th	Final exam		Speak and write based on the conte 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		

	tense ding to ntences.			
Class Format   Lecture   Credits   School Credit: 1	tense ding to ntences.			
Electrical and Computer Engineering Electrical Engineering Course Term Second Semester Classes per Week 2 Textbook and/or Teaching Materials of Second Semester PUIMOTO Tomonari Course Objectives This course aims to apply and expand on the "French -1" course offered in the previous semester. The specific objectives and and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the present (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 4. to be able to toninual to make the maining of simple sentences and to form simple ser Rubric  ###################################	tense ding to ntences.			
Electrical Engineering Course Second Semester Textbook and/or Teaching Materials Instructor Textbook and/or Teaching Materials Instructor Textbook and/or 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 a understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verse in the present understand and pronounce simple French expressions; 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person. The present and the person of simple sentences and to form simple sentences and to fo	tense ding to ntences.			
Textbook and/or Teaching Materials	tense ding to ntences.			
Teaching Materials Instructor FUJIMOTO Tomonari Fujimoto Rouse aims to apply and expand on the "French -1" course offered in the previous semester. The specific objectives a understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the present (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according the proficiency and 4. to be able to think about the meaning of simple sentences and to form simple ser Rubric Prench language structure.  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 トション・ (Learn the basic French proficiency by learning the 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 all advanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester are based on the contents of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the grammar and vocabulary, students will do practice questions to acquire proficiency by focusing on review. We expect the active participation of studiation: Chiao Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication sk imagination of the learners, so active participation in classes is required. Also, students are encourage spend more time for revie	tense ding to ntences.			
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 present (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person in the present (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person in the present (i.e., to change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to the present (i.e., to change according to the present in th	tense ding to ntences.			
This course aims to apply and expand on the "French -1" course offered in the previous semester. The specific objectives a understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the present (i.e., to change them according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according to their person); 3. to understand how expressions (articles, adjectives, etc.) change according the present of the profice of the pro	tense ding to ntences.			
understand and pronounce simple French expressions; 2. to be able to conjugate regular and irregular verbs in the present (i.e., to change actor according to their persons); 3. to understand how expressions (articles, adjectives, etc.) change according to their persons); 3. to understand how expressions (articles, adjectives, etc.) change according to their persons); 3. to understand how expressions (articles, adjectives, etc.) change according the number and gender of nouns; and 4. to be able to think about the meaning of simple sentences and to form simple set Rubric    Rubric   Pattern	tense ding to ntences.			
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 上earn the basic French proficiency by learning the French language structure.  評価項目2	the			
上earn the basic French proficiency by learning the French language structure.  正在和 the basic French proficiency by learning the French language structure.  上earn the basic French proficiency by learning the French language structure.  上earn the basic French proficiency by learning french vocabulary.  Learn the basic French proficiency by learning French vocabulary.  Learn the basic French proficiency by learning French vocabulary.  Learn the basic French proficiency by learning French vocabulary.  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  Outline  While reviewing the contents of the first semester, students will learn grammatical items that are a ladvanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students able to gradually acquire proficiency by focusing on review. We expect the active participation of studies on: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication skit imagination of the learners, so active participation in classes is required. Also, students are encouraged than those of class / Division in Learning  Active Learning  Active Learning  Active Learning  Learn the basic French proficiency by learning the french language structure.  Learn the basic french proficiency by learning french vocabulary.  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 m	the			
French language structure.  Can take action for a multicultural and multilingual coexistence society through learning French.  Cannot take action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and multilingual coexistence society through learning French.  Cantoke action for a multicultural and	the			
評価項目2	uı C.			
multicultural and multilingual coexistence society through learning French.  Assigned Department Objectives  Teaching Method  Outline  While reviewing the contents of the first semester, students will learn grammatical items that are a ladvanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students will learn grammatical items that are a ladvanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students able to gradually acquire proficiency by focusing on review. We expect the active participation of students and provided in the grammar and vocabulary, students will do practice questions to acquire proficiation. Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication ski imagination of the learners, so active participation 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				
Teaching Method  Outline  While reviewing the contents of the first semester, students will learn grammatical items that are a ladvanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students able to gradually acquire proficiency by focusing on review. We expect the active participation of students will do practice questions to acquire proficiation: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication skit imagination of the learners, so active participation in classes is required. Also, students are encourage 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	lingual			
While reviewing the contents of the first semester, students will learn grammatical items that are a ladvanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students able to gradually acquire proficiency by focusing on review. We expect the active participation of students will do practice questions to acquire proficiation: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication skit imagination of the learners, so active participation in classes is required. Also, students are encourage 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				
Outline  advanced than those of the first semester. There is indeed a lot to memorize in elementary gramma since the contents of the second semester are based on the contents of the first semester, students able to gradually acquire proficiency by focusing on review. We expect the active participation of students will do practice questions to acquire proficiation: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication skit imagination of the learners, so active participation 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				
After explanation of the grammar and vocabulary, students will do practice questions to acquire proficiation: Chiho Kitagawa  In order to learn foreign languages, it's important to make the most of the innate communication ski imagination of the learners, so active participation in classes is required. Also, students are encourage 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	r, but should be			
Notice  In order to learn foreign languages, it's important to make the most of the innate communication ski imagination of the learners, so active participation 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				
Characteristics of Class / Division in Learning  Active Learning   Active Learning   Active Learning   Instructor Profession    lls and ed to				
□ Active Learning □ Aided by ICT □ Applicable to Pemete Class □ Instructor Profession				
Experienced	☑ Applicable to Remote Class ☐ Instructor Professionally Experienced			
Course Plan				
Course Plan Theme Goals				
Review of the topics covered in the first semester, and warm up for the second semester Can speak and write in French based on content learned in the first semester.	the			
Can talk about breakfast. Can use the ve	Can talk about breakfast. Can use the verb			
Can talk about destinations. Can talk about	prendre. Can explain French cuisine.  Can talk about destinations. Can talk about transport options. Can use sentences in the near future transport.			
3rd 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 expressions				
7th Lesson 11: Let's shop! Can use numbers up to 100. Can tell the amount of shopping.	Can use numbers up to 100. Can tell the total amount of shopping.			
2nd Semeste 8th Review Understanding the weak points on the college learned so far.	total			
r 9th Lesson 11: Let's ask the way! Can use command forms. Can give direct				
10th Lesson 12: Let's explain what you do on a day! Can create sentences using pronominal the present tense.	ontent			
11th Lesson 12: Let's explain what you do on a day! Can talk about what they do on a norma	ontent tions.			
Can talk about customs of the French pe	ontent tions. verbs in			
4th Quarter 13th Lesson 14: Let's talk about what you did during your trip! (1) use the verb pouvoir. Can use personal place when you did during avoir, and can use it.	tions. verbs in I day. ople. Can			
Lesson 15: Let's talk about what you did during your trip! (2)  Understand how to form the perfect tense using être, and can use	tions. verbs in I day. ople. Can			
Can talk about what they did yesterday I what they do on a normal day learned in 12.	ontent tions. verbs in I day. opple. Can pronouns. se 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	4th		
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、確実機 概念を理解し、復 念を理解し、確 見体的問題に適	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	<b>沢<u>〜</u>別不</b> 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得	体的問題に適用す 导している。	抽象的枠組を具体の	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 	±井けしいる。 	
	2nd 14	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、問題演習をあ	習をおこなう。また 問題や、連立微分方	基本的な型から	簡単な1階線形微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						
Evaluati	on Meth	od 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 /		Elective	
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			
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						
INOUICE		students a	Students are required to keep in close contact with their class teacher or supervisor. Du students are required to actively engage and communicate with the local people and actrainee, 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			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			
	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	0
Specialize	ed Proficie	าсу	0	0	0
Cross Are	a Proficier	ncy	50	50	100

Д	kashi Co	ollege	Year	2023			ırse tle	Japanese IV-1
Course	Informa	tion						
Course Co	ode	5416			Course Categor	y G	eneral /	Compulsory
Class Form	mat	Lecture			Credits	S	chool Cı	redit: 1
Departme	ent	Electrical E	and Computer E Engineering Cou		Student Grade		th	
Term		First Seme			Classes per Wee			
Textbook Teaching	and/or Materials	担当者がプ   ーズ演習』  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『アカ 生と留学生	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	ſ	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 らして、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	D言語活動に参加 吾や考えを見直す 手にもコメントや ができる。	クラスメートとの言語活動に参加 し、自分の日本語や考えを見直す ことができる。		かに参加 と見直す	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	りな文章	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		====================================	こ文章を記して 記が適切(	書く練習	を重ねる。また、さまざまなパラフ ようになるための練習を行う。
Notice				(割合) 1/4以上のグ		3,7 12 73 1	- 100, - 0	
Charact	eristics	of Class / [	Division in Le	arning				
☑ Active		,	☐ Aided by IC		☑ Applicable to	Remote	e Class	☐ Instructor Professionally Experienced
Course	Plan	I I				<u> </u>		
			neme ·リエンテーション			Goals 密業の日	<del> </del> 西士\ トフ!	 『内容を把握する。
								「 <u>れ合され」達する。</u> 「気をつけるべきことがわかる。
		2nd イ 単	ントロダクション 語の言い換え(書 	, 引き言葉) 		自分が授 きる。	業で扱い	·たいテーマについて考えることがで 
		3ru 単	文の構成 語の言い換え(利	1語と漢語)		かがわか	る。	構成したらわかりやすい論文になる
			論のまとめ方 語の言い換え(名	公詞化)		実際に論	文の構成	がわかり、与えられたテーマについて なを考え、書いてみることができる。
	1st Quarter		の種類 語の言い換え(シ	ジャンルによる使い:	1:	構成要素		)を述べる文それぞれの特徴と、どの Lる文であるかがわかる。そのうえで -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。
1.4		7th 序	論(問題提起とだ 味の言い換え(長	う向付け) い文/複数の文)			をどのよ	から問題点が見つけられる。また、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	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	2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	·論					て論文の本論が書ける。
	Qualter		************************************	fi)		論文の全	体のまと	があることができる。
		15th 結	び(展望提示)		:			る将来に向けての展望について言及
		16th ま	とめと振り返り			授業を诵	には自分	に発見したこと、考えが変わったこ の日本語の能力と技能がどうなった きる。
Evaluati	ion Moth	od and We	eight (%)		<b>-</b>			

	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	k 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.
Achievem	nent 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 expres	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	riting a paper(	2)		asy 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 hings that char apanese abilitie	things you found out in class, ged their minds, and how your 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	k学生ポータルサイ	イト、そ	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徒 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- 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	よび活動内容の計画 る。チーム活動に向 し議論をする。 に沿って、実施方法 定し活動計画書にま	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	よび活動内容の計画 決定に向け、テーマ る。決定した活動目 ケジュール等を決定 は活動を開始する。	に沿ってアイデ 標に沿って、方	自律、	協働、創造	<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)	2評価(成業 B告会)(協 	物、報告会)(創造)	Total
Evaluation			_			エー /	 ュ評価(成果	チーム評価(成果	
F I:	- N4 ''	16th	•	験 実施せず					
		15th	前期の 省 る 、 自 、 自 で 点 を 記 の に の 記 の に の に の に の に の に り の に り の に り の に り り り り	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	前期の担省の自己を目で、自己を目である。	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	チーム流動計画ルの遅	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 5。		自律、協働、	創造の能力を身に付い	ける
2	nd	12th	ルの遅	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	チーム流動計画ルの遅る	画書に従ってチームで 延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い	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	見直し・チーム活動 表会&意見交換会を踏 ケジュールの遅延やま た場合、活動計画の修	皆まえ、計画の見直し 長施方法の不備等が明 8正・変更を行う。	を行 らか	自律、協働、	創造の能力を身に付ん	ける
		7th	活動内容		ムの活動について ご聞き、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	チーム注	 舌動	ご活動を行う。計画発		自律、協働、	創造の能力を身に付い	ける
		5th	チームシアを出し	ノ議論をする。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い	ける
		4th	チームデアを出し法、役割	票の決定および活動内 舌動の目標決定に向け J議論をする。決定し 割分担、スケジュー川 る。完成後は活動を開	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	Schoo	l Cred	dit: 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.
3 Creative	e Skills		and summariz	ation, organize	The student ca gather informa and summarize information, ar ideas to others	tion, organize this nd explain tho	se	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 second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second the second 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	3rd Quarter	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 S Creative Skil		liance, Co-operation and

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				
		15th	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
		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	ation and
	4th Quarter	12th	Team activities: W plan. The action pl according to sched of the implementathe briefing session	an may be modil lule delay, the ind tion method, etc	fied/changed, completeness	To acquire Self-reliance, Co-operation and Creative Skills.		
		11th	plan. The action pl according to sched	the implementation method, etc. Prepare to		To acquire Self-reliance, Co-operation and Creative Skills.		
		10th	Team activities: W plan. The action pl according to sched of the implementathe briefing session	an may be modit lule delay, the in- tion method, etc n.	fied/changed, completeness . Prepare to	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 modit lule delay, the ind tion 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 modit lule 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.	ding to the theme up will draw ideas will 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 ll 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

Д	kashi Co	ollege	Year	2023		Course Title	Applied Physics I
Course	Informa	tion					
Course Co		5420			Course Categor	<i>'</i>	ed / Compulsory
Class For	mat	Lecture	and Camerutan F		Credits	School C	redit: 1
Departme	ent		and Computer E Engineering Cou		Student Grade	4th	
Term		First Sem	ester		Classes per Wee	ek 2	
Textbook Teaching							
Instructo		OGASAWA	ARA Hiromichi				
Course	Objectiv	es					
(2) Under	stand the	basics of hor	w to handle poir	object and the fun- nt masses in gener d body based on th	al based on the f	fundamental lav	vs of mechanics.
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	ent 1		the motion of fundamental la correctly and a	e description of an object and the aws of mechanics apply them to ons accurately.	Can explain the the motion of a fundamental law and apply them questions.	n object and the	Cannot explain the description of the motion of an object and the fundamental laws of mechanics or apply them to specific questions.
Achievem	ent 2		handle point n	rectly and apply	Can explain the handle point ma the fundamenta mechanics and specific question	asses based on al laws of apply them to	Cannot explain the basics of how to handle point masses based on the fundamental laws of mechanics or apply them to specific questions.
Achievem	ent 3		handle rigid be fundamental la correctly and a	e basics of how to ody based on the aws of mechanics apply them to ons accurately.	Can explain the handle rigid boo fundamental lav and apply them questions.	ly based on the ws of mechanics	on the fundamental laws of
Assigne	d Depar	tment Obj	ectives		•		
Teachin	g Metho	d					
Outline		Following	Science IIIA (se	econd semester), t	his course will le	cture on mecha	nics.
Style				lecture style, and			•
Notice		problem) being able the variou The scheo	by memorizing to apply them is laws and try t Jule of the midte	it individually, stud	dents should und ns). Also, studen cepts in physics s changed.	erstand the law its should be awaystematically.	icular situation, how to solve the sthat govern them (including vare of the relationships between evaluation.
Charact	eristics	of Class /	Division in Le	earning			
☐ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced
Course	Plan						
		Т	heme			Goals	
		1st M	1otion and force	, and mechanical e		Learn now to na and spaces.	andle motion of objects in planes
		2nd M	otion and force	, and mechanical e	energy	Learn about the	laws of motion.
	<u>.</u>			, and mechanical e			rk and kinetic energy.
	1st Quarter			, and mechanical e			chanical energy.
				, and mechanical e		Learn about ine	
				<u>um and angular me</u> um and angular me			laws of momentum. laws of angular momentum.
		<b>—</b>	lidterm exam	arri aria arigalar iri	omencum	Learn about the	laws of angular momentum.
1st				um and angular me	omentum	Learn about the	laws of angular momentum in articles.
Semeste r				um and angular mo	omentum	Learn about the	articles. translational and rotational
			ligid body dynar			motion. Learn how to h	andle rigid bodies with a fixed axis
	İ		ligid body dynar Ligid body dynar				moment of inertia.
			<u> </u>				andle rigid bodies without fixed
	2nd	13th	igid body dynar	nics			
	2nd Quarter		tigid body dynar			axes.	
		14th R		nics		axes. Learn the basic momentum, an bodies.	s of momentum, angular d energy in the mechanics of rigid what complicated problems about

Evaluation Method a	nd Weight (%)			
	Examinations	Exercises / Quizzes	Attendance / Behavior	Total
Subtotal	40	30	30	100
Basic Proficiency	0	0	0	0
Specialized Proficiency	40	30	30	100
Cross Area Proficiency	0	0	0	0

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	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 d can analistely under cuits. stely under	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		Understand th properties accordinallyze and do using arithmet	esian ćircuits	Understand the properties, can a design circuits us amplifiers.	nalyze and	Do not understand the principles and properties of circuits using arithmetic amplifiers.
			Accurately und principles and oscillator, modemodulator canalyze and decircuits.	properties of dulator, and 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 and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T	are required to lastruct the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of 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  Soals Inderstand the 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 and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and T and 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 and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristics and the haracteristic	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 / [  T	are required to lastruct the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of 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.  e basic structure, operation and
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 and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties are latic properties and the latic properties are latic properties and the latic properties are latic properties and the latic properties are latic properties and the latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are latic properties are 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 core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core should core 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 and the haracteristics and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic propertie and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties and the latic properties a	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 to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students	are required to instruct the circumbon miss 1/3 or Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let Division in Let 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 to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students to Students	are required to lastruct the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of the circulation of 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-	-feedback ampli	fier circuit	Understand negative-feedback amplifier circuits using transistors.		
		13th	FET bias circuit			Understand how an amplifier circu	to design a simple bias circuit for lit 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	asic Proficiency 0			0	·	0		
Specialize	ecialized Proficiency 60 4						100	
Cross Area	a Proficien	су	0		0		0	

А	Akashi College Ye		Year	2023		Course Title	Preliminaries to Graduation Thesis	
Course	Informa	tion						
Course Co	ode	5422			Course Category	Speciali	zed / Compulsory	
Class Form	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				
(1) Can c	Objectivontinuousl	v explore thir	ngs.	project undertaker	<u> </u>			
(3) Can c	onsider th	e research th	eme in various	approaches, and c	reate flexible and	innovative id	eas.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	Can continuously explore and obtain results that m with the theme.				Can continuously things.	explore	Cannot continuously explore things.	
Achievem	ent 2		Can properly s results obtaine addressed.	ummarize the d on the theme	Can summarize to obtained on the taddressed.		Cannot summarize the results obtained on the theme addressed.	
Achievem	ent 3		Can consider theme in vario and create flex innovative idea can choose the approach.	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 Obje	ectives		•		•	
	g Metho		200.702					
Outline	ig Metric	The aim of Students v	f this course is t vill gain the bas	to develop the bas ic knowledge nece	ic abilities necessa essary to address a	ary for gradua a research the	tion research in the fifth year. eme and examine how to approach	
Style		to one of t	hem. In accord	ance with the insti	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	oristics		-		n research will not	t be eligible fo	or a passing grade.	
Charact	eristics (	or Class / L	Division in Le	arning			□ Instructor Professionally	
☑ Active	Learning		☑ Aided by IC	T	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Dlan							
Course	Pian							
			neme aboratory assigr	nments	A	boratory, sťu	the research details of each dents can apply for the laboratory	
		2nd Ti	nemed research		С	they wish to join.  Conduct lecture-based learning, document		
	3rd		ame as above		th	research, experiments, simulations, etc. the supervisor.  Same as above		
	Quarter		ame as above			ame as above		
			ame as above			ame as above		
			ame as above			ame as above		
			ame as above			ame as above		
2nd			ame as above			ame as above		
Semeste		+						
[			ame as above			ame as above		
10th Same as above Same as above								
11th Same as above						ame as above		
	1		ame as above			ame as above		
	4th Quarter	1.4th Pr	ame as above reparing a resur resentation	ne for themed res	earch C	esearch and p	e the results of the themed repare a resume for the	
		I I	nemed research	presentation	can give an oral presentation on the results of the themed research.			
		16th N	o final exam			.cmca resear	···	
Evaluati	ion Moth	nod and We						
∟vaiual	וטוו ויופנו	iou aliu We	Initiative		Drocontation		Total	
Cubtatal					Presentation			
Subtotal			50		50		100	

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

А	kashi Co	ollege	Year	2023		Course Title	Applied Mathematics A		
Course	Informa	tion							
Course Co	ode	5423			Course Category	/ Specializ	ed / Compulsory		
Class Forr	mat	Lecture			Credits	School Credit: 2			
Departme	ent	Electrical E	nd Computer Er ngineering Cour	ngineering rse	Student Grade				
Term	17	First Semes	ster		Classes per Wee	ek 4			
Textbook Teaching	Matérials	OCASAWAI	RA Hiromichi						
Instructor		1	RA HITOTHICH						
(1) Can m mathema	tical formı	luctive inferen ılae.		·	•		sentences containing		
	erform ba	sic calculation	s in Fourier ana	lysis and apply th	em to engineerin	g and physics	on a basic level.		
Rubric					1				
			Ideal Level		Standard Level		Unacceptable Level		
Achievement 1 Can accurately make a deductive inference based on basic matters. Can make based on						uctive inference natters.	e Cannot make a deductive inference based on basic matters.		
Achievem	Can fully perform basic calculations in Fourier analysis and fully apply them to and fully apply them to engineering and apply them to engineering and apply them to engineering and apply them to engineering and apply them to engineering and apply them to engineering and apply them to						Cannot perform basic calculations in Fourier analysis and apply them to engineering and physics on a basic level.		
Assigne	d Depar	tment Obje	ctives						
Teachin	g Metho	d							
Outline		the calculus	s and linear alg	n the basics of Fo ebra learned so fa basic applications	ar. This is also ap	cluding topics of plied to engine	on the Laplace transform) based on ering and physics, so this class will		
Style				lecture style, and		e exercises and	l quizzes.		
Notice		and the pro do not try t and basic t The schedu	oof of theorems to remember the heorem and ideale of the midter	given in each lec e steps to solve a	ture, so that you problem, but rai sary, review the c changed	can understan ther try to solve content learned	the development of discussions d it yourself. In problem exercises, e it yourself based on definitions l during the previous years.		
Charact	eristics (	of Class / D	ivision in Lea	arning					
□ Active	Learning		☐ Aided by IC	Т	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
		Th	eme		(	Goals			
				ementary lesson	on calculus r	Can handle the basic matters of calculus that's necessary for future learning.			
		2nd Or	ganize data			Can organize d			
		3rd La	place transform	l	) 1	Can calculate a natters of the	nd discuss based on the basic Laplace transform.		
		4th La	place transform	l	t	Can perform ca to the inverse L	lculations and discussions related aplace transform.		
	1st Quarter	5th Ap	plication to vib	ration phenomena	1	<u>/ibration pheno</u>			
			plication to vibi urier series	ration phenomena	, (	Can apply the L Can calculate a natters of the	aplace transform to AC circuits. nd discuss based on the basic Fourier series.		
		7th Fo	urier series				nd discuss based on the basic Fourier sine / cosine series.		
1st Semeste r			dterm exam urier series				nd discuss based on the basic complex Fourier series.		
			urier series urier transform		(		formulae related to Fourier series. Irier series expansion for non- ns.		
		10th Fo	urier transform		(	Can calculate a	nd discuss based on the basic Fourier transform.		
	2nd		urier transform ave equation		(		formulae related to Fourier		
	Quarter	12th Wa	ave equation		(	Can handle way of motion and t	ve phenomena based on the laws he methods of Fourier analysis.		
		13th He	at equation		9	Can handle sta series. Can derive the	nding waves based on Fourier heat equation.		
		14th He	at equation		t	Can handle hea the methods of	t conduction phenomena based on Fourier analysis.		

