Akashi College	Electrical and Computer Engineering Computer Engineering Course	Year	2023

Department Goals

Cοι	ırs					Class Hours per Week	Divisio
e Cat		Course Title	Cours	Credit Type	Credit s	1st Year2nd Year3rd Year4th Year5th YearInst1st2nd1st2nd1st2nd1st2nd	
ory	eg		Code	Type	5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ng
Ge ne ral	Co m pu Iso ry	Japanese IV	5401	Acade mic Credit	2	ZEN OH Mas hi	
Ge ne ral	Co m pu Iso ry	Physical Education IV- 1	5402	School Credit	1	GOT H Tak uki, BAY HI Yuk	iy KO
Ge ne ral	Co m pu Iso ry	Physical Education IV- 2	5403	School Credit	1	GOT H Tak uki, EDA Tad ori	ny 1A
Ge ne ral	Co m pu Iso ry	English IV A	5404	School Credit	1	AKI TO Hirc	
Ge ne ral	Co m pu Iso ry	English IV B	5405	School Credit	1	MOI MOI Nan	0
Ge ne ral	Co m pu Iso ry	Advanced English I	5406	School Credit	1	HEP RT John C.	
Ge ne ral	Co m pu Iso ry	Advanced English I	5407	School Credit	1	HER RT John C.	
Ge ne ral	El ec tiv e	Chinese-1	5408	School Credit	1	ARI WA Kei	(A
Ge ne ral	El ec tiv e	Chinese-2	5409	School Credit	1	ARI WA Kei	(A
Ge ne ral	El ec tiv e	German-1	5410	School Credit	1	YOK TA Kaz a	
Ge ne ral	El ec tiv e	German-2	5411	School Credit	1	YOK TA Kaz a	
Ge ne ral	El ec tiv e	French-1	5412	School Credit	1	FUJ OTC Ton nari	0
Ge ne ral	El ec tiv e	French-2	5413	School Credit	1	FUJ OTC Tom nari	
Ge ne ral	El ec tiv e	Mathematical Concepts	5414	School Credit	1	MAT UMI Atus	YA
Ge ne ral	El ec tiv e	Overseas Training I	5415	School Credit	1	All facuor of ti dep mer	art

Ge ne ral	Co m pu Iso ry	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 Iso ry	Co+workⅢA	5418	School Credit	1	All faculty
Sp eci ali ze d	Co m pu Iso ry	Co+workⅢB	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 Iso 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 Iso ry	Discrete Mathematics A	5423	School Credit	1	HAMA DA Yukihir o
Sp eci ali ze d	Co m pu Iso ry	Discrete Mathematics B	5424	School Credit	1	HAMA DA Yukihir o
Sp eci ali ze d	Co m pu Iso ry	Computer Architecture	5425	Acade mic Credit	2	NOMU RA Hayat o
Sp eci ali ze d	Co m pu Iso ry	Computer Programming III A	5426	School Credit	1	HIRAN O Masat sugu
Sp eci ali ze d	Co m pu Iso ry	Computer Programming III B	5427	School Credit	1	HIRAN O Masat sugu
Sp eci ali ze d	Co m pu Iso ry	Operating System	5428	School Credit	1	NOMU RA Hayat o
Sp eci ali ze d	Co m pu Iso ry	Data Structures and Algorithms	5429	Acade mic Credit	2	HAMA DA Yukihir o
Sp eci ali ze d	Co m pu Iso ry	Experiments of Computer Engineering I A	5430	School Credit	2	TERAS AWA Shinic hi,INO UE Kazun ari,HI RANO Masat sugu, NOMU RA Hayat o,

Sp eci ali ze d	Co m pu Iso ry	Experiments of Computer Engineering I B	5431	School Credit	2	NAKAI Yuichi, TERAS AWA Shinic hi,ENO MOTO Ryuji
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training A	5432	School Credit	1	All faculty of the depart ment
Sp eci ali ze d	El ec tiv e	Off-Campus Practical Training B	5433	School Credit	2	All faculty of the depart ment
Sp eci ali ze d	El ec tiv e	Electromagnetics II A	5434	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	El ec tiv e	Electromagnetics II B	5435	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	El ec tiv e	Applied Mathematics A	5436	School Credit	2	OGAS AWAR A Hiromi chi
Sp eci ali ze d	El ec tiv e	Applied Mathematics B	5437	School Credit	2	OGAS AWAR A Hiromi chi
Sp eci ali ze d	El ec tiv e	Applied Physics II	5438	School Credit	1	NAKA NISHI Hirosh i
Sp eci ali ze d	El ec tiv e	Transient Analysis on Electric Circuits	5439	School Credit	1	SUYA MA Taikei
Sp eci ali ze d	El ec tiv e	Electronic Circuits II	5440	School Credit	1	OHMU KAI Masat o
Sp eci ali ze d	El ec tiv e	Control Engineering I	5441	Acade mic Credit	2	ENOM OTO Ryuji
Ge ne ral	Co m pu Iso 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
Ge ne ral	El ec tiv e	Sports Science II	5508	School Credit	1	2	GOTO H Takay uki,IS HIDA Masa mi
Ge ne ral	El ec tiv e	ΤΟΕΙСΙ	5509	School Credit	1		INOUE Hideto shi
Ge ne ral	El ec tiv e	ТОЕІСІ	5510	School Credit	2		INOUE Hideto shi
Ge ne ral	El ec tiv e	ТОЕІСШ	5511	School Credit	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 Iso ry	Computer Simulation	5514	School Credit	1		OHMU KAI Masat o
Sp eci ali ze d	Co m pu Iso ry	Graduation Thesis	5515	School Credit	9	6 12	All faculty of the depart ment
Sp eci ali ze d	Co m pu Iso ry	Probability and Statistics	5516	Acade mic Credit	2		HAMA DA Yukihir o
Sp eci ali ze d	Co m pu Iso ry	Information Theory	5517	School Credit	1		NAKAI Yuichi
Sp eci ali ze d	Co m pu Iso ry	Compiler	5518	School Credit	1		MIURA Kinya
Sp eci ali ze d	Co m pu Iso ry	Software Engineering	5519	School Credit	1		TSUC HIDA Takay uki
Sp eci ali ze d	Co m pu Iso ry	Information Network	5520	School Credit	1		INOUE Kazun ari
Sp eci ali ze d	Co m pu Iso ry	Advanced Information Networks	5521	School Credit	1		INOUE Kazun ari
Sp eci ali ze d	Co m pu Iso ry	Database	5522	School Credit	1		TSUC HIDA Takay uki
Sp eci ali ze d	Co m	Artificial Intelligence	5523	School Credit	1		MIURA Kinya

Sp eci ali ze d	Co m pu Iso ry	Experiments of Computer Engineering II	5524	School Credit	2	HAMA DA Yukihir o	
Sp eci ali ze d	El ec tiv e	Fundamentals of Communication Systems	5525	Acade mic Credit	2		
Sp eci ali ze d	El ec tiv e	Communication System	5526	School Credit	1		
Sp eci ali ze d	El ec tiv e	Control Engineering I	5527	School Credit	1	ENOM OTO Ryuji	
Sp eci ali ze d	El ec tiv e	Application of Electronics	5528	School Credit	1	ENOM OTO Ryuji	
Sp eci ali ze d	El ec tiv e	Image Engineering	5529	Acade mic Credit	2	NAKAI Yuichi	
Sp eci ali ze d	El ec tiv e	Qualifications in Computer Engineering I	5530	School Credit	1	NAKAI Yuichi	
Sp eci ali ze d	El ec tiv e	Qualifications in Computer Engineering II	5531	School Credit	1	NAKAI Yuichi	

Д	Akashi College			2023		Course Title	Japanese IV		
Course	Information	tion							
Course Co	ode	5401			Course Category	y General ,	/ Compulsory		
Class For	mat	Lecture			Credits	Academi	c Credit: 2		
Departme	ent	Compute	and Computer E r Engineering Co		Student Grade	4th			
Term		First Sem	ester		Classes per Wee	Neek 2			
Textbook Teaching		野田尚史・	森口稔著:日本語	語を話すトレーニン	ッグ(ひつじ書房)				
Instructor	r	ZENTOH	Masashi						
Course	Objectiv	es							
2)作成し	た報告・論	経理した情報な 文の内容お。 処に基づいて	kび自分の思いや	が効果的に伝わる。 考えを、的確に口頭	ように論理の構成や風 頭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			-				- I		
			理想的な到達レ		標準的な到達レベ	いの目安	未到達レベルの目安		
評価項目1			やすく、論理的	〔見・報告を分かり 〕・実証的、レイア こレジメに作成でき	明確な結論・意見 やすく、論理的・ に作成できる。		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			動作・スピード 優れたプレゼン 、質問にも的確 きる。	・わかりやすさに /テーションができ 証に答えることがで	準備されたプレゼ 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 ヨンとなっている。		
評価項目3			テーマに即した 、簡潔・論理的	:意味のある発言が 〕・実証的にできる	テーマに合った、 だが、冗長となっ		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 Depar	tment Ob	jectives						
Teachin	ig Metho								
Outline		での諸問匙	D設問に従った学生 夏を取り上げ、日本 ことを目標とする。	本語の表現と日本人	こ対する質疑応答を中 しの発想の特徴につい	P心に授業を進行 ヽて、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			学生のプレゼン		枚のレジメを使用)。	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 事前学習を	1当する学習内容 r含め、発表と質疑	である。	なり組み、国語表現に		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 of		Division in Le						
🗆 Active	Learning		□ Aided by I	ст	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 		
Course	Plan								
Course		-	heme			Goals			
		1st J	オリエンテーショ 受業の概要	ン		レジメの作成の作	た、プレゼン注意、それぞれの評価		
			発表予定の立案		基準が理解できる。				
		2nd	問い合わせをする トレーニング1の 上記問題点の考察	発表と質疑応答	5	方・5W2H・タ	>テーマを理解し、必要な技術(話し マイミングなど)を中心としたレジメ ジンテーションすることができる。		
		3rd	ら願いをする トレーニング3の 上記問題点の考察	発表と質疑応答 と整理		・タイミング・話	-ーマを理解し、必要な技術(気配り 5し方など)を中心としたレジメを作 -ーションすることができる。		
	1st	4th	きう・断る・謝る トレーニング5の 上記問題点の考察	発表と質疑応答		り・タイミング・	5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	スピーチをする トレーニング9の 上記問題点の考察			しい内容・話した	- ーマを理解し、必要な技術(ふさわ 5)を中心としたレジメを作成し、プ ッすることができる。		
r				 技術(図表・引用)			5、引用の仕方を適切に行える		
		7th	っさしい日本語	の発表と質疑応答		(語選択・異文化	5」のテーマを理解し、必要な技術 5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	会議で発言する(1 トレーニング10 上記問題点の考察	の発表と質疑応答		見整理・決定の仕	のテーマを理解し、必要な技術(意 たち・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		会議で発言する(2 トレーニング13 上記問題点の考察	2)+プレゼンテーミ の発表と質疑応答 と整理やさしい日2	+==	し、必要な技術	ニ加え、「プレゼンテーション」のテーマを理解 公要な技術(材料選択・資料作成など)を中心と シジメを作成し、プレゼンテーションすることが 5。		

		10th	プレゼンテーション トレーニング130 上記問題点の考察の	の発表と質疑応答		「プレゼンテーシ 術(材料選択・資料 作成し、プレゼン	料作成など)を	を理解し、必要な技 中心としたレジメを ことができる。	
	11th			の発表と質疑応答 と整理		「研究発表」のテード・質疑応答など」)を中心とした	必要な技術(スライ レジメを作成し、プ る。	
		12th	研究発表(2)+面接 トレーニング150 上記問題点の考察。	ま(1) の発表と質疑応答 と整理		「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150 上記問題点の考察の	の発表と質疑応答 と整理		「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	アカデミックライ音 の構成)	ティングの基礎(研究計画書・論文	研究計画の作成の仕方、論文の書き方の基本を理解す ることができる			
		15th	レポート・論文の(論証・例示)	作成の仕方(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	on Me	ethod and V	Weight (%)						
		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	
專門的能力 0		0	0	0	0	0	0	0	
分野横断的	能力	0	0	0	0	0	0	0	

Akashi College		ollege	Year	2023		Course Title	Physical Education IV-1	
Course I	Informat	tion						
Course Co		5402			Course Category	General /	' Compulsory	
Class Forr		Skill			Credits	School C	• •	
Departme		Electrical	and Computer E		Student Grade	4th		
Term		First Sem	<u> </u>		Classes per Wee	ek 2		
Textbook Teaching					<u> </u>			
Instructor	•	GOTOH T	akayuki,KOBAYA	ASHI Yuki				
Course	Obiectiv	es						
 Particip Can tak take the n 	ate in clas	ses to impro	oorts safely. Also	vn health and phys o, recognizes the s	sical strength. Also ignificance of colla	o, have some le aborating and c	evel of self-discipline. cooperating with the team and can	
Rubric			Ideal Level		Standard Level			
							Unacceptable Level Do not participate in classes. Do	
Achievem	ent 1		improve their	gth. Have a high	Participate in cla their health and strength. Have s self-discipline.	physical	 b) for 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 are very comp	ipate in various and games, and petitive. Also have ace on games, etc.	Can participate i practices and ga		Do not participate in various sport practices and games.	
Achievem	ent 3		Understand an take on the ro		Understand the but cannot play		Do not understand the role of a leader. Also, never play that role.	
Assigne	d Depar	tment Obj	iectives					
Teachin	g Metho	d						
Outline		the habit Students content. S	of playing sports will split into arc	s on a daily basis. oups and leaders w oose from: Baseba	This class require vill take the lead t	s an active and o plan, 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 learned while collabora	ed in previous yea iting and cooperati	rs. They are also ng with your tear	encouraged to n with 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 not grade dec • Tardine but their so • If it is of that class absence.	wear or bring a duction. ess will be excus attendance will I discovered that will be marked	ccessories, watche sed for the first 20 be marked as abse a student left class	es, or any other u minutes. Student ent. s early without be eir grade for previ	nnecessary iter ts can participa ing excused (di ious classes wil	its 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	oristics (Division in Le					
☑ Active			Aided by IC		☑ Applicable to	ble to Remote Class		
Course I	Dlan							
Course		т	heme			Goals		
		1st E	Guidance Baseball, softball	, soccer, futsal, ter /ball, badminton, t	nnis,	Jnderstand the	purposes and objectives of this o teams in each sport and select a	
		2nd E	Baseball, softball	, soccer, futsal, te /ball, badminton, t	able tennic I	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
4 - 1		E 3rd b	Baseball, softball	, soccer, futsal, ter /ball, badminton, t	- la la 'sta marta IV	Can do warm-u eflect on the cl	p and practice, play games, and ass, led by a leader.	
1st Semeste r	1st Quarter	4th b	asketball, volley raining, flying di		able tennis, r	Can do warm-up and practice, play games, an reflect on the class, led by a leader.		
		5th b	asketball, volley raining, flying di		able tennis, r	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
		6th b	asketball, volley raining, flying di		able tennis, r	Can do warm-u eflect on the cl	p and practice, play games, and ass, led by a leader.	
		7th b	Baseball, softball basketball, volley raining, flying di	, soccer, futsal, te /ball, badminton, t sc		Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	

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8th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pi reflect 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 pr reflect on the class, led	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
11th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pi reflect on the class, led	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
12th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	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 pi reflect 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 pi reflect on the class, led	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
15th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
16th	No final exam					
nod and	d Weight (%)					
		Practical skill	Leadership	Total		
7	/5	15	10	100		
7	75	0	0	75		
ncy ()	0	0	0		
ncy ()	15	10	25		
	9th 10th 11th 12th 13th 14th 15th 16th 16th 7 7 7 7 7 7 7 7 7 7 7 7 7	8th basketball, volleyball, training, flying disc 9th Baseball, softball, soc 9th Baseball, softball, soc 10th Baseball, softball, soc 10th Baseball, softball, soc 10th Baseball, softball, soc 11th Baseball, softball, soc 12th Baseball, softball, soc 13th Baseball, softball, soc 13th Baseball, softball, soc 14th basketball, volleyball, training, flying disc 14th Baseball, softball, soc 15th Baseball, softball, soc 16th No final exam nod and Weight (%) Approach to a class 75 75 ncy 0	training, flying disc9thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc10thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc11thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc11thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc12thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc13thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc13thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc14thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc15thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc16thNo final examnod and Weight (%)Practical skill750ncy000	8th basketball, volleyball, badminton, table tennis, training, flying disc reflect on the class, led 9th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Split into teams in each 10th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 11th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 12th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 13th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 14th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 15th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 16th No final exam Can do warm-up and preflect on the class, led 16th No final exam Can do warm-up and preflect on the class, led 16th		

Akashi College		ollege	Year	2023		Course Title	Physical Education IV-2		
Course 1	Informat	tion		·		·	•		
Course Co	ode	5403			Course Category	y General	/ Compulsory		
Class Forr	nat	Skill			Credits	School C	redit: 1		
Departme	ent		and Computer E r Engineering Co		Student Grade	4th			
Term		Second S	emester		Classes per Wee	Veek 2			
Textbook Teaching	Materials								
Instructor		-	akayuki,MAEDA	Tadanori					
 Particip Can tal 	Objectiv bate in clas de action t necessary a		ove students' ow oorts safely. Also so.	n health and phys , recognizes the s	ical strength. Als ignificance of coll	o, have some l aborating and	evel of self-discipline. cooperating with the team and can		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	ent 1		improve their l	gth. Have a high	Participate in cla their health and strength. Have s self-discipline.	physical	e 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 are very comp	pate in various and games, and etitive. Also have ce on games, etc.	Can participate practices and ga	in various sportames.	Do not participate in various sport practices and games.		
Achievem	ent 3		Understand an take on the rol		Understand the but cannot play		 Do not understand the role of a leader. Also, never play that role. 		
Assigne	d Depar	tment Ob	jectives						
Teachin	g Metho	d							
Outline		the habit Students content.	of playing sports will split into arc	s on a daily basis. oups and leaders w oose from: Baseba	This class require vill take the lead t	es an active and to plan, review	h of sports so that they can build proactive attitude to participate. , and implement the course , basketball, volleyball, badminton,		
Style		Students	are encouraged	to improve their s	rs. They are also	encouraged to	e rules, how to play games, and experience the fun of enhancing ider in the center. Students should s support their effort.		
Notice		grade. • Do not grade dec • Tardin but their • If it is that class absence.	wear or bring a duction. ess will be excus attendance will b discovered that a will be marked	ccessories, watche ed 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	innecessary ite ts can participa eing excused (d ious classes wil	nts will be deducted from their ms. These are also eligible for ite in the class after 20 minutes, itching class), their attendance for I suffer a deduction equal to an		
Charact	oristics (Division in Le						
☑ Active			Aided by IC		☑ Applicable to	Remote Class	Instructor Professionally Experienced		
Course	Dlan								
Course	riali	-	Theme		I,	Goals			
		1st E	Guidance Baseball, softball	, soccer, futsal, te ball, badminton, t	nnis,	Understand the	purposes and objectives of this to teams in each sport and select a		
		2nd E	Baseball, softball	, soccer, futsal, te ball, badminton, t	able tennic I	Can do warm-u reflect on the c	p and practice, play games, and ass, led by a leader.		
D ad		3rd b		, soccer, futsal, ter ball, badminton, t sc	-lete's a set of the s	Can do warm-u reflect on the c	p and practice, play games, and ass, led by a leader.		
2nd Semeste r	3rd Quarter	4th t	basketball, volley raining, flying di		able tennis,	Can do warm-u reflect on the c	p and practice, play games, and ass, led by a leader.		
		5th t	basketball, volley raining, flying di		able tennis,	Can do warm-u reflect on the c	p and practice, play games, and ass, led by a leader.		
		6th t	basketball, volley raining, flying di		able tennis,	Can do warm-u reflect on the c	p and practice, play games, and ass, led by a leader.		
		7th t	Baseball, softball basketball, volley raining, flying di	, soccer, futsal, te ball, badminton, t sc	able tennic I	Can do warm-u reflect on the c	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 pr reflect 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 pr reflect on the class, led	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		11th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	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	cer, futsal, tennis, badminton, table tennis,	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 pr reflect 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 pr reflect 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 pr reflect on the class, led	ractice, play games, and by a leader.		
		16th	No final exam					
Evaluati	on Meth	iod an	d Weight (%)					
			Approach to a class	Practical skill	Leadership	Total		
Subtotal			75	15	10	100		
Basic Prof	iciency		75	0	0	75		
Specialize	d Proficier	ncy	0	0	0	0		
Cross Are	a Proficier	ю	0	15	10	25		

A	kashi Co	ollege	Year		2023		Course Title English IV A		English IV A	
Course	Informat	tion								
Course Co	ode	5404				Course Catego	ry	General /	/ Compulsory	
Class Forr	nat	Lecture				Credits		School C	redit: 1	
Departme	ent		and Computer Engineering C			Student Grade		4th		
Term		First Sem	ester			Classes per We	eek	2		
Textbook Teaching		(1) Roma	n Holiday (2)	Dat	aBase (3) Next	Stage				
Instructor		AKIMOTO	Hiromi							
	Objectiv									
úsing á m (2) Impro (3) Under modern h	ovie-orien	ted textboo vocabulary ure and hist	ζ						listening and reading exercises words and grammatical elements. American social issues and	
Rubric										
			Ideal Level			Standard Level			Unacceptable Level	
Achievem	ent 1		Can fully imp English profic listening and	cien		Can improve p proficiency thro and reading ex	ough lis	stening	Cannot improve practical English proficiency through listening and reading exercises.	
Achievem	ent 2		Can fully imp vocabulary tl English vocal	hrou	ugh learning	Can improve E through learnir vocabulary.			y Cannot improve English vocabulary through learning English vocabulary.	
Achievem	ent 3		the logical th international	nd : inki pei	skills, including ing and	Learn a wide ra knowledge and the logical thin international po- necessary for f	e range of Do not learn a wide range of knowledge and skills, including inking and perspective international perspective			
Assiane	d Depar	tment Ob	ectives		2	, ,				
	g Metho									
Outline	<u>j</u>	(1) The a	im is to improv rehend inform	ve p atio	practical English p on from videos ar	proficiency thround authentic ma	igh a n terials	novie-orie and link it	nted textbook. to oral speech in English.	
Style			be vocabulary						bk and do practice questions for	
Notice		Students	who miss 1/4	or r	more of classes v vided in the first	vill not be eligibl	e for e	valuation.) detail	
Charact	eristics (Division in L			Week. De Sure				
□ Active			Aided by			☑ Applicable t	o Rem	ote Class	Instructor Professionally Experienced	
						1				
Course	Plan									
		1	heme				Goals			
		1st (Class guidance Explain how cla	isse	s will be conduct	ed, vocabulary	Gain a	a proper u	nderstanding on the class content	
		2nd L	earn culture o		nts grading syste nglish-speaking c		Impro	ssignments, and plan ahead. ove vocabulary, grammar, and listening and		
			ideos Init 1: Loorn li	ctor	ning and reading	on the tenics	Impro	ve vocabu	rough video Ilary, grammar, and listening and	
						•	readin	ıg skills fo	llowing the topics of the textbook. Jlary, grammar, and listening and	
	1st Quarter				ning and reading	•	readin	ıg skills fo	llowing the topics of the textbook.	
					nglish-speaking c	•			ulary, grammar, and listening and llowing the topics of the textbook. Jlary, grammar, and listening and	
			ideos				readin	ig skills th	llary, grammar, and listening and	
1st Semeste					ning and reading		readin	ig skills fo	llowing the topics of the textbook. Jlary, grammar, and listening and	
r	r		Jnit 5: Learn li	ster	ning and reading	on the topics	readin	ıg skills fo	llowing the topics of the textbook.	
		9th l	Jnit 6: Learn lis	ster	ning and reading	on the topics	Impro readin	ve vocabu Ig skills fo	llary, grammar, and listening and llowing the topics of the textbook.	
			earn culture o ideos	f Er	iglish-speaking c	ountries with	Impro readin	ve vocabu Ig skills th	ulary, grammar, and listening and rough video	
	2nd	11th l	Jnit 7: Learn lis	ster	ning and reading	on the topics	Impro readin	ve vocabu Ig skills fo	llary, grammar, and listening and llowing the topics of the textbook.	
	Quarter	12th l	Jnit 8: Learn lis	ster	ning and reading	on the topics	Impro readin	ve vocabu Ig skills fo	llary, grammar, and listening and llowing the topics of the textbook.	
		13th l	Init 9: Learn li	ster	ning and reading	on the topics	Impro readin	ve vocabu Ig skills fo	lary, grammar, and listening and lowing the topics of the textbook.	
			earn culture o ideos	f Er	nglish-speaking c	ountries with	Impro readin	ve vocabu Ig skills th	llary, grammar, and listening and rough video	

	15th		Q&A for the final e	exam		Reflect on the class content so far, and review and answer to questions for the periodic exam.				
		16th	The final exam			Test their unders far.	standing of the cl	ass content so		
Evaluation Method and Weight (%)										
	E	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Quizes	Total		
Subtotal	5	50	0	0	0	0	50	100		
Basic Proficiency	y 5	50	0	0	0	0	50	100		
Specialize Proficiency	d y 0)	0	0	0	0	0	0		
Cross Area Proficiency)	0	0	0	0	0	0		

А	kashi Co	ollege	Year	2023		Course Title	English IV B	
Course	Informat	tion						
Course Co	ode	5405			Course Category	General /	Compulsory	
Class Forr	mat	Lecture			Credits	School C	redit: 1	
Departme	ent	Computer	and Computer En Engineering Cou		Student Grade	4th		
Term	and /an	Second Se	emester		Classes per Wee			
J	Matérials	_	. ,	abase 4500 (Kirih	ara), Next Stage	(Kirihara)		
Instructor		MORIMOT	<u>O Nana</u>					
(1) Develo content a (2) Impro (3) Gain a topics rela	nd writing ove hearing a wide rang	essary vocal in English.	nglish proficiency dge and skills, ind			_	ugh the practice of reading English er, through dealing with various	
Rubric			Trianel Lawrel		Chan dated by south			
			Ideal Level	p the necessary	Standard Level Can develop the	nocossan	Unacceptable Level	
Achievem	nent 1		vocabulary skills ability to read a English through reading English writing in English	s, as well as the nd write in the practice of content and	vocabulary skills ability to read ar English through reading English writing in English	, as well as the nd write in the practice of content and	Cannot develop the necessary vocabulary skills, as well as the ability to read and write in English through the practice of reading English content and writing in English.	
Achievem	evement 2 Can fully improve hearing skills and English proficiency by using audio materials that come with audio materials that come with				Cannot improve hearing skills and English proficiency by using audio materials that come with the textbook or other means.			
Achievem	C k Achievement 3			wide range of skills, including perspective as ough dealing pics related to	the textbook or other means. Can gain a wide range of knowledge and skills, including an international perspective as an engineer, through dealing with various topics related to modern society.		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 Depart	tment Obj	ectives					
Teachin	ig Metho	d						
Outline		order to d the synta:	evelop English sk and grammar n	ills they will need ecessary for read	l'as an engineer i ing comprehensio	n the age of glo on.	and reading comprehension in obalization, and gain knowledge of	
Style		writing ba	sed on the conte	nt learned. There	e will be assignme	nts as appropr	texts and solve exercise questions ability. We will practice English ate.	
Notice					vill not be eligible	for evaluation.		
Charact	eristics o	of Class /	<u>Division in Lea</u>	arning	1			
Active	Learning		☑ Aided by ICT	-	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 	
Course	Plan							
		Т	heme		0	Goals		
		1st C	rientation				nderstanding on the class content s, and plan ahead.	
		2nd L	nit 1		L a	Inderstand the Ind can use the	English sentences in each Unit m appropriately.	
		3rd L	nit 2		L a	Understand the English sentences in each Unit and can use them appropriately.		
	3rd	4th L	nit 3			Understand the English sentences in each Unit and can use them appropriately.		
Quarter					2	ind can use the		
		5th E	xercises		l	Inderstand the		
2nd			xercises Init 4		L a	Inderstand the Ind can use the Inderstand the	m appropriately. English sentences in each Unit	
2nd Semeste r		6th L			ן ב ב ב נ	Inderstand the ind can use the Inderstand the ind can use the Inderstand the	m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit	
Semeste		6th L 7th L	nit 4			Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the Inderstand the	m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit	
Semeste		6th L 7th L 8th L	Init 4		L a a L a z a L a c a c t c a c t c c t c t c t t c t c	Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the Inderstand the	m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit	
Semeste		6th L 7th L 8th L 9th E	Init 4 Init 5 Init 6		L a a c a c a c c a c c c c c c c c c c	Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the Inderstand the ind can use the	m appropriately. English sentences in each Unit m appropriately. English sentences in each Unit	
Semeste	Quarter	6th L 7th L 8th L 9th E 10th L	Init 4 Init 5 Init 6 xercises		L a a c a c a c a c a c a c c a c c c c	Inderstand the ind can use the Inderstand the	m appropriately. English sentences in each Unit m appropriately.	