	15th	Supplementary lessor	on the Laplace transform		Can calculate and discuss matters related to delta function and convolution.		
	16th	Final exam					
Evaluation Metho	od and \	Weight (%)					
	Exa	minations	Exercises / Quizzes	Attendance / Behavior	Total		
Subtotal	40		30	30	100		
Basic Proficiency	40		30	30	100		
Specialized Proficience	y 0		0	0	0		
Cross Area Proficiency 0			0	0	0		

А	kashi College Year 2023					Course Title	Applied Mathematics B		
Course	Informa	tion							
Course Co		5424			Course Categor	y Specializ	zed / Compulsory		
Class For	mat	Lecture			Credits	School Credit: 2			
Departme	ent	Electrical a	nd Computer E ngineering Cou	ngineering rse	Student Grade				
Term		Second Ser	nester		Classes per We	ek 4			
Textbook Teaching									
Instructor		OGASAWAF	RA Hiromichi						
Course	Objectiv	es es							
lmáthema	tical form	ulae.		sic matters, incluulus and apply the	-		sentences containing		
Rubric				,		. ,			
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	ent 1		Can accurately deductive infer basic matters.		Can make a dec		Cannot make a deductive inference based on basic matters.		
Achievem	ent 2		Can fully performance calculations in and fully apply engineering an basic level.	vector calculus them to	Can perform ba in vector calculu them to engine physics on a ba	us and apply ering and			
Assigne	d Depar	tment Obje	ctives						
Teachin	g Metho	od							
Outline		variable) ba	ased on the cal	n the basics of veculus and linear a also cover them, i	Igebra learned so	o far. This is als	n complex functions of one so applied to engineering and		
Style						be exercises and quizzes.			
Notice		and the pro do not try t and basic t The schedu	oof of theorems to remember theorem and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and idealed and id	given in each lec le steps to solve a	ture, so that you a problem, but ra sary, review the changed.	can understan ther try to solv content learned	the development of discussions d it yourself. In problem exercises, e it yourself based on definitions d during the previous years.		
Charact	eristics	of Class / D	ivision in Le	arning					
□ Active	Learning		☐ Aided by IC	Т	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Plan								
		Th	eme			Goals			
			view and suppl culations	ementary lesson	on vector	Can handle the calculations that	basic matters of vector st's necessary for future learning.		
		2nd Cu	rves			Can handle curves using parameters.			
		3rd Cu	rves			Can handle curves using the arc length parameter.			
		4th Lir	ne integrals			Can calculate and discuss based on the basic matters of line integrals.			
	3rd Quarter	5th Lir	ne integrals adient			to Green's theo Can calculate a	alculations and discussions related orem.  In the basic of the basic or the basic orem.  In the basic orem.		
		6th Gr	adient			Can perform ca to exact differe	alculations and discussions related ntial equations.		
2nd Semeste			nservative forc rfaces and surf	es and potential e ace integrals	rieigy	energy based o	nservative forces and potential on the methods of vector calculus. faces using parameters.		
r			rfaces and surf dterm exam	ace integrals	Can perform ca to tangent plar	alculations and discussions related les.			
		9th Su	rfaces and surf	ace integrals		Can calculate and discuss based on the basic matters of surface integrals.			
		10th De	rivative of vect	or fields and integ		Can calculate a matters of volu	nd discuss based on the basic ime integrals.		
	4th Quarter	11th De	rivative of vect	or fields and integ	gral theorem		nd discuss based on the basic divergence of a vector field and m.		
		12th Ov	erivative of vect erview of the t riable	or fields and integ heory of functions	gral theorem s of a complex	Can calculate and discuss based on the basic matters of the rotation of a vector field and Stokes's theorem. Can calculate and discuss based on the basic matters of the functions of a complex variable.			

		13th	Overview of the theor variable	y of functions of a complex	Can calculate and discumatters of complex inte	
	14th Overview of the theory variable			y of functions of a complex	Can calculate and discumatters of singular poin	
	15th Application to electrom			nagnetism	Can handle the basic massed on the methods of	atters of electromagnetism of vector calculus.
		16th	Final exam			
Evaluati	ion Meth	od and	l Weight (%)			
		E	xaminations	iminations Exercises / Quizzes		Total
Subtotal	Subtotal 40		0	30	30	100
Basic Prof	Basic Proficiency 40		0	30	30	100
Specialize	Specialized Proficiency 0		0	0	0	
Cross Are	a Proficien	cy 0		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				
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		detail the laws	d can explain in of magnetism.  detail the various	Understand and laws of magnet Can explain the	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	properties deriv	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			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	npère's contour integral law			about the arn how t this law.	Ampère's contour integral law o calculate magnetic flux density	
			otation of vector neorem	tion of vectors (introduction of rot), Stokes' rem			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			applied magne to wire basics	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 The torque of the current loop, the Hall effect		Hall effect	Formu additio	late the to	orque of the current loop. In about Hall effect.			
			idterm exam				60 marks		
	9th		lagnetic flux den nagnetic fields	sity and magnetiz				oncept of magnetization and learn magnetic fields.	
	2nd Quarter		oundary condition	on, magnetic mate	erial	Learn about the boundary conditions of magnetic flux density and magnetic fields. In addition, learn about the concept while comparing the relationship between magnetic fields and magnetic flux density and magnetization to dielectric materials.			
		11th C	lassification of m	nagnetic material		Learn		properties of the five types of	
			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 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, rocylindrical and po	ot, grad and lapla blar coordinates.	ician in	
		16th	Final exam			Score 60 or more	e marks.		
Evaluati	on Me	ethod 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	Akashi College Year 2023		Year	2023		_	ourse Title	Electromagnetics II B	
Course	Informa	tion	•	1					
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		lu	
			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 positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the 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	energy. Understand the definition of self inductance and learn how to calculate it.		
		3rd Ir	nternal inductan	ce and energy		Calculate the internal inductance. Understar energy of the magnetic field.			
		4th M	utual inductanc	e, Neumann form	ula	Learn about the concept of mutual inductance, and know the definition 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 Integral and derivative forms of the Maxwe equations, displacement currents, and char conservation			e Maxwell and charge	curren	t and can	xwell's concept of displacement derive the derivative form from n of the four equations.		
	10		he potential exp	ression of the Max Is and the Hertz v	xwell equation,	Can co	nsider thons and u	e potential of time-dependent se this potential to draw Maxwell's	
	4th	11th Mel	axwell electrom ectromagnetic v	agnetic equation a	and	Can use Maxwell's equations to derive the wave equation which is applicable to electromagnetic wave.			
	Quarter	12th Ti	he nature of the	electromagnetic	wave	Can de from N	erive the i	nature of electromagnetic waves equations.	
		13th Po	oynting 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	Electromagnetic waves in a medium			Learn about the fact that the propagation of electromagnetic waves in a medium with a finite resistance is quantized.				
	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	0	100			
Cross Area Proficiency	0	0	0	0	0	0	0			

Д	kashi C	ollege	Yea	r	2023			Course Title	Solid State Physics A
Course	Informa	tion							
Course Co	ode	5427				Course Categor	У	Specializ	ed / Compulsory
Class For	mat	Lecture				Credits		Academi	c Credit: 2
Departme	ent		l and Compui l Engineering			Student Grade		4th	
Term		First Sen	nester			Classes per Wee	ek	2	
Textbook Teaching									
Instructo		OHMUKA	AI Masato						
	Objectiv								
2) Unders 3) Can ex 4) Unders 5) Can de	stand the option of the stand the options the stand the options.	chemistry o Hall effect q characterist	f atoms and luantitatively.	learı : and	n about band theo d voltage of pn jun	ry of solids.		ithin an at	om quantitatively.
Rubric			T-111			C+ dd 1l			U
			Ideal Leve		 nderstand the	Standard Level			Unacceptable Level  Do not understand the
Achievem	ent 1		Schröding use it to fu	ér e ully i stat	quation and can understand the e within an atom	Understand the equation and us understand the within an atom	se it t elect	o ronic state	Schrödinger equation and cannot use it to understand the electronic state within an atom quantitatively.
Achievem	ent 2		chemistry	of a	nderstand the Itoms and know in Id 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	ent 3		effect qua	ntita		Can explain the quantitatively.	Hall	effect	Cannot explain the Hall effect quantitatively.
			Thoroughl characteri voltage of quantitativ	stics pn	nderstand the of current and junction	Understand the of current and viguration quantit	oltag	e of pn	Do not understand the characteristics of current and voltage of pn junction quantitatively.
					e capacity of the on in detail.	Can derive the depletion region		ity 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 t	the o	ronic devices is ve quantum theory th ctrons in metals a	at forms the basi	ic the	ories of ele	ts will learn about the electronic ectrons, and learn quantitatively perspective.
Style		The first	part of class	es w	vill be taught in a lez at the end.	ecture style to ex	cplain	the outlin	e. Then, each student will self-
Notice		Because is essent amount standard to get a	the class wil ial. Also, be s to 90 hours o self-study ti perfect score	l har sure of st me	ndle various pheno to review each tir	ne as new conter hours include th udy / review, and additional assid	nt will ne lear d com anme	I keep com rning time npleting as Int reports	ical foundation until the third year ning up. This course's content will guaranteed in classes and the signment reports. Student who fail arrade.
Charact	eristics	•	Division in					, ,	,
☑ Active	Learning	,	□ Aided I	by I	СТ	☑ Applicable to	Rem	note Class	☐ Instructor Professionally Experienced
Course	Plan	<del>                                     </del>							
			Theme				Goals Unde		wave–particle duality of light and
		1st	Quantum the	eory	, Schrödinger equa	ation	electr equat	ons and cation.	an derive the Schrödinger
		2nd	Bohr's theory	y an	d atomic orbit		radiu	derive the s and ener of atomic	Bohr's theory and calculate the gy of the orbit. Learn about the orbit.
	3rd		Covalent bor	nd ai	nd energy band	I.	orbita	al hybridiza	e origin of covalent bonds and ation, and the energy level did when many atoms are gathered.
1st Semeste	Somocto ISL		Electrical conduction, phase velocity and velocity			y and group	condu	uction, and	Drude's theory of electrical I know the definition of phase oup velocity.
Quarter 5th		5th	Dispersion re brillouin zone		on and effective m	ass and	Can c dispe electr	lerive the rsion relations. Unde	effective mass by deriving the ionship between light and irstand the concept of electron ut the brilluane zone.
	6th		Free electror	the	eory, density of sta	tes	mom		dinger equation to quantize e density of state of electrons will
		7th	Hall effect ar	nd el	ectron mobility		Can c can c mobil	letermine alculate th	the Hall effect quantitatively, and e conductivity and the electron ne results of the Hall effect

		8th	Midterm exam			Score 60 or mo	ore marks.			
		9th	Carrier statistics i	n semiconductor	·I	Can derive the quantitatively. effective densi	Understand th	in a semiconductor e concept of		
		10th	Carrier statistics i	n semiconductor	· II	about that the	Understand the nature of NP products. Learn about that there are three areas of temperature dependency for carrier density.			
		11th	Contact between	semiconductor a	ind metal	Understand qualitatively that when a semiconductor and metal come into contact, two conditions are achieved.				
	2nd Quarter	12th	Einstein relation	n		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 characteristics of the PN junction			Can derive the quantitatively.	Can derive the I-V characteristics of PN junction			
		14th	Capacity of the depletion region.			Can derive quadepletion region the method of in experiments	determining th	capacity of the tion, and learn about ne diffusion potential		
		15th	Review			Review and or Learn about dr	ganize the conf ift transistor if	tent learned so far. 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			0	0	0	0	0	100		
Basic Proficience			0	0	0	0	0	0		
	Specialized Proficiency 100		0	0	0	0	0	100		
	Cross Area Proficiency		0	0	0	0	0	0		

А	kashi Co	ollege	Year	2023		Cou Tit		Solid State Physics B
Course	Informa	tion						
Course Co	ode	5428			Course Catego	ry Sp	ecialize	ed / Compulsory
Class For	mat	Lecture			Credits	Ac	ademi	Credit: 2
Departme	ent	Electrical En	id Computer Ei igineering Cou	ngineering rse	Student Grade	4tl	h	
Term	17	Second Sem	nester		Classes per We	ek 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	nd	Do not understand the Wiedemann–Franz law and Bloch's theorem.
Achievem	ent 2	7	Thoroughly understand dielectric polarization.  Understand die polarization.					Do not understand dielectric polarization.
Achievem	ent 3	\	Thoroughly understand the various aspects of magnetic materials.  Understand the of magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic magnetic			e various a aterials.	espects	Do not understand the various aspects of magnetic materials.
Assigne	d Depar	tment Obied	at Objectives					
	g Metho		. 05,000,000					
Outline	<u>.g : 100110</u>	The role of	of solids in electronic devices is very crucial. In claretic materials in addition to the nature of electro				vill intr	oduce the properties of dielectric
Style		The first par		II be taught in a le				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 ass	nt will keen ne learning nd complet nanment re	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 irade.
Charact	eristics o	of Class / Di				<u> </u>		
☑ Active			☐ Aided by IC		☑ Applicable t	o Remote	Class	☐ Instructor Professionally Experienced
Course	Dlan							
Course	Piaii	The	eme			Goals		
			edemann–Fran	z law		This law, between	electric	describes the relationship cal conduction and heat diffusion, from the basic principle.
		2nd Blo	ch theorem, po	olarization and die	electric factors	Learn abording of electronic	out the on the state nd the	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	e the (	Clausius–Mossotti equation, which of polarization and dielectric
	3rd Quarter	4th Elec	ctronic polariza	ation		Can discu quantitati		the electronic polarization
2nd		5th Ion	polarization			learn abo	ut LST	polarization quantitatively and equations and residual lines.
Semeste r		6th Orio	entation polari	zation and the Lar	ngevin function	quantitati	ively aı ngevar	orientation polarization nd understand the characteristics Ifunction which is used in rization.
		7th Cor	mplex permittiv	vity and dielectric	loss	and the fa	act tha	concept of complex permittivity, t imaginary components are in dielectric loss.
		8th Mid	Iterm test			Score 60		
	4th		ssification of m terial	nagnetization and	magnetic	magnetic	field a out the	tionship between magnetization, nd magnetic flux density, and characteristics of the five types of ials.
	Quarter	10th Fac	tors of magne	tism		orbital mo	otion a which a	angular momentum caused by nd the angular momentum caused are the factors of magnetism, and the Bohr magneton and the Landé

		E			Can classify five	types of magneti	c materials,	
	11th	Five types of mag anisotropy and st	netic materials, ructure of magne	magnetic etic domain	learn about magnetic anisotropy and structure of magnetic domain, and understand the causes of hysteresis properties in the magnetization curve.			
	12th	The temperature susceptibility	characteristics o	f magnetic	Can derive the C Curie Weiss in fe	urie law in paran erromagnetic.	nagnetic and	
	13th	Application of ma	Application of magnetic materials			characteristics of net materials.	iron-core and	
	14th	History of magne on magnetic mate	tic materials rese erials	earch and topics	Learn about the magnetic materi applications of d	history of the de als in Japan, and ifferent magnetic	velopment of learn about the materials.	
	15th	Review			Review the content so far.			
	16th	Final exam			Score 60 or mor	e marks.		
Evaluation M	lethod 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			0	0	0	100		
Cross Area Proficiency			0	0	0	0		

P	Akashi Co	ollege	Year	2023		Course Title	Applied Physics II	
Course	Informa	tion			_			
Course C	ode	5429			Course Category	y Specializ	zed / Compulsory	
Class For	mat	Lecture			Credits	School (	Credit: 1	
Departme	ent		and Computer I Engineering Co		Student Grade	4th		
Term		Second S			Classes per Wee	ek 2		
Textbook								
	Materials	NIALCANITO	17 LP 1 .					
Instructo		_	HI Hiroshi					
(1) Unde (2) Unde (3) Unde	rstand the rstand the	basics of ho basics of op basics of the	tics. ermodynamics.	ration phenomena	in mechanics.			
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		of vibration pl correctly and	ne basic concepts nenomena apply them to ons accurately.	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 the of optics correction to speciaccurately.	ne basic concepts ectly and apply fic questions	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	chievement 4		the experimer themselves ar	rate insight into nts conducted by nd summarize the oriately in a report	experiments conducted by themselves and summarize the		Cannot give insight into the experiments conducted by themselves or summarize the results in a report.	
Assigne	ed Depar	tment Obj	ectives					
Teachir	ng Metho	od						
Outline		Among th	e major fields i	n classical physics,	this course will le	ecture on vibra	tion in mechanics, optics, and	
Outilite				ilso involve mecha				
Style		Regular c	asses will be ta be two classes	ught in a lecture s to conduct experir	tyle, and there wi nents.	ill also be exer	cises and quizzes. In addition,	
Notice		problem) being able the variou Students attitude	by memorizing to apply them is laws, and try can earn extra etc. in the class	it individually, stu to specific situation to understand corpoints by submittin	dents should under ons). Also, studen ocepts in physics on og voluntary assig	erstand the lave ts should be avery systematically. In ments, and leave the systematically.	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					
	Learning	<u> </u>	☐ Aided by I		☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
							ZAPONONOGO	
Course	Plan	T T			т-			
			heme	-		Goals		
			everal topics at				imped vibration.	
			everal topics at			Learn about fo		
			everal topics at	oout vibration			upled vibration.	
	3rd		asics in optics				cs of geometrical optics.	
	Quarter 5t		asics in optics				cs of light as a wave.	
			asics in optics			Learn about int		
			lidtorm ovam			Learn about dif	ITACCION.	
2nd Semeste			lidterm exam	rimonto		Learn how to c	onduct and report experiments on	
r			·	certained experiments			nechanical measurement.  onduct and report experiments on	
			lechanical expe		t	the theme of m	nechanical measurement.	
	4th		asics in thermo	,			andle specific heat.	
	Quarter	<del>                                     </del>	asics in thermo	•			•	
		<del>                                     </del>	asics in thermo	•		Learn how to handle the Carnot cycle.  Learn about the second law of thermodynamics		
			asics in thermo	•			e irreversible change.	
			inal exam	~, names			c craisisia dilaliga	
	1	1 2011	ai Chairi					

<b>Evaluation Method a</b>	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	Understand the basic properties and the association with real- world lines such as communication lines and			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	, , , , , , , , , , , , , , , , , , ,						
			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.	R-L or R-C ause only one d energies	L or R- only or	-C circuit	t a transient phenomenon in an R- does not cause vibration because electrostatic or magnetic field
3rd  3rd  Transient phenomena in single-energy circuits (2) Following the previous week, explain how to solve basic questions using Laplace transforms that are handful for handling initial values.  Use the Laplace transform questions.			transform to solve basic					

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   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   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   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Substitute   Sub						energy circuits				
Subtotal   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Care   Peth   Pet		8th 8th 8th 8th 8th 8th 8th 8th 8th 8th					multiple-energy	circuits, and h		
10th		9th (2) Learn about transient phenomena multiple-energy LRC circuits wher				of discharge in	multiple-energy LRC circuits when a DC			
Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   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 distributed-element circuits.  Derive the basic equations of distributed-element circuits during steady-state and transient phenomena and explain basic concepts and			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	circuits (1) Introduce solutions using the Laplace transform			circuits (1) Understand the s	solution of infi	inite, 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   Foresentation   Presentation   Presentation   Presentation   O   O   O   O   O   O   O   O   O			13th	circuits (2) Following the previous week, learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. 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	hod and \	Weight (%)	I	T	Т	1		
Basic Proficiency         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         100         100         0         100         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         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	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	K	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										
			Ideal Lev	el			Standard Level			Unacceptable Level
Achievem	Achievement 1			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	Achievement 2			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.	gative-feedback ious amplifier		Inogative feedback circuits and
Achievem	ent 3		properties analyze a	s acc ind d	e principles and urately, can esign circuits iic amplifiers.		Understand the principles properties, can analyze an design circuits using arithr 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	vill be held i	in a le	ecture style, ma sssignments as	ainly	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 exam				, , , , , , , , , , , , , , , , , , , ,			
	4th Quarter	9th l	_C oscillator	circu	uit		U	nder uch a	stand the as Hartley	LC and crystal oscillator circuits, 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 belectronic circuits	pasics of power circuits used in and regulated power circuits.
	16t	h Fi	inal exam			
Evaluation	on Method	and We	eight (%)			
			Examination	Other		Total
Subtotal			70 30			100
Basic Profi	ciency		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	ent 1			transfer function	Can explain how transfer functio		Do not know how to derive a transfer function.	
Achievem	Can simplify a block diagram consisting of series, parallel, and feedback bonds.  Can simplify serial, parallel, and feedback bonds in a block diagram.				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.	
Achievem	ent 5		Can express t response of a by combining elements, in a	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	omatic control func	tion. In this lec	ture, students se. In addition	uding cars, air conditioners, and will learn the basics of classical , students will deepen their as appropriate.	
Style		lintroduc	ed.	-			response, and stability will be content of the class.	
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		
		1st	Introduction			method, etc. o	e objectives and the grading f the course. w feedback control works.	
2nd Semeste r	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 m represents the typical system.	nodel (differential equation) that dynamic characteristics for a	
4th			Transfer function	ns		Can derive a transfer function using the Laplace transform.		

		5th	Block diagrams			Can simplify se Can simplify a three bonds at	block diagram	and feedback bonds. consisting of the		
		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.		
		8th	Evaluation metric	of the time resp	onse	properties usin	Can explain the evaluation metric of transient properties using step response. Can explain steady-state deviation. Can calculate steady-state deviation.			
		9th	What is frequency	/ response		Can explain the	e frequency tra	frequency response. ansfer function and gain and phase.		
		10th	Vector locus	Vector locus			Can explain the characteristics of the vector locus of basic elements. Can draw a vector locus			
		11th	Bode plots	Bode plots				cs of Bode plots of a ler lag factor, and		
	4th  Quarter	- 12th	12th Combining Bode plots		Can combine E					
		13th	Stability of a cont	rol system		Can explain the Can determine the poles of the	the stability fi	rom the position of		
		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 5555				
Evaluati	ion Me	thod and	Weight (%)							
		xamination	tion Exercise Mutual Evaluations between students Behavior		Portfolio	Other	Total			
Subtotal	7	'0	30	0	0	0	0	100		
Basic Proficienc	y c	)	0	0	0	0	0	0		
Specialize Proficienc			0	0	0	100				
Cross Are Proficienc	a c	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	Department Objectives							
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	ut away the equipr	nent. Precautions ters. Students ha	regarding the live to participa	vive a passing grade. Students experiments will be given during te 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)		ogical circuits u Development E	,		
	1st Quarter	4th	FPGA3 (impleme	entation and operat	.ioii) F	Programmable			
1st Semeste r	Quarter	5th	FPGA4 (evaluation	on)	e F	evaluation of in FPGAs.	operation, debugging, and nplementation circuitry with		
-		6th	Report organizat	ion	€	experiment into	•		
	7th Computer measurement I.		F	processing usin nterface.	aveform measurement and g a computer and measurement				
	8th Computer Measurement II.		ā	an interface mi	stethoscope using a computer and crophone for measurement.				
	2nd Ouarter	9th		Report organization			Can examine and compile the results of the experiment into a report.		
	Quarter 10th Electric 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				and compile the	e results of the		
		13th	Oscillation circuits	5		Can investigat types of typica	e various chara al oscillation cir	acteristics for various cuits.		
		14th	Low frequency ar	nplifier characte	ristics	Can examine the characteristics	the circuit oper of the push-pu	ation and ull amplifier.		
		15th	Report organizati	Conort 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	0		
Specialize Proficiency	ecialized ficiency 80 0 20		20	0	0	100				
Cross Area Proficiency	ss Area		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			4th			
Term		Second 9	Semester	Classes per Wee		ek 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.		
Achievem	ent 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							
Outline		help stud Terazaw semester in a com Students measure	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	experiments give, spot by the instru	based on their	own necessary	preparation and pre-study, and		
Notice		If all rep must cle the first	orts have not bee an the lab and pu week of the first	en received by the ut away the equipn	due date, studer nent. Precaution ters. Students h	nts will not rece s regarding the ave to participa	eive a passing grade. Students experiments will be given during te in all experiments.		
Charact	eristics (	•	Division in Le	•	s paratispated in an experimental				
☑ Active		,				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 4th Quarter		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.		
2nd Semeste r		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	1	of the transforn			
		9th	Report organizat	ion		Can examine ar experiment into	nd compile the results of the		
	1+b	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 P meet the specif	PLC sequence control systems that ried specifications.		

		13th Report organization			Can examine a experiment into	Can examine and compile the results of the experiment into a report.				
		14th	Variable speed control of the inductive electric motor by means of a PWM inverter			Understand the speed control of	Understand the principles of PWM inverters and speed control of inductive electric motors.			
		15th	Summarizing and	organizing		Can summarize	and organize the	e experiment.		
		16th	No final exam							
Evaluati	on Me	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	d y	80	0	0	20	0	0	100		
Cross Area		0	0	0	0	0	0	0		

Akashi College Course Information		Year	2023			ourse Title	Off-Campus Practical Training A			
Course	Informat	tion	·	•		•		-		
Course Co		5435	Course Care				Specialize	ed / Elective		
Class Forr	nat	Practical	training		Credits		School C	redit: 1		
Departme	ent	Electrical Electrical	and Computer E Engineering Cou	d Computer Engineering gineering Course  Student Grade				4th		
Term		Year-rou	nd		Classes per We	eek	1			
Textbook Teaching										
Instructor			y of the departm	ent						
Course	Objectiv	es								
(2) Can u	xperience se slides to	some of the p report on	e actual technical the things they h	activities related t nave experientially	o engineering. learned.					
Rubric					T					
			Ideal Level		Standard Level			Unacceptable Level		
Achievem	ent 1		Can experience actual technical related to eng collaboratively	al activities ineering	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		1	•	by instructors at						
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 /				D	-t- Cl	☐ Instructor Professionally		
□ Active	Learning		☐ Aided by I	CT		o Remo	ote Class	Experienced		
_										
Course	Plan	I I.				l				
			Theme			Goals				
			•	end of first semes	ter)	Can understand the precautions of student training and the manners at the training site.  Can experience some of the technical activities at				
		2nd	Intern (during su	ımmer vacation)		the training site.				
	1st		Same as above			Same				
	Quarter		Same as above			Same				
			Same as above				as above			
			Same as above				as above			
1st			Same as above				as above			
Semeste			Same as above Same as above				as above as above			
r			Same as above				as above			
			Same as above				as above			
			Same as above				as above			
	2nd		Same as above				as above			
	Quarter	14th !	Same as above			Same	as above			
		15th	Internship report second semester middle of the sec	ting (done at the be r, grades will be an cond semester)	eginning of the nounced in the	Can re slides.	port the o	outcome of the internship using		
			No final exam							
		1st								
		2nd								
ا مرا		3rd								
2nd Semeste	3rd	4th								
r	Quarter	5th								
		6th								
		7th								
		8th								

		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 Proficiency		0	0	(	0	0		
Specialized Proficiency		30	30	4	40	100		
Cross Are	a Proficier	ncy	0	0	(	0	0	

А	kashi Co	llege	Year	2023		Course Title	Off-Campus Practical Training B		
Course	Course Information  Course Code 5436								
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		
Achievement 1			Can experience octual technica elated to engii 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	Can use slides to report on the things they have experientially learned and be understood by			Can use slides to things they have learned.					
Assigne	d Depart	ment Objec	tives						
	g Metho								
Outline	<u> </u>	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	_	learning.		
		Student nee Students wh such as repo of Class / Di	d to be respect to spend less to prting) will not vision in Le	etful of courtesies, han 9 days or les be eligible for a parning	s than 72 hours (spassing grade.	and other beh shortages with	naviors appropriate as an internee. in 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	an understand	the precautions of student e manners at the training site.		
		2nd Inte	ern (during sui	mmer vacation)	С		some of the technical activities at		
		3rd San	ne as above		Same as above				
	1st Quarter		ne as above			Same as above			
	Quarter		ne as above			Same as above			
		6th San	ne as above			ame as above			
1st		7th San	ne as above		S	ame as above			
Semeste  r			ne as above			ame as above			
			ne as above			ame as above			
			ne as above			ame as above			
	224		ne as above ne as above			ame as above ame as above			
	2nd Quarter		ne as above			ame as above			
			ne as above			ame as above			
			ne as above			ame as above			
16th No final exam									
		1st Inte	ern (during sui	mmer vacation)	C	an experience ne training site	some of the technical activities at e.		
2nd Same as above				ame as above					
2nd		3rd San	ne as above		S	ame as above			
Semeste	3rd Quarter		ne as above			ame as above			
r	200,00		ne as above			ame as above			
		<del>                                     </del>	ne as above			ame as above			
			ne as above			ame as above			
					5	ame 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 grades will be annour nd semester)	ning of the iced 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	Subtotal 30		30	4	10	100		
Basic Prof	Basic Proficiency 0		0	0	)	0		
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	Academic Credit: 2		
Departme	ent		and Computer E Engineering Cou		Student Grade	4th		
Term		First Seme	ester		Classes per Wee	ek 2		
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 of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure 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 C	ontrol architect	ure (1): Control m	ethods	Understand the controlling inst	e methods and pipelines for ruction execution.	
r		8th M	idterm exam		<u> </u>	Midterm exam		
		9th C	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 Co	ollege	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	ek 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	by ICT		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					e 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	Semeste		Propositions and	proof by contrad	iction	inverse, and co	e propositions and the converse, ontraposition. Can write proof using contraposition and adiction.	
			Midterm exam It is given during	g class.				
		9th F	Predicate			Can explain a true or false a	predicate (a function that takes only s a value).	
	2nd Ouarter		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	Backus form and context-free grammar			Can handle Backus form and context-free grammar.			
	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	d Computer Er gineering Cour	ngineering rse	Student Grade			
Term Textbook	and/or	Second Sem	nester		Classes per Wee	k 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	larger (smaller).			
Rubric			<u> </u>	- ,				
		1	deal Level		Standard Level		Unacceptable Level	
Achievem	ent 1	r	Can explain the relation, partial otal orders acc	orders, and	Can explain the relation, partial 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	inite automato	Cannot use Backus form, context-free grammar, finite automaton, and regular grammar.	
	d Depar g Metho	tment Objec	ctives		•		-	
Outline	у мешо	Discrete ma foundations	thematics is a of computer s aton and regul	cience. In this coι	tics that deals wit urse, you will lear	th finite or disc n about relatio	rete subjects, and one of the ns on a set, graphs and trees,	
Style			be held in a le					
Notice		Make sure y description.	ou understand Try to solve th	the exact definitine examples or ex	ercise problems y	ourself and sc	ive image from the formal ore it against the answer.	
Charact	orieties d			more of classes w	vill not be eligible	for evaluation		
☐ Active		•	vivision in Learning  ☑ Aided by ICT			Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
Course	lan	The	eme			Goals		
		i	ary relation 1 (	of 2		Can explain the basics of binary relation.		
		2nd Bin	ary relation 2 o	of 2	(	Can calculate composition and exponentiation of binary relation.		
		3rd Equ	iivalence relati	on 1/2	<u></u>	generalization o	equivalence relation, which is a find the concept of equal.	
		4th Equ	iivalence relati	on 2/2	S	subdivisions of	ivalence class, quotient set, and equivalence relation.	
	3rd Quarter	5th Ord	ler 1 of 2			order of the ine	partially ordered set and total quality (=) generalization.	
		6th Ord	ler 2 of 2		€   r	extremum, max	upper extremum, lower kimum, and minimum values of a d set, and can explain the above eary.	
2nd			term exam given during	class.				
Semeste		8th Illu	stration of bina	ary relation		Can illustrate th graph.	ne binary relation as a directed	
9th Hasse diagram, topological sort, and closure		d transitive	Can draw a Has	sse diagram of partially ordered plain the closure of topological sort				
10th		10th Gra	ph basics 1 of	2			basics of graphs.	
11th		11th Gra	ph basics 2 of	2	ā	Can explain n-poaths in a grap adjacency matr matrix.	partite graph and several kinds of h. Also, can represent a graph by ix, adjacency list and incidence	
	Quarter 12th		e connectivity o	of a graph	C	component, cut	diameter, radius, connected vertex, bridge, connectivity and ity. Also, can explain n-connected inected.	
		13th Tre	e		t	heorems abou	fundamental concepts and t trees. Also, can explain ordered tree, binary tree and n-ary tree.	

		14th	Finite automaton automaton	and nondetermin	istic finite	state transition	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 expr	ression	Can define right linear grammar and left linear grammar formally, and determine the language that they generate. Can represent a given language by regular expression.					
		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			0	0	0	0	100				
Cross Area Proficiency			0	0	0	0	0				

А	.kashi Co	ollege	Year	2023			ourse Title	English V	
Course	Informa	tion							
Course Co		5501			Course Categor	γ	General /	Compulsory	
Class Forr	mat	Lecture			Credits		Academic	Credit: 2	
Departme	ent		l and Computer E I Engineering Cou		Student Grade		5th		
Term		First Ser		1130	Classes per We	/eek 2			
Textbook		(1) 早川	幸治・番場直之「C	GIGA BOOSTER FOR			T」KINSEI	DO. (2) 瓜生豊・篠田重晃「Next	
Teaching			文法・語法問題」	桐原書店.					
Instructor	Objectiv	HIRAKA	WA YUKI						
1) Learn ( 2) Learn ( 3) Learn ( 4) Can re 5) Learn (	new vocab grammar i sentence s ad texts w	ulary in acon n accordan tructure in ritten in pla f English pi	ce with the curric accordance with ain English, get th	culum guidelines fo the curriculum gui ne gist of them, an	r high school lea delines for high d comprehend n	arned, school iecessa	and can us learned, a ary informa	ind can use them properly.	
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		accórdance wi	new vocabulary in th the curriculum high school, and properly.	accordance with the curriculur guidelines for high school, and can use them.			Have not learned new vocabulary in accordance with the curriculum guidelines for high school.	
Achievem	ent 2			ture in th the curriculum high school, and	school, and can use them.				
Achievem	ent 3		in accordance curriculum gui	ully learned sentence structure in accordance with the curriculum guidelines for high chool, and can use them roperly.  Learned sentence structure in accordance with the curriculum guidelines for high school learned, and can use them properly.				Have not learned sentence structure in accordance with the curriculum guidelines for high school.	
	Can read texts written in plain English, fully get the gist of them, and comprehend necessary information.  Can read texts written in plain English, get the gist of and comprehend necessing information.				of thėm,	Cannot read texts written in plain English and get the gist of them.			
			Fully learned t English pronur accents, and c properly.	nciation and	Learned the rul pronunciation a can use them p	and aco	cents, and	Have not learned the rules of English pronunciation and accents.	
Assigne	d Depar	tment Ob	ojectives						
Teachin	g Metho	d							
Outline		skills ned (2) The	cessary to be an o	engineer active in t	he times of inte	rnation	nalization.	der to acquire the basic English compiled for science and	
Style		Learn the exar	the new words in Inple sentences us		oulary book and	their p	pronunciati	ons, but also be able to write/say	
Notice		lcompose	e in Fnalish.	antage of the quizzes as a good opportunity					
Charact	eristics o		Division in Le						
□ Active	Learning		☐ Aided by I	CT	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan								
			Theme			Goals			
		1st	quizzes, grading	ses will be conduct system, etc.	ed, vocabulary				
		2nd	Lesson 1.					out numbers and calculations.	
	1ct	3rd	Lesson 2.					out shapes.	
1st	1st Quarter	4th	Lesson 3.					out shapes.	
Semeste  r		5th	Lesson 4.					out the states of matter.	
		6th	Lesson 5. Lesson 6.					out the states of matter.	
		7th 8th	Midterm exam			Lealii	LIIGIISII di	out graphs and functions.	
	2nd		Take the midtern		idtorns sus	Do loave and understand the guarties that the			
	2nd Quarter	9th	Return and expla	xplanation of the main the midterm ex	am.	Re-learn and understand the questions that they got wrong in particular.			

	10th	Lesson 7.		Learn English about gra	phs and functions.			
	11th	Lesson 8.		Learn English about the	Learn English about the human body.			
	12th	Lesson 9.		Learn English about the	human body.			
	13th	Lesson 10.		Learn English about the	human body.			
	14th	Lesson 11.		Learn English about elec	ctricity and electronics.			
	15th	Lesson 12.		Learn English about elec	Learn English about electricity and electronics.			
	16th	Final exam						
<b>Evaluation Meth</b>	nod and	l Weight (%)						
	Examination		Little test	Other	Total			
Subtotal	Subtotal 70		30	0	100			
Basic Proficiency	Basic Proficiency 70		30	0	100			
Specialized Proficie	Specialized Proficiency 0		0	0	0			
Cross Area Proficiency 0			0	0	0			

А	kashi Co	llege		Year	2023		Course Title	Introduction to Japanese Language and Communication			
Course	Informat	ion	-								
Course Co	ode	5502				Course Categor	y General	/ Elective			
Class Forr	mat	Lecture				Credits	Academi	c Credit: 2			
Departme	ent	Electrical Electrical	and Co Engine	omputer Er eering Cour	ngineering rse	Student Grade	5th				
Term		First Sem	ester			Classes per We	ek 2				
Textbook Teaching		河野哲也	「レポー	-ト・論文の	書き方入門 第4版』(慶應義塾大学出版会)、適宜プリントを配布する。						
Instructor	-	TANGE A	suko								
	<u>Objective</u>										
(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、日 理した情報を	を、相 I刷物、 達にし	目手や目的に インターネ <sub>ン</sub> て、主張が	応じた体裁や語句を ットから適切な情報 効果的に伝わるよう	を用いて作成できる。 Bを収集できる。 うに論理の構成や原	る。 展開を工夫し、作	成することができる。			
Rubric											
			理想	的な到達レイ	ベルの目安	標準的な到達レイ		未到達レベルの目安			
評価項目1			おいらりで・松瀬の手紙・メール イデットを効果的に作成できる。      PR文書・レジメ・論文の材料選択 が適切である。      提案書・報告書・論文の構成・展 提案書・     提案書・     おことが				、項目・構成・レ に示すことができ ある。				
評価項目2					・論文の材料選択	PR文書・レジメ すことができる。		PR文書・レジメ・論文の材料に不 足がある。			
評価項目3			提案開が	書・報告書。 適切・効果的	・論文の構成・展 勺である。	提案書・報告書 · 開が見られる。	・論文に構成・展	提案書・報告書・論文の構成・展 開に難がある。			
Assigne	d Depart	ment Ob	ectiv	es							
Teachin	g Metho	d <sub>.</sub>									
Outline		エントリー 意点等を概	-シート 説する Eしい表	へ・履歴書・ る。各自、材 長現力を獲得	レポート・論文なる料を事前に準備し、することを目的とす	ど、目的の異なる 制限時間内で適t する。	様々な文章(文書) 表現について、それぞれの特徴や注 切に書く練習を行い、明らかになった問題点を克服し				
Style		履歴書・PR文書・提案書・報告書・論文の基本的な作成方法 る解答を授業内・授業外に作成・提出させ、評価する。				的な作成方法・例	示の講義と、その	)習熟・理解度を確認する設問に対す			
Notice		、90時間(	こ相当?	する学習内容	習時間と、予習・復 学である。 (割合) 1/3以上の		- 卜作成に必要と	なる標準的な自己学習時間の総計が			
Charact	eristics o	of Class /	Divisi	ion in Lea	arning						
□ Active	Characteristics of Class /  Active Learning		□ A	Aided by ICT			Remote Class	☐ Instructor Professionally Experienced			
Course	Plan										
			heme				Goals				
		1st	L 授業	ンテーション 業の概要 - マ・意図・	⁄ 構成・推敲につい <sup>-</sup>		文書作成に際して 用いて、適切にし	こ、箇条書き・符号・見出し・数値を シイアウトできる。			
		2nd	L デ- · 効果的	・エントリー -タ部の書き 内表現(記号 -マ・事例の	f方・自己PR部の書 号・構成など)	き方・材料収集	各人の進路希望に沿った履歴書・エントリーシートを 効果的に作成できる。				
		3rd	L志宝	由書・研究計 望理由書にて 究計画書にて	いて			に応じた志望理由と研究(キャリア ジ式で効果的に作成できる。			
	1st Quarter	4th		メール 紙の書き方に -ルの書き方			状況に応じた手紙	氏・メールを作成することができる。			
1st	Quarter	5th	\論文: L テ- 2 材料	1 -マ:社会問 4収集・構成	問題・時事問題 え			適切な材料を用いて、論理的・効果 なすることができる。			
Semeste r		6th	小論文 2 1 テーマ:環境・科学技術 2 材料収集・構成				適切な材料を用いて、論理的・効果 なすることができる。				
	報告書・レポート 1 7th 1 別記書き 2 図表・レイアウト			別記書きの形式で 優れた報告書・し	『図表を効果的に用い、レイアウトに シジメを作成することができる。						
		8th	企画				企画書・提案書の 果的にプレゼンラ	Dレジメ・スライドを作成できる。効 =ーションできる。			
		9th	L 内容	別問題点の整 容面の問題点 現面の問題点	į		テーマ設定・材料 作成ができる。	料選択・表現技術に優れた各種文書の			
	2nd Quarter			ミックスキル ・基礎的技術			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			
		11th	ー 研究テー L テー 2 自c	−マと問題設 −マ・問題の 3分析	 )设定 )设定		テーマを適切に設定し、有効な材料を用いて、文書を 構成・展開できる。				

1	2th	論文 1 1 計画書 2 構成			説得力のある計画書を作り を作成できる。	成できる。論文全体の構成表	
1:	3th	論文 2 1 表記上の注意 2 文献表		注記・引用・文献表を適切に書くことができる。			
14	4th	論文3 1 調査・研究・意義 2 中間報告・審査会・	質疑応答	研究方法を明瞭に示し、 ができる。中間発表・卒 表を作成できる。	研究成果の見通しを示すこと 業研究発表までの明確な計画		
1	5th	課題と整理 1 問題点の課題と整理 2 まとめ	1		  自身の研究計画を見直し、適切に改善できる。 		
10	6th	期末試験					
Evaluation Method	d and	Veight (%)					
	試馬	<del></del>	課題	そ	: の他	Total	
Subtotal	60		40	0		100	
基礎的能力	60	<u>-</u>	40	0	·	100	
専門的能力	専門的能力 0			0		0	
分野横断的能力	0 0			0	0		

А	kashi Co	ollege	Year	2023		Course Title	Law			
Course	Informa	tion	·	•						
Course Co	ode	5503			Course Category					
Class For	mat	Lecture			Credits	Academic	Credit: 2			
Departme	ent		ll and Computer E Il Engineering Cou		Student Grade	e 5th				
Term		First Ser			Classes per Wee	ek 2				
Textbook		Do not u	ıse.							
Teaching Instructor		KUROKI	JI Yoshimi							
	Objectiv									
has playe The cour	d in addre se also air	ssing the c ns to provi	hallenges and pro de students with	oblems that change	e with the times. understand that l		pected to play and what role it ated to our daily lives, to develop			
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
Achievem	Thoroughly understand basic knowledge of law (the Constitution, the Penal Code, and the Civil Code, and International Law).  Thoroughly understand basic have basic knowledge (the Constitution, the Code, and the Civil Code, and the Civil Code, and the Civil Code, and the Civil Code, and the Civil Code, and the Civil Code, and the Civil Code, and International Law).					n, the Penal ivil Code, and	Do not have sufficient basic knowledge of law (the Constitution, the Penal Code, and the Civil Code, and International Law).			
Achievem	ent 2	addressing challénges and problems.					Do not have sufficient understandings what role the law is expected to play and has played in addressing challenges and problems.			
Achievem	nievement 3 examine various incidents and extent whe events occurring in modern incidents are				Can think legally extent when cor incidents and ev in modern socie	ally to a certain considering various events occurring the various incidents and events				
Assigne	d Depar	tment Ol	ojectives							
Teachin	ig Metho	d								
Outline		The pu	urpose of this cou	irse is to learn the	basic concepts of	f law and legal the	ninking. Students will confirm the various events in daily life.			
Style		The cou	rse is centered or		ndouts and black		udents are encouraged to speak			
Notice		guarante writing. The bas order in	eed in class and t ic concepts of law which they are p	he standard self-st	tudy time require y explained in this changed dependir	d for preparation s course, but the ng on the studen	ne sum of the learning time n, review, and assignment report themes of each class and the ts' understanding.			
Charact	eristics		Division in Le							
☑ Active		,	☑ Aided by IO	<u> </u>	☐ Applicable to Remote Class ☐ Instructor Professionally Experienced					
Course	Plan									
Course			Theme			Goals				
		1st	Guidance: What	is law?		earn about the aws.	concepts and classifications of			
		2nd	History of law				historic evolution of law.			
	3rd Basic Principles of the Constitution				5	sovereignty, respoacifism) as the	pasic principles (popular pect for basic human rights, fundamental principles of the ne top of all Japanese laws.			
	1st Quarter 4th Equal rights				ı	Jnderstand the l	pasic concepts of equal rights.			
		5th Civil liberties					pasic concepts of civil liberties.			
1 o+		6th Social rights					pasic concepts of social rights.			
1st Semeste r		7th	National governance organization			Inderstand Japa Cabinet, and cou :hem.	n's governing institutions (Diet, rts) and the relationship between			
		8th Review of 1stQ				Review of 1stQ				
	9th Penal Code		r	necessary condit an act is legally f	function of the Penal Code and ions for a crime. Understand how ormed as a criminal offense.					
	2nd Quarter	10th	Civil Code		f	amily law. Unde daily life can con	principles of property law and rstand that my human promise in stitute a civil code agreement.			
		11th	Economy / Indus	nomy / Industry and Law			protection law, intellectual  Understand how the law ionships between various actors omic and industrial activities.			