		13th	Exercises			Understand th and can use t	e English sente nem appropriat	ences in each Unit ely.
		14th	Unit 10			Understand th and can use t	e English sente nem appropriat	ences in each Unit ely.
		15th	Review			Summary of t	he content lear	ned.
		16th	Final exam			Test their und far.	erstanding of th	he class content so
Evaluati	on Me	ethod and V	Weight (%)					
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		50	0	0	0	0	50	100
Basic Proficiency	y	50	0	0	0	0	50	100
Specialize Proficiency		0	0	0	0	0	0	0
Cross Area Proficiency		0	0	0	0	0	0	0

Akashi Coll	ege	Year	2023		Course Title	Advanced English I		
Course Information	on	·						
Course Code	5406			Course Category	General /	Compulsory		
Class Format	Lecture			Credits	School Cr	edit: 1		
Department	Computer E	d Computer Ei ngineering Cou		Student Grade	4th			
Term	First Semest			Classes per Week				
Textbook and/or Teaching Materials	[Available or	n paperback o	e-book], Morgan d English I & II .	James Publishing	, © 2019 by D	and Pizzazz (Third Edition) iane DiResta. This book is		
Instructor	HERBERT Jo	hn C.						
Course Objectives 1) Mastering present 2) Writing stimulatin 3) Recognizing weak 4) Using Visual Aids 5) Handling question 6) Writing conference	tation deliver og presentation nesses in pre effectively in ns from the a	ón content esentations an a presentation	1	ting ideas for peer	and self-impro	ovement		
Rubric								
	Ν	lastery Level		Standard Level		Unacceptable Level		
Objective 1 Mastering presentatio skills	n delivery li r	Able to use con anguage, a str eye contact, ap ntonation and natural gesture presentation	ong voice, great propriate stress, and	Able to show an a how to use body voice projection, intonation, stress in a presentation	language, eye contact,	Cannot use body language, voice projection, eye contact, intonation, stress, or gestures appropriately in a presentation		
Objective 2 Writing stimulating pr content		Able to write penteresting pres	ersuasive and sentation content	Able to show an a how to write pers interesting preser	suasive and	Cannot write persuasive or interesting presentation content		
Objective 3 Peer and self-critiquing		n peer critique	ticism and advice	constructive criticism and advice		write sincere self-reflections		
Objective 4 Using visual aids effec presentation	tively in a a	Able to create a ids that are ea judience to loo inderstand	asy for the	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 fro audience skillfully	om the	Able to handle Juestions from Judience tactfu Confidently	a presentation	from a presentation audience tactfully and confidently		s Cannot handle questions from the audience with confidence		
Objective 6 Writing conference pr	oposals c		as impressive	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 Departn Teaching Method	nent Objec	tives						
Outline	Advanced	Enalish I invol	ves the preparation	on and confident d	elivery of Engl	ish presentations designed for		
	There will be and final pre	esentations. Kosen students	assignments and	et in the Global Te	errace, but the	prepare students for their initial y may be asked to do group work		
Style		th students from other NIT campuses in TEAMs channels assigned to them during class time. udents from other NIT campuses, who have been accepted into this class, may join each class via TEAMs.						
	enrolled in c participation Achievemen	lass, up to five i in the online t" unless they	additional individ	luals and/or teams	s of 2 or 3 stur	ess English Presentation Contest," ers. In addition to the 20 students lents might be accepted for will receive a "Certificate of ase they will receive a "Certificate		
	Students wh Students mi	no miss 1/4 or ust critique ead	more of classes w th other's work an		ach of their pr	actice presentation performances.		
Notice	students reg Students mu	ardless of the ust not recycle	their presentation	ve language, or ac n content from or i	ademic year.	ended to all interested NIT presentations for other class		
	Whether the	e students part he participants he teacher res	icipate in person o engaged in releva	ant class time beh	amera projecti avior througho	on, the teacher must be able to out the duration of each class. Ints joining via TEAMs must leave		

Charact	eristics	of Class	/ Division in Learning				
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 presentatic 2) Read "Unit 1: Secrets of Platform Effectiveness"	on topic.	Consider how to textbook this ser	make the most of the course an nester. persuasive presentation.	
		2nd	Unit 1: Secrets of Platform Effective Homework: 1) Write a presentation 2) Read "Unit 7: Listener-Centered Communication: Principles of Persua	outline.	Learn about the common myths of public speaking and mistakes that many speakers make. Learn tips for writing a presentation outline and organizing presentation content.		
		3rd	Unit 7: Listener-Centered Communi Principles of Persuasion (Part One) Critique a classmate's outline. Homework: 1) Write a first draft of presentation. 2) Review "Unit 7: Principles of Pers	your	persuasive prese	ith peers to improve your	
	1st	4th	Unit 7: Listener-Centered Communi Principles of Persuasion (Part Two) Critique a classmate's first draft. Homework: Revise and rehearse yo presentation.	cation	persúasive prese	ith peers to improve your	
	Quarter	5th	Presentation workshop Peer critiques Homework: Rehearse your presenta visualize/dream of having a perfect	ation and performance.	Work in groups t polish the forthco Complete peer e	to help each other rehearse and oming "Initial Presentations." valuation forms.	
		6th	Initial Presentations (Part One) Homework: Write your self-reflectio how you may have done a better In Presentation.	n report on iitial	Make a persuasive presentation 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-reflec how you may have done a better In Presentation. 2) Read "Unit 2: Sizzle or Steak?"	ction report on iitial	Make a persuasive presentation in English with confidence and enthusiasm. We will do the second 10 of 20 presentations in this class.		
1st Semeste r		8th	Unit 2: Sizzle or Steak? Adding pizazz to your presentation (Homework: 1) Rewrite your present transcript based on self-reflection, p and teacher feedback. 2) Review "Unit 2: Sizzle or Steak?"	tation beer 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"	iss and/or as	Develop visual, vocal, and verbal presentation delivery skills. Prepare for your final presentation.		
		10th	Unit 3: Fear Fixes Conquering Nervousness (Part One) Final Presentation rehearsals (In cla homework) Homework: Review "Unit 3: Fear Fix Conquering Nervousness"	iss and/or as	nervousness whe	s that may help you control you en you perform in front of an re 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"	iss and/or as	Inervousness whe	s that may help you control you en you perform in front of an e for your final presentation.	
		12th	Unit 4: Listening: The Other Side of Becoming a better listener and help listen to you (Part One) Final Presentation rehearsals (In cla homework) Homework: Review "Unit 4: Listenir Side of Speaking"	ing others to ss and/or as	Practice exercises that may help you become a better listener and help others to listen to you. Prepare for your final presentation.		
		13th	Unit 4: Listening: The Other Side of Becoming a better listener and help listen to you (Part Two) Final Presentation rehearsals (In cla homework)	ing others to	better listener ar	s that may help you become a nd help others to listen to you. final presentation.	
		14th	Presentation workshop Peer critiques Homework: Rehearse your presenta visualize/dream of having a perfect	ation and performance.	Work in groups t polish the forthco Complete peer e	o help each other rehearse and oming "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	e. est will be determined ct references to the
		16th	No Test			
Evaluati	on Meth	od an	d Weight (%)			
	SI		Short Assignments/Reflective Writing	Initial Presentation	Final Presentation	Total
Subtotal 3		30	30	40	100	
Profession Skills	al Present	ation	30	30	40	100

Akashi Col	lege	Year	2023		Course Title	Advanced English II
Course Informati	1					
Course Code	5407			Course Category		Compulsory
Class Format	Lecture	nd Committee F	nginooring	Credits	School C	redit: 1
Department	Computer	nd Computer El Engineering Col		Student Grade	4th	
Term	Second Ser		How to Doliver Ve	Classes per Week		and Dizzazz (Third Edition)
Textbook and/or Teaching Materials	[Available	on paperback o	r e-book], Morgan d English I & II .	James Publishing	, © 2019 by E	and Pizzazz (Third Edition) Diane DiResta. This book is
Instructor	HERBERT	lohn C.				
Course Objective 1) Mastering presen 2) Writing stimulatin 3) Recognizing weal 4) Using Visual Aids 5) Handling question 6) Writing conference	tation delive ng presentat (nesses in p effectively i ns from the	ion content resentations an n a presentatio audience skillfu	n	ting ideas for peer	and self-impr	ovement
Rubric				I. <u> . </u>		
		理想的な到達レ		標準的な到達レベ↓	しの目安	未到達レベルの目安
評価項目1 Mastering presentatic skills	on delivery	Able to use cor language, a str eye contact, ap intonation and natural gesture presentation	ong voice, great propriate stress, and	Able to show an a how to use body voice projection, intonation, stress in a presentation	language, eye contact, , and gestures	Cannot use body language, voice projection, eye contact, intonation, stress, or gestures appropriately in a presentation
評価項目2 Writing stimulating p content	resentation	Able to write pointeresting pres	ersuasive and sentation content	Able to show an a how to write pers interesting preser	suasive and	Cannot write persuasive or interesting presentation conter
評価項目3 Peer and self-critiquir	ng	in peer critique	iticism and advice	Able to show an awareness of how to give tactful and		write sincere self-reflections
評価項目4 Using visual aids effe presentation	ctively in a	Able to create a aids that are ea audience to loc understand	asy for the	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 th audience to look at and understand
評価項目5 Handling questions fr audience skillfully	om the	Able to handle questions from audience tactfu confidently	a presentation	Able to show an awareness of how to handle difficult questions from a presentation audience tactfully and confidently		s Cannot handle questions from the audience with confidence
評価項目6 Writing conference pi	roposals	Able to write re and summaries conference pre proposals	s as impressive	Able to show an awareness of how to write research abstracts and summaries as conference presentation proposals		Cannot write research abstract or summaries in English
Assigned Departr	nent Obje	ectives		•••••••••••••••••••••••••••••••••••••••		
Teaching Method						
Outline	Advance professiona	d English II invo al research conf	olves the preparati erences.	on and confident of	delivery of Eng	lish presentations designed for
Style	Advanced English II involves the preparation and confident delivery of English presentations designed for professional research conferences. 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 wo with students from other NIT campuses in TEAMs channels assigned to them during class time. 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 "Mock Research Conference," where the students will					
		·	n front of peers ar			
			=(割合) 1/4以上の: ch other's work ar		ach of their pr	actice presentation performance
Notice	Students n	nust not recvcle	their presentation		into anv other	presentations for other class
	Whether these ALL of	ne students part the participants the teacher res	ticipate in person of engaged in relev	or through a live c ant class time beh	amera project avior through	ion, the teacher must be able to out the duration of each class. ents joining via TEAMs must leave
Characteristics of	Class / D	ivision in Le	arning			
		□ Aided by IC	т	☑ Applicable to F		Instructor Professionally

			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.

		15th	Final presentation in t research conference v	he context of a mock vithin the class	Presentation grades will well the presentation re implementation of prese learned from this course	be determined by how flects the acquisition and entation techniques e.			
		16th	No Test						
Evaluati	Evaluation Method and Weight (%)								
		As	ort signments/Reflective riting	Initial Presentation	Final Presentation	Total			
Subtotal	Subtotal 30			30	40	100			
Profession Skills	al Presenta	ation 30		30	40	100			

	Akashi Co	Jilege	Year	2023		Course Title	Chinese-1		
Course	Informa	tion							
Course Co		5408			Course Category				
Class Forr	mat	Lecture			Credits	School C	redit: 1		
Departme	ent		and Computer E Engineering Co		Student Grade	4th			
Term		First Seme	3 3		Classes per Wee	k 2			
Textbook		虚恭・「ペ	アで学ぼう!中国	11年1月11日11日1月11日					
	Materials								
Instructor		ARIKAWA	Кеі						
①中国語の ②挨拶やE	日常会話など	スターし、基礎 ビ、身の回りの	事を実用的な中国	D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	ようにし、会話力と 単な中国語でコミュ 。	:読解力を養うよ .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			1		1		1		
			理想的な到達レ	ベルの目安	標準的な到達レベ		未到達レベルの目安		
評価項目1	L		的な語彙と文法の	マスターし、基礎 の規則を応用でき 話力と読解力を十 。	中国語の発音をマ 的な語彙と文法の るようにし、会話 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、会話力と読解力を書 えていない。		
評価項目2	2		事を実用的な中国	十分にコミュニケ	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	3		中国人の考え方 ⁴ 文化に対する理約 る。	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	生活習慣、中国 を深めている。	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	ed Depar	tment Obje	ectives						
	ng Metho								
Outline		焦らずにし ことを目指 異文化への ①事前に予 ②授業に積	っかりとレベルア します。また、中 理解も深めていき 習を行い、学習オ 極的に参加するこ	?ップを図りながら □国の社会や文化な §ます。 ペイント把握したう こと。	、「聞く」「話す」 どにも触れながら、 えで授業に臨むこと	「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			習、会話練習にしっかり取り組むこと。 に生じた疑問や、授業中に理解できない事項は質問をすること。						
		連絡員:井	上英俊	受業中に理解できな		こと。			
Notice		<u>連絡員:井</u> 目標達成の ①学習ポイ ②授業で学 ③テキスト	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声	受業中に理解できな ■ ■<	い事項は質問をする ため、予習を行うこ _を活用し、中国語の		習すること。		
	teristics	連絡員:井 目標達成の ①学習ポイ ②授業で学 ③テキスト 合格の対象	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声	3	い事項は質問をする ため、予習を行うこ _を活用し、中国語の		習すること。		
Charact	teristics of tearning	連絡員:井 目標達成の ①学習ポイ ②授業で学 ③テキスト 合格の対象	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声 としない欠席条件	愛業中に理解できな 学習が必要である。。 美習が必要である。 美習を行うこと。 ストリーミングURI (割合) 1/4以上の arning	い事項は質問をする ため、予習を行うこ _を活用し、中国語の	と。 D発音を自主的網	習すること。 □ Instructor Professionally Experienced		
Charact	e Learning	連絡員:井 目標達成の ①学習ポイ ②授業で学 ③テキスト 合格の対象	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声 としない欠席条件 Division in Le	愛業中に理解できな 学習が必要である。。 美習が必要である。 美習を行うこと。 ストリーミングURI (割合) 1/4以上の arning	い事項は質問をする ため、予習を行うこ Lを活用し、中国語の 次課	と。 D発音を自主的網	□ Instructor Professionally		
Charact	e Learning	連絡員:井 目標達成の ①学習ボイ ②授業で学 ③テキスト 合格の対象 of Class / [上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声 としない欠席条件 Division in Le	愛業中に理解できな 学習が必要である。。 美習が必要である。 美習を行うこと。 ストリーミングURI (割合) 1/4以上の arning	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課	こと。 D発音を自主的線 Remote Class	□ Instructor Professionally		
Charact □ Active	e Learning	連絡員:井 目標達成の ①学習ボイ ②授業で学 ③テキスト 合格の対象 of Class / [上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le Aided by IC	愛業中に理解できな 学習が必要である。。 美習が必要である。 美習を行うこと。 ストリーミングURI (割合) 1/4以上の arning	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課 ② Applicable to	と。 D発音を自主的網	☐ Instructor Professionally Experienced		
Charact	e Learning	連絡員:井 目標達成の ①学習ボイ ②授業で学 ③テキスト 合格の対象 of Class / [1st	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず復 の添付CDや音声 としない欠席条件 Division in Le	愛業中に理解できな 学習が必要である。。 美習が必要である。 美習を行うこと。 ストリーミングURI (割合) 1/4以上の arning	い事項は質問をする ため、予習を行うご た活用し、中国語の 次課 図 Applicable to	こと。 D発音を自主的線 Remote Class Goals 50als	☐ Instructor Professionally Experienced		
Charact □ Active	e Learning	連絡員:井 目標達成の ①学習ボで学 ③デキス分 合格の対象 of Class / [1st 2nd	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le Aided by IC Aided by IC	愛業中に理解できな 学習が必要である。。 美習を行うこと。 見習を行うことが しーミングURI (割合) 1/4以上の arning 江	い事項は質問をする ため、予習を行うご 上を活用し、中国語の 次課 図 Applicable to	と。 D発音を自主的線 Remote Class Goals 画調、単母音、子 夏合母音、鼻音を	□ Instructor Professionally Experienced 音を学ぶ。 代けう母音を学ぶ。		
Charact	e Learning	連絡員:井 目標達成の ①学習業で学 ③デキスト 合格の対象 of Class / [] 1st 2nd 3rd	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le ロ Aided by IC Aided by IC 時 に 第 1、2、3 語 4、5	要単に理解できな 学習が必要である。。 美の理解度を高める 夏習を行うこと。 ストリーミングURI F(割合) 1/4以上の arning T 日本人ですか?	い事項は質問をする ため、予習を行うご た活用し、中国語の 次課 図 Applicable to 7 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	と。 D発音を自主的線 Remote Class Goals 調、単母音、子 夏合母音、鼻音を 、 称代詞、名前の	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん		
Charact	Plan 1st	連絡員:井 目標達成の ①学習業で学 ③デキスト 合格の対象 of Class / [] 1st 2nd 3rd	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le Aided by IC Aided by IC	要単に理解できな 学習が必要である。。 美の理解度を高める 夏習を行うこと。 ストリーミングURI F(割合) 1/4以上の arning T 日本人ですか?	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課 図 Applicable to 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	と。 D発音を自主的線 Remote Class Goals 国調、単母音、子 夏合母音、鼻音を 気称代詞、名前の 東習I、Iを学ぶ	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん		
Charact	Plan	連絡員:井 目標達成の ①学習ボマ学ト ③デキス分 合格の対象 of Class / [1st 2nd 3rd 4th	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le ロ Aided by IC Aided by IC 時 に 第 1、2、3 語 4、5	要単中に理解できな 2 2 2 3 2 3 2 3 3 2 5 3 3 3 3 3 3 3 3 3	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課 図 Applicable to 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	と。 D発音を自主的線 Remote Class Goals 国調、単母音、子 夏合母音、鼻音を 気称代詞、名前の 東習I、Iを学ぶ	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん		
Charact	Plan 1st	連絡員:井の 目標達成パイ ①学習業で学 ③テキス外 of Class / [1st 2nd 3rd 4th 第 5th	上英俊 ため、次の自己学 ントを把握し授業 習した後に必ず後 の添付CDや音声が としない欠席条件 Division in Le 口 Aided by IC 自主1、2、3 音4、5 1課 あなたはE 1課 文法のまと	要単中に理解できな 空智が必要である。。 そ の理解度を高める 夏智を行うこと。 の理解方でもの る の理解度を に のですか の し 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 国調、単母音、子 夏合母音、鼻音を 気称代詞、名前の 東習I、Iを学ぶ	□ Instructor Professionally Experienced 音を学ぶ。 (伴う母音を学ぶ。) 聞き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん		
Charact □ Active	Plan 1st	連絡員:井のイ 目標達成のイ ①学習業で学う ③合格の対象 of Class / [1st 2nd 3rd 4th 5th 6th	上英俊 ため、次の自己学 ントを把握し授ず 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le □ Aided by IC □ Aided by IC □ Aided by IC □ 1: 2、3 音 1、2、3 音 4、5 5 1 課 あなたは 5 1 課 あなたは 5 2 課 あなたは何	要単中に理解できな 空智が必要である。。 そ 留が必要である。 その理解うること。 な トリーミングURI (割合) 1/4以上の arning T 日本人ですか? とめ 可を学びますか? とめ	い事項は質問をする ため、予習を行うこ た活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 両調、単母音、子 夏合母音、鼻音を 気称代詞、名前の 東習I、IIを学ぶ 「的」の使い方、 東習I、IIを学ぶ	□ Instructor Professionally Experienced 音を学ぶ。 (伴う母音を学ぶ。) 聞き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん		
Charact	Plan 1st	連絡員:井 目標達成のインション ①授業マンション ③テキンション of Class / [1st 2nd 3rd 4th 5th 6th 7th	上英俊 ため、次の自己学 ントを把握し授ず 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le 口 Aided by IC Aided by IC 自主 1、2、3 音1、2、3 音1、2、3 音1、2、3 音1、2、3 音1、2、3 音1、2、3 音1、2、3 音2、3 音2、3 音2、3 音2、3 音2、3 音2、3 音2、3	要単中に理解できな 空智が必要である。。 そ 留が必要である。 その理解うること。 な トリーミングURI (割合) 1/4以上の arning T 日本人ですか? とめ 可を学びますか? とめ	い事項は質問をする ため、予習を行うご た活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 両調、単母音、子 夏合母音、鼻音を 気称代詞、名前の 東習I、IIを学ぶ 「的」の使い方、 東習I、IIを学ぶ	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 、 副詞「也」、疑問詞「什么」を学ん 、 」 +動詞、副詞「都」を学ぶ。		
Charact	Plan 1st	連絡員:井 目標達成のインション ①学業ス対象 ①石石の対象 ①オンション ③方花の対象 ○「Class / [○「Class / [<td>上英俊 ため、次の自己学 ントを把握し授ず 20)にを後に必ず後 の添付CDや音声 としない欠席条件 Division in Le Aided by IC Aided by IC Aided by IC Aided by IC 第1課 あなたは 51課 支法のまと 52課 支法のまと 53課 あなたは 53課 あなたは</td> <td>要単中に理解できな 空間が必要である。。 空間が必要である。。 そのですのる。 でですか? とめ のを学びますか? とめ し してすか? との していていていていていていていていていていていていていていていていていていてい</td> <td>い事項は質問をする ため、予習を行うご しを活用し、中国語の 次課</td> <td>と。 D発音を自主的線 Remote Class Goals 時日母音、鼻音を し称代詞、名前の 東習I、IIを学ぶ 「的」の使い方、 東習I、IIを学ぶ ジ容詞述語文、「</td> <td>□ Instructor Professionally Experienced 音を学ぶ。 (伴う母音を学ぶ。) 間き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん 。 」+動詞、副詞「都」を学ぶ。 る。</td>	上英俊 ため、次の自己学 ントを把握し授ず 20)にを後に必ず後 の添付CDや音声 としない欠席条件 Division in Le Aided by IC Aided by IC Aided by IC Aided by IC 第1課 あなたは 51課 支法のまと 52課 支法のまと 53課 あなたは 53課 あなたは	要単中に理解できな 空間が必要である。。 空間が必要である。。 そのですのる。 でですか? とめ のを学びますか? とめ し してすか? との していていていていていていていていていていていていていていていていていていてい	い事項は質問をする ため、予習を行うご しを活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 時日母音、鼻音を し称代詞、名前の 東習I、IIを学ぶ 「的」の使い方、 東習I、IIを学ぶ ジ容詞述語文、「	□ Instructor Professionally Experienced 音を学ぶ。 (伴う母音を学ぶ。) 間き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん 。 」+動詞、副詞「都」を学ぶ。 る。		
Charact	Plan 1st	連絡員:井 目標達成のインネック ①学業ス対象 Of Class / I 3合格の方法 1st 2nd 3rd 4th 5th 6th 7th 8th 9th	上英俊 ため、次の自己学 マントを把握し必ず復 の添付CDや音声が シレない欠席条件 Division in Le □ Aided by IC □ Aided by IC □ Aided by IC □ 1課 友法のま 1 課 文法のま 2 課 あなたは 3 課 あなたは 1 躍 文法のま 3 課 あなたは 3 課 あなたは 3 課 太法のま	要単中に理解できな 空間が必要である。。 空間が必要である。。 そのですのる。 でですか? とめ のを学びますか? とめ し してすか? との していていていていていていていていていていていていていていていていていていてい	い事項は質問をする ため、予習を行うご しを活用し、中国語の 次課	 と。 D発音を自主的網 Remote Class Goals 国調、単母音、鼻音を 取代詞、名前の 東習 I、IIを学ぶ 深習内容を復習す 東習 I、IIを学ぶ 	□ Instructor Professionally Experienced 音を学ぶ。 (伴う母音を学ぶ。) 間き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん 。 」+動詞、副詞「都」を学ぶ。 る。		
Charact	Plan 1st	連絡員:井の 目標2000 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2011 11 11 12 2010 第 3rd 4th 5th 6th 9th 9th 10th	上英俊 ため、次の自己学 マントを把握し必ず復 の添付CDや音声が シレない欠席条件 Division in Le □ Aided by IC □ Aided by IC □ Aided by IC □ 1課 友法のま 1 課 文法のま 2 課 あなたは 3 課 あなたは 1 躍 文法のま 3 課 あなたは 3 課 あなたは 3 課 太法のま	要単中に理解できな 学習が必要である。。 美の理解度を高める 夏智を行うこと。 マトリーミングURI たりーミングURI 1/4以上の arning エ 日本人ですか? とめ したうですか? とめ こたの辞書ですか?	い事項は質問をする ため、予習を行うご たあ活用し、中国語の 次課 の欠課 の Applicable to	 と。 D発音を自主的網 Remote Class Goals 国調、単母音、鼻音を 取代詞、名前の 東習 I、IIを学ぶ 深習内容を復習す 東習 I、IIを学ぶ 	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん 、 こ こ こ こ こ こ こ 、 、 、 、 、 、 、 、 、 、 、 、 、		
Charact	Plan 1st Quarter	連絡員:井 目標達成のインション ①学習業で学う ③テキスト ③テキスト ③合格の対象 「1 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th	上英俊 ため、次の自己学 だめ、次の自己学 習した後に必ず後 の添付CDや音声 としない欠席条件 Division in Le □ Aided by IC □ Aid	要単中に理解できな 空間が必要である。。 変の理解うこと。 の理解うことが の理解うことが のですかうことが のですか? とめ しめ こて しめ こですか? とめ この辞書ですか? とめ この この この たの ですか? とめ この この たの たの ですか? とめ この この たの たて たの たて たの たて たの たて たの たて たの たて たの たの	い事項は質問をする ため、予習を行うご たあ活用し、中国語の 次課	- と。 - D発音を自主的線 - Remote Class - Goals	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 。 副詞「也」、疑問詞「什么」を学ん 、 こ こ こ こ こ こ こ こ 、 。 、 、 、 、 、 、 、 、 、 、 、 、 、		
Charact	Plan 1st Quarter 2nd	連絡員:井の 目標2000 ①沢テキの対象 ①沢テキの対象 Of Class / [○方キの対象 ○方キの対象 Of Class / [11t1 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 11th 12th	上英俊 ため、次の自己学 アントを把しびず後 の添付CDや音声 としない欠席条件 Division in Le □ Aided by IC □ Aided by IC □ Aided by IC □ 1課 友なたは 1課 友法のまる 2 課 あなたは 3 課 あなたは 3 課 あなたは 3 課 友法のまる 3 課 てれはどれ 4 課 文法のまる 5 課 彼はいつす	要単中に理解できな 学習が必要である。。 美の理解度を高める 夏智を行うことが の理解度を高める 夏智を行うことが しーミングURI トリーミングURI トリーミングURI トリーミングURI 「 日本人ですか? とめ したっですか? とめ したの辞書ですか? とめ との に来ますか?	い事項は質問をする ため、予習を行うご たを活用し、中国語の 次課 の次課 の次課 の の の の の の の の の の の の	と。 D発音を自主的線 Remote Class Goals 国調の日音、子夏 国調の日音、子夏 国調には、正を学ぶ 「朝日」、「「「「」」」」 東宮内、「「」」 「「」」」 「」 「」 「」 「」 「」 「」」 「」」 「」」 「」」 「」 「」 「」 <	□ Instructor Professionally Experienced 音を学ぶ。 住住う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 、 副詞「也」、疑問詞「什么」を学ん 、 こ し +動詞、副詞「都」を学ぶ。 、 反復疑問文を学ぶ。 、 、 吧」の使い方、「去/来/回/到 ぶ。		
Charact	Plan 1st Quarter	連絡員:井 目標達成のインション ①学習業で学う ③テキス外 of Class / [11st 2nd 3rd 4th 5th 6th 7th 8th 9th 11th 12th 13th	上英俊 ため、次の自己学 マントを把握し必ず後 の添付CDや音声の シレない欠席条件 Division in Le □ Aided by IC □ Aided by	要単中に理解できな 認知必要である。。 認知解育うことづURI なたりーミングURI に本人ですか? とめ したの辞書ですか? とめ に来ますか? とめ とめ に来ますか? とめ との に来ますか? とめ との にますか? との との にますか? との との にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの たの たの たの にますか? との たの たの たの たの たの たの たの	い事項は質問をする ため、予習を行うご しを活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 国調、単母、鼻音 「の間 I、IIを学ぶ 「の」の使い方、 東習に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「日本をので 「日本をので 「日本をので 「日本をので 「日本をので 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「 「 「 「 「 「 「 」 「 「	□ Instructor Professionally Experienced 音を学ぶ。 伴う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 、 副詞「也」、疑問詞「什么」を学ん 、 こ こ こ こ こ こ こ 、 、 こ 、 、 、 、 、 、 、 、 、 、 、 、 、		
Charact	Plan 1st Quarter 2nd	連絡員:井 目標達成のインション ①学習業で学う ③テキス外 of Class / [11st 2nd 3rd 4th 5th 6th 7th 8th 9th 11th 12th 13th	上英俊 ため、次の自己学 マントを把握し必ず後 の添付CDや音声の シレない欠席条件 Division in Le □ Aided by IC □ Aided by	要単中に理解できな 学習が必要である。。 美の理解度を高める 夏智を行うことが の理解度を高める 夏智を行うことが しーミングURI トリーミングURI トリーミングURI トリーミングURI 「 日本人ですか? とめ したっですか? とめ したの辞書ですか? とめ との に来ますか?	い事項は質問をする ため、予習を行うご たを活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 国調、単母、鼻音 「の間 I、IIを学ぶ 「の」の使い方、 東習に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「昭割に、IIを学ぶ 「日本をので 「日本をので 「日本をので 「日本をので 「日本をので 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「日本で 「の 「 「 「 「 「 「 「 」 「 「	□ Instructor Professionally Experienced 音を学ぶ。 住住う母音を学ぶ。 聞き方と答え方、動詞述語文を学ん 、 副詞「也」、疑問詞「什么」を学ん 、 こ し +動詞、副詞「都」を学ぶ。 、 反復疑問文を学ぶ。 、 、 吧」の使い方、「去/来/回/到 ぶ。		
Charact	Plan 1st Quarter 2nd	連絡員:井のイ 目標2000 ①沢テキの対象 ①アキの対象 ①アキの対象 のf Class / [11st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 12th 13th 14th	上英俊 ため、次の自己学 マントを把握し必ず後 の添付CDや音声の シレない欠席条件 Division in Le □ Aided by IC □ Aided by	要単中に理解できな 認知必要である。。 認知解育うことづURI なたりーミングURI に本人ですか? とめ したの辞書ですか? とめ に来ますか? とめ とめ に来ますか? とめ との に来ますか? とめ との にますか? との との にますか? との との にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの たの たの たの にますか? との たの たの たの たの たの たの たの	い事項は質問をする ため、予習を行うご た活用し、中国語の 次課	こと。 D発音を自主的線 Remote Class Goals 国調内日音,第 国調内日音,第 夏合称代目、IEを学ぶ 原 第四内日音,第 第四内日音,第 第四内日音,第 第四内日音,第 第四月二、	□ Instructor Professionally Experienced ====================================		
Charact	Plan 1st Quarter 2nd	連絡員:井の 目標達成の対象 ①学習業で学う。 ③テキス外象 of Class / [11st 2nd 3rd 4th 5th 6th 7th 8th 9th 11th 12th 13th 13th 13th 15th	上英俊 ため、次の自己学 マントた後に必ず後 の添けCDや音声 としない欠席条件 Division in Le □ Aided by IC □ Aided by IC	要単中に理解できな 認知必要である。。 認知解育うことづURI なたりーミングURI に本人ですか? とめ したの辞書ですか? とめ に来ますか? とめ とめ に来ますか? とめ との に来ますか? とめ との にますか? との との にますか? との との にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの にますか? との たの たの たの たの にますか? との たの たの たの たの たの たの たの	い事項は質問をする ため、予習を行うご た活用し、中国語の 次課	と。 D発音を自主的線 Remote Class Goals 国調、単音、鼻音のの 電調、単音に、子 電調、母音に、子 電調、の使い方、 取習I、IEを学ぶ 「 の可し、IEを学ぶ 「 取習I、IEを学ぶ 「 取習I、IEを学ぶ 「 取習I、IEを学ぶ 「 取習I、IEを学ぶ 「 取習I、IEを学ぶ 「 取得した」、「 の のたいでの などの 「 ののたいでの 「 ののたいでの 「 ののたいでの 「 ののたいでの 「 ののたいでの 「 ののたいでの 「 ののたいでの 「 ののでの 「 ののたいでの 「 ののでの 「 ののでの 」 ののでの 「 ののでの 「 ののでの 「 ののでの 」 ののでの 「 ののでの 「 ののでの 「 ののでの 」 ののでの 「 ののでの 」 ののでの 「 ののでの 」 のの 「 ののでの 」 のの 「 ののでの 」 ののでの 「 ののでの 」 のの 「 ののでの 」 のの 「 ののでの 」 のの 「 ののでの 」 のの 」 のの 「 ののでの 」 のの 」 のの 「 のの 」 のの 」 のの 「 のの 」 のの 」 のの 「 のの 」 のの 」 のの 」 のの 、 のの のの の	□ Instructor Professionally Experienced ====================================		