		12th	Labor and law			Understand ho by law.	w workers' rigl	nts are guaranteed		
		13th	Social security / S	Social welfare an	d law	Understand ho (medical care,	w the law guar pensions, welf	rantees people's lives are, etc.).		
		14th	Information socie	ty and law		individual's fre	Understand how the law guarantees the individual's freedom to obtain information and regulates the abuse of misinformation and inappropriate information.			
		15th	International soci	ety and law		Learn the basic relations between		nal law governing		
		16th	Final exam			Take the final	Take the final exam (written test).			
Evaluati	on M	ethod and '	Weight (%)							
		Examination	Assignment	Mutual Evaluations between students	Quiz	Portfolio	Other	Total		
Subtotal		60 20		0	20	0	0	100		
Basic Proficiency	ency 60 20 0		0	20	0	0 0				
Specialize Proficiency			0	0	0	0				
Cross Area Proficiency		0	0	0	0	0	0	0		

Akashi Col	lege	Year	2023		Course Title	Philosophy
Course Informati	on					
Course Code	5504			Course Category	General ,	' Elective
Class Format	Lecture			Credits	Academi	Credit: 2
Department		d Computer E gineering Cou		Student Grade	5th	
Term	First Semest	er		Classes per Week	2	
Textbook and/or Teaching Materials	Hitoshi Akiya	ama et al., Cr	oss-Cultural Under	standing for Succe	ess in a Global	Society, Jikkyo Shuppan Co.
Instructor	ARAKAWA H	lironori				
Course Objective  (1) Understand what (2) Understand the of (3) Understand and ef (4) Understand the n (5) Understand what (6) Acquire knowledg (7) Understand how	ethics one shurrent fluid in explain the coreeds of consuethical issues ethical issues	ternational si ncept of nation nmers and the engineers mad property r	tuation. onal and internation e role of engineers lay face.	nal economies. in different culture nd their significanc	ce in manufac	turing.
Rubric						
	I	deal Level		Standard Level		Unacceptable Level
Achievement 1	v a v	vhat ethics or In engineer w vorld.		Understand what should have as a engineer.		Do not fully understand what ethics they should have as engineers who are active in the world.
Achievement 2	i <u>r</u>	ully aware of nternational s lux.	the current ituation that is in	Understands the dinternational situa		Do not understand the current international situation in flux.
Achievement 3	n	lave sufficien lational and in economic cond		Have knowledge of international econconcepts.		Do not have knowledge of national and international economic concepts.
Achievement 4	tl  r	he needs of c	t knowledge of onsumers and the ers in different	Do not haveknowledge of the needs of consumers and the role of engineers in different cultures.		
Achievement 5	V	lave a good u what ethical is nay face.	inderstanding of successions	Have a understan ethical issues eng face.	Do not have a good understanding of what ethical issues engineers may face.	
Achievement 6	ir fu	ully understai	perty rights and	Acquire knowledg intellectual proper understand their manufacturing.	e of rty rights and significance in	Do not have knowledge of intellectual property rights and fully understand their significance in manufacturing.
Achievement 7	h  ir	low they shou	inderstanding of uld be positioned ety and what they	Understand how eshould be position society and what do.	ned in today's	Do not understand how engineers should be positioned in today's society and what they should do.
Assigned Departr	nent Objec	tives				
Teaching Method						
Outline	technology to philosophical social science future will sepresent, and to internation the knowled the ability to	pased on thei I issues surro e and interna elect a topic r I discuss the nal society ar ge of ethics a papproach va	r expertise. In this unding engineers i itional sociology, st elated to internatic topic. The class foc ad ethics for engine and global issues no rious issues and so	lecture, students on global society, and udents who are expended society and encuses on research, sers. The ultimate ecessary for engine ociety based on the	will be introdund after under pected to be gineer ethics, presentation, goal of this co eers and reseatir own future	
Style	presenters. And their op based on the and surveys In the prese textbooks ar	At the end of inions, which textbook/re if possible. Butation, studend class disco	each class, studen will be evaluated a ference book he/sh ased on the results will be evaluated urse, and therefore	ts are required to as a short report. I he has chosen and sof this research, sed on their own rea, preparation for r	submit a writt n the end, ea conduct in-de students will l esearch as we eading each l	
Notice	Students are prepare a re presentation Proactive pa Absence con	e expected to sume for his, i. Therefore, rticipation is aditions not si	approach class with the topic, and the please be sure to required.  The please be sure to required.  The please be evaluation to evaluation and the please be sure to evaluation.	th a daily interest in audience will be great the relevant se	n current eve raded on the ections of the	nt according to social conditions.  nts. Each presenter is required to questions they ask about the textbook for each presentation.  ne class
Characteristics of	Class / Div	vision in Le	earning	I		
☑ Active Learning	ū	Aided by IC	CT	☑ Applicable to R	Remote Class	☐ Instructor Professionally Experienced
C DI						
Course Plan				1-		
	The	me		GC	oals	

			1	
		1st	Why engineering ethics? Why is it necessary for those who aspire to be engineers to learn ethics? Clarify the links between engineers and ethics through today's social background, the codes of ethics established by the engineering academic societies, etc., and learn and confirm their significance.	Understand the links between engineers and ethics based on today's social background and the code of ethics.
		2nd	The space shuttle Challenger accident 1 Deal with the space shuttle Challenger accident, the most famous case in engineering ethics, and discuss the decisions made by the engineers and executives in the organization.	Understand the characteristics and relationships of the decisions made by the engineers and executives.
		3rd	The space shuttle Challenger disaster 2 Following the previous class, use the case of the Challenger accident as a guide and consider what responsibilities engineers have for making organization risk management function effectively.	Understand the responsibilities and abilities required of engineers for organization risk management.
		4th	The Tokaimura JCO criticality accident 1 Use the JCO criticality accident as an example to consider the significance of improvement activities that have supported the Japanese manufacturing industry, the challenges facing them, and how engineers should engage with them.	Understand the significance and challenges of improvement activities.
	1st Quarter	5th	The Tokaimura JCO criticality accident 2 Following the previous class, use the JCO criticality accident to discuss group thinking, which collective organizations are prone to, and how technicians should deal with it to ensure safety and quality.	Learn the characteristics of group thinking and the abilities needed to deal with it and secure safety.
		6th	Whistleblowing 1 Discuss the purpose of the recently introduced whistleblower protection system, criticisms of the current laws, and the relationship between this system and engineers.	Acquire knowledge of the whistleblower protection system, and understand its issues.
1st Semeste		7th	Whistleblowing 2 Following the previous class, deal with whistleblowing. An increasing number of companies have established help desks, etc. as part of their efforts to enhance their compliance systems. Examine this trend's significance in the relationship between organizations and individuals.	Understand what needs to be kept in mind to ensure proper organizational behavior.
r		8th	Product Liability Act Review the details of the Product Liability Act—which is said to be the most relevant law for engineers—and discuss that it is important for engineers to establish it as a manufacturing belief.	Gain appropriate knowledge of the Product Liability Act and become able to use it as a manufacturing belief.
		9th	Intellectual properties Confirm the significance of the patent, copyright, and other systems for technology development, and examine the issues, etc., facing them that accompany information technology development, etc.	Acquire knowledge of intellectual property rights and understand their significance in manufacturing.
		10th	The Bhopal disaster 1 Use the agricultural chemicals factory accident in Bhopal, India—the biggest industrial accident in history—as an example to discuss the further increasing problems associated with overseas industrial activities as globalization progresses.	Acquire knowledge of the issues faced in overseas industrial activities.
	2nd Quarter	11th	The Bhopal disaster 2 Based on the previous class, examine the fact that there is a need for engineers to take into account that technology development is deeply related to the interaction between social conditions, culture, history, and thoughts, etc., that surround it.	Deepen understanding of the previous class and learn effective methods for overseas industrial activities.
	- Quantum	12th	The Roppongi Hills revolving door accident 1 Introduces the activities of the Door Project, which took place after the revolving door accident, and discuss the ideas and significance of failure studies and topics such as Heinrich's law in risk management.	Acquire knowledge of failure studies and Heinrich's law.
		13th	The Roppongi Hills revolving door accident 2 Based on the previous class, discus how engineers also have their own culture as engineers, and that it is important to pass down knowledge to overcome the problems that result from this.	Understand that in order to understand and use technology effectively, it is necessary to properly understand and communicate technology ideas.
		14th	Universal design Confirm that there is a political aspect to new technology development that gives birth to new power struggles and discrimination, whereas universal design is an attempt to democratize it.	Understand the concept of universal design and the systems necessary for achieving it.

		15th	New technological had a variety information so Consider the	engineering ethics ogy developments by e of impacts in sectors ociety and medical car sort of relation that er s in these other areas.	such as re. ngineers should	Under and m should	nodern society and w	p between engineers hat their place in it
		16th	final exam					
Evaluati	on Metho	d and \	Weight (%)					
		Final Ex	am	Presentation in lecture	Comments and questions in led		Final Report	Total
Subtotal		40		15	10		35	100
Basic Prof	iciency	40		15	0		0	55
Specialize Proficiency	Specialized Proficiency		0	0		0	0	
	Cross Area Proficiency		0	10		35	45	

А	kashi Co	ollege		Year	20	23			Course Title	Biophy	sical Chemistry
Course	Course Information Course Code 5505										
							Course Cate	jory	General /	' Elective	2
Class Forr	mat	Lectu	e Credits						School C	edit: 1	
Departme	ent	Electr	ical En	gineering Cou		eering	Student Grad		5th		
Term	17	Secon	nd Semester Classes per Week 2								
Textbook Teaching	Matérials	0646	A \	A Hiromichi							
Instructor	_	10000	AWAR	A HIROMICHI							
(1) Learn (2) Learn	how basic	amine c	c knov	al reactions oc vledge of math idering in futu	nema	atīcs, physics,	and chemistr	y is ap	oplied to und	erstandi	ng life, including the
Rubric										_	
			<del></del>	deal Level			Standard Lev				eptable Level
Achievem	ent 1		e	fully understar examine chemi occurring in life ohysics and che	cal r	reactions sed on	Understand had been chemical reading the based on chemistry.	ctions	occurring in	exami	t understand how to ne chemical reactions ring in life based on as and chemistry.
Achievem	ent 2		k	Fully understar knowledge is a science.			Understand has knowledge is science.				t understand how basic edge is applied as life se.
Assigne	d Depar	tment	Objec	ctives						•	
	g Metho										
Outline		Physical chemistry is a field of chemistry in which the structure, function (physical matters are elucidated using physical methods. In this field, biophysical chemistry with the phenomena occurring in life. In this course, we will study the chemical ready with focus mainly on the energy flow and reaction rate.						mistry is	the division that deals		
Style Regular classes will be taught in a lecture s					yle, and there	will a	also be exerc	ses and	quizzes.		
Notice		chemi The s	stry) t chedul	nsciously think that you have e of the midte no miss 1/3 or	learr rm e	ned so far is h exam may be	elping to unde changed.	erstan	d life and far	(mathe	matics, physics, enomena related to it.
Charact	eristics o	of Class	s / Di	vision in Lea	arni	ing					
□ Active	Learning			☐ Aided by IC	Т		☑ Applicable	to Re	emote Class		structor Professionally ienced
Course	Dlan										
Course	Piali		The	nmo.				Goa	alc		
		4		dance				1906	215		
		1st	Ene	ergetics of non-				_	irn about the		
		2nd	_	ergetics of non			naterials	Lea	irn about the	change	s of matter and energy.
		3rd 4th		class because ergetics of non-			naterials	Lea	ern about the iving bodies.	exchan	ge of energy with matter
	3rd Quarter	5th	Cata	abolism				Lea		of extracting energy from	
		6th	Pho	otosynthesis				Lea	ern about the ergy of light t	process o synthe	by which plants use the esize carbohydrates.
		7th	Pho	tosynthesis					arn about photochemical reactions.		
2nd Samesta		8th	Pho	tosynthesis					irn about the ucture of mol		natters of electronic
r	Semeste 9th Midterm exam										
10th Chemical kinetics						Lea	rn about the	basic m	natters of chemical kinetics		
11th Enzymes							t's necessary		natters of enzymes.		
12th Enzymes										natters of proteins.	
4th Ouarter 13th Michaelis-Menten er				enzv	yme kinetics (	overview)	Lea	irn about the	basic m	natters of Michaelis-	
	Quarter	14th		haelis-Menten		<u> </u>		Lea	nten kinetics arn about the haelis-Mente	inhibitio	on of enzymes in
15th Michaelis-Menten enz				enzy	yme kinetics (	details)	Lea			on of enzymes by acids	
		16th	Fina	al exam							
Evaluati	ion Meth	od and	Wei	ght (%)							
			xamina	_		Exercises / Q	uizzes	Atten	dance / Beha	avior	Total
Subtotal		4				30		30			100
Basic Prof		4				30		30			100
Specialize	Specialized Proficiency 0					0		0			0

Cross Area Proficiency 0 0 0

Д	kashi Co	ollege	Year		2023			Course	Scientific Technology and	
	Informa				1			Title	the Environment	
Course Co		5506				Course Categor	rv	General	/ Elective	
Class For	mat	Lecture				Credits	,	School C	·	
Departme	ent	Electrical	and Compute Engineering	er E	Engineering	Student Grade	5th			
Term		Second S		CUL	ii se	Classes per We	eek	2		
Textbook		Hand out	materials ac	cord	dingly without usir	•				
Teaching Instructor		IMAI Ryo			3,					
	Objectiv	'	ici ii							
(1) Learn (2) Learn (3) Learn (4) Be int	the histor how the e	y of the tech environment onship betwe	al destructior een technolog	n ha gy a	opment from ancie as occurred due to and environmental eering and can ex	the technological destruction and	al dev I think	velopment. k about hov	w technologists should work.	
Rubric			Ideal Level			Standard Level	1		Unacceptable Level	
					1.1. 1.1.			C . I	Do not understand the history	
Achievem	ent 1			logi	nd the history of cal development o modern.	opment   technological development from			of the technological	
Achievem	ent 2		environmer occurred di	ntal ue t	nd how the destruction has to the development.	n has environmental destruction has occurred due to the			Do not understand how the environmental destruction has occurred due to the technological development.	
Achievem	ent 3		Can accurately think about how technologist should work based on the relationship between technology and environmental destruction.  Can think about how technologist should work based on the relationship between technology and environmental destruction.				Cannot think about how technologist should work based on the relationship between technology and environmental destruction.			
Achievem	Be interested in other fields as well as engineering and can accurately express opinions.  Be interested in other fields as well as engineering and can express opinions.				Neither be interested in other fields as well as engineering nor can express opinions.					
Assigne	d Depar	tment Ob	jectives							
Teachin	g Metho	d								
Outline		of enviror the incide plant by t between centered	nment, agricuents that life in the Great Eas technology of on agricultur	ultui is m st Ja r sc re, a	re and food are of nade light of often apan Earthquake ir lience and environ	ten brought up a occur, including 1 2011. Then in ment from the v logy and agricult	as thr the a this le viewpe tural s	eatening of accident of ecture, student of historian science that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract that a contract t	d and intelligence. Now problems ur health and life. This is because Fukushima No. 1 nuclear power dents understand relationship bry from ancient to modern, t produce food as well as	
Style			vill be held in Ogasawara	a le	ecture style.					
Notice		Evaluatio	ns are given	with	h a focus on prese more of classes v	ntation and attit	ude c	during class	and submitting reports.	
Charact	eristics	•	Division in			viii rioc be eligibi	<u>C 101</u>	evaluation		
☐ Active			☐ Aided b			☑ Applicable to	o Ren	note Class	☐ Instructor Professionally Experienced	
	DI.									
Course	Plan	I I-	Γh ο μα ο				Cash			
			Theme Introduction	-\	What is farming?	_	Goals Unde	erstand the	significance and the method of learn 'what is farming?'	
		2nd A	Ancient civiliz	atio	n and agriculture		Lear	n the relati	onship of the rise and fall of ions and agriculture.	
3rd F		Rice-paddy cultivation in the Edo pe			eriod in Japan	susta said those	ainable soc to have be	is often said to have been the lety. Especially cities in Japan are en the cleanest in the world in learn rice-paddy cultivation that secrets.		
2nd Semeste r	3rd Quarter	4th t	The agricultur hree-field sys	ral r ster	revolution in Europ n to rotation syste	e – from em –	was	n the Agric one of the olution.	ultural revolution in Europe that preconditions of the Industrial	
					evolution in Englan the capitalistic ecc		capit the e to be	alistic ecor economic g e called 'Re		
				Meiji restoration and the establishment of the alistic economy in Japan			to be called 'Revolution'.  During the Meiji period, the western agricultural technologies were introduced into Japan. But the did not adapt to the climate and natural feature of Japan. Then learn the development of			

		7th		rom the Meiji period to the wa period and various	period to the prewar age (disputes that occurred	between landowners and achievements of people agricultural technologies
		8th	Midterm exam			
		9th	The entire war system  – the diversion for arn also many farm produ	and Japanese agriculture naments of not only iron bu cts –		products were diverted for ntire war system (konjac e balloon bombs and so
		10th		and overseas territories farming in 'Manchuria' –	Learn realities of farming that went to 'Manchuria' ideal farming and escap	g by Japanese immigrants in order to realize the e poverty in Japan.
		11th	War and agricultural s mobilization of not onl various studies –		Learn general mobilizati but also various studies under the entire war sys	
	446	12th	The development of the after World War II	ne Japanese agriculture	Learn the changes of Jadietary environment und growth after World War	der the rapid economic
	4th Quarter	13th	Current agriculture in and environment in th	Japan – agriculture, food e future –	Learn various problems and food have today (de detachment of food and warming, and so on).	that Japanese agriculture epopulation, satiation, the agriculture, global
		14th	Agriculture, food and i	nuclear power plant	Learn the reason why the construction contributes the regions. Think over of the Tohoku region' ar operation' go together.	to the depopulation of whether 'the restoration
		15th	The global warming ar	nd the role of nuclear power	Nuclear power plant is e clue to prevent global w the ability really? Think data, aim to have our or	xpected as an important arming, but does it have over that with various wn opinions.
		16th	Final exam			
Evaluati	on Meth	od an	nd Weight (%)			
			Behavior	Report	Examination	Total
Subtotal			15		40	100
Basic Profi	ciency		15	45	40	100
Specialized	d Proficien	су	0	0	0	0
Cross Area	a Proficien	су	0	0	0	0

А	kashi Co	ollege	Year	2023			ourse Fitle	Sports Science I	
Course	Informa	tion							
Course Co	ode	5507			Course Categor	γ	General ,	/ Elective	
Class Forr	mat	Skill			Credits		School C	redit: 1	
Departme	ent	Electrical	l and Computer I I Engineering Co	Engineering urse	Student Grade	de 5th			
Term		First Sen			Classes per We	ek	2		
Textbook						•			
Teaching Instructor		СОТОН	Takayuki,KOBAY	ACUI Vuki					
	Objectiv		rakayuki,KODAT	ASHI TUKI					
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 llaborat	e some le ing and d	evel of self-discipline. cooperating with the team and can	
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		improve their	ath. 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		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 ble 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.	t 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	ctive and review.	h of sports so that they can build I proactive attitude to participate. and implement the course , basketball, volleyball, badminton,	
Style		the basic	skills they learn k while collabora	ied in previous yea ating and cooperati	rs. They are also ing with your tea	encou m with	raged to your lea	e rules, how to play games, and experience the fun of enhancing der in the center. Students should s 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, watche sed 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 cl	ssary iter participa cused (d asses wil	nts will be deducted from their ms. These are also eligible for te in the class after 20 minutes, itching class), their attendance for I suffer a deduction equal to an	
Charact	eristics (		Division in Le		wiii flot be eligi	DIC 101	Cvaluacio	111.	
☑ Active		<u> </u>	☐ Aided by I		✓ Applicable to Remote Class ☐ Instructor Profession Experienced			☐ Instructor Professionally Experienced	
Course	Plan								
COUI 3C	. 1011		Theme		T	Goals			
		1st	Guidance Baseball, softbal	l, soccer, futsal, te yball, badminton, t isc	nnis, able tennis,	Unders	. Split int	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 reflect	warm-u on the cl	p and practice, play games, and ass, led by a leader.	
1st Somosto 1st		3rd	basketbáll, volley training, flying d		able tennis,	Can do warm-up and practice, play games, and reflect on the class, led by a leader.			
		4th	basketball, volley training, flying d		able tennis,	Can do warm-up and practice, play games, and reflect on the class, led by a leader.			
		5th	basketball, volley training, flying d		able tennis,	Can do reflect	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 do reflect	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	nnis, able tennis,	Can do reflect	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 ss, 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	Can do warm-up and practice, play games, and reflect on the class, 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	Can do warm-up and practice, play games, and reflect on the class, 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	on Meth	od ar	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	ісу	0	15	10	25		

А	.kashi Co	ollege	Year	2023			ourse Title	Sports Science II	
Course	Informa	tion		•					
Course Co		5508			Course Categor	ory General / Elective			
Class For	mat	Skill			Credits School Cre			redit: 1	
Departme	ent		l and Computer I I Engineering Co		Student Grade		5th		
Term			Semester	urse	Classes per We	ek	2		
Textbook	and/or	Second s	Serriester		Telasses per vve	CK			
Teaching									
Instructor			Takayuki,ISHIDA	Masami					
Particip	Objectivo de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición dela composición de la composición dela composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición del composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición	sses to imp	rove students' ov	wn health and phys	sical strength. Als	so, hav	/e some le	evel of self-discipline.	
		action to do		o, recognizes the s	ignificance of cor	парога	ung and c	ooperating with the team and can	
RUDITIC			Ideal Level		Standard Level			Unacceptable Level	
								Do not participate in classes. Do	
Achievem	ent 1		improve their	ath. Have a high	Participate in classification their health and strength. Have self-discipline.	d physi	ical ·	not strive to improve their health and physical strength. Have a poor level of selfdiscipline.	
Achievem	ent 2		sport practice are very comp	cipate in various s and games, and petitive. Also have nce on games, etc.	Can participate practices and ga		ious sport	Do not participate in various sport practices and games.	
Achievem	ent 3			nd can play or ble 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.	t of playing sport s will split into ar	ts on a daily basis. oups and leaders v oose from: Baseba	This class require vill take the lead	es an a	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	skills they learn k while collabora	ned in previous yea ating and cooperat	rs. They are also ing with your tea	encou m with	iraged to 1 your lea	e rules, how to play games, and experience the fun of enhancing der in the center. Students should s support their effort.	
Notice		grade. Do no grade de Tardir but their If it is that clas absence	ot wear or bring a eduction. ness 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 of minutes. Studer ent. s early without be eir grade for prev	unnecents can eing ex vious c	essary iter participa ccused (di lasses wil	nts will be deducted from their ms. 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	of Class /	Division in Le	earning					
☑ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced	
Course	Plan								
			Theme			Goals			
		130	Guidance Baseball, softbal basketball, volle 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, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	abla tannia	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
2nd Somosto 3rd		3rd	basketball, volle training, flying d		able tennis,	Can do warm-up and practice, play gamereflect on the class, led by a leader.			
		4th	basketball, volle training, flying d		able tennis,	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		5th	basketball, volle training, flying d		able tennis,	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		6th	basketball, volle training, flying d		able tennis,	Can do	o warm-u on the cl	p and practice, play games, and ass, led by a leader.	
		7th	Baseball, softbal basketball, volle training, flying d	l, soccer, futsal, te yball, badminton, t isc	abla tannia - I	Can do	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 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	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
	13th	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.		
	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		

Akashi College			Year	2023			urse itle	TOEICI			
Course	Informat	tion									
Course Co	ode	5509				Course Categor	ry (	General /	Elective		
Class Forr	mat	その他				Credits	9	School Cre	edit: 1		
Departme	ent	Electrical Electrical	and C Engin	Computer Er neering Cour	ngineering rse	Student Grade	5	ith			
Term		Year-rour	nd			Classes per We	ek 1	-			
Textbook Teaching		None									
Instructor	-	INOUE Hi	detos	shi							
Course	Objectiv	es									
knowledg	e of Englis ws that the	h and the Er	nglish	ı-speaking cı	ultural backgroun	d. The student s	should a	cquire 43	cam questions that require 0 or more points in the test, ess communication within a		
Rubric											
				al Level		Standard Level			Unacceptable Level		
1) cross-c and adapt		derstanding	cult cros tack requand	:ural underst ss-cultural a kling exam c	daptability by questions that dge of English -speaking	The student has cross-cultural u and cross-cultural by tackling exarequire knowled and the English cultural backgro	indersta iral adap m quest dge of E n-speakir	nding tability ions that nglish	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.		
2) English	n knowledg	e	lish knowled needs of ev	ave acquired dge that fulfills eryday life and communication range.	The students he some English ke fulfills the need and allows busicommunication range.	nowledg Is of eve iness	e 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 Obj	jecti\	ves							
Teachin	g Metho	d									
Outline		KOSEN (h entered K of self-lea	iigher OSEN irning	education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the education in the educat	nstitution). A skill quire 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 rned at junior high school. Also, olem discovery and resolution.		
Style		The credit	ts are	obtained a	ccording to tests r	esults, no classe	es				
Notice		period stip period will TOEIC (To Public Ins Through t	pulate I not est of titution	ed by the sto be accepted English for on (Educations)	udents' affairs offi I. The indicator of International Con Inal Testing Servio	ce. Applications English commu nmunication), a ce), which has the prove his or her	without inication test dev he larges 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 nd know-how in the world. e skills, and motivation to learn		
Charact	eristics o	of Class / I	Divis	sion in Lea	arning						
☐ Active	Learning			Aided by IC	Т	│ │□ Applicable to	o Remot	e Class	☐ Instructor Professionally		
									Experienced		
Course	Dlan										
Course	riaii	Тт	heme	Δ			Goals				
		1st		<u> </u>			Jours				
		2nd									
		3rd									
	1st	4th									
	Quarter	5th									
		6th									
1st	7th										
Semeste											
r 9th 10th											
11th											
2nd 12th											
Quarter 13th											
14th											
		15th									
		1	lo end	d-term Exar	n						
2nd		1st									
2nd Semeste	3rd Quarter	2nd									
r	Quarter	3rd 4th									
	L	+u1									

		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	2023			urse itle	TOEICI		
Course	Informat	tion									
Course Co	ode	5510				Course Categor	y G	General /	Elective		
Class Forr	mat	その他				Credits	S	School Cre	edit: 2		
Departme	ent	Electrical Electrical	and ( Engir	Computer En neering Cour	ngineering rse	Student Grade		ith			
Term		Year-rou	nd			Classes per We	ek 2	<u> </u>			
Textbook Teaching	Matérials	None									
Instructor		INOUE H	idetos	shi							
	Objectiv							1.11			
knowledge what show limited rai	ws that the	noster cross- h and the E e students E	-cultu nglish inglish	iral understa n-speaking c h knowledge	inding and cross-out fultural backgroun fulfills the needs	d. The student s of everyday life	should ac	ackling ex cquire 50 ws busin	cam questions that require 0 or more points in the test, ess communication within a		
Rubric											
	Unacceptable Level										
1) cross-c and adapt		derstanding	cult cros tack req and	tural unders ss-cultural a kling exam (	ndaptability by questions that dge of English n-speaking	The student has cross-cultural u and cross-cultu by tackling exarequire knowled and the English cultural backgrouss.	ınderstaı ıral adap m quest dge of Eı ı-speakir	nding tability ions that nglish	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	ı knowledg	e	Eng the allo	glish knowled needs of ev	ave acquired dge that fulfills veryday life and s communication l range.	The students has some English kind fulfills the need and allows busicommunication range.	nowledg s of eve iness	e 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 i N need to ac g and autono	institution). A skill equire these skills omously learning,	required to live at an early stage and not "study"	through e. 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 rned at junior high school. Also, olem discovery and resolution.		
Style					ccording to tests r						
Notice		period sti period wi TOEIC (T Public Ins Through	pulate II not est of stitution this te	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 communmunication), a ce), which has the prove his or her	without inication test dev he larges 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 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 Lea	arning						
☐ Active	Learning			Aided by IC	Т	☐ Applicable to	☐ Applicable to Remote Class ☐ Instructor Professionally Experienced				
									Experienced		
Course	Plan										
Course		-	Them	e			Goals				
		1st									
		2nd									
		3rd									
	1st	4th									
	Quarter	5th									
		6th									
1st	7th										
Semeste	neste 8th No mid-term Exam										
r 901 10th											
		11th									
2nd 12th											
Quarter 13th											
14th											
15th											
			No en	ıd-term Exar	n						
2nd		1st									
Semeste	3rd Quarter	2nd 3rd									
ļ ſ		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

А	kashi Co	llege		Year	2023			urse tle	TOEICII		
Course 1	Informat	tion									
Course Co	ode	5511				Course Categor	y G	eneral /	Elective		
Class Forn	mat	その他				Credits	S	chool Cr	edit: 3		
Departme	ent	Electrical Electrical	and C Engin	Computer Election	ngineering rse	Student Grade		th			
Term		Year-rour	nd			Classes per We	ek 3				
Textbook Teaching	Matérials	None									
Instructor		INOUE H	idetosl	<u>hi</u>							
Course (											
1) The stu knowledge what show limited rai	ws that the	oster cross- h and the E students E	-cultur nglish- nglish	ral understa -speaking c ı 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 65 ws busin	xam questions that require 0 or more points in the test, ess communication within a		
Rubric											
Ideal Level Standard Level Unacceptable Level											
1) cross-c and adapt		derstanding	culti cros tack requ and	ural unders ss-cultural a ding exam (	s fostered cross- tanding and idaptability by questions that dge of English n-speaking ound.	The student has cross-cultural u and cross-cultuby tackling exarrequire knowled and the English cultural backgro	inderstar ral adapt m questi dge of Er i-speakin	nding tability ons that nglish	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	knowledg	e	Engl the allov	lish knowle needs of ev	ave acquired dge that fulfills veryday life and s communication I range.	The students ha some English kr fulfills the need and allows busi communication range.	nowledge s of ever iness	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	d Depart	ment Ob	jectiv	/es							
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 21s 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	ice. Applications English commun nmunication), a ce), which has th pprove his or her	without nication test deve he larges English	the test capabilit eloped b 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	to Remote Class				
									Experience		
Course I	Plan										
		1	Theme	2			Goals				
		1st									
		2nd									
		3rd									
	1st	4th									
	Quarter	5th									
		6th									
1 at	7th										
1st Semeste	ste 8th No mid-term Exam										
9th   10th											
						+					
		11th									
2nd 12th Quarter 13th											
Quarter 13th 14th											
14th 15th											
15th No end-term Exam											
16th   No end-term Exam   1st											
2nd	3rd	2nd									
Semeste r	Quarter	3rd									
		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	2023			ourse Title	Overseas Training III				
Course	Informa	tion									
Course Co		5512			Course Categor	У	General /	/ Elective			
Class Forr	mat	Practical t	actical training Credits School Credit: 1								
Departme	ent		and Computer E Engineering Cou		Student Grade		5th				
Term		Year-roun	ıd	Classes per We	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		r						
			Ideal Level		Standard Level			Unacceptable Level			
Achievem	ent 1			efforts to edge and skills pating in training	Can make effor knowledge and participating in overseas.	skills t	hrough	Cannot make efforts to increase knowledge and skills through participating in training overseas.			
Achievem	ent 2		Can fully developerspective such participating in different cultur	ccessfully by training in	Can develop a be perspective by training in differ	partici	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	<u> </u>									
Outline		summer v content w (manner l	cate through a vivacation, etc. The vill amount to ove lesson, prelimina	ariety of training e e number of days er 45 hours in tota	experiences over for the training in the training destination	seas. 1 must b nclude ation),	The trainir e more th training o	various perspectives and to ng can be carried out during nan five days. This course's overseas, preliminary guidance ession, and self-study time for			
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, ople and act appropriately as a			
Charact	eristics o	•	Division in Le								
☑ Active		,	☑ Aided by ICT ☑ Applicable to		Remo	ote Class	☐ Instructor Professionally Experienced				
Course	Plan										
		Т	heme			Goals					
		1st									
		2nd									
		3rd									
	1st	4th									
	Quarter	5th									
		6th									
		7th									
1st Semeste	Lst 8th										
r		9th									
		10th									
11th											
2nd 12th											
	Quarter	13th									
		14th									
		15th									
		16th N	lo final exam								
		1st									
		2nd									
2nd	34	3rd									
Semeste	3rd Quarter	4th									
["		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	Basic Proficiency		0	0		0
Specialize	Specialized Proficiency		0	0 0		0
Cross Are	Cross Area Proficiency		50		50	100

Akashi Col	lege		Year	2023		(	Course Title	Intellectual Property Rights	
Course Informat	ion								
Course Code	5513				Course Categor	у	Specializ	ed / Compulsory	
Class Format	Lecture				Credits		School C	dit: 1	
Department	Electrical Electrical	l and C l Engin	Computer E leering Cou	ngineering rse	Student Grade		5th		
Term	First Sen	nester			Classes per Wee	ek	2		
Textbook and/or Teaching Materials									
Instructor	MORISAI	DA Yuj	ji						
Course Objective	es								
foreign). (2) Acquire the know research and develop (3) Understand the f	vledge to doment office low of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of appoint of ap	lemons cer in a lication th a pa e of inv	strate appro a university n procedure atent attorn restigation,	opriate intellect or company, a es (in Japan and ey or the Japar and can decide	ual property manag nd can take the lea d other countries), a n Patent Office (rele whether to conduc	gemend d wit and u evant ct all o	nt capabili hin an org Inderstand organizati of the inve	other countries (international and ties within an organization as a anization. I which stage of the procedure they ons). I stigation by themselves or to ask ent it.	
Rubric		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					<i>/</i>		
		Idea	al Level		Standard Level			Unacceptable Level	
Achievement 1		othe inte	ers the syst llectual pro	d can explain to tems of perty rights in er countries.	Understand and others the syste intellectual prop Japan.	ems c	of .	'	
Achievement 2		den inte mar an o	organization	ppropriate	an organization	prop perty apabil	riate	Cannot explain the knowledge to demonstrate appropriate intellectual property management capabilities within an organization.	
Achievement 3						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 of tt to do it.	of investigation	and o	can	Do not understand the importance of investigation.	
Achievement 5		nece	Can use the computer literacy necessary to conduct investigation themselves, and actually investigate.  Can explain the computer literacy necessary to conduct investigation themselves.			conduct	Cannot acquire the computer literacy necessary to conduct investigation themselves.		
Assigned Depart	ment Ob	jectiv	ves						
Teaching Method	1								
Outline	rights, cc 2) Methorights) 3) Flow cregistrati 4) Flow capplicatic 5) Matter of investiusing the This courrelating t	opyrigh odologi of appl ion) of inter on, foc rs rela igating e onling rse wil to intel	nt, etc.) les for intellication production rnational application on the ted to invest patents, use J-PlatPat I be taught llectual pro	lectual property cedures, etc. (epplication proce he PCT internation on intestigation on instructors in contractors  management for rexplain the flows fro dures, etc. (explain onal patent applicatellectual property ricesigns, and trademovements)	resear resp tion s ghts: arks,	rchers and oplication to sective orga system) Lectures a and resea	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	It involves lectures on patents, designs, copyrights, etc. The class will be carried out mainly with lectures, and there will be PC-based research exercises, etc. as appropriate.								
Notice	rights for develop a Students	t they r it. Sti a habit s who r	or their frie udents sho t of thinking miss 1/3 or	end/acquaintanould ald be intereste g. more of classe	ce researched and o	devel o inte	oped, how ellectual pr	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	ı				T	_			
		Theme	2			Goals	5		

		1st	Summary of intel	lectual property r	ights	Understand an	overview of in	tellectual property		
		2nd	Patents I			purpose, and t	Understand the outline of the patent system, its purpose, and the patent (registration) requirements, etc.			
		3rd	Patents II	ratents II			Understand how to judge novelty and inventiveness.			
	1st	4th	Patents III				e process of cre	eating a broad and ideas.		
	Quarter	5th	Patents IV			Understand th inventions.	e flow of proced	dures and employee		
		6th	Patents V / Interr			Understand ne	cessary of appl	ying International		
		7th	Utility model I	,				utility model, its requirements, etc.		
			Investigating pate	ents and utility m	odels		d implement matents and utili			
1st Semeste		9th	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				Understand th related to the broth.	e trademark processes of creation	ecautions directly n of soy sauce with		
	2nd Quarter	12th	Copyrights I			(works, copyri	e outline of the ghts, moral 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 d Summary of intel			Understand and implement investigation of desig 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					
	Examin		Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal 1		00	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 Are Proficienc	ss Area				0	0	0	0		

Assigned Department Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understanding the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulator in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through handouts. In addition to what students learned in classes, they will perform individual activities on assignments of the choosing. Exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes. Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning	А	.kashi Co	ollege	Year	2023		Cours Title		Computer Simulation	
Cases Sormat   Lecture   Cedits   School Credit: 1	Course	Informa	tion							
Department   Electrical Engineering   Student Grade   Sth	Course Co	ode	5514			Course Categor	y Spec	ialize	d / Compulsory	
Term	Class Forr	mat	Lecture			Credits	School Cre		edit: 1	
Textbook and/or Teaching Meterials Instructor OUNTER Objectives 1. Can explain the reason why numerical calculations yield errors 2. Can describe a solution method (algorithm) on basic math problems.  Rubric  Ideal Level Can explain the method so as to Can explain causes why major avoid major errors on numerical calculations occur.  Can excurately explain a solution method (algorithm) for all specified problems.  Achievement 2  Can accurately explain a solution method (algorithm) for problems.  Assigned Department Objectives  Teaching Method  Assigned Department Objectives  Teaching Method  Outline  Assigned Department Objectives  Teaching Method  Can explain the method so as to Can explain causes why major errors on numerical calculations and problems.  Can explain an overview of the methods to algorithms) for problems.  Assigned Department Objectives  Teaching Method  Outline  Can explain in a simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the second half.  Classes are conducted through lectures and exercises.  Lectures will be conducted through lectures and exercises.  Lectures will be conducted through lectures and exercises.  Lectures will be conducted on assignment progress and the work produced during the exercises, and probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes.  Students who miss 12 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Them  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculati	Departme	ent	Electrical Electrical	and Computer E Engineering Cou	ngineering rse	Student Grade	5th			
Teaching Materials  Instructor OHMUKAI Masato  Course Objectives  1. Can explain the reason why numerical calculations yield errors.  2. Can describe a solution method (algorithm) on basic math problems.  Rubric  Ideal Level  Can explain the method so as to can explain causes why major avoid major errors on numerical calculations occur.  Achievement 1  Can accurately explain a solution method (algorithm) for all specified problems.  Achievement 2  Can accurately explain a solution method (algorithm) for all specified problems.  Achievement 2  Can accurately explain a solution method (algorithm) for all specified problems.  Assigned Department Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that reading insimulation in the first half, and practice the methods to solve their own challenges by programming an explaining a simulator in the first half, and practice the methods to solve their own challenges by programming and explaining a simulator in the second half.  Classes are conducted through lectures and exercises.  Lectures will be conducted through handouts.  In addition to what students learned in classes, they will perform individual activities on assignments of the Exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review			Second S	emester	emester Classes per Week 2					
Instructor										
1. Can explain the reason why numerical calculations yield errors. 2. Can describe a solution method (algorithm) on basic math problems.  Rubric    Ideal Level			OHMUKA1	I Masato						
2. Can describe a solution method (algorithm) on basic math problems.  Rubric  Ideal Level  Can explain the method so as to avoid major errors on numerical calculations are violed major errors on numerical calculations are violed major errors on numerical calculations occur.  Achievement 2  Can accurately explain a solution method (algorithm) for all specified problems.  Achievement 2  Achievement Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and the experiment in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through handours. In addition to what students learned in classes, they will perform individual activities on assignments of the Students will be evaluated on assignment progress and the work produced during the exercises, and probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes. Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Theme  Active Learning  Theme  Course Plan  Theme  Coals  Algorithms, calculations and recurrence relations  Can derive repetitive methods which give solutions of problems.  Style Singulations to solve the exist of the course of classes will not be eligible for evaluation.  Can derive reproduced during the exercises, and probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes.  Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Theme  Algorithms, calculations and recurrence relations  Theme  Algorithms, calculations and recurrence rel	Course	Objectiv	es							
Achievement 1    Gan explain the method so as to Can explain causes why major calculations colculations and importent of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the collections of the co	2. Can de	plain the r scribe a so	eason why rolution meth	numerical calcula od (algorithm) o	tions yield errors. n basic math prob	lems.				
Achievement 1  Can explain the method so as to Can explain causes why major avoid major errors on numerical calculations and present on numerical calculations occur.  Can accurately explain a solution method (algorithm) for finding solutions to some problems.  Assigned Department Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomena and to deepen the understanding the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and explaining a simulator in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through lectures and exercises.  Lectures will be conducted through lectures and exercises.  Lectures will be conducted through lectures and exercises.  Lectures will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as frienders will be evaluated on assignment progress and the work produced during the exercises, and presentations.  Characteristics of Class / Division in Learning  Introduction  Theme  1st Introduction  Theme  1st Introduction  Algorithms, calculations and recurrence relations  Can derive (time) complexity of some algorithms.  Can derive (time) complexity of some algorithms.  Can derive (time) complexity of some algorithms.  Can derive repetitive methods which give solutions of problems.	Rubric			T						
Achievement 1 avoid major errors on numerical errors on numerical calculations major errors on numerical calculations (calculations calculations)  Can accurately explain a solution method (algorithm) for all specified problems.  Assigned Department Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understandit the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the first through hardbods.  Classes are conducted through hardbods.  Style  Style  Classes are conducted through the curres and exercises.  In addition to what students learned in classes, they will perform individual activities on assignments of the conductant will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as referenceed during the classes.  Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations or problems.  Algorithms, calculations and recurrence relations or problems.  Algorithms, calculations and recurrence relations or problems.  Algorithms,									<u>'</u>	
Achievement 2 solution method (algorithm) for all specified problems.  Assigned Department Objectives  Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understandit the contents. In classes, we will introduce the basic concepts and the lates examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be conducted through lectures and exercises. Lectures will be evaluated on assignment progress and the work produced during the exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes.  Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  2nd Active Learning  Theme  Goals  1st Introduction  Theme  Goals  1st Introduction  Understand time and space complexity of algorithms. Can derive represent the experiment of the cours	Achievem	ent 1		avoid major er	rors on numerical	errors on nume	erical calcula	ajor itions	major errors on numerical	
Teaching Method  A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and social phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understanding the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the second half.  Classes are conducted through lactures and exercises. Lectures will be conducted through handouts. In addition to what students learned in classes, they will perform individual activities on assignments of the choosing. Exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes. Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Active Learning  Theme  Goals  Instructor Professionally Experienced  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Can derive recurrence relations which give solutions of problems.  The Errors, loss of significance, data loss  Sth. Nonlinear equations  Can explain the cause of phenomena that occ in numerical calculations, such as truncation entros, loss of significance, data loss  Sth. Simultaneous equations 1  Can explain the Newton method, the	Achievem	ent 2		solution metho	d (algorithm) for	methods (algor finding solution	ithms) for	the	(algorithm) of finding solutions	
A simulation is the imitation of a phenomenon by reducing it into a model. The aim of this course is to conduct computer-based experiments on simple models of natural and coil phenomena that are difficult reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understandish the contents. In classes, we will introduce the basic concepts and the laste examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulation in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through handouts. In addition to what students learned in classes, they will perform individual activities on assignments of the choosing are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes. Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Theme  Goals  Instructor Professionally Experienced  Course Plan  Theme  Goals  Introduction  Theme  Goals  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Can derive (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  The Errors, loss of significance, data loss  The Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  Sth Nonlinear equations  Can explain algorithms of Gaussian elimination and sweep our methods.  Sthe Everseo on the contents of classes in the first	Assigne	d Depar	tment Obj	ectives						
Outline   Conduct computer-based experiments on simple models of natural and social phenomena that are difficul reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understandit the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and explaining a simulator in the second half.  Classes are conducted through lectures and exercises. Lectures will be conducted through handouts.  In addition to what students learned in classes, they will perform individual activities on assignments of the choosing. Exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  Notice   As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes.  Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning   Adject the programming and Algorithms, Computer Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professionally Experienced   Instructor Professiona	Teachin	g Metho	d							
Lectures will be conducted through handouts. In addition to what students learned in classes, they will perform individual activities on assignments of the choosing. Exercises are supposed to build a system to help students in their own graduation research. Students will be evaluated on assignment progress and the work produced during the exercises, and presentations.  As this course is built on the content of Data Structures and Algorithms, Computer Programming, and Probability and Statistics, it's recommended that students review these textbooks, materials, etc. as references during the classes. Students who miss 1/3 or more of classes will not be eligible for evaluation.  Characteristics of Class / Division in Learning  Active Learning  Theme  Goals  Instructor Professionally Experienced  Inderstand the objectives and the grading method, etc. of the course.  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations can derive (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  Ard Quarter  Ard Repetitive methods  Can derive repetitive methods which give solutions of problems.  Can derive recurrence relations which give solutions of problems.  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  5th Nonlinear equations  Can explain the Newton method, the bisection method and false position method.  6th Simultaneous equations 1  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  The Exercise on the contents of classes in the first	Outline	conduct computer-based experiments on simple models of natural and social phenomena that are difficul reproduce and observe, to identify the characteristics of the phenomenon and to deepen the understandi the contents. In classes, we will introduce the basic concepts and the latest examples of modeling and simulation in the first half, and practice the methods to solve their own challenges by programming and								
Notice	Style		Lectures In addition choosing. Exercises Students presentat	will be conducted in to what studer are supposed to will be evaluated ions.	d through handout hts learned in class build a system to d on assignment p	es. ses, they will per help students ir rogress and the	n their own o work produ	gradı ced d	uation research. uring the exercises, and	
Active Learning	Notice		Probabilit reference	y and Statistics, it's recommended that students r s during the classes. who miss 1/3 or more of classes will not be eligib			eview these	textb	nputer Programming, and books, materials, etc. as	
Course Plan  Theme  Soals  Introduction  Introduction  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Theme  Introduction  Inderstand time and space complexity of algorithms. Can derive (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  Theme  Introduction  Inderstand time and space complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  Introduction  Introduction  Intervel (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Introduction  Intr	Charact	eristics	of Class /	<u>Division in Le</u>	arning					
Theme  Introduction  Introduction  Introduction  Introduction  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Theme  Introduction  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Theme  Introduction  Inderstand time and space complexity of algorithms.  Can derive (time) complexity of some algorith Can derive recurrence relations which give solutions of problems.  Introduction  Introduction  Introduction  Inderstand time and space complexity of algorithms.  Can derive recurrence relations which give solutions of problems.  Introduction  Introduction  Introduction  Inderstand time and space complexity of algorithms.  Can derive recurrence relations which give solutions of problems.  In explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  In explain the Newton method, the bisection method and false position method.  In explain algorithms of Gaussian elimination and sweep out methods.  In explain algorithms of Jacobi, Gauss-Seide and SOR method.  In explain algorithms of Jacobi, Gauss-Seide and SOR method.  In explain algorithms of Jacobi, Gauss-Seide and SOR method.  In explain algorithms of classes in the first services on the contents of classes in the first services.	☑ Active	Learning		☐ Aided by IC	☐ Aided by ICT ☑ Applicable		Remote Cl	ass	☐ Instructor Professionally Experienced	
Theme  1st Introduction  Algorithms, calculations and recurrence relations  2nd Algorithms, calculations and recurrence relations  3rd Quarter  2nd Errors, loss of significance, data loss  5th Nonlinear equations  6th Simultaneous equations 1  5th Simultaneous equations 2  8th Eversice  1st Introduction  Understand time and space complexity of algorithms. Can derive (time) complexity of some algorith Can derive recurrence relations which give solutions of problems.  Can derive repetitive methods which give solutions of problems.  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  Can explain the Newton method, the bisection method and false position method.  Can explain algorithms of Gaussian elimination and sweep out methods.  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first	Course	Dlan								
1st Introduction Understand the objectives and the grading method, etc. of the course.  2nd Algorithms, calculations and recurrence relations Understand time and space complexity of algorithms. Can derive (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  3rd Repetitive methods Can derive repetitive methods which give solutions of problems.  4th Errors, loss of significance, data loss Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  5th Nonlinear equations Can explain the Newton method, the bisection method and false position method and sweep out methods.  7th Simultaneous equations 2 Can explain algorithms of Gaussian elimination and sweep out methods.  8th Exercise on the contents of classes in the first exercise on the contents of classes in the first	Course	Piaii	П	heme			Goals			
Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Can derive (time) complexity of some algorithms. Can derive recurrence relations which give solutions of problems.  Can derive repetitive methods which give solutions of problems.  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  Semeste  Nonlinear equations  Can explain the Newton method, the bisection method and false position method.  Can explain algorithms of Gaussian elimination and sweep out methods.  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first							Understand the objectives and the grading			
Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Algorithms, calculations and recurrence relations  Can derive (time) complexity of some algorith Can derive recurrence relations which give solutions of problems.  Can derive repetitive methods which give solutions of problems.  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  Sth Nonlinear equations  Can explain the Newton method, the bisection method, and false position method.  Can explain algorithms of Gaussian elimination and sweep out methods.  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first			1St I	ntroduction			method, etc. of the course.			
3rd Quarter  4th Errors, loss of significance, data loss  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  5th Nonlinear equations  Can explain the Newton method, the bisection method and false position method.  Can explain algorithms of Gaussian elimination and sweep out methods.  7th Simultaneous equations 2  Simultaneous equations 2  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first			2nd A	Algorithms, calcu	lations and recurre		algorithms. Can derive Can derive	(time recur	) complexity of some algorithms. rence relations which give	
3rd Quarter  4th Errors, loss of significance, data loss  Can explain the cause of phenomena that occ in numerical calculations, such as truncation errors, loss of significance, data loss  5th Nonlinear equations  Can explain the Newton method, the bisection method and false position method.  Can explain algorithms of Gaussian elimination and sweep out methods.  7th Simultaneous equations 2  Simultaneous equations 2  Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first			3rd F	Repetitive metho	ds		Can derive	repet	itive methods which give	
2nd Semeste r Sth Nonlinear equations Can explain the Newton method, the bisection method and false position method.  6th Simultaneous equations 1 Can explain algorithms of Gaussian elimination and sweep out methods.  7th Simultaneous equations 2 Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  8th Exercise on the contents of classes in the first				errors, loss of sig	nificance, data los	S	Can explain in numerica	the o	cause of phenomena that occurs	
6th Simultaneous equations 1 Can explain algorithms of Gaussian elimination and sweep out methods.  7th Simultaneous equations 2 Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  8th Exercise Exercise Can explain algorithms of Jacobi, Gauss-Seide and SOR method.			5th N	lonlinear equation	ons					
7th Simultaneous equations 2 Can explain algorithms of Jacobi, Gauss-Seide and SOR method.  Exercise on the contents of classes in the first				·			Can explain	algo	rithms of Gaussian elimination	
Exercise on the contents of classes in the first			7th S	Simultaneous equ	uations 2		Can explain	algo	rithms of Jacobi, Gauss-Seidel	
			8th E	exercise			Exercise on	the o		
9th Eigenvalue Can explain algorithms of Jacobi and the pow methods for obtaining eigenvalues of matrice			9th E	igenvalue			Can explain methods fo	algo r obta	rithms of Jacobi and the power aining eigenvalues of matrices.	
4th Quarter 10th Interpolation of functions Can explain linear interpolation, Newton forw linear interpolation and lagrange linear interpolation.			10th I	nterpolation of fo	unctions		Can explain linear interpolation, Newton forward linear interpolation and lagrange linear			
11th Method of least squares Can explain the method of least squares.			11th	Method of least s	squares		Can explain	the i	method of least squares.	