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	Y	/ear	2023		Course Title	Chinese-2	
Course	Informa	tion	•						
Course Co	ode	5409				Course Category	/ Genera	/ Elective	
Class Form	mat	Lecture				Credits	School	Credit: 1	
Departme	ent	Electrical Compute	and Con r Engine	nputer Ei ering Cou	ngineering Jrse	Student Grade	4th		
Term		Second S	Semester			Classes per Wee	ek 2		
Textbook Teaching		虞萍:「⁄	ペアで学に	ぼう!中国]語」朝日出版社.				
Instructor	r	ARIKAW	A Kei						
Course	Objectiv	es							
develop c (2) The g communi	onversatio oal is to be cate in sim	nal skills an e able to ex ple Chinese	d reading press thir e.	g compre ngs arou	ehension.	greetings and da	ily conversatio	ary and grammar rules, and to ons, in practical Chinese, and to ture.	
Rubric						1			
			Ideal L	_evel		Standard Level		Unacceptable Level	
Achievem	Achievement 1			se, learne ulary and Illy develo	skills and reading	Mastered the pr Chinese, learned vocabulary and and developed of skills and readin comprehension.	l to use basic grammar rule conversational	pronunciation of Chinese, s, learned to use basic vocabulary	
Achievem	ient 2		daily conversations, in practical daily conve				ngs around reetings and ons, in practic mmunicate in		
Achievem	ient 3		unders	f thinking	deeper of the Chinese , lifestyle, and	Gained a deeper of the Chinese v lifestyle, and cul	vay of thinking		
Assigne	d Depar	tment Ob	jectives	S					
Teachin	ig Metho	d							
Outline		aim to ac	chieve a l and takir	balanced ng time i	n is the key to stur level of listening, mproving it. We we smoothly, while	speaking, readin vill also deepen o	g, and writing ur understand	se is no exception. In this class, we skills while learning pronunciation ling of the different cultures so that ty and culture.	
Style		"(1) Pre- (2) Active (3) Work (4) Ask c	study and ely partic hard on juestions	udy and learn the learning points before attending classes. y participate in class. ard on vocal and conversational practice. estions that arise during the pre-study or that you do not understand during classes. detoshi Inoue"					
Notice		(1) Pre-s (2) Be su (3) Self-r	tudy to k ire to rev practice (know the view after Chinese r	tudents are requir learning points ar learning in class. pronunciation usin more of classes w	nd improve under a the CDs that co	rstanding of c ome with the f	asses. 	
Charact	eristics	of Class /							
□ Active				led by IC	9	☑ Applicable to	Remote Class	□ Instructor Professionally Experienced	
Course	Plan								
			Theme			(Goals		
		I I CT	Review o semester		tent learned in th	e first	Review the co	ntent learned in the first semester	
		2nd	Lesson 7	:你喝茶题	≧喝茶?		_earn A 是 B, comparison e>	想 + verb, 要 + verb, and pressions.	
		3rd I	Lesson 7	: Gramm	ar summary	l	earn Practice	I and II.	
	3rd Quarter	4th	Lesson 8	: 你喜哪作	‡?	a	earn the inte and expression beginning of a	rrogative 哪, reduplication of verbs, ns with a topicalized object at the sentence.	
2nd		5th	Lesson 8	: Gramm	ar summary		earn Practice		
Semeste r		6th	Lesson 9	:你每天睡	睡几个小?	l	_earn period (complement 後	amount of time), the state 引, and 怎么.	
		7th	Lesson 9	: Gramm	ar summary		Learn Practice I and II.		
		8th	Review a	ind midte	erm test	F	Review the co	ntent learned.	
		9th	Lesson 1	0: 你才去	哪儿了?	 	earn how to	use verb + and 了 that express res, and 又, 再, and .	
	4th	10th	Lesson 1	0: Gramı	mar summary		earn Practice		
	Quarter	11th	Lesson 1	1: 你在干	什么呢?	0	_earn about the aspects of progressive and continuous, 一会儿, 有点儿, 一点儿, and 打算 + /erb.		

		12th	Lesson 11: G	Frammar summary		Learn	Practice I and II.			
		13th	Lesson 12: 伪	《会开?		Learn object	the adverbs 会, 能, an , and 别/不要 that expr	d 可以, the double ess prohibitions		
		14th	Lesson 12: G	rammar summary		Learn	Practice I and II.			
		15th	Summary of	the second semester		Review	eview and answer to questions.			
		16th	Final exam							
Evaluati	on Metho	d and V	Weight (%)							
		Examina	ation	Tasks	Small tests		Others	Total		
Subtotal		60		20	20		0	100		
Basic Prof	iciency	60		20	20		0	100		
Specialize Proficienc	d y	0		0	0		0	0		
Cross Are Proficienc			0	0		0	0			

Д Д	kashi Co	ollege	Year		2023		C	ourse Title	German-1	
Course	Information	tion								
Course Co		5410				Course Categor	γ	General /	Elective	
Class For	mat	Lecture				Credits		School Cre		
Departme	ent		and Compute			Student Grade		4th		
Term		First Sem	nester			Classes per We	ek	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E	日出版社)		
Instructor	r	ΥΟΚΟΤΑ	Kazuya							
Course	Objectiv	es								
•The goal of a dictic •The goal •The goal social con	l is to clear onary. l is to be a l is to have	ly understa							ermediate German with the help n interactive practice. g German reading materials on	
Rubric			-1			1			1	
			Ideal Level			Standard Level			Unacceptable Level	
Achievement 1			sentence st and can rea German wit dictionary.	ruct id ir :h th	ne help of a	Clearly underst sentence struct and can read in German to som the help of a di	ure an iterme ie exte	d rules, diate nt with	Do not clearly understand German sentence structure and rules, and cannot read intermediate German even with the help of a dictionary.	
Achievem	Achievement 2			rma	ings around n, using what interactive	Can express thi them in simple what they learr	Germa	ound an, using	Cannot express things around them in simple German.	
Achievem	chievement 3 Can deepen their understar of the German way of think and lifestyle through readin German reading materials o social conditions.				way of thinking rough reading g materials on	Can deepen the of the German and lifestyle to through reading reading materia conditions.	way of a certa g Germ	thinking ain extent an	Cannot deepen their understanding of the German way of thinking and lifestyle through reading German reading materials on social conditions.	
Assiane	d Depar	tment Ob	iectives							
	g Metho									
reachin	ig riceno		nurnose of th	nis d	lass is to learn th	e hasic gramma	r of Ge	erman and	to balance students' overall	
Outline		German interactiv German	reading, writir e practice tha that is practica	ng, l it us al ai	istening, and spea se the grammar to	aking abilities. W opics in each sec on, students will	/hen le tion w impro	arning gra ill be incorj ve their Ge	mmar, we will incorporate many porated so students can learn erman reading comprehension	
Style		In additio		a lo h re	t of interactive pro				udents will also improve reading	
Notice		given.			a few dictionaries be easy to use and more of classes v	-			uld choose a dictionary from (2) Properly do the assignments	
Charact	orictics		Division in	-		in not be eligible		valuation.		
				Le	arning	1			Instructor Professionally	
Active	Learning		Aided by	/ IC	т	☑ Applicable to	o Remo	ote Class		
Course	Plan									
			Theme				Goals			
				o Ge	erman and Germa	ny	Under	stand the a	alphabet and pronunciation rules.	
					erman and Germa		Under		unciation rules and greeting	
		3rd I	Lektion 1					nar: Under Jation of ve	rstand present tense personal erbs.	
	1st Ouartor	4th	_ektion 1				Gramr	mar: Undei	rstand German word order.	
	Quarter	5th I	_ektion 1				Readir	ng: Unders	tand Japan inside Germany.	
		6th I	_ektion 1				Gramr	nar: Undei	rstand sein and haben.	
1st Semeste		7th	Lektion 2				Gramm		rstand the gender and number of	
r		8th	_ektion 2						tand German beer and wine.	
	9th	_ektion 2						rstand case inflections of articles		
							and no			
	2nd		_ektion 3						tand Berlin	
	Quarter	11th I	Lektion 3					Grammar: Understand irregular verbs and the imperative mood.		
		12th	Lektion 4				Grammar: Understand Europe and the EU.			
		13th	_ektion 4				Grammar: Understand definite and indefinite articles.			
L	1						unucie	J.		

		14th	Lektion 5			Reading: Understand the part-time jobs of German youth.					
		15th	Review			Review the conte	ent learned in the	first semester.			
		16th	Final exam			Understand the c	content learned.				
Evaluation Method and Weight (%)											
	Exa	amination	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			ourse Title	German-2	
Course	Informa	tion								
Course Co	ode	5411				Course Categor	y	General /	'Elective	
Class For	mat	Lecture				Credits		School C	redit: 1	
Departme	ent			d Computer Er Igineering Cou		Student Grade		4th		
Term		Second S	Seme	ester		Classes per We	ek	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	亨 (朝日出版社)			
Instructor	r	YOKOTA	Kaz	uya						
Course	Objectiv	'es								
of a dictic	onary. l is to be a l is to have	•							ermediate German with the help in interactive practice. g German reading materials on	
Rubric						1				
			Id	leal Level		Standard Level			Unacceptable Level	
Achievem	chievement 1			learly underst entence struct nd can read in erman with th ictionary.	ure and rules, itermediate	Clearly understa sentence struct and can read in German to som the help of a die	ure an iterme ie exte	d rules, diate nt with	Do not clearly understand German sentence structure and rules, and cannot read intermediate German even with the help of a dictionary.	
Achievem	ient 2		th th	an express thi nem in Germa ney learned in ractice.	n, using what	Can express thi them in simple what they learn	Germa	ound an, using	Cannot express things around them in simple German.	
Achievem	nievement 3 signed Department O			f the German nd lifestyle thr	eir understanding way of thinking ough reading g materials on s.	Can deepen their understanding of the German way of thinking and lifestyle to a certain extent through reading German reading materials on social			understanding of the German	
Assigne	d Depar	tment Ob	iect	tives						
	ng Metho		<u> </u>							
Outline		German interactiv German	réad /e pr that	ling, writing, l ractice that us is practical ar	istening, and spea se the grammar to	aking abilities. W opics in each sec on, students will	tion le impro	arning gra ill be incoi ve their G	I to balance students' overall ammar, we will incorporate many porated so students can learn erman reading comprehension social conditions.	
Style		compreh	ensi	o classes, a lo on through re noto Hiromi	t of interactive pra adings.	actice will be inc	orpora	ted, and s	students will also improve reading	
Notice		those that	at th	ey think will b	a few dictionaries be easy to use and more of classes v	d bring it to the o	class e	very time	uld choose a dictionary from . (2) Properly do the assignments	
Charact	eristics	of Class /	Div	ision in Lea	arning					
Active	Learning			Aided by IC	Т	☑ Applicable to	o Remo	ote Class	 Instructor Professionally Experienced 	
Course	Plan					1				
			Ther	me			Goals			
				ion 5					erstand personal pronouns.	
				ion 5					erstand prepositions.	
		3rd	Lekt	ion 6				<u> </u>	stand German bakeries.	
	3rd	4th	Lekt	ion 6			future	tense.	erstand modal verbs and the	
	Quarter	5th	Lekt	ion 6			conjur	nctions.	erstand subordinating	
	6		Lekt	ion 7			Readir Germa		stand the travel situation in	
2nd Semeste				ion 7					erstand separable verbs.	
r 8t				ion 7					erstand reflexive verbs.	
	91		Lekt	tion 8					stand Munich.	
		10th	Lekt	ion 8			Gramr adject		erstand case inflections of	
	4th	11th	Lekt	ion 9			Readir	ng: Under	stand Oktoberfest in Munich.	
	Quarter	12th	Lekt	ion 9				mar: Unde ense of ve	erstand the three basic forms and provident of the state	
		13th	Lekt	ion 10			Readir Germa	ng: Under any.	stand the football situation in	
	14th	Lekti	ion 10			Gram	nar: Unde	erstand the perfect tense.		

	15th	Review			Review the conte semester.	ent learned in the	second
	16th	Final exam			Understand the o	content learned.	
Evaluation	Method and V	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		Cours Title		French-1
Course	Informa	tion			1			
Course Co	ode	5412			Course Categor	ry Gen	eral /	Elective
Class Forr	mat	Lecture			Credits	Scho	ool Cr	edit: 1
Departme	ent	Computer	nd Computer Er Engineering Cou	ngineering urse	Student Grade	4th		
Term		First Seme	ster		Classes per We	ek 2		
Textbook Teaching	Matérials)フランス語ノート』	朝日出版社			
Instructor		FUJIMOTO	Tomonari					
In the rec Internatio way to lea	nalization arn differe	of globalizatio does not mal	ke the world uni to learn languad	form, but it reaui	res diverse cultu	ires to co-e	xist. F	ome increasingly important. From the perspective that the best a multicultural and multilingual
Rubric								
			理想的な到達レイ	ベルの目安	標準的な到達レイ	ベルの目安		未到達レベルの目安
評価項目1			Learn the basic proficiency by l French languag	earning the	Learn the basic proficiency by I French languag	earning the		Do not learn the basic French proficiency by learning the French language structure.
評価項目2			Learn the basic proficiency by l vocabulary.		Learn the basic proficiency by l vocabulary.		nch	Do not learn the basic French proficiency by learning French vocabulary.
評価項目3			Can take actior multicultural ar coexistence soo learning French	nd multilingual ciety through	Can take actior multicultural ar coexistence soo learning French	nd multiling		Cannot take action for a multicultural and multilingual coexistence society through learning French.
Assigne	d Depar	tment Obje	ectives					
Teachin	g Metho	d						
Outline		spelling an become ma well with a introduce y the four sk After expla	d pronunciation aster them to so few vocabulario ourself and sea ills: listening, sp	, the rules on the ome extent, your es. While learning isonal greetings, t oeaking, reading,	gender of noun horizon will sude the basic expre he class aims to and writing.	s, and the v denly broad ssions of ev help stude	verb co en, ai veryda nts ac	such as the relationship between onjugation. However, if you nd you can communicate fairly ay conversation, such as how to shieve a balanced mastering of uestions to acquire proficiency.
Notice		In order to imagination spend mor	to learn foreign languages, it's important to make the most of the innate communication skills and ion of the learners, so active participation in classes is required. Also, students are encouraged to ore time for review rather than for pre-study.					
Charact	eristics (Division in Lea					
 Active 			□ Aided by IC		Applicable to	Applicable to Remote Class		□ Instructor Professionally Experienced
6					•			
Course	rian	I				Carl		
		Ist Gu	neme uidance: How cl. eneral explanation nguage	asses will be cond ons about France	ucted / and the French	Goals Understand the genera French land	l char	overview of classes. Understand acteristics of France and the
		2nd Le	sson 0: L'alpha	bet and pronuncia	tion / Greeting	Pronounce	Frenc	h words and greet.
		3rd Le	sson 0: L'alpha	bet and pronuncia	ition / Greeting	Use numbe	ers fro	m 1 to 10.
	1st	4th Le	sson 1: Let's in	troduce yourself!		European	countr	b conjugation. Say names of ies and cities in French.
	Quarter			troduce yourself!				elves in French.
		lai	nguages!	lk about nationali		nouns.		basic rules of the gender of
1st			sson 2: Let's ta nguages!	lk about nationalii	ties and			nationalities, towns, words of others.
Semeste r		8th Re	eview			learned so	far.	he weak points on the content
		9th Le	sson 3: Let's ta	lk about things ar	ound you!	around the	m.	ocabulary and talk about things
		10th Le	sson 3: Let's ta	lk about things ar	ound you!	its specialti	es.	to 20. Say regions of France an
	2nd Quarter	11th Le	sson 4: Let's ta	lk about your fam	ily! (1)	faire.		to 69. Use the verbs avoir and
		12th Le	sson 4: Let's ta	lk about your fam	ily! (1)	Talk about the ages and occupations of their and other people's family members.		
				lk about your fam	, , ,	their family	/ men	haracteristics and personalities c nbers.
		14th Le	sson 5: Let's ta	lk about your fam	ily! (2)	Explain clot	thes.	

		15th	Lesson 6: Let's	talk about thing	s you like!	Talk about things	Talk about things they like.				
		16th	Final exam			Speak and write based on the content learned since week 9.					
Evaluati	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			

A	kashi Co	ollege	Year	2023		Course Title	French-2
Course	Informa	tion			1		
Course Co	ode	5413			Course Categor	ry General	/ Elective
Class For	mat	Lecture			Credits	School (Credit: 1
Departme	ent		nd Computer E		Student Grade	4th	
Term		Second Sen	nester		Classes per We	ek 2	
Textbook Teaching	and/or Materials	釣馨・武内英	も公子『私だけの)フランス語ノート	』朝日出版社		
Instructor		FUJIMOTO T	Tomonari				
Course	Objectiv	es					
understar	nd and pro hange ther	nounce simple m according to	<pre>French expres their person);</pre>	ssions; 2. to be al 3. to understand	ble to conjugate i how expression	regular and irre s (articles, adie	 The specific objectives are: 1. to gular verbs in the present tense ectives, etc.) change according to ces and to form simple sentences.
Rubric							
		3	理想的な到達レイ	ベルの目安	標準的な到達レ/	ベルの目安	未到達レベルの目安
評価項目1		1	Learn the basic proficiency by l French languag	earning the	Learn the basic proficiency by le French languag	earning the	Do not learn the basic French proficiency by learning the French language structure.
評価項目2			Learn the basic proficiency by l vocabulary.	: French earning French	Learn the basic proficiency by le vocabulary.		Do not learn the basic French proficiency by learning French vocabulary.
評価項目3		1	Can take actior multicultural ar coexistence soo learning French	nd multilingual ciety through	Can take action multicultural an coexistence soc learning French	nd multilingual ciety through	Cannot take action for a multicultural and multilingual coexistence society through learning French.
Assigne	d Depar	tment Obje	ctives				
Teachin	ig Metho	d					
Outline		advanced th since the co	nan those of th ontents of the s	e first semester. second semester a	There is indeed a are based on the	o lot to memori contents of the	nmatical items that are a little more ze in elementary grammar, but e first semester, students should be active participation of students.
Style		After explar					questions to acquire proficiency.
Notice		imagination spend more Students wl	of the learner time for revie ho miss 1/4 or	s, so active partic w rather than for more of classes v	pre-study.	s is required. Al	innate communication skills and so, students are encouraged to .
Charact	eristics of	of Class / Di	ivision in Le	arning			
□ Active	Learning		Aided by IC	Т	☑ Applicable to	o Remote Class	 Instructor Professionally Experienced
Course	Plan						
Course		The	eme			Goals	
		1 -t Rev	view of the top	ics covered in the	e first semester,	Can speak and	write in French based on the
		and		the second seme			d in the first semester. breakfast. Can use the verb
		2nd Les	son 7: Let's ta	lk about food!		prendre. Can e	xplain French cuisine.
	3rd	3rd Les	sson 8: Let's go	o on a trip!		Can talk about transport optio future tense.	destinations. Can talk about ns. Can use sentences in the near
	Quarter			lk about the wea		•	g weather expressions.
				ay the time and d		,	ne and duration.
		6th Les	son 10: Let's o	compare.			ig comparison expressions.
		7th Les	sson 11: Let's s	shop!		amount of sho	
2nd Semeste		8th Rev	view			Understanding learned so far.	the weak points on the content
r		9th Les	sson 11: Let's a	ask the way!			and forms. Can give directions.
		10th Les	son 12: Let's e	explain what you	do on a day!	Can create sen the present ter	tences using pronominal verbs in nse.
		11th Les	son 12: Let's e	explain what you	do on a day!	Can talk about	what they do on a normal day.
	4th	12th Les	son 13: Let's t	alk about custom	is!	Can talk about use the verb p	customs of the French people. Can puvoir. Can use personal pronouns.
	Quarter	13th Les	son 14: Let's t ur trip! (1)	alk about what y	ou did during		w to form the perfect tense using
		14th Les		alk about what y	ou did durina	Understand ho	w to form the perfect tense and e using être, and can use them
	-	15th Su	mmary of Less			Can talk about	what they did yesterday based on on a normal day learned in Lesson

	1	6th	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	カ 0		0	0	0	0	0	0		

A	kashi Co	ollege	Year	2023		Course Title	Mathematical Concepts	
Course	Informat	tion	•			·		
Course Co	ode	5414			Course Categor	y General ,	/ Elective	
Class Forr	nat	Lecture			Credits	School C	redit: 1	
Departme	ent	Compute	and Computer E r Engineering Cou	ngineering urse	Student Grade	4th		
Term		Second S	emester		Classes per Wee	ek 2		
Textbook Teaching	and/or Materials	碓氷久ほた	か 大学編入のため	の数学問題集 大	日本図書			
Instructor		MATSUM	IYA Atusi					
(1)確率 (2)線型	Objectiv の諸概念を 代数の諸概 分の諸概念 約枠組を見	理解し、確認 記念を理解し、	実な計算を身に着け 行列やベクトルに 確実な計算を身にご 適用する能力を獲得	t、いろいろな問題 こ関する確実な計算 りけ、いろいろな問 身し、適切な試験答	をこなせるようにか を身につけ、いろい 題をこなせるよう 案の作りかたを身(なること。 いろな問題をこな こなること。 こつけること。	させるようになること。	
以上いずれ	についても	5、各回の小調	式験と期末試験によ	いり達成度をはかる	0			
Rubric								
			理想的な到達レイ	ベルの目安	標準的な到達レヘ	ベルの目安	未到達レベルの目安	
評価項目1			確率の諸概念を- な計算を身につし 題を十分解くこ。	十分理解し、確実 ナ、いろいろな問 とが出来る。	確率の諸概念を理 算を身につけいそ くことが出来る。	理解し、確実な計 らいろな問題を解	確率の諸概念を理解できず、確実 な計算を身につけていないのでい ろいろな問題を解くことが出来な い。	
評価項目2			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 算を身につけいろいろな問題を解 くことが出来ない。	
評価項目3			微積分の諸概念 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	微積分の諸概念を理解できず、確 実な計算を身につけていないので いろいろな問題を解くことが出来 ない。	
評価項目4			抽象的枠組を具 る能力を十分獲得	本的問題に適用す 导している。	抽象的枠組を具体 る能力を獲得して	体的問題に適用す こいる。	抽象的枠組を具体的問題に適用す る能力を獲得出来て いない。	
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho							
Outline		高専で学習って数学的	習した数学に初歩の り能力を高め、さら の受験対策の機会に)確率論の学習を含め し、高度な数学に親	め、これらに関して しめる能力を身にて	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				間を行い確認小試				
Notice		テキストに ように心た	は大学編入試験の問 がけ、講義の進行と かにはならないので	題集で、豊富な問題 は別に各自でどん	題量を含んでいる。 どん学習を進めてい		る範囲を自分自身で見定めて調べる 受け身の受講姿勢では編入試験対策	
Charact	eristics o	of Class /	Division in Le	arning				
☑ Active			☑ Aided by IC		☑ Applicable to	Remote Class	Instructor Professionally Experienced	
Course	Dlan							
course	ridíl	-	Theme		I,	Goals		
		1st	基礎数学の復習1	牧学Aの内容につい ⁻		基礎数学の内容を	を理解している。	
		2nd	基礎数学の復習2	牧学Bの内容につい ⁻	て、復習と問題	基礎数学の内容を	を理解している。	
		- 3rd -	一変数関数の微分	こついて、復習と問	題演習をおこな	1変数関数の微分	うについて理解している。	
2nd Semeste	3rd	- 4th -	一変数関数の積分	こついて、復習と問	題演習をおこな	1変数関数の積分	汁について理解している。	
	Quarter	5th	関数の展開 数列の極限、級数と ラー展開について、	≤べき級数、テイラ 復習と問題演習を	ーの定理とテイ おこなう。	関数の展開につい	ヽて理解している。	
		6th	多変数関数の微積が 主として二変数関数 复習し、問題演習を	奴の、偏微分、極値	の判定について	多変数関数の微分	うについて理解している。	
	- 	7th	多変数関数の微積分 主として二変数関数 去を復習し、問題源	如の重積分について	、計算法と利用	多変数関数の積分について理解している。		
			課題 運動に取り組み補改	食すべき分野を確認	a a a a a a a a a a a a a a a a a a a	適切な試験答案の作り方を身につける。		

9th 微分方程式 三酸の微分方程式の基本的な型についての解去 を復習し、問題演習をおごなう。また基本的な型から かや外れるような問題や、連立微分方程式を経くことができる。定数 係数 2 階斉次線形微分方程式を解くことができる。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 2010000211、線形独立・線形従属などの復習と問題 演習をおこなう。 ペクトル 空間内の図形、線形独立・線形従属などの復習と問題 (クリレー型間がの図集法などの復習と問題) (クリレー型間がの図集法などの復習と問題) (クリレに関する問題を解くことが出来る。 11th 11th 行列と行列式 行列と行列式の計算、階数、連立方程式、逆行列、連 (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と聞題) (ロップ方程式の解集法などの復習と問題) (ロップ方程式の解集法などの復習と問題) (ロップ方を注意) 行列に関する問題を解くことが出来る。 12th 線形変換 (解影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) (ロップトル空間)(ロッマ、復習を問題) (ロップトル空間)(ロッマー、復習と問題) (ロッズ)(ロッゴ)(ロッマー)(ロッマ)(ロッゴ)(ロッゴ)(ロッマー)(ロッマ)(ロッゴ)(ロッゴ)(ロッゴ)(ロッゴ)(ロッゴ)(ロッゴ)(ロッゴ)(ロッゴ												
4th Quarter 10th 空間内の図形、線形独立・線形従属などの復習と問題 ヘクトルに関する問題を解くことが出来る。 11th 「売別と行列式 行列と行列式の計算、階数、連立方程式、逆行列、連 立一次方程式の解法などの復習と問題演習をおこなう。 行列に関する問題を解くことが出来る。 11th 「デ別と行列式の計算、階数、連立方程式、逆行列、連 立一次方程式の解法などの復習と問題演習をおこなう。 行列に関する問題を解くことが出来る。 11th 「デ別と行列式の計算、階数、連立方程式、逆行列、連 立一次方程式の解えなどの復習と問題演習をおこなう。 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 線形変換とその表現行列、行列の固有値と固有ペクト ル、行列の対角化について、復習と問題演習をおこなう。 「初いこ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 「ジーンで物理ないため」 14th 「香澤 古典的確率概念と具体的問題 素朴な確率概念と、条件つき確率や明待値などの概念 をすび、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。 15th 「さまざまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 」 15th 「さまざまな複合的問題 複数の分野にまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 通切な試験答案の作りかたを身につけている。 15th 「ままざまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 通切な試験答案の作りかたを身につけている。 16th 期末試験 Evaluation Method and Weight (%) 「しいする」 0 0 0 0 基礎的能力 50 0 0 0 0 0 事門的能力 0 0 0 0			9th	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	をおこなう。また]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。					
4th Quarter 11th 行列に関する問題を解くことが出来る。 4th Quarter 11th 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 し、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 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 し、行列の対角化について、復習と問題演習をおこなう。 ネ形な運転・次元、線形写像に関 ことが出来る。 13th ベクトル空間、部分空間、基底・次元、線形写像に可 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、素事象の確率、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。 15th さまざまな複合的問題 複数の分野にまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 通切な試験答案の作りかたを身につけている。 Evaluation Method and Weight (%) 発表 相互評価 態度 ポートフォリオ その他 Subtotal 50 0 0 0 0 0 専門的能力 0 0 0 0 0 0 0			10th	空間内の図形、線形	空間内の図形、線形独立・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							
4th Quarter 12th 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 12th パクトル空間、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。 ポイクトル空間、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。 ペクトル空間、部分空間、基底・次元、線形写像にの マクトル空間、部分空間、基底・次元、線形写像にの いて、やや抽象的な問題の復習と演習をおこなう。 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。 15th さまざまな複合的問題 複数の分野にまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 通切な試験答案の作りかたを身につけている。 Evaluation Method and Weight (%) 重読的能力 50 0 0 0 50 100 専門的能力 0 0 0 0 0 0 0			11th	行列と行列式の計算	行列と行列式 行列と行列式の計算、階数、連立方程式、逆行列、連 (二回) - 同日まる開始を留くことが出来る							
13th パクトル空間、部分空間、基底・次元、線形写像について、物がとうなに向いて、物がとうなに向いて、物かとうなに向いて、やや抽象的な問題の復習と演習をおこなう。 イクトル空間、部分空間、部分空間、基底・次元、線形写像について、体型に向いるのがとの、 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 さまざまな複合的問題 複数の分野にまたがる知識を必要とする問題をいくつ かとりあげ、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 期未試験 Evaluation Method and Weight (%) 重礎的能力 50 0 0 0 50 100 基礎的能力 50 0 0 0 0 0 0 専門的能力 0 0 0 0 0 0 0			12th	線形変換とその表現 ル、行列の対角化に	線形変換とその表現行列、行列の固有値と固有ベクト 線形変換、固有値と固有ベクトルに関する ル、行列の対角化について、復習と問題演習をおこな ことが出来る。							
Image: Provide a state of the state of			13th	ベクトル空間、部分	や間、基底・次元 問題の復習と演習	、線形写像につ をおこなう。			R元、線形写像に関			
15th 複数の分野にまたがる知識を必要とする問題をいくつ かとりあげ、問題演習をおこなう。 適切な試験答案の作りかたを身につけている。 16th 期末試験 Evaluation Method and Weight (%) 1 13験 発表 相互評価 態度 ポートフォリオ その他 Total Subtotal 50 0 0 0 0 50 100 基礎的能力 50 0 0 0 0 0 0 0 専門的能力 0 0 0 0 0 0 0 0			14th	確率 古典的確率概 素朴な確率概念と、 を学び、具体的な問	稔と具体的問題 条件つき確率や期 1題の例をとりあけ	待値などの概念 る。	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					
Evaluation Method and Weight (%) 試験 発表 相互評価 態度 ポートフォリオ その他 Total Subtotal 50 0 0 0 0 50 100 基礎的能力 50 0 0 0 0 50 100 専門的能力 0 0 0 0 0 0 0			15th	複数の分野にまたがる知識を必要とする問題をいくつ			適切な試験答案の作りかたを身につけている。					
試験 発表 相互評価 態度 ポートフォリオ その他 Total Subtotal 50 0 0 0 0 50 100 基礎的能力 50 0 0 0 0 50 100 專門的能力 0 0 0 0 0 0 0 0			16th	期末試験								
Subtotal 50 0 0 0 50 100 基礎的能力 50 0 0 0 0 50 100 專門的能力 0 0 0 0 0 0 0 0	Evaluati	on Meth	<u>od and ۱</u>	Weight (%)								
基礎的能力 50 0 0 0 0 0 0 100 專門的能力 0 0 0 0 0 0 0 0 0		試	検	発表	相互評価	態度	ポートフォリオ	その他	Total			
專門的能力 0 <td>Subtotal</td> <td colspan="2">btotal 50</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>50</td> <td>100</td>	Subtotal	btotal 50		0	0	0	0	50	100			
	基礎的能力	基礎的能力 50		0	0	0	0	50	100			
分野横断的能力 0	専門的能力	専門的能力 0		0	0	0	0	0	0			
	分野横断的	1能力 0		0	0	0	0	0	0			

Akashi College			Year	Year 2023		Course Title	Overseas Training II	
Course Information								
Course Code 5415					Course Category	y Genera	General / Elective	
Class Format Practical t			U		Credits	School	School Credit: 1	
			and Computer Engineering r Engineering Course		Student Grade	4th	4th	
Term Year-rour		Year-round	nd		Classes per Wee	k 1		
Textbook and/or Teaching Materials								
Instructor	r	All faculty	of the departme	ent				
Course Objectives								
 Can make efforts to increase knowledge and skills through participating in training overseas. Can develop a broad perspective by participating in training in different cultures. Can communicate with people involved in the local area using English, etc. 								
Rubric								
			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.		Cannot make efforts to increase knowledge and skills through participating in training overseas.	
Achievem	ient 2		participating in training in different cultures.		Can develop a b perspective by p training in differ	participating ir	Cannot develop a broad perspective by participating in training in different cultures.	
Achievement 3			Can fully comm people involved smoothly using	in the local area	Can communicate with people involved in the local area using English, etc.			
Assigne	d Depar	tment Obje	ectives					
Teaching Method								
Outline		communica summer va content wil (manner le	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 vacation, etc. The number of days for the training must be more than five days. This course's vill amount to over 45 hours in total. These hours include training overseas, preliminary guidance lesson, preliminary research on the training destination), debrief session, and self-study time for reports to be submitted to relevant institutions, etc.					
Style Pre-orientation, on-site training, and debriefing								
Notice		students and trainee, inc	Students are required to keep in close contact with their class teacher or supervisor. During the training, students are required to actively engage and communicate with the local people and act appropriately as a trainee, including their clothing and language. No conditions for missing classes that will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning								
☑ Active					☑ Applicable to Remote Class		□ Instructor Professionally Experienced	
Course Plan								
		Th	ieme		0	Goals		
	1st Quarter	1st						
		2nd						
		3rd						
		4th						
		5th						
1st Semeste r		6th						
		7th						
		8th						
	2nd Quarter	9th						
		10th						
		11th 12th						
		12th						
	quui toi	14th						
		15th						
			final exam					
2nd Semeste	3rd Quarter	1st						
		2nd						
		3rd						
		4th						
r		5th						
		6th						
		7th						

		8th			
		9th			
		10th			
		11th			
	4th	12th			
	Quarter 13	13th			
		14th			
		15th			
		16th	No final exam		
Evaluati	ion Meth	od and W	/eight (%)		
			Report	Presentation	Total
Subtotal			50	50	100
Basic Prof	Basic Proficiency		0	0	0
Specialize	ed Proficier	псу	0	0	0
Cross Are	a Proficier	ю	50	50	100

-	Akashi Co	ollege	Year	2023		Course Title	Japanese IV-1
Course	Informa	tiọn				i	
Course C		5416			Course Category		Compulsory
Class For	mat	Lecture	Ind Computer E	nainoorina	Credits	School C	redit: 1
Departme	ent		Engineering Cou		Student Grade	4th	
Term		First Seme			Classes per Wee		· · · · · · · · · · · · · · · · · · ·
Textbook Teaching	and/or Materials	担当者かプ ーズ演習』 版)	リントを配布する (スリーエーネッ 	5。 <参考教材>鎌 ・トワーク)、浜田	出美千子・仁科浩美 麻里ほか著『大学生 	著『アカテミッ と留学生のため	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
Instructo	-	KUBOTA I	kumi				
1. 適切でき	Objectiv 効果的なこ メートとの	とばを使い、身	近な話題をテー ^を	マにして論文が書け おして、自分の日本	する。 S語力や考え方を見ī	直すことができる	5
Rubric							••
			理想的な到達レイ	ベルの目安	標準的な到達レベ	ルの目安	未到達レベルの目安
評価項目1	-			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 方に不自然な点は しており、ある程 が書ける。	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	2		し、自分の日本語	の言語活動に参加 語や考えを見直す 手にもコメントや ができる。	クラスメートとの し、自分の日本語 ことができる。	言語活動に参加 や考えを見直す	クラスメートとの言語活動にある 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	ed Depar	tment Obje	ectives				
Teachir	ng Metho						
Outline		本授業ではを養う。	、アカデミック・	ライティングに必	要な言語表現を学び	「、学術的な文章	が書けるようになるための日本語力
Style		学術的な文	 章に触れるととも ギレス・マヤデニ	に、論文の構成を	意識しながら実際に	文章を書く練習	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				<u>-</u> (割合) 1/4以上の		い。週期に使える	ようになるための旅自で行う。
	teristics		Division in Le				
☑ Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote Class	Instructor Professionally Experienced
			□ Aided by IC	T	☑ Applicable to	Remote Class	
		TI	· · · · ·	T		Remote Class	
			□ Aided by IC neme ・リエンテーション		C	Goals 受業の目標および	Experienced /
		1st 7	neme	,	C 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Goals 受業の目標および 論文を書くときに	Experienced /
		1st オ 2nd イ ロー語	neme リエンテーション ントロダクション	、 、 書き言葉)	C ±	Goals 受業の目標および 論文を書くときに 自分が授業で扱い きる。	Experienced 「内容を把握する。 気をつけるべきことがわかる。 いたいテーマについて考えることが
☑ Active Course		1st オ 2nd イ 当rd 論単	neme リエンテーション ントロダクション 語の言い換え(書 文の構成	✓ ✓ 書き言葉) □語と漢語)		Goals 受業の目標および 自分が授業で扱い きる。 どのように論文を いがわかる。 は論のまとめ方か	Experienced /
		1st オ 2nd イ単 3rd 論単 4th 本単 5tb 文	L Deme リエンテーション ントロダクション 語の言い換え(証の言い換え(話の言い換え(話の言い換え(が の種類	✓ ✓ 書き言葉) □語と漢語)		Goals 受業の目標および 会文を書くときに 自分が授業で扱い きる。 どのように論文で かがわかる。	Experienced
	Plan 1st	1st オ 2nd ゴ単 3rd 論単 4th 本単 5th 算単	L Deme リエンテーション ントロダクション 語の言い換え(証の言い換え(話の言い換え(話の言い換え(が の種類	/	() () () () () () () () () () () () () (Goals 受業の目標および 意業の目標および 自分がほどで扱い きる。 どのように論って ががわかまとめ方が 意見、行動 構短いである。 なの背景説明る	Experienced
Course	Plan 1st	1st 才 2nd イ 単 3rd 論単 4th 本単 5th 文単 6th 序 7tb 序	neme リエンデーション ントロダクション 語の言い換え((新命の高い換え(部の 語の言い換え(部の 語の 言い換え(部の 語の 言い換え(部の 記の 書の 書の 書の 書の 書の 言い 換え(部の 言い 換え(第 二 二 の 言い 換え(第 二 二 の 二 の 二 の 二 の 二 の 二 の 二 の 二 の 二 の	✓ 書き言葉) □語と漢語)	(ま こ た 、 、 、 、 、 、 、 、 、 、 、 、 、	Goals 受業の目標およさ (合分がる) をつかりのです。 たまで、 かかのまたで、 かかののに 一般で、 たまで、 なったので、 たまで、 た た た た た た た た た た た た た	Experienced 「内容を把握する。 気をつけるべきことがわかる。 たいテーマについて考えることが 構成したらわかりやすい論文になる でわかり、与えられたテーマについて な考え、書いてみることができる。 かを述べる文それぞれの特徴と、どこ る文であるかがわかる。そのうえ ちる。 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。 から問題点が見つけられる。また、
	Plan 1st	1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序	neme リエンデーション ントロダクション 語の言い換え((新命の高い換え(部の 語の言い換え(部の 語の 言い換え(部の 語の 言い換え(部の 記の 書の 書の 書の 書の 書の 言い 換え(部の 言い 換え(第 二 二 の 言い 換え(第 二 二 の 二 の 二 の 二 の 二 の 二 の 二 の 二 の 二 の	/ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い う向付け) 長い文/複数の文)	() () () () () () () () () ()	Goals 受業の目標およて 受業のの目標およて 自分が。 このおかでで扱い きのようかる。 たこのがかのていたでした にしていたに まののが、 についたた まののが、 そのが、 についた に たのの に した た のの た のの た の た の た の た の た で の た の た	Experienced
Course	Plan 1st	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意	neme リエンテーション ントロダクション 語のの調い なのの調い たい のの 言とい 換え(系 の の の の の 言 、 (系 の の の の の の の の の の の の の の の の の の	ノ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い ジャンルによる使い う向付け) そい文ノ複数の文) 二位概念)	() () () () () () () () () ()	Goals 受業の目標およきに うかが見ていた をでした をのかわのま論ででした をのがわのま論でででした たまでのがかのま。 たまでのがかのまででのができた。 していたでででのができた。 していたででのででででのです。 していたでででのででででででででで、 していたででででででででででででで、 していたででででででででででででででででで、 していたでででででででででででででででででででででででででででででででででででで	Experienced 「内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが ご構成したらわかりやすい論文にな にな考え、書いてみることができる。 からであるかがわかる。そのうえ なであるかがわかる。そのうえ たる文であるかがわかる。そのうえ たる文であるかがわかる。そのうえ たることができる。 こ たつ方法がわかり、与えられたテーマについ なを考え、書いてみることができる。 こ たつう方法がわかり、与えられたテーマについ たす。 こ たつうた法がわかり、与えられたテーマについ たす。 こ たのできる。 たついてきる。 こ たついて論文の序論が書ける。
Course	Plan 1st	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意 9th 本意	heme リエンテーション ン語のののすこい 文語 (新語ののの) 文語 (新語のの) 文語 (新語の) 本語のの でのの) 本語のの での) 本語のの での) 本語のの での) 本語のの での) 本語のの での) での) 本語のの での) での) での) での) での) での) での) で	/ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い ジャンルによる使い う向付け) い文/複数の文) 二位概念) 音潔な表現)	() () () () () () () () () ()	Goals 受業のの目標およで、 受業文分が。 富く業 このためのを書授業 このためので、 なり、 このためので、 このに、 このに、 <tr< td=""><td> Experienced 「内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが ご構成したらわかりやすい論文にな にな考え、書いてみることができる。 かを述べる文それぞれの特徴と、どの る文であるかがわかる。そのうえ たることができる。 から問題点が見つけられる。また、 こうに解決しようとするのかという のいて論文の序論が書ける。</td></tr<>	Experienced 「内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが ご構成したらわかりやすい論文にな にな考え、書いてみることができる。 かを述べる文それぞれの特徴と、どの る文であるかがわかる。そのうえ たることができる。 から問題点が見つけられる。また、 こうに解決しようとするのかという のいて論文の序論が書ける。
Course	Plan 1st	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 亭意 10th 本意	heme リエンテーション ン語のののする 文語のののののののののののののののののののでののです。 薬語のののののののののののののののののののののののののののののののののののの	/ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い ジャンルによる使い う向付け) い文/複数の文) 二位概念) 音潔な表現)		Goals 受業の大きに 受命の書授 にるのの書で、 たて、 たて、 たて、 たて、 たて、 たて、 たて、 たて、 たて、 たて	Experienced バ内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが と構成したらわかりやすい論文にな たかり、与えられたテーマについで また考え、書いてみることができる。 かなであるかがわかる。そのうえ なる文であるかがわかる。そのうえ たる。 と行う方法がわかり、与えられたテ・ 書いてみることができる。 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 のいて論文の序論が書ける。 いたわかり、両者を書き分けること; して事実が説明できる。 わに導いた意見が書ける。
Course	Plan 1st Quarter	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意 10th 本意 11th 本	heme リンテーション ション 文語 文語 次語 次目 (1)	/ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い ジャンルによる使い う向付け) い文/複数の文) 二位概念) 音潔な表現)		Goals 受業の目標に 受強ながない。 そので、 たまで、 たまで、 たまで、 たまで、 たまで、 たまで、 たまで、 たま	Experienced バ内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが と構成したらわかりやすい論文にな たかり、与えられたテーマについで また考え、書いてみることができる。 かなであるかがわかる。そのうえ なる文であるかがわかる。そのうえ たる。 と行う方法がわかり、与えられたテ・ 書いてみることができる。 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 のいて論文の序論が書ける。 いたわかり、両者を書き分けること; して事実が説明できる。 わに導いた意見が書ける。
Course	Plan 1st Quarter 2nd	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意 10th 本意 11th 本	neme リエンテーション シラーション フククション マクククション マクククション マクククション マククク ののののののののののののののののののののののののののののののののの	/ 書き言葉) ロ語と漢語) 公詞化) ジャンルによる使い ジャンルによる使い う向付け) い文/複数の文) 二位概念) 音潔な表現)		Goals 受命 受命 をが。 をかい たま をかい たま をかい たま たる の た うか た た る の た うか た た る の た うか た た る の た うか た た る の た うか た た る の た うか の た うか の た うか の た うか の た うか の た うか の た うか の た うか の た うか の た う か の た う か の た う か の た う か の た う か の た う か の た う か の た う か の た つ ら た う か の た つ の た う か の た つ の た う か の た つ た う か の た つ 、 こ る の か か の た つ 、 た う か の た つ 、 た う か の た 、 要 い の つ い つ に 、 、 要 い の つ い の た た の が う の が う の た 、 、 つ い の た た う の が 、 た う の が う の た う か う た う の た う の が う の が う の た う の た う の た う の う の う の う の う の た う の た う の た う の う の	Experienced バ内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが ご構成したらわかりやすい論文にな になってあるかがわかる。そのうえ たな考え、書いてみることができる。 から問題点が見つけられる。また こうに解決しようとするのかという いたかかり、両者を書き分けること; して事実が説明できる。 わに導いた意見が書ける。
Course	Plan 1st Quarter	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意 9th 本意 10th 本意 12th 本	neme リンテーション ショコン フク換 ス語 流語 のののので のので のので のので のので のので ので のので ので	 / 		Goals 受命するのか 気気のの していた していた していた していた していた していた していた していた していた した した した した した した した した した し	Experienced バ内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが と構成したらわかりやすい論文にな たかり、与えられたテーマについ、 な考え、書いてみることができる。 かなであるかがわかる。そのうえ なる文であるかがわかる。そのうえ たる文であるかがわかる。そのうえ たるうに解決しようとするのかという のいて論文の序論が書ける。 たって事実が説明できる。 むに導いた意見が書ける。 その中の論がどのように展開され いて論文の本論が書ける。 その中の論がどのように展開され いて論文の本論が書ける。
Course	Plan 1st Quarter 2nd	1st 才 1st 才 2nd イ単 3rd 論単 4th 本単 5th 文単 6th 序 7th 序意 8th 序意 9th 本意 10th 本意 12th 本 14th 結	neme リンテーション シラククション マククション マククション マククション マククション マククション マククション 電気 たいのののののののののののののののののののののののののののののののののののの	 / 		Goals 受 命 1 か な の ま の ま を が の ま の ま か な た の ま の ま か な の た の か の か の た の か の て の か の た の か の た の か の た の か の た の か の た の た の か の た の た の か の た の た の た の か の の に の た の か の の に の の の の の の の の の の	Experienced 「内容を把握する。 気をつけるべきことがわかる。 、たいテーマについて考えることが と構成したらわかりやすい論文になる だわかり、与えられたテーマについて えを考え、書いてみることができる。 かを述べる文それぞれの特徴と、どの る文であるかがわかる。そのうえて ちる。 こ行う方法がわかり、与えられたテー 書いてみることができる。 から問題点が見つけられる。また、 こうに解決しようとするのかという言 のいて論文の序論が書ける。 いがわかり、両者を書き分けることが たって事実が説明できる。 との中の論がどのように展開され