	12th	Numerical differentials	3	differentials with formulas.	and second order numerical forward, central and backward order numerical differential prolation.
	13th	Numerical integrals		Can calculate num trapezoidal and Si	nerical integrals with rectangle, impson's rule.
	14th	Initial value problem a of ordinary differential	and Boundary value problem equations	Runge-Kutta met problem. Can explain an alg	ithms of Euler, Heun's and hod for the Initial value gorithm of finite-dfference bundary value problem.
	15th	Review		Review the content of classes in the second half of the semester.	
	16th	Final exam			
Evaluation M	lethod and	Weight (%)			
		Examination	Examination Exercise		Total
Subtotal		70	30		100
Basic Proficienc	У	0	0 0		0
Specialized Prof	iciency	70	70 30		100
Cross Area Prof	iciency	0	0		0

Akashi Co	llege	Year	2023		Course Title	Graduation Thesis
Course Informat	ion					
Course Code	5515			Course Category	Specializ	ed / Compulsory
Class Format	Seminar			Credits	School C	redit: 9
Department	Electrical and Computer Engineering Electrical Engineering Course			Student Grade	5th	
Term	Year-round			Classes per Week	前期:6 後	 :期:12
Textbook and/or Teaching Materials						
Instructor	All faculty of	f the departm	ent			
Course Objective	es					
research. (5) Can summarize † discussion.						and use them for their own through a presentation to have a
Rubric	1-					
		deal Level		Standard Level		Unacceptable Level
Achievement 1	t c s a	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.		Can set a research their own by apply integrating basic k engineering, and f problems systema practically from a perspective.	ving and knowledge of find and solve tically 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 perspective.
Achievement 2	t a t	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	a	Can develop sabilities to con accurately exp	tinuously and	Can develop self-le abilities to continu things.	earning ously explore	Cannot develop self-learning abilities to continuously explorathings.
	t t	o the researc	panese and cal papers related h topic and use ately for their	Can read and undo Japanese and Eng papers related to t topic and use then own study.	lish technical the research	Cannot read Japanese and English technical papers relate to the research topic, or understand and use them for own research.
	r F t	esults obtained papers, and achemic them to other	e the research ed as technical ccurately convey s through a o have a deep	Can summarize th results obtained as papers, and conve others through a p to have a discussion	s technical by them to presentation	Cannot summarize the researce results obtained as technical papers, or convey them to others through a presentation to have a discussion.

## Assigned Department Objectives

Assigned Departi	Assigned Department Objectives											
Teaching Method	Teaching Method											
Outline  The aim of this class is to understand and analyze issues in their research topics based on the results of t learning up to the 4th year and the basic knowledge gained through Preliminaries to Graduation Thesis, a solve problems voluntarily and continuously by taking appropriate approach. Another aim is to convey research results accurately to others through papers and presentations.												
Style	Graduation Thesis class is conducted by several faculty members (laboratories). Students will work on document research, experiments, simulations, examinations, etc. under the guidance of their supervisor one of these laboratories.											
Notice	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 will permission from the supervisor.  Students who spend less than 202.5 hours on research will not be eligible for evaluation.											
Characteristics of	Characteristics of Class / Division in Learning											
☑ Active Learning		☑ Aided by ICT	☑ Applicable to Remote Class	☐ Instructor Professionally								

☑ Active Learning			☑ Aided by ICT	☐ Applicable to Remote Class		☐ Instructor Professionally Experienced					
Course	Plan										
		Т	heme		Goals						
		1st G	Graduation research		Can independently conduct document rese experiments, simulations, examination, et the supervisor.						
1st Semeste	1st	2nd S	ame as above		Same as above						
r	Quarter	3rd S	ame as above		Same as above						
		4th S	ame as above	Same as above							
		5th S	ame as above		Same as above						

		6th	Same as abo	ve		Same	as above			
		7th	Same as abo				as above			
		8th	Same as abo				as above			
		9th	Same as abo				Same as above			
		10th	Same as abo				Same as above			
		11th	Same as abo				as above			
	2nd	12th	Same as abo				as above			
	Quarter	13th	Same as abo				as above			
		14th	Same as abo				as above			
		15th	Same as abo			+	as above			
		16th	No final exan							
			Graduation re	esearch		exper	ndependently conduct of iments, simulations, expervisor.	document research, kamination, etc. under		
	2nd Prepar gradua		Preparation f	or the interim presentesearch	tation of the		reate posters and hand in presentation of the g			
	3rd Interio		Interim prese	entation of the gradua	ation research	Can p	resent the research re rs.	sults so far using		
	3rd Quarter 4th		Graduation research			exper	Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.			
	5th		Same as above			Same	as above			
		6th	Same as abo	ve		Same	as above			
and		7th	Same as abo	ve		Same	as above			
2nd Semeste		8th	Same as abo	ve		Same	as above			
r		9th	Same as abo	ve		Same	as above			
		10th	Writing gradu	lation thesis			Can compile the results of the graduation research and write a graduation thesis.			
		11th	Same as abo	ve		Same as above				
		12th	Same as abo	ve		Same as above				
	4th Quarter	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	esearch presentation		Can use slides to present the results of the graduation research orally and answer questions appropriately.				
	16th		No final exan	n						
Evaluati	aluation Method and		Weight (%)							
		Initiati		Interim report	Graduation the	esis	Graduation meeting for presenting research papers	Total		
Subtotal	Subtotal 10			20	50		20	100		
Basic Proficiency 0			0	0		0	0			
	Specialized 10			20	50		20	100		
Cross Are Proficienc	a	0		0	0		0	0		

А	.kashi Co	ollege	Year	2023		Cour		Power Electronics	
Course	Informa	tion		•					
Course Co	ode	5516			Course Categor	y Spe	cialize	d / Compulsory	
Class Forr	mat	Lecture			Credits	School Credit: 1			
Departme	ent	Electrica Electrica	I and Computer I Engineering Co	Engineering urse	Student Grade	5th			
Term			Semester		Classes per Wee	ek 2			
Textbook									
Teaching Instructor		HIROTA	Atsushi						
	Objectiv	_	710303111						
average v 2) The ab and think 3) The ab characteri	oltage, cu ility to und about wh	ırrents, and derstand th at measure	l power, and eva le advantages an les are necessarv.	luate them quantit d disadvantages of	atively. f using power ele	ctronics te	chnolo	various quantities such as gy, understand the problems, ems and reports, and to find the	
Rubric			T		1			1	
			Ideal Level	1.11	Standard Level			Unacceptable Level	
Achievem	ent 1		principles of v electronics cir calculate varid as average vo	cuits, and can ous quantities such oltage, currents, nd evaluate them	Understand the principles of var electronics circulate variou as average voltand power, and them quantitati	rious powe uits, and to is quantitie age, currei I to evaluat	s such nt,	Do not understand the operating principles of various power electronics circuits, and cannot calculate various quantities such as average voltage, current, and power, or evaluate them quantitatively	
Achievem	ent 2		disadvantages electronics tec understand th	ne issues, and can what measures	Understand the disadvantages of electronics tech understand the consider what n necessary	of using po nology, issues, an	wer d can	Do not understand the advantages and disadvantages of using power electronics technology, understand the issues, and cannot consider what measures are necessary	
Achievement 3			and materials problems and effectively fine characteristics electronics cir	organize reports through exercise reports, and can d the	Can voluntarily continuously or and materials the problems and re- find the charact electronics circu optimal range o	ganize repensed in the second contract the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the second contract in the se	ercise I can power eir	Cannot voluntarily and continuously organize reports and materials through exercise problems and reports, or find the characteristics of power electronics circuits and their optimal range of applications.	
Assigne	d Depar	tment Ol	ojectives						
Teachin	g Metho	od							
Outline		devices. applicati course v	The range of ap ons, and renewa vill explain and d	plications includes	consumer electro tion, making it ar nderstanding of th	onics devic	es.info	icity using semiconductor switch ormation field, electric power blogy for modern social life. This er electronics and make them	
Style				be conducted focusing on lectures, and explana					
Notice Charact	eristics (	Electric review vand thou short of submitted	Circuits and Circu vhat they have a roughly review th the passing scor ed.	uit Theory, and the lready learned inde ne material. Makeu e by a small margi or more of classes v	Fourier transforr ependently, in ado p exams, etc. ma n, and make a re	m, thereford the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	e it wi ie stud if stud assign	e past, such as the content of III be necessary for them to lying for this course. Take notes ents with outstanding efforts fall ments are required to be	
		<u> </u>			□ Applicable ±	Dometa C	lace	☐ Instructor Professionally	
☐ Active	Learning		☐ Aided by I		☑ Applicable to	, veniore (	.ia55	Experienced	
Ca	Dlass								
Course	riaN 		Theme		I.	Goals			
		1st	Power electronic	cs overview		Goals  Understand the position, importance, and situation of power electronics technology,			
		2nd	Semiconductor of	Semiconductor devices for electrical power (1)			actual examples.  Understand the current-controlled semiconduct switching devices used in power electronics equipment.		
2nd Semeste	3rd Quarter	3rd	Semiconductor of	devices for electrica	al nower (2)	Understan	d the v	voltage-controlled semiconductor s used in power electronics	
r	-	4th	Semiconductor of	devices for electrica	al power (2)	Understan switching o equipment	devices	new type semiconductor s used in power electronics	
		1	1			Understand the basics of DC-DC converters and the circuit operation of a buck DC-DC converter			
		5th	DC-DC converte	[.	Understan	operat	tion of a buck DC-DC converter.		

		7th	DC-DC converter	(3)		Understand th DC-DC conver		ion of a buck/boost		
		8th	Review			Understand the contents of the first half through exams or exercises				
		9th	DC-AC conversion	า (1)			e basics of DC- verter circuit us	AC conversion ing switch elements.		
		10th	DC-AC conversion	า (2)		Understand th	e control meth	od used for inverters.		
		11th	DC-AC conversion	า (3)		Understand va PWM inverters	arious types of is and three-pha	nverters, such as se inverters.		
	4th Quarter 13th		Rectifier circuits (	1)		Understand th rectifier circuit	ie basic circuit d	pperation of a		
			Rectifier circuits (	Rectifier circuits (2)			Understand the smoothing circuits used in rectifier circuits such as choke input type and capacitor input type smoothing circuits.			
			Rectifier circuits (	(3)		Understand th output voltage	e operation of control function	a rectifier circuit with on.		
		15th	Examples of power electronics applications			so far, and un	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			<u> </u>				
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		
Specialize Proficience	Specialized Proficiency 40		40	0	20	0	0	100		
Cross Are Proficience			0	0	0	0	0	0		

Α	kashi Co	llege	Year	2023			ourse Title	Energy Transmission and Distribution Engineering	
Course 1	 Informat	ion	L				i icic	Distribution Engineering	
Course Co		5517			Course Categor	ry	Specialize	ed / Compulsory	
Class Forr	nat	Lecture			Credits		School Credit: 1		
Departme	nt		l and Computer E l Engineering Cou		Student Grade		5th		
Term		Second S	Semester Classes per Week 2						
Textbook Teaching		Not man	datory. For refer	ence, Isao Iyoda, '	'Denryoku Hass	sei • Yus	sou Kouga	ıku", Ohm-sha	
Instructor		KONO Yo	oshiyuki						
1) Unders electrical ( 2) Unders 3) Unders liberalizati 4) Unders	energy. tand the a tand the w on / derec	ransmission 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					1				
			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	Achievement 3			e ways the system should be changes in the pe, such as power deregulation and mental issues in on.	Understand the electric power s in response to social landscap liberalization / global environn	systém change e, such deregul	should be s in the as power lation and	in response to changes in the social landscape, such as power	
Achievem	ent 4		Can handle sp building syster various situati	ecific methods for m controls in ons.	Understand the methods for bu controls.			Do not understand concrete methods for building system controls.	
Assigne	d Depart	ment Ob	jectives						
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 (h rtment, leveraging to gain knowledge a major role in the trol theories related ize and understand uch as microgrids)	nning support sy IVDC and FACTS this experience. about the struct energy supply s I 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 resea itsubishi E the electri In addition of suppl ower libera tal issues.		
Style		students to help d	understand. In a leepen their unde	addition, the class restanding of actua	will go on a facto Il machines. Hos	ory tou okawa	r for week is the liais		
Notice		The real case of v	factory tour for virtual remote fac	o aid students' und weeks 5 and 6 will ctory tour, it will be r more of classes v	take place at co included in ordi	nsecuti inal cla	ve times l 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	
Course	Dlan								
Course	rian		Thoma		1	Goala			
2nd	3rd		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 3rd Quarter		2nd	Transmission po	ransmission power (1)			Have studied transmission methods and vias well as track constants and transmission characteristics. Also, understand the recerenergy supply methods, such as microgrid hot topics.		
		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	Equipment manufacturing factory			ent manufacturing factory epen their understanding	
		7th	Power distribution	Power distribution			of the electrical the electrical distribution e, understand the types of he quality of electricity.	
		8th	Unit method, protect	tion of the power system	1	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	tes and failure calculations		Understand the failure calculation (symmetric coordinate system), which is one of the analytical calculations of the power system. Are more proficient in fault calculation through learning specific cases and exercises.		
		11th	Stability of the power	er system (1)		Understand the static a stability of the power sy	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	er system (3)	1	Understand the voltage and frequency stability of the power system.		
		14th	Power Systems and	the Environment		Have deepened their understanding on the classification of environmental problems in elect power systems, environmental problems caused by electromagnetic fields, and the global environment.		
	15th 16th		Next generation of p	power systems		Understand the challen of the next generation ( (smart grid), which sho increase in electric vehi	uld respond to the	
			Final exam		- I	Understand the content	from weeks 1 to 15.	
Evaluati	on Meth		d Weight (%)					
			Examination	Report	Fx	rercise	Total	
Subtotal			40	30	30		100	
	Basic Proficiency 0			0	0		0	
			40	30	30	)	100	
· ·			0	0	0		0	
Cross Area Proficiency								

А	kashi Co	ollege		Year	2023				Engineering of Energy Conversion
Course	Informa	tion							
Course Co		5518				Course Categor	ry		ed / Compulsory
Class Forr	mat	Lecture	l = !	Commercial		Credits		School Cr	redit: 1
Departme	ent	Electrical	l and l Engi	Computer Eineering Cou	ngineering rse	Student Grade	t Grade 5th		
Term		First Sem	neste	r		Classes per We	eek	2	
Textbook Teaching									
Instructor		HIROTA A	Atsus	shi					
Course	Objectiv	es							
1. The ab nature, so 2. The ab explain th 3. The ab generation	ility to und ociety and ility to und em to oth ility to und n, recogniz	derstand the the environ derstand the ers. derstand nev ze the effect	e posi iment e basi w me ts of	t, and consid ic mechanism ethods of pow technology of	ectrical energy in ler them. ns and equipment wer generation an on nature and soc	: of various poword d power storage iety, and explain	er gei e in ac n then	neration me ddition to ex n to others.	es, and its relationship with others, and substations, and sisting methods of power understanding of the above
Rubric									
			Ide	eal Level		Standard Level			Unacceptable Level
Achievem	ent 1		of am reland	electrical end nong various ationship wit	nd the positioning ergy in particular energies, and its th nature, society nment, and can hem.	Understand the electrical energamong various relationship wit and the envirous consider them.	gy in p ener th nat nmen	particular gies, and its ture, society	Do not understand the positioning of electrical energy in particular among various energies, and its relationship with nature, society and the environment, and cannot consider them.
Achievem	Achievement 2			rious power ethods and s	nd equipment of	Understand the basic mechanisms and equipment of various power generation methods and substations, and can explain them to others.		uipment of ration itions, and	Do not understand the basic mechanisms and equipment of various power generation methods and substations.
Achievem	ent 3		ger sto por rec tec	orage, in add wer generati cognize the e chnology on	thods and power ition to existing on methods, and effects of nature and n accurately	Understand new power generation methods and methods for power storage, in addition to the existing power generation methods, and recognize the effects of technology on nature and society, and can explain them to others.			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.
			thi cor	nk specificall	derstand s 1 to 3, and can ly of the optimal a power supply	Thoroughly understand evaluation items 1 to 3, and can think of the optimal combination as a power supply systems.			Do not thoroughly understand the evaluation items 1 to 3, and cannot think of the optimal combination as a power supply system.
Assigne	d Depar	tment Ob	jecti						
Teachin	g Metho								
Outline		thermal, technolog	and i gies a	nuclear powe and systems	er. Furthermore, s such as solar ene	students will also rgy, wind power	o und r, and	erstand clea I fuel cells.	pment, such as hydroelectric, an new power generation
Style		Liaison: I			in a lecture style,	in line with the	textb	OUK.	
Notice		lan impor	tant (	course for a	s course, it's impo equiring an electri more of classes v	cian license.			sics and chemistry. This is also
Charact	eristics o	of Class /	Divi	ision in Le	arning	T			
□ Active	Learning			Aided by IC	Т	☑ Applicable to	o Ren	note Class	☐ Instructor Professionally Experienced
Course	Plan								
		<u> </u>	Them	ne			Goals	 S	
1st		1st	An ov	verview of elersion engine	ectrical energy an eering	d energy	d energy Can explain the p modern society, i environmental pr		position of electrical energy in its relationship with roblems, and the conversion of energy into electrical energy.
	1st Quarter	2nd (	Over	view of hydro	pelectric power ge	eneration	Can hydr	explain the odynamics	power generation methods and of hydroelectric power plants, and droelectric power plants.
		3rd I	Hydro	opower facili	ties, pumping pov	ver	Understand the various main hydroelectric plan and their functions, and can explain an outline the hydroelectric power plant.		

		4th		wheel and attached tors and electrical e	equipment, turbine equipment	Systematically understand the types of water vehicles, their characteristics, and their mechanisms to generate electricity. Can compare and explain the characteristics of various types of water vehicles in terms of efficiency and specific speed. Can also explain the mechanisms and functions of speed regulators and excitation devices.					
		5th	Overvi	ew of thermal powe	er generation		understand t nuclear power mechanisms	the thermodynam he mechanisms o er generation, and of steam power o er generation.	f thermal and		
		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	Can explain the principles, features, and challenges of solar and solar thermal power generation systems as a representative renewable energy.			
		13th	Wind p	ower				Can explain the principles, characteristics, and challenges of wind power generation.			
		14th	Fuel ce	ll power generation	1		Can explain t	explain the principles, types, features, and			
		15th	Power	storage			Can explain the technologies involved in power storage using secondary batteries and superconductivity.				
		16th	Final e								
Evaluati	on Meth	nod and \	Weight	(%)							
	Examination ubtotal 40		n	Exercise, Report	Mutual Evaluations between students	Effort	:S	Portfolio	Total		
Subtotal				40	0	20		0	100		
Basic Prof	asic Proficiency 0			0	0	0		0	0		
Specialize Proficiency				40	0	20		0	100		
Cross Area Proficiency								0	0		

A	kashi Co	olleae	Year	2023			ourse	Experiments of Electrical		
	Informa						Title	Engineering II		
Course Co		5519			Course Categor	ν	Specializ	red / Compulsory		
Class Forr		Experime	ent		Credits	,	School Credit: 2			
Departme	nt	Electrica	and Computer I	Engineering	Student Grade		5th			
Term		First Sen	l Engineering Co nester	urse			4			
Textbook		1 1136 3611	i cocci		Toldsses per 110	·CIK				
Teaching		ENOMOT	-0 P ::							
Instructor	Objectiv	ENOMOT	О куијі							
(1) Can m (2) Can e (3) Can d (4) Can w	neasure an	d verify the e behavior he specifica	e characteristics of an amplifier ci ations of a syster	rcuit using a transi	istor. conditions giver	n by the	e experin	nent supervisor, and present them.		
Rubric			7-1111		Charada and Lassad			I I a a a a septembra I a const		
			Ideal Level	the characteristics	Standard Level			Unacceptable Level		
Achievem	ent 1		of a transistor results.	and examine the	Can measure the of a transistor.	ne chai	racteristic	Cannot measure the characteristics of a transistor.		
Achievem	ent 2		experiment or an op amp in amplifier circu transistor, and	d propose and s, etc. utilizing	Can examine the experiment on an amplifier cirtransistor.	the bel	havior of	Do not know the behavior and basic characteristics of an amplifier circuit using a transistor.		
Achievem	ent 3		satisfies the countries the experimen	of a system that onditions given by at supervisor, and nem in an easy-to-	Can determine specifications o satisfies the country the experiment	f a sys	s given b	Cannot determine the specifications of a system that satisfies the conditions given.		
Achievem	ent 4		Can work in a cooperating a solve the issue	nd sharing roles to	Can work in a clissues assigned	group o	on the	Cannot work in a group.		
Assigne	d Depar	tment Ob	jectives							
Teachin	g Metho	d								
Outline		respect f It also ai	tronic engineering or others and his	ig that they acquire gh cooperativeness presentation skills	ed previously. Th s and leadership	ne aim by con	of this cla	ledge and techniques of electrical ass is to foster engineers with experiments in groups. ary for scientific reports through		
Style		Students They will Each gro	will design and work in groups up should volun	implement system of four to five, and tarily think and pre	s in PBL format, I give presentation pare/pre-study f	focusing the for the	ng on am d submit group wo	plifier circuits using transistors. reports as appropriate. ork.		
Notice		Students the due Precaution taken mand cleaning	will not receive date.  ons regarding the ay be needed, so the lab and putt	a passing grade ui e experiments will	nless they give a be given during nts must pay atto oment.	ll speci the firs ention	fied present tweek. To everyt	entations and submit reports by The content of subjects already hing from taking roll-call to		
Charact	eristics o	of Class /	Division in Le	earning						
☑ Active	Learning		☐ Aided by I	СТ	☑ Applicable to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positive to a positiv	o Remo	ote Class	☐ Instructor Professionally Experienced		
C	Dia									
Course	ridN		 Theme			Goals				
		1ct		ng experiment and	concept	Unders engine purpos	eering exp se of this scuss the	e various precautions related to periments and the content and experiment course.		
1 ot			Presentation of o	concept and develo		Can pr	resent ea kchange (	ch team's concept. opinions on the specifications of one developed.		
1st Semeste r	1st Quarter	3rd	Development of	specifications 2		Can ag group.		ne specifications of the system as a		
		4th	Development of	specifications 3		Can su specifi	ıbmit a p cations d	lan on how to meet the etermined previously.		
				election and planning of elements and review opposal for sharing of roles			Can select the parts necessary to achieve the			
		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	plementation 3	Can complete the imple as determined by each	mentation of the system group.	
		13th	System design and im	plementation 4	Can evaluate the completed system and subm proposals for improvement		
		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			30	35	35	100	
Basic Prof	Basic Proficiency 0			0	0	0	
Specialized Proficiency 30			30	35	35	100	
Cross Area Proficiency			0	0	0	0	