	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

	Akashi Co	ollege		Year	2023		Course Title	Japanese IV-2
Course	Informat	tion						•
Course Co	ode	5417				Course Catego	ry General	/ Compulsory
Class Forr	mat	Lectur	e			Credits	School C	redit: 1
Departme	ent	Electri	cal an	d Computer Er	ngineering	Student Grade	4th	
Term		Secon		ngineering Cou ester	Jrse	Classes per We	-	
Textbook Teaching				布する。				
Instructor	r	TANG	E Atsu	ko				
Course	Objectiv	es						
1. 適切で刻 2. クラスン	 効果的なこ。 メートとのフ	とばを使し アイディフ	7共有や	♡意見交換をとな	マにして論文が書い おして、自分の日本 ることができる。	ける。 は語力や考え方を見	見直すことができる	3.
Rubric								
			Ŧ	理想的な到達レ/	ベルの目安	標準的な到達レ	ベルの目安	未到達レベルの目安
評価項目1	-		2011年11月11日11日日日日日日日日日日日日日日日日日日日日日日日日日日日日			方に不自然な点	方やことばの使い はあるが、理解は 程度論理的に文章	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	2		1	、自分の日本語	の言語活動に参加 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 し、自分の日本 ことができる。	の言語活動に参加 語や考えを見直す	クラスメートとの言語活動にあま り参加できない。または、参加で きるが、自分の日本語や考えを見 直すことができない。
評価項目3	}		E 5	日本文化に対する	る理解を深め、自 な表現を使って述	日本文化に対す る程度自分の考定 できる。	る理解を深め、あ えを述べることが	日本文化に対する理解があまり深
Assigne	d Depar	tment (•		
Teachin	ng Metho							
Outline		本授業 に触れ	では、 ること	アカデミック・ で、日本文化に	ライティングにふ 対する理解を深め	さわしい文章が書 ることも目的とす	けるようになるこ る。	とを目指す。また、日本の文学作品
Style		さまざ	まな文	章を読むととも	に、自分の意見を	文章化したり、発	表したりする。	
Notice		評価の	対象と	しない欠席条件	(割合) 1/4以上の	欠課		
Charact	eristics o	of Class	s / Div	vision in Lea	arning			
☑ Active	Learning			Aided by IC	Т	☑ Applicable t	o Remote Class	Instructor Professionally Experienced
						ł		
Course	Plan							
			The	me			Goals	
		1st		me エンテーション	,			バ内容を把握する。
		1st 2nd	オリ		/		授業の目標および 小論文を書くとき	きに気をつけるべきことがわかる。
			オリ 小論	エンテーション	,		授業の目標および 小論文を書くとき どのように小論3	きに気をつけるべきことがわかる。 文を構成したら、わかりやすい小論文
		2nd 3rd	オリ 小論 小論	エンテーション 文を書く(1) 文を書く(2)	/		授業の目標および 小論文を書くとま どのように小論3 になるかがわかる	きに気をつけるべきことがわかる。 とを構成したら、わかりやすい小論文 る。
	3rd Quarter	2nd 3rd 4th	オリ 小論 小論 小論	エンテーション 文を書く(1) i文を書く(2) i文を書く(3)	/		授業の目標および 小論文を書くとき どのように小論 になるかがわかる 適切な表現を使	きに気をつけるべきことがわかる。 えを構成したら、わかりやすい小論文 る。 って小論文を書くことができる。
	3rd Quarter	2nd 3rd	オリ 小論 小論 小論 論文	エンテーション 文を書く(1) 文を書く(2)	,		授業の目標および 小論文を書くとき どのように小論3 になるかがわかる 適切な表現を使き 論理的展開と論語	きに気をつけるべきことがわかる。 とを構成したら、わかりやすい小論文 る。
		2nd 3rd 4th 5th	オリ 小論 小論 小論 論文 論文	エンテーション	/		授業の目標および 小論文を書くとき どのように小論3 になるかがわかる 適切な表現を使き 論理的展開と論言 論理的展開と論言	きに気をつけるべきことがわかる。 くを構成したら、わかりやすい小論文 る。 って小論文を書くことができる。 証を理解し、説明することができる。
		2nd 3rd 4th 5th 6th	オリ 小論 小論 論文 論 文	エンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2)			授業の目標および 小論文を書くとき どのように小論3 になるかがわかる 適切な表現を使き 論理的展開と論語 論文の内容に対し。	きに気をつけるべきことがわかる。 くを構成したら、わかりやすい小論文 る。 って小論文を書くことができる。 Eを理解し、説明することができる。 Eを理解し、説明することができる。
2nd Semeste		2nd 3rd 4th 5th 6th 7th	オリ 小論 小論 小論 論文 論文 日本	エンテーション	(1)		授業の目標および 小論文を書くとき どのように小論3 になるかがわな 適切な表現を使き 論理的展開と論言 論文の内容に対し。 表現・構成に注意 きる。	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 る。 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 って批判的意見をあげることができる
		2nd 3rd 4th 5th 6th 7th 8th	オリ 小論 小論 小論 論 論 日本 日本	エンテーション 文を書く(1) 文を書く(2) 交を書く(3) を読む(1) を読む(2) でを読む(3)	(1) (2)		授業の目標および 小論文を書くとき どのように小論注 になるかがわかる 適切な表現を使き 論理的展開と論語 論文の内容に対し 。 表現・構成に注意 きる。	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 って批判的意見をあげることができる 意して小説の展開を理解することがで
Semeste		2nd 3rd 4th 5th 6th 7th 8th 9th	オリ 小論 小論論 小論論文文 日本 日本	エンテーション	(1) (2))	授業の目標および 小論文を書くとき どのように小論注 になるかがわかる 適切な表現を使き 論理的展開と論語 論文の内容に対し。 表現・構成に注意 きる。 内容を理解した。 る。	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 る。 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 って批判的意見をあげることができる 意して小説の展開を理解することがで
Semeste		2nd 3rd 4th 5th 6th 7th 8th 9th 10th	オリ 小論 小論論 流文文 論 日 日 日 日 日 日	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む	(1) (2) (3)		授業の目標および 小論文を書くとき どのように小論文 になるかがわな 適切な表現を使き 論理的展開と論論 論文の内容に対し。 表現・構成に注意 きる。 内容を理解した。 る。 表現・構成に注意	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 して批判的意見をあげることができる 意して小説の展開を理解することがで まして小説の展開を理解することができ して小説の展開を理解することができ
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Semeste	Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th	オリ 小論 小論論 論論 日 <td>ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) でた読む(3) の小説を読む の小説を読む を舞台にした文 を舞台にした文</td> <td> (1) (2) (3) (学作品を読む(1) (学作品を読む(2) (学作品を読む(3)) </td> <td>2)</td> <td>授業の目標および 小論文を書くとき どのように小論3 になるかがわな 適切な表現を使き 論理理的的内容に対し。 表現・構成に注意 表現・構成に注意 表現・構成に注意 表現・構成に注意 内容を理解した。 る。 表現・構成に注意 内容を理解した。 る。</td> <td>きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 ので小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 して批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる して理解することができる。 して理解することができる。 して理解することができる。 して理解することができる。</td>	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) でた読む(3) の小説を読む の小説を読む を舞台にした文 を舞台にした文	 (1) (2) (3) (学作品を読む(1) (学作品を読む(2) (学作品を読む(3)) 	2)	授業の目標および 小論文を書くとき どのように小論3 になるかがわな 適切な表現を使き 論理理的的内容に対し。 表現・構成に注意 表現・構成に注意 表現・構成に注意 表現・構成に注意 内容を理解した。 る。 表現・構成に注意 内容を理解した。 る。	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 ので小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 して批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる して理解することができる。 して理解することができる。 して理解することができる。 して理解することができる。
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Semeste	Quarter 4th	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th	オリ論論 小小論論論 日日 日	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) でた読む(3) の小説を読む の小説を読む を舞台にした文 を舞台にした文	 (1) (2) (3) (学作品を読む(1) (学作品を読む(2) (学作品を読む(3) (1) 	2)	授業の目標および 小論文を言くと言 どのように小論注 適切な表現用と論語 論文の内容に対し 。 表現の内容に対し 。 表現、構成に注意 表現・構成に注意 内容を 表現・構成に注意 内容を 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 人一首について 百人一首の歌に た る。 通して新力	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 こて批判的意見をあげることができる。 して小説の展開を理解することができる 意して小説の展開を理解することができる。 意して小説の展開を理解することができる。 ここ、自分の意見を述べることができる。 意して理解することができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここのて、自分の意見を述べることができる。
Semeste r	Quarter 4th Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th	オ小 小 小 油 小 油 ゴ	エンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 をまましむ 、 一首に親しむ のと振り返り	 (1) (2) (3) (学作品を読む(1) (学作品を読む(2) (学作品を読む(3) (1) 	2)	授業の目標および 小論文を言くと言 どのように小論3 になるかがわな 適切な表現開と論論 論文の内構成に注意 表現・構成に注意 表現・構成に注意 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 五人一首について 百人一首の歌に	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 こて批判的意見をあげることができる。 して小説の展開を理解することができる 意して小説の展開を理解することができる。 意して小説の展開を理解することができる。 ここ、自分の意見を述べることができる。 意して理解することができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここ、自分の意見を述べることができる。 ここのて、自分の意見を述べることができる。
Semeste r	Quarter 4th	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th od and	オリ 小論 小論論 流文 二 小論論 二 日 <	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 、一首に親しむ 、のと振り返り ght(%)	 (1) (2) (3) (学作品を読む(1) (2) (1) (2) 	2)	授業の目標および 小での目標および 小での目標さくとき どのようかがわをを言い小論3 になっかが現ました。 適切なりの時でです。 読ををしていかです。 表現の内構成に注意 内容をです。 表現の構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・構成に注意 内容を る。 表現・ 構成に注意 内容を る。 表現・ 大 の容を の る。 方 の の の の の の の の の の の の の の の の の の	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 って批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる。 して小説の展開を理解することができる。 して小説の展開を理解することができる。 して理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 ここ、自分の意見を述べることができ こ説明できる。 ついて、自分の意見を述べることができ ここの日本語の能力と技能がどうなった できる。
Semeste r Evaluati	Quarter 4th Quarter	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 第	オリ論論 小小論論 小小論論 日日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 <td>ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 、一首に親しむ 、のと振り返り ght(%)</td> <td> (1) (2) (3) (学作品を読む(1) (2) (1) (2) 課題提出 </td> <td>·) ·) 授</td> <td>授業の目標および 小論文を言くと言 どのように小論注 になるかわか。 適切地的風内。 現理理理のの内構成に注意 読念。現・構成に注意 表現、構成に注意 内容。 表現・構成に注意 内容。 五人一首の歌に 授業、について説明 発き でのの たっかりかる。 表現 、 表記のの たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 です。 です。 です。 です。 です。 です。 です。 です。 です。</td> <td>きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 して批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる して小説の展開を理解することができる して理解することができる。 してて理解することができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。</td>	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 、一首に親しむ 、のと振り返り ght(%)	 (1) (2) (3) (学作品を読む(1) (2) (1) (2) 課題提出 	·) ·) 授	授業の目標および 小論文を言くと言 どのように小論注 になるかわか。 適切地的風内。 現理理理のの内構成に注意 読念。現・構成に注意 表現、構成に注意 内容。 表現・構成に注意 内容。 五人一首の歌に 授業、について説明 発き でのの たっかりかる。 表現 、 表記のの たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 たっかり です。 です。 です。 です。 です。 です。 です。 です。 です。 です。	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 して批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる して小説の展開を理解することができる して理解することができる。 してて理解することができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。 して、自分の意見を述べることができる。
Semeste r	Quarter 4th Quarter ion Meth	2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th od and	オリ論 小論論 小論論論 日日 日日 関関 百 日	ユンテーション 文を書く(1) 文を書く(2) 文を書く(3) を読む(1) を読む(2) を読む(3) の小説を読む の小説を読む の小説を読む を舞台にした文 を舞台にした文 を舞台にした文 を舞台にした文 、一首に親しむ 、のと振り返り ght(%)	 (1) (2) (3) (学作品を読む(1) (2) (1) (2) 	2)	授業の目標および 小論文を言くと言 どのように小論注 適切なる表現用と論言 論。 現理理のの内 調理理のの内 構成に注意 表引る。 表現・構成に注意 内容。 表現・構成に注意 内容。 表現・構成に注意 内容。 る。現・構成に注意 内容を理解した。 る。 表現・構成に注意 内容。 音人一首について 百人一首の歌に 授業、ついて説明 業態度 0	きに気をつけるべきことがわかる。 なを構成したら、わかりやすい小論文 って小論文を書くことができる。 正を理解し、説明することができる。 正を理解し、説明することができる。 って批判的意見をあげることができる して小説の展開を理解することができる して小説の展開を理解することができる。 して小説の展開を理解することができる。 して小説の展開を理解することができる。 して理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 こして理解することができる。 ここ、自分の意見を述べることができ こ説明できる。 ついて、自分の意見を述べることができ ここの日本語の能力と技能がどうなった できる。

分野横断的能力 30 0 20 50	

Д	kashi Co	ollege	Year	2023		Course Title	Co+work III A	
Course	Informa	tion						
Course Co	ode	5418			Course Catego	ry Speciali	zed / Compulsory	
Class For	mat	Seminar			Credits	School	Credit: 1	
Departme	ent	Electrica	and Computer E r Engineering Co	ngineering urse	Student Grade	4th		
Term		First Sen			Classes per We			
Textbook Teaching	and/or Materials	No requi team.	red textbook and	the required mate	erial will change	according to th	e contents of the activity of each	
Instructo	r	All facult	у					
1) Self-re 2) Co-ope	eration skil	acquire ind	the ability to worl	-management ab < in teams and re r and organize inf	spect the teamn	nates. ver and propose	e solutions to problems.	
Rubric			-		1		1	
			Ideal Level		Standard Level		Unacceptable Level	
1 Self-reli	iance		Schedule mana reporting, cont planning goals teammates	act, consultation,	Individually ab management, contact, consul goals.	le to schedule reporting, tation, planning	Not able to schedule management, reporting, contact, consultation, and planning goals	
2 Co-ope	ration skill	S	to express the	nt opinions, able student personal pility to lead the nsensus.	to express the	ent opinions, ab student person pility to play the in the team.	al porcenal eninion and ean't to	
3 Creative Skills			The student ca gather informa and summarize information, fo explain those id	tion, organize e this rm ideas and	The student ca gather informa and summarize information, ar ideas to others	tion, organiże e this nd explain those	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				•		
	ig Metho		J					
Outline	utline This course aims to develop the students' self-reliance, co-operation and creative skills in a manner that the student can contribute to a team in a variety of environments (working with students from other departments, different age, and people from outside the school). Each group is to work with the instructor charge and challenge themselves in creating something or perform activities that will bring happiness to someone other than the team members. Each team has to elaborate a plan and do its activities. The stude will revise their plan after its presentation at a briefing session and retrospective evaluation.					th students from other up is to work with the instructor in es that will bring happiness to n and do its activities. The students ective evaluation.		
Style		group wi breaks a and disco toward a of self-re teacher i individua performa	th multiple studen nd other activities over a problem to solution to the p liance, co-operati n charge of the te l goals. The cours	nts. After each stu that will help to work with, make roblem. Through on, and creativity eam. Based on the se rubric is used t	udent introduces build relationshi plans, divide ro working to solve r. After the cour e course rubric co o self-evaluatior	themselves to ps within the gr les among the this problem t se start, make distributed in cla n, mutual evalua	ndomly selected to compose a the team, they will perform ice oup. Later the team will discuss members and work together he students will achieve the goals sure that you can contact the ass each student has to establish ation, and to evaluate the dent has to fill a retrospective sheet	
Notice		evaluation the end	on by the teacher of the term (2).		eam (1), and m	ultiple faculty m	udents, mutual evaluation, nembers at the briefing session at n.	
Charact	eristics	of Class /	Division in Le	arning				
Active	Learning		☑ Aided by IC	Т	☑ Applicable to Remote Class		□ Instructor Professionally Experienced	
Course	Plan	<u>г</u>						
		1	Theme			Goals		
		1st	members of each confirmation of co advice regarding evaluation metho	idance, presentat team, team build purse schedule, re the activities, exp d. Later team me cher in charge me building.	ling guidance, estrictions and lanation of the mbers and the	To acquire Self-reliance, Co-operation and Creative Skills.		
1st Semeste r	1st Quarter	2nd	Each student set goals. The team v the activities. Late goal, the group w method, division and schedule, wh	the activity target will discuss ideas a er according to th will work on the im of roles among th ich will be summa	and a theme to e team activity plementation e members	ity To acquire Self reliance. Co eneration and		
action plan. Each student set goals. The team the activities. Lat 3rd goal, the group w method, division				he activity targets, and self- ill discuss ideas and a theme to r according to the team activity Il work on the implementation f roles among the members ch will be summarized in an			f-reliance, Co-operation and	

		4th	Each student set t goals. The team w the activities. Late goal, the group wi method, division o and schedule, whi action plan.	vill 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-op	eration and	
		5th	Setting targets and action plan. Accord the team, the group them. The group v decide the methoc role sharing, sched	ding to the theme up will draw ideas will establish the a l to achieve it, de	e and goals of s and discuss activity goal, ecide members'	To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
		6th	Team activities: W plan. The action pl according to scheo of the implementa	lan may be modif Jule delay, the ind	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
			Team activities: W plan.	ork according to	the action	To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
			No mid-term Exan	n					
		9th Team activities: Work according to the action plan. The action plan may be modified/changed, according to schedule delay, the incompleteness of the implementation method, etc. Prepare to the briefing session.				To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
		10th	Team activities: W plan. The action pl according to schec of the implementa the briefing sessio	lan may be modif Jule delay, the ind tion method, etc.	To acquire Self-reliance, Co-operation and Creative Skills.				
	2nd Quarter	11th	Team activities: W plan. The action pl according to schec of the implementa the briefing sessio	lan may be modif Jule delay, the ind tion method, etc.	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
		12th	Team activities: Work according to the action plan. The action plan may be modified/changed, according to schedule delay, the incompleteness of the implementation method, etc. Prepare to the briefing session.			To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
		13th	Briefing session: R and listen to repor	eport the activiti	es of the team oups.	To acquire Self-reliance, Co-operation and Creative Skills.			
		14th	Retrospective mee The group will disc briefing session ar The students will e mutually their ach regarding self-relia creativity.	ting and summar cuss the results fr d review the tear evaluate individua ieved points and	ry of activities: om the m action plan. ally and goals,	To acquire Self-reliance, Co-operation and Creative Skills.			
	15th		Retrospective mee The group will disc briefing session ar The students will e mutually their ach regarding self-relia creativity.	cuss the results fr nd review the tear evaluate individua ieved points and	rom the m action plan. ally and goals,	To acquire Self-re Creative Skills.	eliance, Co-op	eration and	
		- 1 1	No end-term Exan	1					
Evaluati		hod and W				1_			
	Se	ndividual elf-reliance process)	Individual Co-operation (process)	Individual Creativity (process)	Team Co- operation (process)	Team Creativity (process)	Other	Total	
Subtotal	24	,	24	12	20	20	0	100	
Basic Proficiency	y 0		0	0	0	0	0	0	
Specialize Proficiency	d y 0		0	0	0	0	0	0	
Cross Area Proficiency 24			24	12	20	20	0	100	

A	kashi Co	ollege	Year	2023		Course Title	Co+workⅢB	
Course	Informa	tion						
Course Co		5419			Course Catego	ry Specia	lized / Compulsory	
Class For	mat	Seminar			Credits	School	Credit: 1	
Departme	ent	Electrical Compute	l and Computer El er Engineering Col	ngineering urse	Student Grade	4th		
Term		Second S	Semester		Classes per Week 2			
Textbook Teaching		No requi	red textbook and	the required mate	erial will change	according to t	the contents of the activity of each	
Instructor		All facult	у					
Course	Objectiv	es						
1) Self-re 2) Co-ope 3) Creativ	liance: To eration skil /e Skills: T	acquire ind ls: To gain o acquire th	ividuality and self the ability to work the ability to gathe	-management abi < in teams and res r and organize inf	ility spect the teamn formation, disco	nates. ver and propos	se solutions to problems.	
Rubric		•		9	,		•	
			Ideal Level		Standard Level		Unacceptable Level	
1 Self-reli	ance		Schedule mana reporting, cont planning goals teammates	act, consultation,	Individually ab management, contact, consul goals.	reporting,	management, reporting,	
2 Co-ope	ration skill	5	to express the	nt opinions, able student personal pility to lead the nsensus.	Open to different to express the opinion, and all attributed role	student perso oility to play th	nal porsonal opinion and cap't to	
3 Creative Skills			The student ca gather informa and summarize information, fo explain those io	tion, organize this rm ideas and	The student ca gather informa and summarize information, ar ideas to others	ition, organiże e this nd explain thos	The student can't voluntarily gather information, can't organize and summarize this	
Assigne	d Depar	tment Ob						
	g Metho							
Outline	This course aims to develop the students' self-reliance, co-operation and creative skills in a manner that the student can contribute to a team in a variety of environments (working with students from other departments, different age, and people from outside the school). Each group is to work with the instructor charge and challenge themselves in creating something or perform activities that will bring happiness to someone other than the team members. Each team has to elaborate a plan and do its activities. The stude will revise their plan after its presentation at a briefing session and retrospective evaluation.					vith students from other oup is to work with the instructor in ties that will bring happiness to an and do its activities. The students pective evaluation.		
Style		group wi breaks a and disco toward a of self-re teacher i individua performa	th multiple studer nd other activities over a problem to solution to the p liance, co-operati n charge of the te al goals. The cours	nts. After each stu that will help to work with, make roblem. Through ion, and creativity eam. Based on the se rubric is used to	udent introduces build relationshi plans, divide ro working to solve . After the cour e course rubric co o self-evaluatior	themselves to ps within the g les among the this problem se start, make distributed in c , mutual evalu	andomly selected to compose a o the team, they will perform ice group. Later the team will discuss a members and work together the students will achieve the goals a sure that you can contact the class each student has to establish uation, and to evaluate the udent has to fill a retrospective shee	
Notice		evaluation the end of	on by the teacher of the term (2).		eam (1), and m	ultiple faculty	students, mutual evaluation, members at the briefing session at on.	
Charact	eristics o		Division in Le					
☑ Active	Learning	•	☑ Aided by IC	T	☑ Applicable t	o Remote Clas	Instructor Professionally Experienced	
Courses								
Course	rian	·	Theme			Goals		
		1st	Course overall gu members of each confirmation of co advice regarding evaluation metho team and the tea	idance, presentat team, team build ourse schedule, re the activities, exp d. Later team me cher in charge me building.	ling guidance, estrictions and lanation of the mbers and the	Goals To acquire Self-reliance, Co-operation and Creative Skills.		
2nd Semeste r	3rd Quarter	and schedule, which will be summ		the activity target will discuss ideas a er according to th ill work on the im of roles among th	and a theme to e team activity plementation e members	nd a theme to team activity olementation creative Skills.		
		3rd	Each student set goals. The team v the activities. Late goal, the group w method, division (ction plan. ach student set the activity targets, and self- oals. The team will discuss ideas and a theme to be activities. Later according to the team activity oal, the group will work on the implementation sethod, division of roles among the members nd schedule, which will be summarized in an				

		4th g	Each student set tl goals. The team w he activities. Late goal, the group wil method, division o and schedule, whic 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-ope	ration and
		5th t	Setting targets and action plan. Accord the team, the grou chem. The group v decide the method role sharing, sched	ding to the theme up will draw ideas vill establish the a l to achieve it, de	e and goals of s and discuss activity goal, ccide members'	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
		6th	Team activities: W plan. The action pl according to sched of the implementa	an may be modif lule delay, the ind	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
			Team activities: W plan.	ork according to	the action	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
		8th I	No mid-term Exam	ı				
	9th		Team activities: W blan. The action pl according to sched of the implementa the briefing session	an may be modif lule delay, the ind tion method, etc.	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
		10th	Team activities: W blan. The action pl according to sched of the implementa the briefing session	an may be modif lule delay, the ind tion method, etc.	fied/changed,	To acquire Self-reliance, Co-operation and Creative Skills.		
		11th	Team activities: W blan. The action pl according to sched of the implementa the briefing session	an may be modif lule delay, the ind tion method, etc.	fied/changed, completeness	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
	4th Quarter	12th	Team activities: W olan. The action pl according to sched of the implementa the briefing session	ork according to an may be modif lule delay, the ind tion method, etc.	fied/changed, completeness	To acquire Self-reliance, Co-operation and Creative Skills.		
		13th	Briefing session: R and listen to repor	eport the activitie	es of the team oups.	To acquire Self-re Creative Skills.	eliance, Co-ope	ration and
		14th	Retrospective mee The group will disc priefing session an The students will e mutually their achi regarding self-relia creativity.	cuss the results fr d review the tear evaluate individua ieved points and	rom the m action plan. ally and goals,	To acquire Self-reliance, Co-operation and Creative Skills.		
	Re Ti br 15th Ti m re		Retrospective meeting and summary of activities: The group will discuss the results from the briefing session and review the team action plan. The students will evaluate individually and mutually their achieved points and goals, regarding self-reliance, co-operation, and creativity.					ration and
			No end-term Exam	<u></u> ו				
Evaluati		hod and W	/eight (%)	1	1	_	1	
	S	ndividual elf-reliance process)	Individual Co-operation (process)	Individual Creativity (process)	Team Co- operation (process)	Team Creativity (process)	Other	Total
Subtotal	24	4	24	12	20	20	0	100
Basic Proficiency	y 0		0	0	0	0	0	0
Specialize Proficiency	d y O		0 0 0			0	0	0
Cross Area Proficiency		4	24	12	20	20	0	100

Д	Akashi Co	kashi College Year 2023		Course Title	Applied Physics I			
Course	Informa	tion						
Course Co	ode	5420			Course Categor	y Specializ	ed / Compulsory	
Class For	mat	Lecture			Credits	School C	redit: 1	
Departme	ent		nd Computer E Engineering Co		Student Grade	4th		
Term		First Seme	<u> </u>		Classes per We	ek 2		
Textbook	and/or Materials				<u> </u> р	I=		
Instructor		OGASAWA	RA Hiromichi					
Course	Objectiv	es						
(1) Under (2) Under	rstand the rstand the	description o basics of hov	v to handle poin	bject and the fund t masses in gener body based on th	al based on the	fundamental lav	vs of mechanics. cs.	
Rubric			_	·				
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	nent 1		the motion of a		Can explain the the motion of a fundamental lar and apply them questions.	n object and the ws of mechanics	Cannot explain the description of the motion of an object and the fundamental laws of mechanics or apply them to specific questions.	
Achievement 2			Can explain the handle point m the fundament	e basics of how to asses based on al laws of rectly and apply	Can explain the handle point m the fundamenta mechanics and specific questio	al laws of apply them to		
Achievement 3			handle rigid bo	e basics of how to dy based on the ws of mechanics pply them to ns accurately.	e handle rigid body based on t		on the fundamental laws of	
Assiane	d Depar	tment Obje	ectives		I			
	ng Metho							
Outline	.9		Science IIIA (se	cond semester), t	his course will le	cture on mecha	nics.	
Style		Classes wi	ll be taught in a	lecture style, and	there will also b	e exercises and	quizzes.	
Notice		problem) I being able the various The sched	by memorizing i to apply them t s laws and try to ule of the midte	t individually, stud	lents should und ns). Also, studer epts in physics s changed.	lerstand the law its should be aw systematically.	icular situation, how to solve the s that govern them (including vare of the relationships between evaluation.	
Charact	eristics		Division in Le		-			
	e Learning	,	□ Aided by IC		☑ Applicable to	o Remote Class	 Instructor Professionally Experienced 	
Course	Plan							
		TI	neme			Goals		
				and mechanical e	nergy	Learn how to handle motion of objects in planes and spaces.		
		2nd M	otion and force,	and mechanical e	nergy	1	e laws of motion.	
				and mechanical e		Learn about wo	rk and kinetic energy.	
	1st Quarter	4th M	otion and force,	and mechanical e	nergy	Learn about me	chanical energy.	
	Quarter			and mechanical e		Learn about ine	rtial force.	
				m and angular mo			e laws of momentum.	
				m and angular mo	omentum	Learn about the	e laws of angular momentum.	
		8th M	idterm exam					
1st		9th La	aw on momentu	m and angular mo	omentum	the system of p	e laws of angular momentum in articles.	
Semeste		10th La	aw on momentu	m and angular mo		Learn about the translational and rotational		
r						motion. Learn how to handle rigid bodies with a fixed axis		
1		11th Ri	gid body dynam	nics		Learn now to handle rigid bodies with a fixed axis Learn about the moment of inertia.		
I			gid body dynam gid body dynam					
1	2nd Ouarter	12th Ri		nics		Learn about the Learn how to ha		
T	2nd Quarter	12th Ri 13th Ri	gid body dynam	nics		Learn about the Learn how to ha axes.	e moment of inertia.	
I		12th Ri 13th Ri 14th Ri	gid body dynam gid body dynam	nics nics nics		Learn about the Learn how to ha axes. Learn the basic momentum, an bodies.	e moment of inertia. andle rigid bodies without fixed	

Evaluation Method and 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				

Ak	kashi Co	ollege	Year	2023		Course Title	Electronic Circuits I	
Course I	nforma	tion						
Course Coo	de	5421			Course Categor	y Speciali	zed / Compulsory	
Class Form	nat	Lecture			Credits	School (Credit: 1	
Departmer	nt		nd Computer El Engineering Col		Student Grade	4th		
Term		First Seme	ster		Classes per Wee	ek 2		
Textbook Teaching M								
Instructor		OHMUKAI I	Masato					
1) Underst them, and 2) Accurate these circu 3) Accurate	to achiev and the c can analy ely under uits. ely under ely under	ve the followir characteristics yze these circ stand the prir stand the prir stand the prir	uits. nciples and prop nciples and prop	ents, accurately un perties of negative perties of circuits u	-feedback circuit	s and various amplifiers, can	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	
Achieveme	ent 1		of active eleme understand the	e characteristics ints, accurately principles and asic circuits using analyze these	Understand the of active element the principles and basic circuits us can analyze the	nts, understand nd properties of sing them, and	d characteristics of active f elements or the principles and	
Achievement 2			Accurately und principles and principles and principles and predictive-feedb various amplific can analysis th	d properties of dback circuits and ifier circuits, and circuits, and can		gative-feedbac ious amplifier	principles and properties of	
Achievement 3			Understand the properties accu analyze and de using arithmeti	sign circuits	Understand the properties, can design circuits u amplifiers.	analyze and	principles and properties of	
			Accurately und principles and poscillator, mod demodulator ci analyze and de circuits.	properties of ulator, and rcuits, and can	Understand the properties of os modulator, and circuits, and car design these cir	cillator, demodulator n analyze and	Do not understand the principles and properties of oscillator, modulator, and demodulator circuits.	
Assigned	d Depar	tment Obje	ectives					
Teaching								
Outline	9	We will exp	lain the basics	of analogue electr	onic circuits usir	ng active eleme	ents such as diodes, transistors,	
Style		Classes wil	l be held in a le	<u>Γ), and operation</u> cture style, mainly ssignments as app	/ by explaining c	ontent followin	g the textbook. Students will work	
Notice				<u> </u>		can design circuration.	uits themselves. If possible, they grade.	
Characto	rictica		vivision in Le				grade.	
 Active I 			□ Aided by IC		☑ Applicable to	Remote Class	Instructor Professionally Experienced	
Course P	lan							
	an		eme		I,	Goals		
			miconductor			Understand the electrical condu	e types of semiconductors and the uction principles within	
		2nd Die	ode			semiconductor Understand the	s. e rectification and voltage current	
			ansistor				of pn junction. e basic structure, behavior and es of transistors.	
	1st Quarter	4th FE	т				e basic structure, operation and	
Semeste r	Qual tel	5th IC					e basic structure, operation and	
		6th Tr	ansistor amplifi	er circuits			e basics of transistor amplifier	
			ansistor bias cir	cuit		Understand how to design a simple bias circuit for an amplifier circuit using transistors.		
			dterm exam					
	2nd	9th Tr	ansistor equiva	lent circuit 1			ed bias and self-bias circuits.	
(Quarter	10th Tr	ansistor equiva	lent circuit 2		Understand the	e current feedback bias circuit.	

		11th	Emitter ground amplifie	er circuit		Understand gain, output impedanc	frequency band, input and e in transistor amplifier circuits.
		12th	Transistor negative-fee	dback ampli	fier circuit	Understand nega using transistors.	tive-feedback amplifier circuits
		13th	FET bias circuit	bias circuit			to design a simple bias circuit for it using FETs.
		14th	FET equivalent circuit			Understand the a amplifier circuit u	nalysis of a source ground Ising an equivalent circuit.
		15th	FET negative-feedback	amplification	n circuit	Understand nega using FETs.	tive-feedback amplifier circuit
		16th	Final exercise				
Evaluati	ion Meth	od and V	Veight (%)				
			Examination	Examination Exercis			Total
Subtotal			60	60 40			100
Basic Prof	Basic Proficiency 0			0		0	
Specialize	Specialized Proficiency 60			40		100	
Cross Area Proficiency 0			0		0		0

A	kashi Co	ollege	Year	ear 2023		Course Title	Preliminaries to Graduation Thesis		
Course	Informa								
Course InformationCourse Code5422Class FormatSeminarCredits						/ Specializ	zed / Compulsory		
Class For	mat						School Credit: 1		
Departme	ent	Electrical	and Computer E	ngineering	Student Grade	4th			
Term		Second Se	Engineering Course Classes per We			ek 2			
Textbook	and/or								
	Materials								
Instructo	r	All faculty	of the departme	ent					
Course Objectives									
(1) Can c (2) Can s (3) Can c	ontinuousl ummarize onsider th	y explore thi the results c e research th	ngs. btained for the p neme in various a	project undertaker approaches, and c	ı. reate flexible and	l innovative ide	eas.		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
				sly explore things			•		
Achievem	nent 1		and obtain resu with the theme	ults that match	Can continuous things.		Cannot continuously explore things.		
Achievem	ient 2		Can properly su results obtained addressed.	ummarize the d on the theme	Can summarize obtained on the addressed.		Cannot summarize the results obtained on the theme addressed.		
Achievement 3 Can consider the research theme in various approaches, and create flexible and innovative ideas. In addition, and create flex				Can consider the theme in various and create flexib innovative ideas	s approaches, ble and	Cannot consider the research theme in various approaches, or create flexible and innovative ideas.			
Assigned Department Objectives									
Teaching Method									
- cucini	ig i locito		f this course is t	o develop the basi	ic abilities necess	arv for gradua	tion research in the fifth year.		
Outline Students will gain the basic knowledge necessary to address a resea them.					a research the	me and examine how to approach			
Style		Ito one of	them. In accorda	ance with the instr	ructions of the su	pervisor of the	ies), and students will be assigned laboratory they are assigned to, ents, simulations, etc.		
Notice		Engage in	research activel	y and continuous	y. A research will no	t he eligible fo	r a passing grade.		
Charact	orictics		Division in Le		Tresearch will ne	t be eligible to			
							Instructor Professionally		
☑ Active	Learning		☑ Aided by IC	Т	Applicable to	Remote Class	Experienced		
_									
Course	Plan	1			1				
		T	heme			Goals			
		1st L	aboratory assign	iments		After learning t aboratory, stud hey wish to jo	he research details of each dents can apply for the laboratory in.		
		2nd T	hemed research		r	Conduct lecture research, expension. the supervisor.	e-based learning, document riments, simulations, etc. under		
	3rd	3rd S	ame as above			Same as above			
	Quarter		ame as above			Same as above			
			ame as above			Same as above			
			ame as above			Same as above			
			ame as above			Same as above			
2nd			ame as above			Same as above			
Semeste r			ame as above			Same as above			
			ame as above			Same as above			
			ame as above			Same as above			
1.241		ame as above ame as above			Same as above Same as above				
	4th 13th Same as above Quarter 14th Preparing a resume for themed research presentation		earch (Can summarize research and p	the results of the themed repare a resume for the				
	15th Themed research presentation			Can give an ora Can give an ora	al presentation on the results of the				
16th No final exam									
Evoluat	ion Moth	nod and W							
∟vaiual					Droject recent	h procontation	Total		
Culetar			Initiatives		Project researc	presentation	Total		
Subtotal 50 50 100									