А	.kashi Co	ollege		Year	2023				ourse Title	Probability and Statistics	
Course	Informa	tion	•								
Course Co	ode	5520				Course (	Category		Specializ	ed / Elective	
Class Forr	mat	Lecture				Credits			Academi	c Credit: 2	
Departme	ent			omputer E eering Cou	ingineering Irse	Student	Grade		5th		
Term		First Sen									
Textbook						·	•				
Teaching		HAMADA	\ Vulsibi	ino							
Instructor	Objectiv		A YUKIIII	10							
[1] Can o [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	probab probab f statist ates.	ility and c ility distrib	an calculate the oution and can n calculate bas	calculate the	of an eve amount	ent. of sa	mples.		
Rubric											
			_	l Level		Standar				Unacceptable Level	
Achievem	ent 1		varia corre	ance, cova	calculate mean, riance, and efficient and gram.	covariar	culate mean ice, and contract ont and contract on.	correl	ation	Cannot calculate mean, variance, covariance, and correlation coefficient and create a histogram.	
Achievem	ent 2		prob prob dete	ability and ability of a	calculate the disconditional an event, and independence ectly.	and con event, a	culate the ditional p nd deterr dence of	robal mine	oility óf a the	Cannot calculate the probability and conditional probability of an event, and determine the independence of the event.	
Achievem	ent 3		prob bino distr	ability of a	calculate the an event under bution, Poisson nd normal	an even distribut	ian calculate the probability of n event under binomial istribution, Poisson istribution, and normal			Cannot calculate the probability of an event under binomial distribution, Poisson distribution, and normal distribution.	
Achievem	ent 4		popu calcu varia	ılations ar	mples and ad can correctly ble mean, samp unbiased	ole populati sample	Understand samples and populations and can calculate sample mean, sample variance, and unbiased variance.		alculate variance	Do not understand samples and populations and cannot calculate sample mean, sample variance, and unbiased variance.	
Achievem	ent 5		estin	accurately nation and nation.	make point interval		Can make point estimation and interval estimation.			Cannot make point estimation and interval estimation.	
Achievem	ent 6		рори	accurately ulation me ulation var	an and the		Can test the population mean and the population variance.			Cannot test the population mean and the population variance.	
Assigne	d Depar	tment Ob	ojectiv	es							
Teachin	g Metho	od									
Outline		laround i	ıs, expl	ain what h	bilities and stat nappened based n the basics of p	d on the patt	ern, and	estin	nate the	various coincidence that occurs whole from the part. In this	
Style		Each we								the content you will learn for the	
Notice	ovistics	guarante reports. assignme calculus. Students	eed in comment of the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There was the There wa	ontent will amount to 90 hours of study in total. These hours include the learning tinglesses and the standard self-study time required for review and completing assignm will be two assignments, and both of them must be submitted by the due date. One volves programming in C. Students should have a prior knowledge of linear algebra solve the questions or exercise problems yourself and score it against the answer. niss 1/3 or more of classes will not be eligible for evaluation.					and completing assignment  I by the due date. One of the  I dege of linear algebra and  It against the answer.		
		of Class /								☐ Instructor Professionally	
☐ Active	Learning			ided by IC	T	☑ Appli	cable to F	Remo	te Class	Experienced	
Course	Plan										
	Then						G	oals			
15	1st	Course	guidance	and 1-dimension	onal data 1/2	Understand the objectives and gradin the course. Can create a frequency di table and a histogram of the data.			create a frequency distribution		
		2nd	1-dime	ensional da	ata 2 of 2		Ca	Can calculate mean, median, mode, varian standard deviation of the data.			
1st Semeste r	1st Quarter	3rd	2-dime	ensional da	nta		Ca	an ca	Iculate th	ne correlation coefficient and of 2-dimensional data.	
		4th	Discret	e probabil	ity			Can explain the meaning and nature of trials, events, and probability.			
		5th	Conditi	Conditional probability and Bayes' theorem			Ca	Can calculate conditional probability and determine whether two events are independent. 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 varia	nce of probability	variables	Can calculate variables.	Can calculate mean and variance of probability variables.				
		8th	Midterm examir It is given durin								
		9th	Binomial distrib	ution 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 d normal distri	distribution. Also, can een binomial bution.			
		11th	Sample distribu	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	orem		Can explain no theorem.	Can explain normal population and central limit theorem.				
	Quarter	13th	Various probabi	lity distributions		Can explain th distribution.	e chi-squared o	distribution and t-			
		14th	Estimation and	test 1 of 2		mean when th	ne population va o, can explain w	ion of population ariance is known and what we claim by			
		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	Task	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal	8	0	20	0	0	0	0	100			
Basic Proficienc	ency 0 0 0 0		0	0	0	0					
Specialize Proficienc			0	0	0	100					
Cross Are Proficienc		0 0 0				0	0	0			

А	kashi Co	ollege	Yea	ar	2023			Course Title	Information Theory
Course :	Informa	tion	•				'		
Course Co	ode	5521				Course Categor	γ	Specialize	ed / Elective
Class Forr	mat	Lecture				Credits		School C	redit: 1
Departme	ent		ıl and Compu ıl Engineering			Student Grade		5th	
Term		First Ser	mester			Classes per We	ek	2	
Textbook Teaching									
Instructor		NAKAI Y	'uichi						
Course	Objectiv	es							
(2) Under (3) Under limits.	stand the stand the	definition of types of co	of various sou oding and the	urces con	iditions that coding	d the meaning o	f enti	ropy in each	n source, and can derive it. e average code length and its
(5) What	is a comm	iunication o	channel and t	heir	significance. types. In addition, econd theorem.	understand hov	v the	y can be ex	pressed.
Rubric			1			1			T
			Ideal Leve		v ovplain how the	Standard Level			Unacceptable Level
Achievem	ent 1		amount o	f info	y explain how the ormation is ow its validity is	Can explain how information is dits validity is gu	define	d and how	Cannot explain how the amount of information is defined and how its validity is guaranteed.
Achievem	ent 2		various so	ource nean ce, a	ne definition of es of information ing of entropy in and hence can rately.	Understand the various sources and the meanir each source, ar derive it.	of in	formation entropy in	Do not understand the definition of various sources of information and the meaning of entropy in each source.
Achievem	ent 3		and the co	ondit eet, i ode	he types of coding tions that coding and can derive the length and its ely.	Understand the types of coding and the conditions that coding		hat coding ` n derive th	coding and the conditions that
Achievem	ent 4		Can accur Shannon's significan	s firs	y explain It theorem and its	Can explain Sha theorem and its			Cannot explain Shannon's first theorem and its significance.
Achievem	ent 5		a commu	nicat s, ar	y explain what is ion channel and nd how they can	Can explain what is a communication channel and their types, and how they can be expressed.			Cannot explain what is a communication channel and their types, and how they can be expressed.
Achievem	ent 6		Can accur significand second th	ce of	y explain the Shannon's m.	Can explain the significance of Shannon's second theorem.			Cannot explain the significance of Shannon's second theorem.
Assigne	d Depar	tment Ol	ojectives						
Teachin	g Metho	d							
Outline		this lecti transmis informat	ure, we will e ssion in comr tion and cont	expla nuni inue	iin the knowledge r cation systems. Th	necessary to ach le first half of the eorem of Shanno	ieve e cou on. Sł	"speedy" ar rse begins v nannon's se	indispensable in modern life. In and "accurate" information with the quantification of cond theorem will be taught in
Style		Classes	will be held in	n a l hem	ecture style using s in order to test the	slides. Students eir understandin	will b a.	e given pra	ctice questions for assignments,
Notice		Classes	will be given and these cor	on t		tudents have the	e kno	wledge of p	probability and statistics, so
Charact	eristics o		Division i						
□ Active		,	□ Aided			☑ Applicable to	o Ren	note Class	☐ Instructor Professionally Experienced
Co 1	Dlass								
Course	rian 		Thoma			1	Goals	-	
			Theme Model of a c	omn	nunication system		Can syste	explain the	model of a communication assumed in information theory
1st 1st	2nd	Memoryless	sour	rces and entropy		Can of	explain the nemoryless ides clues to	simplest source of information, source, and the entropy that o the internal structure of the	
Semeste r		3rd	Markov sour	larkov source and entropy			Can explain the Markov source, which is clos- real-world information sources, and derive its entropy.		
		4th	What is codi	is coding			Can define coding and explain some condition that coding must meet. Can explain the define of average coding length and its limit for instance.		

		5th	Shannon's source	coding theorem		Can explain Sh and its significa		e coding theorem		
		6th	Huffman coding				Can construct the Huffman code as a coding scheme that can configure compact coding.			
		7th	Communication c	hannel			Can explain the definition of communication channels and how they are represented.			
		8th	Midterm exam							
		9th	Mutual informatio	n		Can explain wh defined by the communication	Can explain what is mutual information, which is defined by the information transmitted over the communication channel.			
		10th	Various communi	cation channels		Can explain no longitudinal, ar channels.	iseless, determ nd degraded co	ninistic, and ommunication		
		11th	Communication c	hannel capacity			ty derived fron	communication n consideration of		
	2nd Quarter	12th	Improved commu	ınication channel	reliability	Can explain ho transmission of channels.	Can explain how to improve reliability in the transmission of information over communication channels.			
		13th	Error rates and ru	ıles for judging		Can explain the communication		ıcing the error rate in		
		14th	Shannon's noisy-	channel coding th	neorem	Can explain Shannon's noisy-channel coding theorem for a binary symmetric channel.				
		15th	Channel coding				Can explain the basic concept of some channel coding schemes.			
		16th	Final exam							
Evaluati	ion Met	hod and	Weight (%)							
	E:	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	Subtotal 10		0	0	0	0	0	100		
Basic Proficienc	Basic Proficiency 0		0	0	0	0	0	0		
	Specialized Proficiency		0	0	0	0	0	100		
	Cross Area Proficiency 0 0 0				0	0	0			

А	.kashi Co	ollege	Year	2023		_		Fundamentals of Communication Systems
Course	Informa	tion						
Course Co	ode	5522			Course Categor	ry	Specialize	ed / Elective
Class Forr	mat	Lecture			Credits		Academic	Credit: 2
Departme	ent		and Computer Engineering Co.		Student Grade		5th	
Term		First Sem	ester		Classes per We	ek	2	
Textbook								
Teaching Instructor								
Course		'es						
The goal i 1) Unders and can a 2) Can de	is to achie stand the i inalyze the esign a sim	ve the follow mathematica em. iple signal pi	rocessing systen		ion system.			rstand communication systems
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievement 1			basic signal pr necessary to u	preparation and rocessing theory understand n systems and	Understand the preparation and processing the understand con systems and ca	d basic ory nec nmunic	signal essary to cation	Do not understand the mathematical preparation and basic signal processing theory necessary to understand communication systems.
Achievement 2				design a simple ing system in a n system.	Can design a si processing syst communication	teṁ in a	a	Cannot design a simple signal processing system in a communication system.
Achievem	ent 3		Can correctly required number reports.	write up the per of assignment	Can write up th number of assig	ne requ gnment	ired t reports.	Cannot write up the required number of assignment reports.
Assigne	d Depar	tment Obj						
Teachin	g Metho	od						
Outline		In this co	communication	systems. This cou	rse is paired with	h Comr	munication	ration systems, and simple n Systems, which will be held in n Systems is recommended.
Style		demodula sure to w	ation systems, a					ogue modulation and Self-study is important, so be
Notice		guarante	ed in classes and	d the standard self	-study time requ	uired fo	r pre-stuc	include the learning time ly / review, and completing igible for a passing grade.
Charact	eristics	of Class /	Division in Le	earning				
□ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan							
		1	Theme			Goals		
		1st c	and the positioni out. Discuss on esser	ure of the commun ng of this class wil ntial mathematical munication system ns.	l be carried fundamentals			ut communication systems. Can of modulation.
		2nd [	Digital and analo Discuss on the clarocessing versu	gue signal process haracteristics of die s analogue signal	ing gital signal processing.	Can ex briefly.		ut digital and analogue processing
		3rd [	Signal Wave Ana Discuss on the re Using Fourier ser	llysis epresentation of signies and Fourier tra	giidi waaves j	Can ex using f	press per Fourier se	iodic and non-periodic signals ries and Fourier transforms.
1st Semeste r	1st Quarter	4th t	Continuous and o Discuss on the re ime system suc	discrete time syste elationship betwee h as an electrical c stem that deals wit	ms n a continuous- ircuit and a	Can ex system		tinuous and discrete time
		Sth [	inear time invai Discuss on the b	riant system asic properties of s ime invariants and	youchio ouch	Can ex	plain the ution ope	linearity, time invariant and rations of discrete time systems.
		6th s	requency respo Discuss on the fr	nse of the system equency character ffectiveness. Discu ency response usir	istics of the ss on the	Can ex charac	oplain and teristics o	derive the frequency f discrete time systems.
		7th F	Midterm exercise Review the contexercises to gain	e ent learned so far t a better understa	hrough nding.	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 role of each modulation system. Can explain amplitude modulation system briefly.		
		10th	Amplitude modulation systems (2) Explain amplitude modulation and i demodulation.	ts	Can explain the n	nodulation and demodulation itude 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 sampling theorem and pulse modulation.		
		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	e marks.	
Evaluati	on Meth	od and \	Weight (%)				
			Examination	Report		Total	
Subtotal			70	30		100	
Basic Prof	iciency		0	0		0	
Specialize	d Proficier	ncy	70	30		100	
Cross Area Proficiency			0	0		0	

А	Akashi Co	ollege	Year	2023		Course Title	Communication System	
Course								
Course Co		5523			Course Categor	y Special	ized / Elective	
Class For	mat	Lecture			Credits	School	Credit: 1	
Departme	ent		l and Computer E l Engineering Cou		Student Grade	5th		
Term			Semester		Classes per We	eek 2		
Textbook Teaching								
Instructor								
	Objectiv	'es						
1) Unders 2) Unders 3) Unders	stand anal	ogue and di	nd fastures of va	es: tion systems and t rious digital modul ıltiplex communica	ation evetome		rum modulation.	
Rubric			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		Can accurately and digital cor systems and t			systems and		
Achievem	nent 2		components.  Can accurately principles and various digital	features of	Can explain the features of vari	principles and ous digital	· ·	
Achievem	nent 3		communication principles and	/ explain multiplex n systems, the features of um modulation.	<u> </u>	e principles and tiplex systems and	d Cannot explain the principles and features of multiplex communication systems and	
Assiane	d Depar	tment Ob			, sp. sau opeca u	544.440111	TELESCOPE AND THOUGHOUTH	
	g Metho							
Outline		In this le	cture, we will dis	scuss analogue and	d digital commur	nication system	ns. The goal is to understand the	
Style		In addition	on to analogue communications, a	ing information us ommunications, the and the textbook we ample pre-study a	e focus will be o	n the modulat	ion and demodulation systems of this subject calls for self-study, be	
Notice		previous Students	semester (howe who miss 1/3 o	ver, it is not the cor r more of classes v	onditions for this	course).	tems" class, which started in the grade.	
	Learning	of Class /	Division in Le		☑ Applicable to a positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the positive for the	o Remote Clas	s	
_								
Course	Plan							
		1st		review and review the to Communication S		Goals  Can provide a Fundamentals	n overview of what one learned in of Communication Systems.	
		2nd	The basics of the Explain the stoch	stochastic proces astic process that the handling of no	s plays an	Can explain the process.	ne basic concepts of the stochastic	
		3rd	Noise characteris Explain the beha system when the	stics of amplitude r vior of an amplitude ere is noise.	modulation de modulation	Can explain the demodulation modulation sy	ne signal power-to-noise ratio of signals by each amplitude estem	
	3rd Quarter	4th	Noise characteris Explain the beha system when the	stics of frequency r vior of a frequency ere is noise.	modulation / modulation	Can explain the demodulation system.	ne signal power-to-noise ratio of signals in a frequency modulation	
2nd Semeste r		5th	Baseband digital Explain digital m on one of them,	modulation odulation and give baseband digital n	an explanation nodulation.	Can explain the basics of baseband digital modulation.		
		6th	Noise characteris Explain the chara noise.	stics of digital mod acteristics of white	ulation Gaussian	Can explain si	gnal errors due to noise.	
		7th	Midterm exercise Review the conte exercises to gain	e ent learned so far t a better understa	through nding.	Can complete	the assignments given.	
		8th	Midterm exam			Obtain 60 or l	nigher points.	
	4th	9th	Passband Digital Explain signal sp receivers.	Modulation (1) ace analysis and c	orrelation	communication	he characteristics of a ns system and explain how the ceiver determines the signal.	
	Quarter	10th	Passband Digital	Modulation (2)				

			D				
		11th	Passband Digital Modulation (3) Explain Quadrature Amplitude Mod	ulation (QAM).	Can explain QAM system.		
		12th	Phase Shift Keying (PSK) system Explain the PSK system.		Can explain PSK system.		
		13th	"Orthogonal Frequency Division Multiplexing (OFDM) system Explain the OFDM system.		Can explain OFD	۷ system.	
		14th	Multiplex communication system Explain frequency division multiple: time division multiplexing (TDM).	xing (FDM) and	Can explain multi	plexing.	
		15th	Spread Spectrum Modulation Explain the spread modulation syst series modulation (DSM) using PN	em with direct coding.	Can explain sprea	ad spectrum modulation.	
		16th	Final exam		Score 60 or more	e marks.	
Evaluati	on Metho	od and V	Veight (%)				
			Examination	Report		Total	
Subtotal			70 30			100	
Basic Prof	iciency		0 0			0	
Specialize	d Proficien	су	70	30		100	
Cross Area	a Proficienc	СУ	0	0		0	

						Course			
A	kashi Co	ollege	Year	2023		Title	Information Network		
	<u>Informa</u>	1			1				
Course Co		5524			Course Categor		zed / Elective		
Class For		Lecture	and Computer E	- - - - - - - - - - - - - - - - - - -	Credits		Credit: 1		
Departme	ent	Electrical	Engineering Cou	urse	Student Grade				
Term	17	First Sem	ester		Classes per We	ek 2			
Textbook Teaching		指定しない	•						
Instructor		INOUE Ka	azunari						
ネットワー 1) ネット 2) LANを 3) IPパク 4) TCPと	、ワークの暦 注構成する技 「ットとルー ∶UDPによる	基礎を理解する を史、TCP/IP を術 -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					1				
			理想的な到達レ		標準的な到達レイ		未到達レベルの目安		
評価項目1				歴史とTCP/IP通信 分に理解できる。	ネットワークのE プロトコルを理角		i 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			LANを構築する 方式を十分に理	トポロジーと伝送  解できる。	LANを構築するト 方式を理解できる		LANを構築するトポロジーと伝送 方式を理解できない。		
評価項目3			ディング、IPバ ングを十分に理		イーサネットフレ ディング、IPパク ングを理解できる	ァットとルーティ る。	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の制作 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	UDP/TCPの制御   とアプリケーショ  。	方式、ポート番号 3ンを理解できる 	号 UDP/TCPの制御方式、ポート番号 とアプリケーションを理解できない。		
  評価項目5			ネットワークに潜む脅威、セキュ リティと暗号化技術を十分に理解 できる。 ネットワークに潜 リティと暗号化技 。 。						
Assigne	d Depar	tment Ob	jectives				·		
Teachin	g Metho	d							
Outline		情報ネット ロジー、ま する。この	トワークの基礎を含 らよびOSI参照とT D科目では、ルーク	学習する。アナログ CP/IPを理解し、各 タほかネットワーク	言号のディジタル(種通信プロトコル) 機器開発の実務経験	化と伝送方式にた を学習する。ネッ 検を有する教員な	O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が、講義形式と演習形式で授業を行う		
Style		LAN構築と から第15	とインターネット、さらにセキュリティについて、ネッ 5週まで講義形式と演習形式で授業を行う。			トワーク技術の碁	基礎を理解することを目標とし、第1週		
Notice		3年授業「 合格の対象	情報工学概論」で 象としない欠席条例	でのネットワークの知 性(割合) 1/3以上の					
Charact	eristics o	of Class /	Division in Le	earning					
□ Active	Learning		☑ Aided by I	CT	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced		
Course	Dlan								
Course	i iaii	I <sub>1</sub>	Гһете		T	Goals			
		1ct =		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		
		l2nd l⁻	アナログ信号のデ て説明する。ディ -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。	ルインターフェ Ι	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		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	401	支術概要について			OSI参照モデル、 技術概要につい	TCP/IPを構成する各層(レイヤ)の C理解できる。		
1 = 1	Quarter	5th l	送信側と受信側で _2/L3/L4/L7処理	のカプセル化と非力 の流れについて説明	プセル化、 する。		でのカプセル化と非カプセル化、 理の流れについて理解できる。		
1st Semeste r		6th	ハて説明する。	など各種ネットワー 術、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 技術、スイッチ/ルータについて理解で		
		7th	イーサネットフレ	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	レームフォーマット、ヘッダー、ペイ ラの役割とMACアドレスについて理解		
		8th <sup>r</sup>	中間試験			中間試験			
	2nd	9th     7	Pパケットフォー スフルアドレスに ブルと経路制御に	マット、アドレスの ついて説明する。ル ついて説明する。	設定方法、クラ ーティングテー	スフルアドレス	ーマット、アドレスの設定方法、クラ について理解できる。ルーティングテ 卸について理解できる。		
	Quarter	10th I	:Pアドレス、クラ		定義とネットワ	IPアドレス、ク <sup>:</sup>	ラスフル/クラスレスの定義とネットワ 計算について理解できる。		

		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	コネクションレス型・コネクションレス型プロトコル について理解できる。ポート番号とL7への受け渡しに ついて理解できる。		
			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打 、ネットワークセキュリティと暗号化打明する。			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 22/07/37 3	る。	Zスネットワークについて理解でき 「hings)と非IPネットワークについ	
		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			0 0			0	
専門的能力			80	20		100	
分野横断的能	力		0	0		0	

Ak	ashi Co	llege		Year	2023			Course Title	Control Engineering II
Course Ir	nformat	ion	1		1			1100	1
Course Cod		5525				Course Categor	γ	Specializ	ed / Elective
Class Form	at	Lecture				Credits School Credit: 1			redit: 1
Departmen	t	Electrica	l and	l Computer E Jineering Cou	ingineering	Student Grade 5th			
Term		First Ser			1130	Classes per We	ek	2	
Textbook a						,			
Teaching M	aterials	FNOMO		:					
Instructor Course O	hiostiv	ENOMOT	IO R	yuji					
The objecti 1. Can deri 2. Can drav function fro 3. Can dete 4. Can find 5. Can desi	ves of thi ve the tra w a polygom the poermine sta a stabiliti	s course a ansient res onal line a lygonal lin ability crite y margin. ontrol syste	pons pprox e app eria o ems	e of a systen ximation of a proximation (	of a Bode plot. systems by using t	g from a transfe	r fund	ction. Conv	ersely, can derive a transfer riterion methods.
Rubric									
			Id	leal Level		Standard Level			Unacceptable Level
Achieveme	Achievement 1			an derive the esponse of a se le inverse La	transient system by using place transform.	Know that the response of a be derived by Laplace transfo performing the deformation su fraction decom square complet	pasic susing form afform ch as positi	system car the inverse fter nula s partial	
Achievement 2				an both draw oproximation om a transfe erive a transf polygonal lin a Bode plot	Can either draw a polygonal line approximation of a Bode plot from a transfer function, or derive a transfer function from a polygonal line approximation of a Bode plot.			line approximation of a Bode plot from a transfer function, or derive a transfer function from	
Achieveme	nt 3		ar th	an determine n open loop s le Routh and literion metho	Can determine an open loop sy either the Rout stability criterio	ysten h or I	n usinģ Hurwitz	Do not know the Routh nor the Hurwitz stability criterion method.	
Achieveme	nt 4		in	an find a stat dicate the ap the frequenc	pility margin or to oplicable location cy response.	Can explain the stability margir	e defii	nition of a	Cannot find a stability margin.
Achieveme	nt 5		m	Can design PID control systems with both the step response method and limit sensitivity method.		Can design PID control systems with either the step response method or the limit sensitivity method.		respónse	Cannot design PID control system
Achieveme	nt 6		m th ec	an derive the lodel of a sys le solution of quation and a oproximation	Can derive a di model of a syst solution of a di equation or a d approximation.	em u fferer liffere	using a ntial	Cannot derive the discrete time model of a system.	
Assigned			oject	tives					
Teaching	Metho								
Outline		refrigera controls	tors, follov netho	have a auto wing Control	matic control func Engineering I, suc	tion. In this co ch as the Routh	urse, and F	students v Hurwitz sta	ding cars, air conditioners, and vill learn the basics of classical bility criterion methods and the response of control systems by
They will learn how to determine the transcontrol designs. In addition, as an overall explain and demonstrate how to verify the In almost every class, after the content of content.						ummary of the p response of a co	revio ntrol	ous study of system bas	n control engineering, we will sed on a simulation.
Notice		should a	ctual	lly think and Also, becaus	solve exercise pro	blems assigned ny assignments	as ap and e	propriate t exercises, r	d periodic exams. Therefore, they hemselves, to get used to doing nake efforts to finish them quickly. grade.
<u>Characte</u>	ristics c	f Class /	Div	<u>ision in Le</u>	arning	1			-
☐ Active L	earning.			Aided by IO	Т	☑ Applicable to	o Ren	note Class	☐ Instructor Professionally Experienced
Course P	lan								
Course F	idii		Ther	me			Goals	s	
1st Semeste 1	.st )uarter	Theme  1st Introduction					Understand the outline of this course and know the content of the study and objectives.		