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

Course Code Specialized / Computer Spinering Conse Code Second Credit: 1 Department Electrical and Computer Engineering Course Student Grade 4th Department Electrical and Computer Engineering Course Classes per Week 2 > Texthook and/or Lexining Material Lexining Lex	Akashi College Course Information		ollege	Year	2023			ourse Title	Discrete Mathematics A	
Class Exemat. Letture Credits Should Credit: 1 Department Electrical and Computer Engineering Computer Engineering Course Student Grade 4th 4th Textbook and/or Textbook and/or Electrical Materials Intel ADAA Yukhiro Classes per Week 2 Course Objectives Intel ADAA Yukhiro Course Objectives Classes per Week 2 Rubric Intel Continuous learning skills by mastering the arguments used in a mathematical proof. Classes per Week 2 Rubric Intel Continuous learning skills by mastering the arguments used in a mathematical proof. Classes per Week 2 Rubric Intel Level Classes per Week Classes per Week 2 Rubric Intel Level Classes per Week 2 Classes per Week Achievement 1 Classes per Week 2 Classes per Week 2 Achievement 2 Intel Level Classes per Week 2 Classes per Week Achievement 3 Classes per Week 2 Classes per Week 2 Classes per Week 2 Achievement 4 Classes per Week 2	Course	Course Code 5423 Cou								
Department Electrical and Computer Engineering Computer Engineering Course Student Grade 4th Term First Semester Classes per Week 2 Textbook and/or Teaching Materials HAMADA Yukhiro	Course Co	ode	5423			Course Categor	у	Specialize	d / Compulsory	
Light fullent Computer Engineering Course	Class Forr	nat	Lecture			Credits		School Cr	edit: 1	
Toxbook and/or Tacking Metanoisk HAMDA Yukhiro Course Objectives Enstructor [1] can explain what counting is. Standard Lavel 2] Develop self-directed and continuous learning skills by mastering the arguments used in a mathematical proof. Can explain what counting is. 2] Develop self-directed and continuous learning skills by mastering the arguments used in a mathematical proof. Can explain sets and functions in a classified way, and in a classified way, and equal time of the propositions and problems sets and a functions, and determines can explain the propositions and problems and contrapticity on sets are equal Can explain the propositions and problems and contrapticity on the propositions and problems and correctly. Can explain the propositions and problems and correctly. Can explain the propositions and problems and correctly. Can explain the propositions and problems and correctly. Cannot explain the propositions and problems and the correctly correctly. Cannot explain the propositions and problems and corectly. Achiev	Departme	ent				Student Grade		4th		
Teaching Materials Instructor HMMADA Yukihiro Course Objectives I con explain what counting is. I con explain what counting is. I con explain act and continuous learning skills by mastering the arguments used in a mathematical proof. I con explain act and continuous learning skills by mastering the arguments used in a mathematical proof. I con explain act and continuous learning skills by mastering the arguments used in a mathematical proof. I con explain act and continuous learning skills by mastering the arguments used in a mathematical proof. I con explain the propositions achievement 1 Con explain the propositions Contradictor, and the mathematical induction action and contradictor, and the mathematical induction and contradictor, and the mathematical induction and contradictor, and the mathematical induction Contradictor, and contradictor, Contradictor, and contradictor, Contradictor, and contradictor, Contradictor, Contradictor, Contradictor, Co			First Sem	ester		Classes per We	/eek 2			
Course Objectives (1) Can explain what counting is (2) Can think in a recursive manner. Rubric Achievement 1 Can explain sets and functions Can explain intervent of the propositions actine whether the can explain intervent of the proposition of the proposition and contradiction, and the contradiction, and the contradiction and contradiction contradiction contradiction contradiction contradiction contradiction contradiction contradiction contradiction contradictio										
[1] Can explain what counting is. Image: Construction of the section of the sect	Instructor	-	HAMADA	Yukihiro						
[3] Can think in a recursive manner. Ideal Level Standard Level Unacceptable Level Achievement 1 Ideal Level Standard Level Can explain sets and functions of a classified way, and tetrmines whether the cardinalities of two sets are equal functions, and determines whether the cardinalities of two sets are equal for the sets and a function, and teamines whether the cardinalities of two sets are equal for the sets and equal accentraction, and the proposition and contradiction, and the methods. Can explain the proposition for the sets are equal for the sets and functions of the sets and function of the sets and function and the methods. Achievement 3 Can define sets and functions of contradiction, and the methods. Can define sets and functions or the sets and functions methods. Achievement 3 Can define sets and functions of contradiction, and the methods. Can define sets and functions methods. Achievement 0 bjectives Teaching Method Can define sets and functions or the termines and outcots methods. Style Classes will be held in a lecture style. Can define sets and functions or the termines outcots it against the answer. Style Classes will be held in a lecture style. Can set and explain the set and control inclusion. Style Classes will be held in a lecture style. Can use form the formal docor it against the answer. Style Classes will be held in a lecture style. Can useffine the association who must classes. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Ideal Level Standard Level Unacceptable Level Achievement 1 Can explain sets and functions in a classified way, and determine whether the cardinalities of two sets are cardinalities of two sets are anothernatical proof using proof write a mathematical proof using proof by contraposition and contradiction, and the methods. Can are equal contradiction, and the methods. Can are equal contradiction, and the methods. Achievement 3 Can define sets and functions recursively and correcity. Can define sets and functions recursively. Can define sets and functions recursively. Assigned Department Objectives Can define sets and functions recursively. Can define sets and functions recursively. Can define sets and functions recursively. Style Classes will be held in a lecture style. Can define sets and functions, mathematical states return and contradiction, another foundations of computer contract. In this course, you will learn about sets and functions, result who miss 1/2 or more of dases will be held bin to return and court adviction. Can define sets and functions recursively. Style Classes will be held in a lecture style. Can define sets and court spatial recursively. Can define sets and core transition recursivel								l in a matl	nematical proof.	
Achievement 1 Can explain sets and functions in a classified way, and determine whether the catual contradictions, and determines data Can explain sets and a functions, and determines sets are equal using proof by contragostions and contradiction, and the methods. Can explain the properties sets are equal contradictions, and determines sets are equal. Can explain the properties sets are equal. Can explain the properties sets are equal. Achievement 2 Can explain the properties using proof by contragostion and contradiction, and the methods. Can explain the properties and contradiction, and the methods. Can explain the properties and contradiction, and the methods. Can define sets and functions methods. Can explain the properties and contradiction, and the methods. Can define sets and functions methods. Can define sets and functions and contradiction, and the methods. Can define sets and functions are contradiction. Can define sets and functions recursively. Assigned Department Objectives Teaching Method Can define sets and functions functions or computer science. In this course, you will learn about sets and functions, mathematical induction and recursive definitions. Can define sets and functions functions you set and science tagainst the answer. Style Classes will be held in a lecture style. Make sure you understand functions for more of classes will not be estified for evaluation. Can use form to represent sets or conditions. Characteristics of Class / Division in Learning I Active Learning	Rubric			-					-	
Achievement 1 Achievement 1 Achievement 1 Achievement 1 Achievement 1 Achievement 1 Achievement 2 Achievement 2 Achievement 2 Achievement 2 Achievement 2 Achievement 2 Achievement 3 Achievement 3 Achievement 3 Achievement 3 Achievement 3 Achievement 3 Achievement 0 Discrete mathematical profutions and contraction, and the methods. Achievement 0 Discrete mathematics is a field of mathematics profue mathematics profue Achievement 0 Discrete mathematics is a field of mathematics and profue Achievement 0 Discrete mathematics is a field of mathematics and profue Achievement 0 Discrete mathematics is a field of mathematics and profue Achievement 0 Discrete mathematics is a field of mathematics that deals with finite or discrete subjects, and one of the foundations of computer science. In this course, you will learn about sets and functions, mathematical additions of computer science. In this course, you will learn about sets and functions, mathematical additions of Computer science. In the science science and the science science				Ideal Level		Standard Level			Unacceptable Level	
Achievement 2 and prédicates, ând correctly write a mathematical produising proof by contraposition and mathematical induction methods. and prédicates, ând write a mathematical produising proof by contraposition and mathematical induction methods. and prédicates, ând write a mathematical produising proof by contraposition and mathematical induction methods. Achievement 3 Can define sets and functions recursively and correctly. Can define sets and functions recursively. Can and fine sets and functions functions recursively. Assigned Department Objectives Discrete mathematics is a field of mathematics that deals with finite or discrete subjects, and one of the foundations of computer science. In this course, you will learn about sets and functions, mathematical induction and recursive definitions, Backus form and context-free grammar. Style Classes will be held in a lecture style. Make sure you understand the exact definition of the term and get an intuitive image from the formal description. Try to spike the examples or xexrcise problems yourself and score it against the answer. Students who miss 1/3 or more of classes will not be eligible for evaluation. Instructor Professionally experienced Course Plan Gaals Instruction 1/2 Can explain the associative law, inverse functions, and composition and composition of function, and composition for inverse, and contraposition. Can write and and substitution of a composition for function, and composition for experienced 1st guarter 1st Quarter Theme Goals 1st guarter <td colspan="2">Achievement 1</td> <td></td> <td>in a classified v determine whe cardinalities of</td> <td>vay, and ther the</td> <td>functions, and of whether the car</td> <td>determ</td> <td>ines</td> <td>function, and cannot determines whether the cardinalities of two</td>	Achievement 1			in a classified v determine whe cardinalities of	vay, and ther the	functions, and of whether the car	determ	ines	function, and cannot determines whether the cardinalities of two	
Additional for the set of the set	Achievement 2			and predicates write a mather using proof by and contradicti mathematical i	, and correctly natical proof contraposition on, and the nduction	and predicates, mathematical p by contrapositic contradiction, a mathematical ir	and w roof us on and nd the	vrite a sing proof	and predicates, and write a mathematical proof using proof by contraposition and contradiction, and the mathematical induction	
Assigned Department Objectives Teaching Method Outline Discrete mathematics is a field of mathematics that deals with finite or discrete subjects, and one of the foundations of computer science. In this course, you will learn about sets and functions, mathematical induction and recursive definitions, Backus form and context-free grammar. Style Classes will be held in a lecture style. Notice Make sure you understand the exact definition of the term and get an intuitive image from the formal description. Try to solve the examples or exercise problems yourself and score it against the answer. Students who miss 1/3 or more of classes will not be eligible for evaluation. Characteristics of Class / Division in Learning Instructor Professionally Experienced Course Plan Instructor Professionally Experienced Course Plan Goals 1st Basic form 2nd Function 1/2 2nd Can use form to represent sets or conditions. 2nd Function 2/2 3rd Function 2/2 3rd Function 2/2 4th Function 2/2 5th Infinite sets and cardinality 1/2 6th Infinite sets and cardinality 2/2 6th Infinite sets and cardinality 2/2 7th Propositional and proof by contradiction <	Achievem	Can define sets and functions Can define					and fu	inctions		
Teaching Method Outline Discrete mathematics is a field of mathematics that deals with finite or discrete subjects, and one of the foundations of computer science. In this course, you will learn about sets and functions, mathematical induction and recursive definitions, Backus form and context-free grammar. Style Classes will be held in a lecture style. Motice Make sure you understand the exact definition of the term and get an invitive image from the formal description. Try to solve the examples or exercise problems yourself and score it against the answer. Characteristics of Class / Division in Learning Instructor Professionally Active Learning I Aided by ICT I Applicable to Remote Class Instructor Professionally Course Plan Ist Basic form Can use form to represent sets or conditions. Ist Basic form Can explain the basics function. Can explain the associative law, inverse function. 3rd Function 1/2 Can explain the associative law, inverse function. Can explain the associative law, inverse function. 1st Basic form Can explain the cardinality of a set and can dearmine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and	Assigne	d Depar	tment Obi	· · · · ·						
Outline Discrete mathematics is a field of mathematics that deals with finite or discrete subjects, and one of the foundations of computer science. In this course, you will learn about sets and functions, mathematical induction and recursive definitions, Backus form and context-free grammar. Style Classes will be held in a lecture style. Classes will be held in a lecture style. Notice Make sure you understand the exact definition of the term and get an intuitive image from the formal description. Try to solve the examples or exercise problems yourself and score it against the answer. Students who miss 1/3 or more of classes will not be eligible for evaluation. Characteristics of Class / Division in Learning Instructor Professionally Experienced Active Learning Instructor Professionally Experienced Course Plan Theme Goals Ist Basic form Can use form to represent sets or conditions. Can use form to represent sets or conditions. Ist Guarter Function 1/2 Can explain the basics function. 1st Basic form Can explain the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of the contraposition. A function. And the cardinality of the contraposition. A function and proof by contradiction 1st Semester Sth Infinite sets and cardinality 1/2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Style Classes will be held in a lecture style. Notice Make sure you understand the exand definition of the term and get an intuitive image from the formal description. Try to solve the examples or exercise problems yourself and score it against the answer. Students who miss 1/3 or more of classes will not be eligible for evaluation. Characteristics of Class / Division in Learning Instructor Professionally Experienced Active Learning Image: Additional A		grietite	Discrete r foundatio	ns of computer s	cience. In this co	urse, vou will lea	rn abo	ut sets an	ete subjects, and one of the d functions, mathematical	
Notice Idescription. Try to solve the examples or exercise problems yourself and score it against the answer. Characteristics of Class / Division in Learning Instructor Professionally Active Learning Aided by ICT Applicable to Remote Class Instructor Professionally Course Plan Interme Goals Instructor Professionally Ist Basic form Can use form to represent sets or conditions. 2nd The relationship between the sets Can perform various set operations and can use basic formulas. 3rd Function 1/2 Can explain the basics function. 4th Function 1/2 Can explain the cardinality of a set and can use basic formulas. 5th Infinite sets and cardinality 1/2 Can explain the courting and cardinality of the continuum. 6th Infinite sets and cardinality 2/2 Can explain the courting and cardinality of the continuum. 7th Propositions and proof by contradiction Can explain the proposition. Can write mathematical proof using contraposition and proof by contradiction 1st Semester 10th Midterm exam Can explain the courting and cardinality of the continuum. 1st Infinite sets and cardinality 2/2 Can explain the proposition. Can write mathematical proof using contraposition and proof by contradicti	Style							-		
Active Learning Image: Aided by ICT Applicable to Remote Class Instructor Professionally Experienced Course Plan Course Plan Can use form to represent sets or conditions. 2nd The relationship between the sets Can use form to represent sets or conditions. 3rd Function 1/2 Can explain the basics function. 4th Function 2/2 Can explain the cardinality of set and can determine if the cardinality of set and can determine if the cardinality of a set and can determine if the cardinality of set and can determine if the cardinality of set and can determine if the cardinality of the two sets are equal. 6th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 7th Propositions and proof by contradiction Can explain the counting and cardinality of the continuum. 8th Midterm exam It is given during class. Intermetatical proof using contraposition and proof by contradiction. 9th Predicate Can explain a predicate (a function that takes only true or false as a value). 11th Language Can explain the basics of formal languages. 12th Nathermatical induction 1 of 2 Can explain the basics of formal languages. Can explain the basics of formal languages.	Notice		Make sure descriptio Students	e you understand n. Try to solve tl who miss 1/3 or	the exact definit he examples or ex more of classes v	ion of the term a kercise problems will not be eligible	nd get yourse e for ev	an intuitivelf and sco aluation.	ve image from the formal re it against the answer.	
Second	Charact	eristics	of Class /	Division in Le	arning					
Ist Quarter Theme Goals 1st Basic form Can use form to represent sets or conditions. 2nd The relationship between the sets Can perform various set operations and can use basic formulas. 3rd Function 1/2 Can explain the basics function. 4th Function 2/2 Can explain the basic form lass. 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of the continuum. 1st Semeste 7th Propositions and proof by contradiction r Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th It is given during class. Can explain a predicate (a function that takes only true or false as a value). 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic and can expression of predicate logic. 12th Mathematical induction 1 of 2 Can anthematical proof by induction	Active	Learning				☑ Applicable to	o Remo	ote Class		
Ist Quarter Theme Goals 1st Basic form Can use form to represent sets or conditions. 2nd The relationship between the sets Can perform various set operations and can use basic formulas. 3rd Function 1/2 Can explain the basics function. 4th Function 2/2 Can explain the basic formulas. 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of the two sets are equal. 1st Semeste 7th Propositions and proof by contradiction r Can explain the propositions and the converse, inverse, and contraposition and proof by contradiction. 8th It is given during class. Can explain a predicate (a function that takes only true or false as a value). 2nd Quarter 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the basics of formal languages. 1th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can explain the basics of formal languages.	Course	Dlan								
Ist Quarter Ist Basic form Can use form to represent sets or conditions. 1st Quarter Ist Basic form Can use form various set operations and can use basic formulas. 1st Quarter Ist Function 1/2 Can explain the basics function. 4th Function 2/2 Can explain the associative law, inverse function and substitution for injection, surjection, bijection, composition of function, and composition. 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinalities of the two sets are equal. 6th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 7th Propositions and proof by contradiction Can explain the proposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logical expression. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can explain the basice of formal languages.	Course	riali	,	homo			Goole			
Ist Quarter 2nd The relationship between the sets Can perform various set operations and can use basic formulas. 1st Quarter 3rd Function 1/2 Can explain the basics function. 4th Function 2/2 Can explain the associative law, inverse function and substitution for injection, surjection, bijection, composition of function, and composition. 5th Infinite sets and cardinality 1/2 Can explain the cardinalities of the two sets are equal. 6th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 7th Propositions and proof by contradiction Can explain the proposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. And its limitation in descriptive alignal expression. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can explain the basics of formal languages.								represent sets or conditions		
1st Quarter 2nd Quarter 2nd Quarter 2nd Quarter 2nd Quarter 2nd Quarter 2nd Quarter 9th Predicate Can explain the basics function. Can explain the basics function, surjection, bijection, composition of injection, surjection, bijection, composition of function, and composition. 1st Semeste r 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinalities of the two sets are equal. 1st Semeste r 5th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 1st Semeste r 5th Infinite sets and cardinality 2/2 Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can write mathematical proof by induction							•			
1st Quarter 4th Function 2/2 Can explain the associative law, inverse function and substitution for injection, surjection, bijection, composition of function, and composition. 1st 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinality of a set and can determine if the cardinality of the two sets are equal. 1st 6th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 1st 6th Infinite sets and proof by contradiction Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. 10th Propositional logic and its limitation in descriptive ability Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can explain the ability proof by induction			2nd I	he relationship t	between the sets					
Ist Quarter 4th Function 2/2 and substitution for injection, surjection, bijection, composition of function, and composition. 1st Quarter 5th Infinite sets and cardinality 1/2 Can explain the cardinality of a set and can determine if the cardinalities of the two sets are equal. 6th Infinite sets and cardinality 2/2 Can explain the counting and cardinality of the continuum. 7th Propositions and proof by contradiction Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 2nd Quarter 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. Can explain the logical expression of a propositional logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can write mathematical proof using the complete			3rd F	unction 1/2			Can ex	plain the	basics function.	
1st End End End End Can explain the counting and cardinality of the continuum. 1st 6th Infinite sets and cardinality 2/2 Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam End Can explain a predicate (a function that takes only true or false as a value). 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can mathematical proof by induction			4th F	function 2/2			and su	bstitution	for injection, surjection, bijection,	
1st Semeste r Can explain the propositions and the converse, inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can write mathematical proof by induction							plain the nine if the	cardinality of a set and can cardinalities of the two sets are		
Semeste 7th Propositions and proof by contradiction inverse, and contraposition. Can write mathematical proof using contraposition and proof by contradiction. 8th Midterm exam It is given during class. 8th Predicate Can explain a predicate (a function that takes only true or false as a value). 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the logical expression. Can explain the logical expression of a propositional logic. 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic. 11th Language Can explain the logical expression. Can explain the logical expression. 12th Mathematical induction 1 of 2 Can mathematical proof by induction 13th Mathematical induction 2 of 3 Can write mathematical proof using the complete			6th I	nfinite sets and o	cardinality 2/2				counting and cardinality of the	
8th Midterm exam It is given during class. Can explain a predicate (a function that takes only true or false as a value). 2nd Quarter 9th Predicate Can explain the logical expression of a propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic and can represent a statement in a logical expression. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can write mathematical proof by induction			7th F	propositions and	proof by contradio	ction	inverse mathe	e, and con matical pr	traposition. Can write oof using contraposition and	
2nd 9th Predicate Can explain a predicate (a function that takes only true or false as a value). 2nd 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic and can represent a statement in a logical expression. Can explain the logical expression. Can explain the logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can write mathematical proof by induction					class					
2nd 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic and can represent a statement in a logical expression. Can explain the logical expression of predicate logic. 10th Propositional logic and its limitation in descriptive ability Can explain the logical expression of a propositional logic and can represent a statement in a logical expression of predicate logic. 11th Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can mathematical proof by induction 12th Mathematical induction 2 of 2 Can write mathematical proof using the complete				<u> </u>						
Inth Language Can explain the basics of formal languages. 12th Mathematical induction 1 of 2 Can mathematical proof by induction 12th Mathematical induction 2 of 2 Can write mathematical proof using the complete	2nd		10th F	Propositional logi	c and its limitatior	n in descriptive	Can ex propos in a loc	plain the laitional log	ogical expression of a ic and can represent a statement ssion. Can explain the logical	
12th Mathematical induction 1 of 2 Can mathematical proof by induction 12th Mathematical induction 2 of 2 Can write mathematical proof using the complete		Quarter	11th I	anguage						
13th Mathematical induction 2 of 2					uction <u>1 of</u> 2			•	<u> </u>	
induction. Can explain the dual induction.			13th N	1athematical ind	uction 2 of 2		Can wi	rite mathe	matical proof using the complete	

		14th	Recursive definition	on		Can define sets,	functions, etc. re	cursively.	
		15th	Backus form and o	Sackus form and confext-free drammar			Can handle Backus form and context-free grammar.		
		16th	Final exam						
Evaluati	on Met	hod and V	Veight (%)						
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	10	00	0	0	0	0	0	100	
Basic Proficiency	y o		0	0	0	0	0	0	
Specialize Proficiency	d 10	00	0	0	0	0	0	100	
Cross Area Proficiency			0	0	0	0	0	0	

А	kashi Co	ollege	Year	2023		Course Title	Discrete Mathematics B		
Course	Informa	tion		•			•		
Course Co	ode	5424			Course Category	/ Specializ	zed / Compulsory		
Class For	mat	Lecture			Credits	School Credit: 1			
Departme	ent	Electrical a	nd Computer E Engineering Co	ngineering Jrse	Student Grade	4th			
Term		Second Ser	<u> </u>		Classes per Wee	eek 2			
Textbook Teaching									
Instructor		HAMADA Y	ukihiro						
Course	Objectiv	es							
[1] Can e [2] Can e	explain the	generalized co basics of grad	oncept of being h theory. al language th	equal and being	larger (smaller).				
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	ient 1		Can explain the relation, partia total orders ac	l orders, and	Can explain the relation, partial total orders.		Cannot explain the equivalence relation, partial orders, and total orders.		
Achievem	ient 2		Can explain the	e path, nd tree of graph	Can explain the connectivity, an theory.		Cannot explain the path, connectivity, and tree of graph theory.		
Achievem	evement 3 Can use Backus form, context- free grammar, finite automaton, free grammar				Can use Backus free grammar, f and regular gra	inite automato			
Assigne	d Depar	tment Obje	ctives						
	ig Metho								
Outline	Discrete mathematics is a field of mathematics that deals								
Style Classes will be held in a lecture				cture style.					
Notice		description	. Try to solve the	l the exact definiti ne examples or ex more of classes v	ercise problems	yourself and so	tive image from the formal core it against the answer.		
Charact	eristics o	of Class / D	ivision in Le	arning					
Active	Learning		☑ Aided by ICT ☑ Applicable to			Remote Class	 Instructor Professionally Experienced 		
Course	Plan								
		Th	eme			Goals			
		1st Bir	nary relation 1	of 2	(Can explain the	e basics of binary relation.		
		2nd Bir	nary relation 2	of 2		Can calculate contracts co	omposition and exponentiation of		
		3rd Eq	uivalence relati	on 1/2	(Can explain the	e equivalence relation, which is a of the concept of equal.		
		4th Eq	uivalence relati	on 2/2	(Can handle equivalence class, quotient set, and subdivisions of equivalence relation.			
	3rd		der 1 of 2		(Can explain the	e partially ordered set and total		
	Quarter		der 2 of 2		(Can handle the extremum, ma partially ordere	equality (=) generalization. upper extremum, lower ximum, and minimum values of a ed set, and can explain the above		
			dterm exam	class	((below) bound	ary.		
2nd Semeste	It is given during class.					he binary relation as a directed			
r		_{9th} Ha		opological sort, an	nd transitive	set, and can ex	sse diagram of partially ordered plain the closure of topological sort		
				<u>ר</u>		and transitive.	e basics of graphs.		
4th			aph basics 1 of aph basics 2 of			Can explain n-p paths in a grap	partite graph and several kinds of h. Also, can represent a graph by rix, adjacency list and incidence		
Quarter	Quarter	12th Th	e connectivity o	of a graph		Can explain the component, cu	e diameter, radius, connected t vertex, bridge, connectivity and ity. Also, can explain n-connected nnected.		
		13th Tre	ee		lt	heorems abou	e fundamental concepts and It trees. Also, can explain ordered tree, binary tree and n-ary tree.		

		114fn 1	Finite automaton automaton	and nondetermir	nistic finite	state transitio	and NFA forma n diagrams. Als hat they accept	lly and draw their so, can determine
	15th Regular grammar and regular expression			grammar form	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					
Evaluatio	n Met	hod and V	Veight (%)					
	E>	amination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	10	00	0	0	0	0	0	100
Basic Proficiency	ency 0 0 0		0	0	0	0	0	
Specialized Proficiency			0	0	0	100		
Cross Area Proficiency	Area o o o		0	0	0	0		

Д	Akashi College		Year	2023		Course Title	Computer Architecture		
Course Information Course Code 5425		tion							
		5425		Course Category	/ Specializ	ed / Compulsory			
Class For	mat	Lecture			Credits	Academ	ic Credit: 2		
Departme	ent	Computer E	nd Computer El Engineering Col		Student Grade	4th			
Term	17	First Semes	ter		Classes per Wee	ek 2			
Textbook Teaching	and/or Materials								
Instructor		NOMURA H	ayato						
Course	Objectiv	es							
2. Unders 3. Unders	stand the in stand the o	basic structure nstruction set control archited nemory archited	architecture. cture.	ity of a computer.					
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievement 1				d can explain the and functionality	Understand the and functionality				
Achievement 2			Understand and instruction arch	d can explain the nitecture.	Understand the architecture.	instruction	Do not understand the instruction architecture.		
Achievem	Achievement 3		Understand and control archited	d can explain the	Understand the architecture.	control	Do not understand the control architecture.		
				d can explain the		memory	Do not understand the memory		
			memory archit	ecture.	architecture.		architecture.		
	igned Department Objectives								
Teachin	ng Metho	d							
Outline	utline In this course, students will learn the overview of the bas theory of the CPU instruction set and executive control, m computer.					tructure and function of the second sec	unctionality of a computer, and the /output devices that make up a		
			mainly involve	e lectures, but if ne	ecessary, there w	ill be exercises	to improve understanding and		
Notice	oristics	Students w	s, students are and be consciou ho miss 1/3 or	more of classes w	into account the , which is the cou vill not be eligible	contents of Op re hardware of for evaluation	erating System held in the first a computer, execute a process.		
	e Learning	•	ivision in Le ☑ Aided by IC		☑ Applicable to	Remote Class	☑ Instructor Professionally Experienced		
Course	Dlan								
Course		Тр	eme			Goals			
						Goals Understand the basic structure and functiona			
		and Da	ta representati	outer architecture on (1): Fixed-poir		of a computer.	e fixed-point and floating-point resenting numeric data.		
		floa	ating-point forr	nats on (2): Text data,	image data	Jnderstand the	resenting numeric data.		
	1st	4th Ins	truction archite	ecture (1): Basic o	configuration,	mage data. Jnderstand the	basic CPU configuration and		
	Quarter	Ins Eth Ins	truction set struction archited dressing mode	ecture (2): Instruc	ction formats,	nstruction set. Jnderstand the node.	instruction format and addressing		
		6th Ins		ecture (3): Instruc	ction execution		order in which the instructions ar		
1st			•	ıre (1): Control m	ath a da	Jnderstand the	e methods and pipelines for ruction execution.		
Semeste r		8th Mic	lterm exam			Midterm exam			
				ıre (2): Interrupts			errupts that change the flow of cution.		
	10th Me	mory architect	ure (1): Virtual m	omony		e mapping between physical and			
		11th Me	mory architect	ure (2): Cache me			he memory and paging.		
	2nd	12th Me	mory architect	ure (3): Address t	ranslation	Jnderstand the	address translation.		
	Quarter			ure (4): Segmenta			e segmentation method.		
				nitecture (1): Type ces and their man		Jnderstand the heir managem	e types of input/output devices and ent.		
		15th cha	annels	nitecture (2): Inpu	· ·		e input and output channels.		
	16th Final exam					Final exam			

Evaluation	Method and W	/eight (%)					
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Task	Total
Subtotal	60	0	0	0	0	40	100
Basic Proficiency	30	0	0	0	0	20	50
Specialized Proficiency	20	0	0	0	0	10	30
Cross Area Proficiency	10	0	0	0	0	10	20

A	Akashi College Year 2023				ourse Title	Computer Programming III A				
Course	Information	tion								
Course Co	ode					Course Catego	ry	Specialize	d / Compulsory	
Class Form	mat	Lecture				Credits		School Cr	edit: 1	
Departme	ent			d Computer Er ngineering Cou		Student Grade		4th		
Term		First Se	mest	er		Classes per We	eek	2		
Textbook Teaching										
Instructor	r	HIRANC) Mas	satsugu						
Course	Objectiv	es								
The goal of this course is acquire the following via lectures and exercises or 1) Can explain the basic grammar of the object-oriented programming language. 2) Understand the concept of object-oriented programming. 3) Can create an application for a problem given. 4) Can solve a problem through programming.										
Rubric										
			Standard Leve			Unacceptable Level				
Achievem	ient 1		oi p u oi	f the object-or rogramming la nique gramma	anguage and the	Can explain the of the object-o programming l unique gramm oriented progra language.	riented anguag ar obje	je and the ct-	Cannot explain the basic grammar of the object-oriented programming language and the unique grammar object- oriented programming language in detail.	
Achievem	Understand the concept of Understand			Understand the object-oriented	e conce d progra	pt of amming.	Do not understand the concept of object-oriented programming.			
Achievem	ient 3		C a	an create an c pplication for a	ptimal a problem given.	Can create an problem given.		tion for a	Cannot create an optimal application for a problem given.	
	Can solve a problem programming indepe			blem through ndependently.	Can solve a pro programming i with investigat	in conju		Cannot solve a problem through programming.		
Assigne	d Depar	tment O	bjec	tives						
Teachin	g Metho	d								
Outline		problem to solve oriented	n solv prot l con	ving through p plems through cepts that are	rogramming in ar programming usi	n early time. In ing the Python p current softwar	this cou progran e desig	urse, stude nming lang n. The insi	ted to develop a mindset of ents will be developing the ability guage. They will also learn object- tructor who have been developing h in class	
Style		Classes	will to ch	be conducted i neck students' from the exerc	n a lecture style i understanding. O	n line with the t	textboo ave gair	k at the be	eginning. Then there will be er understanding, carry out n groups will be assigned in the	
Notice		Review In addit achieve	the C ion to the g	C languages lea o the periodic goals.	arned in Program exam, students s more of classes w	hould conduct o	lass rev	view quizz	elop a daily programming habit. es, exercises, and assignments to	
Charact	oristics			vision in Lea		in not be eligible		passing gi	due.	
☑ Active				Aided by IC		☑ Applicable t	olicable to Remote Class			
	-		I			1				
Course	Plan									
			The	me			Goals			
		1st	proc	ic knowledge c graHistory, cur ironment of Py	of the object-orier rent situation and	nted 1 development			characteristics of the object- nming language. up.	
			ics of program			done v	-oriented without loc program.	development procedures can be king at anything. Can run a		
	3		Pyth	non basics			Can so data ty		se problems using variables and	
1st Semeste		4th	Ope	rator			valenc	les and im e can be e ms can be	mutables, identity and same- explained, and these exercise solved.	
r		5th	Con	ditional branch	ning, repeating		Explair		e function and list comprehension	
		6th	Loop	p control, exce	ption handling		Can define the try instruction.			
		7th	Mod	lule, string ope	eration		Can cr about	eate a pro string exe	gram on your own after asked rcise questions.	
		8th	Midt	term exam			Unders week i	stand the on the first	content taught in first to seventh semester.	
	2nd Quarter	9th	Date	e and time ope	eration		Can understand the date and time operation and create a program.			

		10th	Sequence typ	pe			Under immu	stand the slice table lists, and	syntax, queue create progra	e structure, and ms.
		11th	Collective typ	e type, dictionary type				nderstand sets ams.	and hash tabl	es and create
		12th	Regular expr	ression					ular expression	s and create
		13th	File operation	า			Can c quest	reate a prograi ions about exe	m on your owr rcises using file	after asking processing.
		14th	Standard libr	ary (others)				nderstand the a program.	acquisition via	HTTP and
		15th	Method call	call			Under metho	stand and can	create progra	m using call
		16th	Final exam				Under fifteer	rstand the cont oth week in the	ent taught in r first semester	inth to
Evaluation	n Meth	od and	Weight (%))						
	Exan	nination	Presentation	Mutual Evaluations between students	Behavior	Portfoli	0	Exercises	Other	Total
Subtotal	65		5	0	0	0		30	0	100
Basic Proficiency	0		0	0 0 0			0	0	0	
Specialized Proficiency	65		5	0 0 0			30	0	100	
Cross Area Proficiency	0		0	0	0	0		0	0	0

Д Д	kashi Co	ollege	Year	2023		Course Title	Computer Programming		
Course	Informa	tion					•		
Course Co	urse Code 5427 ss Format Lecture Electrical and Computer Engineering				Course Categor	y Special	ized / Compulsory		
Class For	mat	Lecture			Credits	School	Credit: 1		
Departme	ent		l and Computer E er Engineering Co		Student Grade	4th			
Term		Second	Semester		Classes per We	ek 2			
Textbook Teaching									
Instructor	r	HIRANO	Masatsugu						
The goal 1) Can ex programr 2) Unders 3) Can cr 4) Can so	plain the t ning langu stand the c eate an ap	rse is acqu basic grami	pject-oriented nd the unique	programming language. grammar of the object-oriented					
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	Achievement 1		of the object-oprogramming unique gramm	language and the	Can explain the of the object-or programming la unique gramma oriented progra language.	riented anguage and t ar object-	grammar of the object-oriented		
Achievem	Achievement 2		and can give p	d programming practical example.	Understand the object-oriented	programming	programming.		
Achievem	Achievement 3		Can create an application for	optimal a problem given.	Can create an a problem given.		a Cannot create an optimal application for a problem given.		
			Can solve a pr programming	Can solve a problem through programming independently.		blem through conjunction on.	Cannot solve a problem through programming.		
Assigne	d Depar	tment Ol	ojectives						
Teachin	ig Metho	d							
Outline		problem to solve oriented medical	solving through problems throug concepts that ar system in a com	programming in ar h programming us e important in the pany will take adva	n early time. In t ing the Python p current software antage of their e	his course, stu rogramming la design. The i operience to te			
Style		auizzes	to check students ing from the exe	rill be conducted in a lecture style in line with the textbook at the beginning. Then ther o check students' understanding. Once students have gained a better understanding, c ng from the exercise questions in the computer lab. Programming in groups will be ass veeks.					
Notice		In additi	on to the periodi the goals.	earned in Program c exam, students s r more of classes v	hould conduct cl	ass review qui	evelop a daily programming habit. zzes, exercises, and assignments to grade.		
Charact	eristics of	of Class /	Division in Le	earning					
🛛 Active			☑ Aided by I		☐ Applicable to Remote Class ☐ Instructor Profession Experienced				
Course	Plan								
			Theme			Goals			
		1st	Creation assignm	nent(1)		Describe the c	ontent of the assignment. Can am that fits requirement		
		2nd	Creation assignm	nent(2)		Can present th requirements	ne program that fits the specification to other students.		
		3rd	Creation assignm	nent(3)		Can carry out task.	programing as a group on a given		
	3rd Quarter	4th	Creation assignm	nent(4)		Can carry out task.	programing as a group on a given		
		5th	Creation assignm	nent(5)		Can carry out task.	programing as a group on a given		
r		6th	Creation assignm	nent(6)		Can carry out task.	programing as a group on a given		
		7th	Creation assignm	nent(7)			or a mini-programming contest.		
		8th	Mini-programmir	ng contest			e content taught in first to seventh econd semester.		
	4th Quarter	9th	Argument notations	on, high-order and	· /	Understand ke / anonymous programs.	eyword arguments and higher-order functions, and be able to create		
Quarter		10th	User-defined fun	ction (1)		Understand de modularization	ecorator, generator and the n of functions and create programs.		