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

Akashi College		ege	Year	2023		Course Title	Solid State Physics C	
Course Inforr	natio	on	•					
Course Code		5526			Course Category	Specializ	ed / Elective	
Class Format		Lecture	10		Credits	School C	redit: 1	
Department		Electrical En	d Computer Er gineering Cour		Student Grade	5th		
Term		First Semest	ter		Classes per Weel	2		
Textbook and/o Teaching Materia								
Instructor		OHMUKAI M	asato					
Course Object								
<ul><li>(1) Learn about</li><li>(2) Learn about</li><li>(3) Learn the principle</li></ul>	crysta	al structure	•					
Rubric								
			deal Level		Standard Level		Unacceptable Level	
Achievement 1			Can discuss on nature of light o		Can discuss on the nature of light qu		Cannot discuss on the particle nature of light.	
Achievement 2			Can classify the tructure in det		Can show a typic crystal structure.	al example of	Cannot show a typical example of crystal structure.	
Achievement 3		C re	Can explain the ay diffraction of	e principle of X- quantitatively.	Understand an or ray diffraction.	utline about X-	Do not have knowledge about X-ray diffraction.	
Assigned Department Objectives								
Teaching Met	hod	r						
Outline		In Solid Stat and B did no arrangemen	ot cover. In pa	re will learn about rticular, this cours	the important thise will cover the p	ngs that year hysical structu	4 courses Solid State Physics A res involved in the atomic	
Style			t of classes wi		ecture style to exp	lain the outlin	e. Then, each student will self-	
Notice		It's crucial to	o make active o pre-study. St	efforts to underst	and during class a get a perfect scor vill not be eligible	s new concepte in quizzes w	t will keep coming up. It's ill be given assignment reports. Irade.	
Characteristic	s of	•			20 20 2	. o. a passg <u>s</u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
☐ Active Learni			Aided by IC	<u> </u>	☑ Applicable to I	Remote Class	☐ Instructor Professionally Experienced	
Carrage Dlag								
Course Plan		Tho	amo.			oals		
	1		heme hermal radiation			Understand the background and content of the Planck hypothesis in thermal radiation.		
	2			Compton effects	C	an give examp	ole in the quantitative discussion of c and Compton effects, and	
		ard Ato	mic spectrum	and law of equipa	unartition of U	nderstand the nderstand the	particle nature of light. structure of atomic spectrum and	
	F	ene	rgy in gases				tion of energy in gases.	
1st Quarte	er   4	th Kine	etic theory of g	jases			theory behind the behavior of tals and semiconductors.	
	5	ith Crys	stal structure a	and Bravais lattice	e co	nderstand the oncept of lattic rystals.	structure of crystals using the e, and learn about the types of	
	6	th Exa	mples of cryst	al lattice and fillin			e fill rate for a typical crystal.	
1ct	7	th Rev	riew			eview the over better unders	rall content learned so far to gain	
1st Semeste	8	th Mid	term exam			core 60 or mo		
r	9	th The	basics of X-ra	y diffraction	U	nderstand the	Bragg condition quantitatively, sis of X-ray diffraction.	
	1	.0th App	olication of X-ra	ay diffraction	Le		t caution is necessary in the	
	1	1th Imp	perfection of cr	ystals	Le		amples of point and line defects in	
2nd Quarte	1 1	2th Latt	tice vibration o	f one kind of ator	Le	earn quantitat	vely about the vibration of a kinds of atoms.	
Qualt		.3th Latt	tice vibration o	f two kinds of ato			vely about the vibration of a kinds of atoms.	
	1	4th the	ory of specific	heat of solids			ories of specific heat of solids.	
	1	.5th Rev	riew			rganize the co	ntent learned so far to gain a nding.	
	1	6th Fina	al exam			core 60 or mo		
Evaluation Mo	-				[5]	COLE OU OL 1110	IC IIIdIKS.	

	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

Akashi College				Year	2023			ourse Title	Application of Electronics
Course	Informat	tion							
Course Co	ode	5527				Course Catego	ry	Specialize	d / Elective
Class Forr	mat	Lecture				Credits		School Cr	edit: 1
Departme	ent			d Computer En gineering Cour		Student Grade		5th	
Term		First Sen	neste	er		Classes per We	ek	2	
Textbook Teaching									
Instructor		ENOMOT	O R	vuii					
	Objective		<u> </u>	,j.					
(1) Under (2) Under (3) Under coagulation	stand the stand bloo stand the on, biocher	typical kind od cell analy measureme nistry, and	sis r ent p imm	methods, in pa principles and nunity, etc.	laboratory tests) articular the princ characteristics of systems and com	iple and charact spectroscopic d	eristics etectio	of flow cy	ce. /tometers. gies used in testing of
Rubric									
			Ic	deal Level		Standard Level			Unacceptable Level
Achievem	Achievement 1			ccurately underplical kinds of aboratory test urpose and sign	clinical tests s) and their	Understand the clinical tests (la and their purposignificance.	abórato	ry tests)	Do not understand the typical kinds of clinical tests (laboratory tests) and their purpose and significance.
Achievement 2			Ac ce pa ch	ccurately unde ell analysis me articular the pr naracteristics o ytometers	erstand blood thods, in rinciple and	Understand blo methods, in pa principle and cl flow cytometer	rticular haracte	the ´	Do not understand blood cell analysis methods, in particular the principle and characteristics of flow cytometers
Achievement 3			m ch de te bi	ccurately under neasurement p naracteristics of etection technisting of coagui iochemistry, alto.	rinciples and of spectroscopic ologies used in Ilation,	Understand the principles and of spectroscopic of technologies us coagulation, bid immunity, etc.	charact letectionsed in t	eristics of on esting of	Do not understand the measurement principles and characteristics of spectroscopic detection technologies used in testing of coagulation, biochemistry, and immunity, etc.
			cli	ccurately unde inical testing e ystems and co echnologies.		Understand typ testing equipm component tec	ent sys	stems and	Do not understand typical clinical testing equipment systems and component technologies.
Assigne	d Depart	tment Ob	jec	tives					
Teachin	g Metho	d d							
Outline	<u>,</u>	Clinical to advances outlines o etc. appl immunol biologica	s, teo of la ied to ogica I tec	chnological inr boratory tests to these tests. al, genetic me chnologies and	novation and furth for analysis of blook It will also cover asurement, etc.,	ner developmen ood, urine, etc., the basic princi and the optical, iments used for	t are po and the ples of electro these	rogressing ne basics o measuren onic, fluid, measurem	ne. As modern medicine . This class will explain the of the measurement technologies, nent in the fields of biochemical, chemical, and molecular tents. In addition, students will ss.
Style		The goal from wee	is to						rill be taught in a lecture style
Notice		Knowled Students	ge o	of biology is pro o miss 1/3 or	eferred. more of classes w	vill not be eligibl	e for a	passing g	rade.
Charact	eristics o	of Class /	Diν	ision in Lea	arning				
☐ Active	Learning			Aided by IC	Γ	☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally Experienced
Course	Plan								
			Ther	me			Goals		
15		1st	Intro	oduction to cli	nical testing (1)		manag as the Unders	gement, di overall ou	role and type of testing in health agnosis, and treatment, as well tline of clinical testing. to interpret inspection results racy.
2nd			Intro	oduction to clir	nical testing (2)		Same	as above	
1st Semeste r		3rd	Bioc	hemical testin	g (1)		bioche and th techno Unders equipn	emical test be outline oblogies. stand the ment and t	significance of the items in ing and the method of testing, of biochemical testing outline of biochemical testing the principles of measurement y applied to the equipment.
		4th	Bioc	hemical testin	g (2)			as above	

		5th	Hematology testing (1)		for blood cells an technologies. Understand the hatechnologies used	verview of testing technologies d coagulation testing bydrodynamics and engineering d in flow cytometers used in cell red blood cells and white blood	
		6th	Hematology Testing (2)		Same as above		
		7th	General examination (urine, and fe	eces)	Understand an overview of urinary qualitative testing, urinary sediment testing technologies and their measuring equipment. Also understand the outline of fecal occult blood testing.		
		8th	Midterm exam				
		9th	Company tour		clinical testing eq seeing the activit actual testing equ	pany that develops and produces uipment and reagents, and by ies of a company involved in uipment and clinical testing, the pen their understanding of	
		10th	Immunology Testing (1)		Understand the overview of immunological testing technologies. Understand the general description of chemiluminescent immunoassay measuring devices and the principles of measurement and detection technologies that are applied to them.		
		11th	Immunology Testing (2)		Same as above		
	2nd Quarter	12th	Genetic Testing (1)		Understand an overview of genetic testing technologies. Understand the outline of PCR instruments, sequencers and other genetic test instruments, and the measurement principles and detection technologies applied to them.		
		13th	Genetic Testing (2)		Same as above		
		14th	Microbiology Testing		technologies. Understand the to microbiology test	est equipment used for ing and the measurement tection technologies applied to it.	
		15th	Topics for clinical tests			nt topics in clinical testing. previous lectures.	
		16th	Final exam		Final exam		
Evaluation Method and \			Weight (%)				
			Examination Present			Total	
Subtotal			80	20		100	
Basic Profic	iency		0	0		0	
Specialized	Proficier	су	80	20		100	
Cross Area	Proficien	су	0	0 0			

А	Akashi College		Year	r	2023			Course Title	Image Engineering
Course :	Informa	tion						1100	
Course Co		5528				Course Categor	У	Specializ	ed / Elective
Class Forr	mat	Lecture				Credits		Academi	c Credit: 2
Departme	ent		and Comput Engineering			Student Grade		5th	
Term			Semester			Classes per Week 2			
Textbook									
Teaching Instructor		NAKAI Y	uichi						
Course		1	<u></u>						
(2) Under (3) Under (4) Under	stand the stand the	nature of ir outline and	nage informa characteristi	tior cs c	ications of image en and understand volumerstand volumerstand volumers of processing and improcessing and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and improve and im	vhy image encod image encoding.	ling 1	technology	is needed.
Rubric			Ideal Level	<u> </u>		Standard Level			Unacceptable Level
Achievem	ent 1		Can fully examples of	xpla of a	ain the scope and pplications of technologies.	Can explain the examples of applimage encoding	plica	tions of	Cannot explain the scope and examples of applications of image encoding technologies.
Achievem	Achievement 2			d th n ar y in	ne nature of image nd can accurately nage encoding are needed .	Understand the information and why image enco	nate d car	ure of image n explain g	<del>                                     </del>
Achievem	Achievement 3			icall	y explain the aracteristics of of image	Can explain the characteristics of image encod	of va		Cannot explain the outline and
Achievem	Achievement 4			se d	y explain the of basic image d image encoding	Can explain the basic image pro image encoding	ocess	sing and	Cannot explain the practical use of basic image processing and image encoding technologies.
Assigne	d Depar	tment Ob	jectives						
Teachin	g Metho								
Outline		image co	mpression) and then givin	are a g le	a must. In this lect ectures on various	ure, we will be e image encoding t	expla tech	ining the na nologies. In	r data volume (image encoding or ature of the image information addition, we will ensure the ex computing software, etc.
Style		Slides wi	ll be mainly u to four assign orm specified	ısed	to explain the core	ntent in class. Als se of half a seme	so, s ster	ince this is a . Assignmer	a learning-credit subject, there will its will be about creating programs can used for the assignments in
Notice		guarante assignme course of involve p	ed in classes ent reports. A f half a semes programming.	and s th ster it's	d the standard self	-study time requedit subject, ther nust be submitte experiences in p	iired e wi ed to oroar	for pre-stud II be three to earn the co amming (in	include the learning time dy / review, and completing o four assignments over the redits. Since the assignments any language).
Charact	eristics (	of Class /	Division in	l Le	earning				
□ Active	Learning		☑ Aided b	y IC	СТ	☑ Applicable to	Rei	mote Class	☐ Instructor Professionally Experienced
Course	Dlan								
Course	r Ial I	I	Theme				Goal	ls	
				f im	age information		Digit have wha	tized image e stronger in t image cor	information is generally said to mage correlation. Can explain relation is and what happens relation is stronger.
		2nd	Image manip	ulat	tion by Octave (1)		Und		v to use Python to accomplish the
		3rd	Image manip	ulat	tion by Octave (2)		assi	gnment.	to do the processing given as an
2nd Semeste	3rd Quarter	4th	Entropy enco	ding	g (1)		whic	explain the th is often u oding.	concept of entropy encoding, sed together with various types of
r	_	5th	Entropy enco	ding	g (2)		enco	briefly expl odings as ty oding.	ain Huffman and arithmetic pical techniques for entropy
		6th	Predictive end	codi	ing (1)		Can	explain the	principle of predictive encoding, image encoding.
		7th	Predictive end	codi	ing (2)		enco	explain the oding, and of shortcoming	characteristics of predictive an explain how to compensate for gs.
		8th	Midterm exar	n					

		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		methods such	Can explain outline of other image encoding methods such as block truncation encoding, progressive encoding, etc.				
		15th	Video encoding			Can explain vabriefly.	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	70 cy 0		0	0	0	30	0	100			
Basic Proficienc			0	0	0	0	0	0			
Specialize Proficienc	ized ncy 70		0	0	0	30	0	100			
Cross Are Proficienc		)	0	0	0	0	0	0			

Akashi College			Year 2023		Course Title				
Course	Informa	tion	•	·		•			
Course Co	Code 5529 Course Cate					Specializ	zed / Elective		
Class Forr	mat	その他			Credits	School (	Credit: 1		
Departme	ent		and Computer I Engineering Co		Student Grade	5th	5th		
Term		Year-roun	d		Classes per Week	( 1			
Textbook Teaching									
Instructor	<u> </u>	OHMUKAI	Masato						
	Objectiv								
As the fac	culty mem	ber in charge	e will be respon	xternal organizatio sible for the exami sh to earn credits fo	nation of the credi	of electrical a t approval for	nd electronic engineering. relevant qualifications, students		
Rubric			I		In. 1 11 1				
			Ideal Level	avamination of	Standard Level		Unacceptable Level		
Achievement 1			Can pass the examination of Class 3 electrical chief engineer or the AI/DD comprehensive class of telecommunication construction personnel competently.		Can pass the examination of Class 3 electrical chief engineer or the AI/DD comprehensive class of telecommunication construction personnel.		Cannot pass the examination of Class 3 electrical chief engineer or the AI/DD comprehensive class of telecommunication construction personnel.		
Assigne	d Depar	tment Obj	ectives		•		·		
	g Metho								
Outline		an externa	al organization of the designate	as results of the st	udy in the field of ation exams, they	electrical and will be award	of the certification exams held by electronic engineering. If students ed one credit by completing certain		
Style			s will be given.	,					
Notice		after the v	winter holidays mitted within th	r proof of passing i and up to the date his period, the cred g classes that will n	specified by the A lit will not be appro	Academic Affa oved. Keep th	nd the application period shall be irs Office. If a certifying document e deadline.		
Charact	eristics o	of Class / I	Division in Le	earning					
☑ Active	Learning		☐ Aided by I	CT					
Course				<u></u>	☐ Applicable to I	Remote Class	☐ Instructor Professionally Experienced		
Theme					☑ Applicable to I	Remote Class			
Course	Plan	Т	heme	CI	1 ''	Remote Class oals			
Course	Plan	1 - S	elf-studv		G		Experienced		
<u></u>	Plan	1st S	elf-study elf-study for ce ame as above	ertification exams (	G no lecture)	oals	Experienced		
Course	Plan	1st S 2nd S	elf-study elf-study for ce ame as above ame as above ame as above		Gno lecture) C	oals an learn volur an learn volur	Experienced  ntarily.		
		1st SS SS 2nd SS SS 3rd SS SS SS SS SS SS SS SS SS SS SS SS SS	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above		no lecture) C.	oals an learn volur an learn volur an learn volur	Experienced  ntarily.  ntarily.		
Course	Plan 1st Quarter	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above		no lecture) C.	oals an learn volur an learn volur	ntarily.  ntarily.  ntarily.		
Course	1st	1st	elf-study elf-study for ce ame as above ame as above		Gno lecture) C.C.C.C.C.C.C.	oals an learn volur an learn volur an learn volur an learn volur	ntarily.  ntarily.  ntarily.  ntarily.  ntarily.		
Course	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above		Gno lecture) C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	oals an learn volur an learn volur an learn volur an learn volur an learn volur	ntarily.  ntarily.  ntarily.  ntarily.  ntarily.  ntarily.  ntarily.		
	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture) C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	oals an learn volur an learn volur an learn volur an learn volur	ntarily.  ntarily.  ntarily.  ntarily.  ntarily.  ntarily.  ntarily.		
1st	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture) Carrotte	oals an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Carrow Ca	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st	1st Quarter	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Co Co Co Co Co Co Co Co Co Co Co Co Co	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st Semeste r	1st	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Co Co Co Co Co Co Co Co Co Co Co Co Co	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st	1st Quarter	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Co Co Co Co Co Co Co Co Co Co Co Co Co	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		
1st	1st Quarter	1st	elf-study elf-study for ce ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above ame as above	ertification exams (	Gno lecture)  Co Co Co Co Co Co Co Co Co Co Co Co Co	oals an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur an learn volur	Experienced  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.  Intarily.		

		1 -4	Same as above			G I			
	3rd Quarter	1st	Same as above			Can learn voluntarily.			
		2nd	Same as above Same as above			Can learn voluntarily.			
		3rd	Same as above Same as above			Can learn voluntarily.			
		4th	Same as above Same as above			Can learn volu	Can learn voluntarily.		
		5th	Same as above Same as above			Can learn volu	Can learn voluntarily.		
		6th	Same as above Same as above	Same as above			ntarily.		
		7th	Same as above Same as above			Can learn voluntarily.			
2nd Semeste		8th	No midterm exam	1					
r		9th	Same as above Same as above			Can learn voluntarily.			
		10th	Same as above Same as above			Can learn voluntarily.			
		11th	Same as above Same as above			Can learn voluntarily.			
	4th	12th	Same as above Same as above			Can learn voluntarily.			
	Quarter	13th	Same as above Same as above	same as above same as above same as above same as above			Can learn voluntarily.		
		14th	Same as above Same as above				Can learn voluntarily.		
		15th	Same as above Same as above				Can learn voluntarily.		
		16th	No final exam						
Evaluati	ion Met	hod and \	Weight (%)						
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal			0	0	0	0	100	100	
Basic Proficienc	y o		0	0	0	0	0	0	
Specialize Proficienc	d y 0		0	0	0	0	100	100	
Cross Area Proficiency			0	0	0	0	0	0	

Akashi College			Year 2023			Course Title	Qualifications in Electric and Electronic Engineering II		
Course	Informa	tion							
Course C	ode	5530		Course Catego	ry Specialized / Elective				
Class For	mat	その他				School	Credit: 1		
Departme	ent		ıl and Computer I ıl Engineering Cou		Student Grade	5th			
Term		Year-rou	und				k 1		
Textbook Teaching	and/or Materials								
Instructo	r	ОНМИКА	AI Masato						
Course	Objectiv	'es							
As the fa	culty mem	ber in char	ge will be respons	xternal organization sible for the exam In to earn credits f	ination of the cre	ts of electrical a edit approval fo	and electronic engineering. r relevant qualifications, students		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	nent 1			examination of ss 2 electric chief petently.	Can pass the e Class 1 or Class engineer.	examination of SS 2 electric chief Cannot pass the examination of Class 1 or Class 2 electric chief engineer.			
Assigne	ed Depar	tment Ob	ojectives						
Teachir	ng Metho								
Outline		an exter	nal organization and of the designate	as results of the st	tudy in the field of ation exams, the	of electrical and www.will be award	of the certification exams held by lelectronic engineering. If students led one credit by completing certain		
Style		No lesso	ons will be given.						
Notice		after the	e winter holidays Ibmitted within th	proof of passing and up to the date one of the cree of the cree of classes that will r	e specified by the	e Academic Affa proved. Keep th	and the application period shall be airs Office. If a certifying document ne deadline. le.		
Charact	teristics		Division in Le			<u> </u>			
	Learning	•	☐ Aided by I		☑ Applicable t	o Remote Class	☐ Instructor Professionally		
7.00.70				<u> </u>			Experienced		
Course	Plan								
			Theme			Goals			
		1st	Self-study	rtification exams (	no lecture)	Can learn voluntarily.			
		2nd	Same as above Same as above	remedian exams (	no receare)	Can learn voluntarily.			
		3rd	Same as above Same as above			Can learn voluntarily.			
	1st	4th	Same as above Same as above			Can learn volu	ntarily.		
	Quarter	5th	Same as above Same as above			Can learn voluntarily.			
		6th	Same as above Same as above			Can learn voluntarily.			
		7th	Same as above Same as above			Can learn voluntarily.			
1st		8th	No midterm exa	m					
Semeste r		9th	Same as above			Can learn voluntarily.			
		10th	Same as above Same as above Same as above			Can learn voluntarily.			
		11th	Same as above Same as above			Can learn voluntarily.			
	2nd	12th	Same as above Same as above			Can learn voluntarily.			
	Quarter	13th	Same as above Same as above			Can learn voluntarily.			
		14th	Same as above Same as above			Can learn voluntarily.			
		15th	Same as above Same as above			Can learn voluntarily.			
		16th	No final exam			·			
						Can learn voluntarily.			
2nd Semeste	3rd	1st	Same as above Same as above			Can learn volu	ntarily.		

		3rd	Same as above Same as above			Can learn volu	Can learn voluntarily.			
		4th	Same as above Same as above			Can learn volu	Can learn voluntarily.			
		5th	Same as above Same as above Same as above Same as above Same as above Same as above			Can learn volu	Can learn voluntarily.			
		6th				Can learn volu	Can learn voluntarily.			
		7th				Can learn volu	Can learn voluntarily.			
		8th	No midterm exam	า						
		9th	Same as above Same as above	Same as above			Can learn voluntarily.			
		10th	Same as above Same as above			Can learn volu	Can learn voluntarily.			
		11th	Same as above Same as above			Can learn voluntarily.				
	4th Quarter	12th	Same as above Same as above				Can learn voluntarily.			
		13th	Same as above Same as above Same as above Same as above			Can learn voluntarily.				
		14th				Can learn voluntarily.				
		15th	Same as above Same as above				Can learn voluntarily.			
		16th	No final exam							
Evaluati	on Me	Method and Weight (%)								
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	ubtotal 0		0	0	0	0	100	100		
Basic Proficience			0	0	0	0	0	0		
Specialize Proficience	d y	0	0	0	0	0	100	100		
Cross Area Proficiency 0		0	0	0	0	0	0	0		