		11th	User-defined	function (2)					onous processir create program	
		12th	Object-orient	ed syntax (1)				nderstand class programs.	ses, encapsulat	ions, and
		13th	Object-orient	ed syntax (2)				nderstand and tance and poly	create progran morphism.	ns about
		14th	Object-orient	ed syntax (app	lication 1)		Can u sectio	nderstand and ns, rise instruc	create progran tions, and spec	ns about finally ial methods.
		15th	Object-orient	ed syntax (app	olication 2)		Can u metac	nderstand data lasses and refl	classes, iterate ect them in the	ors, and program.
		16th	Final exam						ent taught in ni second semes	
Evaluation	Meth	od and	Weight (%)							
	Exam	nination	Presentation	Mutual Evaluations between students	Behavior	Portfoli	0	Exercises	Other	Total
Subtotal	65		5	0	0	0		30	0	100
Basic Proficiency	0		0	0	0	0		0	0	0
Specialized Proficiency	65		5	0	0	0		30	0	100
Cross Area Proficiency	0		0	0	0	0		0	0	0

A	Akashi Co	ollege	Year	2023		Course Title	Operating System
Course	Informa	tion	•				
Course C	ode	5428			Course Categor	y Specializ	ed / Compulsory
Class For	mat	Lecture			Credits	School C	redit: 1
Departme	ent	Computer	and Computer Engineering Cou	ngineering urse	Student Grade	4th	
Term	and/or	Second Se	mester		Classes per Wee	ek 2	
Textbook Teaching	Materials						
Instructo	r	NOMURA I	Hayato				
1. Unders	Objectiv		rating systems a	and can explain th	ne differences bet	tween operating	systems such as Windows, Mac
2.Can ex 3. Can ex	plain mem plain the f	ory managen ile system	nent.	nted on operating	systems		
Rubric					systems.		
RUDIIC			Ideal Level		Standard Level		Unacceptable Level
			Can explain the	e key roles and			Cannot explain the key roles of
Achieven	nent 1		behaviors of OS		Can explain the	key roles of OS	OS.
Achievem	nent 2		Can explain pro management, i scheduling met	including various	Can explain pro management.	cess	Cannot explain process management.
Achieven	nent 3		Can explain me management, i difference betw physical and vi	including the veen managing	Can explain me management.	mory	Cannot explain memory management.
				ta protection and and can execute	Can explain dat security for OS.		d Cannot explain data protection or security for OS.
Assiane	d Denar	tment Obj			1		
	ng Metho						
	ig metric		the history of th	e operating system	ms, we will learn	about the roles	and functions of the operating
Outline		systems o	n which comput	ers run.	-		
Style		Classes and	e conducted thre	ough lectures and I through handout	exercises.		
Style		In addition	n to what studer	nts learned in class	ses, they will per		activities on assignments given.
Notice		to be awa	re of how OS, as	ed with Compute s software, contro more of classes v	ls a computer as	hardware.	l semester, students are requirec
Charact	teristics		Division in Le				
	e Learning		☑ Aided by IC		Applicable to	Pomoto Class	Instructor Professionally
	Learning			1		Remote Class	Experienced
Course	Plan						
			heme	and history of the		Goals	configuration and history of the
			stems	and history of the	e operating	operating syste	ms.
		2nd Sl	hell			Understand the between the op	shell that provides the interface erating system and the user.
		3rd Pi	rocess managen	nent 1		Understand pro management.	cess concepts and process
	3rd Quarter	4th Pr	rocess managen	nent 2		Understand job processes.	scheduling and interrupts for
		5th Pa	arallel process 1			Understand mu	ltitasking and multithreading.
		6th Pa	arallel process 2				lusive controls, critical sections,
		7th Pa	arallel process 3			and deadlocks. Understand sen	haphores and monitors.
2nd Semeste			idterm exam			Midterm exam	
r			ain memory ma	nagement 1			relationship between physical ar and how to manage them.
			ain memory ma	5			and how to manage them. ing and segmentation.
			ain memory ma				le replacement methods.
	1+h		le			Understand file	management and file system re, and implementation.
	4th Quarter	13th D	evice managem	ent			v devices connected to the syster
		14th V	irtualization				virtualization technologies.
			rotection and se	curity		Understand the	concept of system calls, OS
				carrey		protection, and	security.
		16th Fi	nal exam			Final exam	

Evaluation	Method and W	/eight (%)					
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Task	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	Data Structures and Algorithms
Course	Informa	tion					
Course Co	ode	5429			Course Categor	y Specializ	zed / Compulsory
Class For	mat	Lecture			Credits	Academ	ic Credit: 2
Departme	ent	Electrical a	and Computer E Engineering Co	ngineering urse	Student Grade	4th	
Term		Second Se	<u> </u>		Classes per Wee	ek 2	
Textbook						•	
	Materials		Aukibiro				
Instructor			rukiniro				
[1] Lea [2] Unc [3] Lea	derstand ba Irn basic al	ues for the co asic data stru gorithm desig	ictures and oper gn techniques.	sis of algorithms. ations for them. neir time complex	ity.		
Rubric		uoro oor arrig a	<u></u>				
Rabite			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1			e complexity of nd the lower blem.	Can analyze the an algorithm.	e complexity of	
Achievem	nent 2		Understand the structures and accurately.		Understand and data structures	l can use basic	Do not understand the basic data structure and cannot use them
Achievem	nent 3		techniques acc	1	Can use basic al techniques.	lgorithm desigi	design techniques
Achievem	nent 4		Can accurately sorting algorith time complexit	ims and their	Can explain bas algorithms and complexity.	ic sorting their time	Cannot explain basic sorting algorithms and their time complexity.
Assigne	ed Depar	tment Obj	ectives				
Teachin	ng Metho	d					
Outline Style		design tec algorithm calculatior in other w	hniques. A data is a calculation within a finite a	structure represe procedure that so amount of time as ients for a progra	ents a collection o Ives a problem, a s long as vou follo	of data and the and always give ow the procedu	ledge of algorithms, and algorithm relationship between the data. An es an answer and complete the re Data structures and algorithms, in creating an efficient program.
Notice	-origing (guarantee assignmer assignmer that stude Students v	d in classes and at reports. Stude ats for the week ats score at leas who miss 1/3 or	the standard self ents are required will be done on t st two-thirds in th more of classes y	f-study time requi	ired for pre-stues to think. Quitem. As it's a lession of the state tem. As it's a lession of the state of th	s include the learning time dy / review, and completing zzes and programming earning-credit subject, it's essential submit them by the due date.
			Division in Le				Instructor Professionally
Active	e Learning		☑ Aided by IC	Т	☑ Applicable to	Remote Class	Experienced
Course	Plan						
		Т	heme		(Goals	
		1st A	lgorithms and co	omputational com	plexity	and an exampl are algorithms	ne difference between a problem e problem, and can explain what that solve the problem. Can mplexity of an algorithm using the
		2nd D	ata structure th	at represents the	column 1/2	in a program. (w arrays and lists are implemented Can analyze the time complexity sic operations for each data
2nd	2.4	3rd D	ata structure th	at represents the	column 2/2	implemented ir nature of each	w stacks and queues are a program Can analyze the data structure and the time uired for basic operations.
Semeste r	3rd Quarter	4th G	raphs and trees		i	implemented ir Can explain tin	w graphs and trees are a program and space complexity. he complexity for operations to djacency of the vertices of a graph method.
			еар			ordered trees.	ne-dimensional array of partially Can write an algorithm that makes d algorithm that inserts and
		5th H				deletes data. A complexity.	lso, can analyze their time

		7th	Divide-and-cond	quer method				he divide-and- pination with the
		8th	Midterm examir	nation				
		9th	Dynamic planni	ng method		Can explain the extensively in calculation pro	optimization pro	ning method used oblems and its
		10th	Simple sorting a	lgorithms and	decision tree	insertion, simp can analyze th the number of	le selection, an	ods such as simple d bubble sort, and exity. Can analyze a sorting by trees.
		11th	Optimal sorting	algorithm		sort, and analy		erge sort and heap omplexity. They complexity.
	4th	12th	Quicksort and b	ucket sort		complexity. It	has optimal av	and analyze its time erage-case time ucket sort algorithm ty.
	Quarter	13th	Binary search m	nethod and bin	ary search tree	fast data search size of the sea a binary search search that all	h when the dat rch key. Can wi tree, using co	method that allows a is sorted by the rite an algorithm for ncept of binary ion or deletion, and ty.
		14th	AVL tree, B tree	e, hashing met	hod	the balance of B trees, typica	the trees. Can l equilibrium tre method that re	cessarily improve explain the AVL and ees. In addition, can epresents a set
		15th	Greedy algorith	m		that make up t	the minimum sp	Kruskal and Prim panning tree of a time complexity.
		16th	Final examination	on				
Evaluati	on Met	hod and	Weight (%)					
	E>	amination	Exercise	Task	Behavior	Portfolio	Other	Total
Subtotal	66	5	14	20	0	0	0	100
Basic Proficiency	y O		0	0	0	0	0	0
Specialize Proficiency	d 66	5	14	20	0	0	0	100
Cross Area Proficiency			0	0	0	0	0	0

	Akashi Co	ollege	Year	2023		Course Title	Experiments of Computer Engineering I A
Course	Informa				-		
Course C		5430			Course Category		ed / Compulsory
Class For		Experime Electrical	and Computer Ei	naineerina	Credits	School C	redit: 2
Departme	ent	Compute	er Engineering Cou	urse	Student Grade	4th	
<u>Term</u> Textbook	and/or	First Sen	nester		Classes per Wee	k 4	
Teaching	Matérials	_					
Instructo		•	VA Shinichi,INOU	E Kazunari,HIRAN	IO Masatsugu,NOI	MURA Hayato,	
1. Can ac 2. Can co	onduct expe	icipate in ex eriments in	a planned manne	oup and carry out our based on the band on the band on the band on the band of	isic ability, and an	alyze the resu	the group members. Its of an experiment.
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achieven	nent 1		Can actively pa experiments by out experiment with the group	group and carry sin cooperation	Can carry out ex cooperation with members.		Cannot carry out experiments.
Achieven	nent 2		Can conduct explanned manned the results of a	er and analyze	Can analyze the experiments.	results of the	Cannot analyze the results of a experiment.
Achieven	nent 3			in a report with expressions and	Can summarize t an experiment in correct writing e	a report with	Cannot summarize the results of an experiment in a report.
Assigne	ed Depar	tment Ob			•		·
Teachir	ng Metho	d					
		Ithe const			perience in experir	ments on the d	configuration of the equipment an
Style		semester in a com Students informati They will guidance In the int network	r will be supervise pany. will conduct expension technology, FF actively conduct provided on the formation enginee equipment develo	The experiments ad by persons eng eriments on theme PGAs, and microco experiments give, spot by the instru ering experiment, opment will utilize	in weeks 9 to 12 aged in the development es closely related proputers, in grou , based on their o ctor of the experin faculty members	of the first ser opment of electric to the electric ps of four to fi wn necessary ment. with practical	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as
Style		semester in a com Students informati They will guidance In the information network equipme fi all report must clea the first of	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develo nt and the constru- orts have not bee an the lab and pu week of the first a	The experiments of by persons eng PGAs, and microco experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. n received by the t away the equipr and second semes	in weeks 9 to 12 aged in the development es closely related omputers, in grou , based on their or ctor of the experin faculty members their experience i due date, student nent. Precautions ters. Students ha	of the first ser opment of electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa	tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments.
Notice	teristics (semester in a com Students informati They will guidance In the ini network equipme If all report must cleat the first v Students	r will be supervise pany. will conduct expension technology, FF actively conduct provided on the equipment develor nt and the constru- ports have not bee an the lab and pu week of the first a will not be grade	The experiments ad by persons eng eriments on theme PGAs, and microco experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. n received by the t away the equiprand second semes ad unless they hav	in weeks 9 to 12 aged in the development es closely related omputers, in grou , based on their or ctor of the experin faculty members their experience i due date, student nent. Precautions ters. Students ha	of the first ser opment of electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments.
Notice Charact	teristics o	semester in a com Students informati They will guidance In the ini network equipme If all report must cleat the first v Students	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develo nt and the constru- orts have not bee an the lab and pu week of the first a	The experiments of by persons eng PGAs, and microco experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. n received by the t away the equipr and second semes of unless they hav arning	in weeks 9 to 12 aged in the development es closely related omputers, in grou , based on their or ctor of the experin faculty members their experience i due date, student nent. Precautions ters. Students ha	of the first ser opment of electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments.
Notice Charact	e Learning	semester in a com Students informati They will guidance In the ini network equipme If all report must cleat the first v Students	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade	The experiments of by persons eng PGAs, and microco experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. n received by the t away the equipr and second semes of unless they hav arning	in weeks 9 to 12 aged in the development es closely related bomputers, in grou , based on their or ctor of the experii faculty members their experience i due date, student nent. Precautions ters. Students have e participated in a	of the first ser opment of electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments.
Notice Charact	e Learning	semester in a com Students informati They will guidance In the information network equipme If all report must clea the first of Students	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Aided by IC	The experiments of by persons eng PGAs, and microco experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. n received by the t away the equipr and second semes of unless they hav arning	in weeks 9 to 12 aged in the development es closely related bomputers, in grou , based on their or ctor of the experin faculty members their experience i due date, student nent. Precautions ters. Students have participated in a	of the first ser opment of electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the tive a passing grade. Students experiments will be given during te in all experiments. S.
Notice Charact	e Learning	semester in a com Students informati They will guidance In the information network equipme If all report must clea the first of Students	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade	The experiments ad by persons eng PGAs, and microco experiments on theme spot by the instru- pring experiment, poment will utilize uction of a LAN. n received by the t away the equipr and second semes ad unless they hav arning T	in weeks 9 to 12 aged in the development of the development of the experi- faculty members their or ctor of the experi- faculty members their experience in due date, student nent. Precautions ters. Students have participated in a Applicable to U	of the first ser opment of elec to the electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments Remote Class Goals	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments. Instructor Professionally Experienced e various precautions related to periments and the outline of the
Notice Charact Z Active	e Learning	semester in a com Students informati They will guidance In the inf network equipme If all report must clear the first Students of Class /	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea □ Aided by IC Theme	The experiments ad by persons eng PGAs, and microco experiments give, spot by the instru- end second semes and second semes and second semes and unless they hav arning T	in weeks 9 to 12 aged in the development es closely related bomputers, in grou , based on their or ctor of the experii faculty members their experience i due date, student ment. Precautions ters. Students have participated in a participated to group of the experi- due date, student the participated in a group of the experi- ters. Students have the participated in a group of the experi- ters. Students have the participated in a group of the experi- tion of the experi- tion of the experi- tion of the experi- due date, student the participated in a group of the experi- tion of the e	of the first ser opment of elec to the electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments Remote Class Goals Understand the ngineering exp heme of each Inderstand how ayer 2, includi	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments. Instructor Professionally Experienced various precautions related to beriments and the outline of the experiment. w LAN cables work and TCP/IP ng forwarding.
Notice Charact Z Active	e Learning	semester in a com Students informati They will guidance In the information equipme If all report must cleat the first of Students of Class /	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develo nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Aided by IC	The experiments ad by persons eng PGAs, and microco experiments give, spot by the instru- end second semes and second semes and second semes and unless they hav arning T	in weeks 9 to 12 aged in the development es closely related bomputers, in grou , based on their or ctor of the experii faculty members their experience i due date, student ment. Precautions iters. Students have participated in a participated in a participated in a group of the student to the student faculty of the student of the student faculty of the student facul	of the first seropment of electric ps of four to fiven with practical in experiments ts will not recer- regarding the ve to participa all experiments Remote Class Goals Understand the ngineering exp heme of each Inderstand how ayer 2, includi Inderstand lay nd L3 switche	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the tive a passing grade. Students experiments will be given during te in all experiments. Instructor Professionally Experienced various precautions related to beriments and the outline of the experiment. w LAN cables work and TCP/IP ng forwarding. er 2 and 3 by the operation of L2 s.
Notice Charact Z Active Course	e Learning	semester in a com Students informati They will guidance In the informati network equipme If all repu- must clea the first Students of Class /	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Division by IC Theme Experiment guida Making LAN cable Network fundame Various router con	The experiments and by persons eng PGAs, and micrococ experiments on theme experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. In received by the and second semes and unless they hav arning T	in weeks 9 to 12 aged in the development es closely related bomputers, in grou , based on their or ctor of the experii faculty members their experience i due date, student nent. Precautions iters. Students have e participated in a due date, student due date, student their experience due date, student due date, studen	of the first ser opment of elec to the electric ps of four to fi wn necessary ment. with practical in experiments ts will not rece regarding the ve to participa all experiments Remote Class Goals Inderstand the ngineering exp heme of each Inderstand how ayer 2, includi Inderstand how ayer 2, includi Inderstand how ayer 2, includi	 mester and week 9 of the second stronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other so on the configuration of the experiments will be given during te in all experiments. Instructor Professionally Experienced Instructor Professionally experiments and the outline of the experiment. w LAN cables work and TCP/IP ng forwarding. er 2 and 3 by the operation of L2 s. evarious router configurations, tion, and security controls.
Notice Charact Z Active Course	Plan Ist	semester in a com Students informati They will guidance In the informati network equipme If all repu- must clea the first Students of Class / 1st 2nd 3rd 4th	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Will not be grade Division in Lea Will not be grade Division in Lea Will not be grade Network fundame Various router con Internet of things Microcomputer 1	The experiments and by persons eng- PGAs, and microco- experiments on theme- PGAs, and microco- experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. In received by the t away the equiprand second semes and second semes and second semes and unless they hav arning T Ince entals and IP addru- nfigurations and t	in weeks 9 to 12 aged in the developmenters, in grou based on their or ctor of the experin faculty members their experience in due date, student nent. Precautions iters. Students have participated in a Applicable to	of the first ser opment of elec- to the electrica ps of four to fi wn necessary ment. with practical in experiments ts will not rece- regarding the ve to participa all experiments Remote Class Goals Inderstand the ngineering exp heme of each Inderstand how ayer 2, includi Inderstand lay nd L3 switche Inderstand the VAN/LAN isola	 mester and week 9 of the second tronic devices and other activities and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the second the second the second the second the configuration second the second the second the configuration of the second the configuration of the second the second the configuration of the second the configurations and the outline of the second the second the configuration of L2 second the sec
Notice Charact Z Active Course	Plan Ist	semester in a com Students informati They will guidance In the informati network equipme If all report Students of Class / 1st 2nd 3rd 4th 5th 6th	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Will not be grade Division in Lea Will not be grade Division in Lea Will not be grade Network fundame Various router con Internet of things Microcomputer 1	The experiments and by persons eng PGAs, and micrococ experiments on theme experiments give, spot by the instru- ering experiment, opment will utilize uction of a LAN. In received by the and second semes and unless they hav arning T	in weeks 9 to 12 aged in the developmenters, in grou based on their of ctor of the experin faculty members their experience in due date, student nent. Precautions iters. Students have participated in a a a a a b b esses	of the first ser opment of elec- to the electrica ps of four to fi wn necessary ment. with practical in experiments ts will not rece- regarding the ve to participa all experiments Remote Class Goals Inderstand the ngineering exp neme of each Inderstand the nderstand lay nd L3 switche Inderstand the sing microcom Inderstand the sing microcom	 mester and week 9 of the second tronic devices and other activities and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the experiments will be given during te in all experiments. Instructor Professionally Experienced Instructor Professionally Experienced evarious precautions related to be experiment. w LAN cables work and TCP/IP ng forwarding. evarious router configurations, tion, and security controls. e control of communication device puters. IoT in LPWA communications and secures.
Notice Charact Z Active Course	Plan Ist	semester in a com Students informati They will guidance In the informati retwork equipme If all rep must clea the first Students of Class / 1st 2nd 3rd 4th 5th 6th 7th	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Will not be grade Division in Lea Making LAN cable Network fundame Various router con Internet of things Microcomputer 1 Internet of things Microcomputer 2 Report organizatio	The experiments and by persons eng PGAs, and microco experiments give, spot by the instru- eriment will utilize opment will utilize opment will utilize and second semes and second semes and unless they hav arning T T nce entals and IP address entals and IP address experiments usin experiments usin	in weeks 9 to 12 aged in the development of the experimentary of the experimentary in groun, based on their or of the experimentary members their experience in a due date, student nent. Precautions there. Students have participated in a participated in a group of the experimentary	of the first ser opment of elec- to the electrica ps of four to fi wn necessary ment. with practical in experiments ts will not rece- regarding the ve to participa all experiments Remote Class Goals Inderstand the ngineering exp neme of each Inderstand the nderstand lay nd L3 switche Inderstand the sing microcom Inderstand the sing microcom	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the everiments will be given during te in all experiments. I Instructor Professionally Experienced various precautions related to be experiment. N LAN cables work and TCP/IP ng forwarding. er 2 and 3 by the operation of L2 s. e various router configurations, tion, and security controls. e control of communication device nguters. I I I LPWA communications an o servers.
Notice Charact	Plan Ist	semester in a com Students informati They will guidance In the informati retwork equipme If all rep must clea the first Students of Class / 1st 2nd 3rd 4th 5th 6th 7th	r will be supervise pany. will conduct expe- ion technology, Ff actively conduct provided on the formation enginee equipment develor nt and the constru- orts have not bee an the lab and pu week of the first a will not be grade Division in Lea Division in Lea Aided by IC Theme Experiment guida Making LAN cable Network fundame Various router con Internet of things Microcomputer 1 Internet of things Microcomputer 2	The experiments and by persons eng PGAs, and microco experiments give, spot by the instru- eriment will utilize opment will utilize opment will utilize and second semes and second semes and unless they hav arning T T nce entals and IP address entals and IP address experiments usin experiments usin	in weeks 9 to 12 aged in the developmenters, in grou based on their or ctor of the experin faculty members their experience in due date, student nent. Precautions iters. Students have e participated in a Applicable to	of the first ser opment of elec- to the electrica ps of four to fi wn necessary ment. with practical in experiments ts will not rece- regarding the ve to participa all experiments Remote Class Goals Inderstand the ngineering exp heme of each Inderstand the sing microcom Inderstand the sing microcom Inderstand the sing microcom Inderstand the sing microcom Inderstand the sing microcom	nester and week 9 of the second tronic devices and other activities al and electronic fields, such as ve, and submit a report on them. preparation and pre-study, and experience in router and other s on the configuration of the everiments will be given during te in all experiments. I Instructor Professionally Experienced various precautions related to be experiment. N LAN cables work and TCP/IP ng forwarding. er 2 and 3 by the operation of L2 s. e various router configurations, tion, and security controls. e control of communication devices puters. I I InSPWA communications an o servers. and compile the results of the

		10th	FPGA2 (emulator	debug)		logical circuits	ne simulation ar s using the IDE Environment).	nd debugging of (Integrated
		11th	FPGA3 (impleme	ntation and oper	ation)	Understand ci Programmable	rcuit implement e Logic Array).	tation in FPGA(Field
		12th	FPGA4 (evaluatio	n)			ne operation, de implementation	bugging, and circuitry with
		13th	Computer measu	rement I.			waveform meas ing a computer	urement and and measurement
		14th	Computer measu	rement II.		Can fabricate an interface n	a stethoscope ι nicrophone for r	using a computer and measurement.
		15th	Report organizati	on		Can examine experiment in	and compile the to a report.	e results of the
		16th	No final exam					
Evaluatio	on Me	thod and	Weight (%)					
	F	Report	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	8	30	0	0	20	0	0	100
Basic Proficiency	. ()	0	0	0	0	0	0
Specialized Proficiency		30	0	0	20	0	0	100
Cross Area Proficiency)	0	0	0	0	0	0

A	Akashi Co	ollege	Year	2023		Course Title	Experiments of Computer Engineering I B
Course	Informa	tion			1		
Course Co		5431			Course Categor	·	zed / Compulsory
Class For	mat	Experime			Credits	School (Credit: 2
Departme	ent	Compute	and Computer Ei r Engineering Cou		Student Grade	4th	
Term		Second S	emester		Classes per Wee	ek 4	
Textbook Teaching	and/or Materials						
Instructo		•	ichi,TERASAWA	Shinichi,ENOMOT	O Ryuji		
1. Can ac 2. Can co	onduct exp	icipate in ex eriments in a	a planned manne	oup and carry out our based on the ba n a report with co	isic ability, and a	nalyze the resu	n the group members. Its of an experiment.
Rubric					1		
			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1			y group and carry ts in cooperation	Can carry out ex cooperation with members.		Cannot carry out experiments.
Achievem	nent 2		Can conduct explanned manned the results of a	er and analyze	Can analyze the experiments.	results of the	Cannot analyze the results of ar experiment.
Achievem	nent 3			in a report with expressions and	Can summarize an experiment i correct writing e	n a report with	Cannot summarize the results of an experiment in a report.
Assigne	ed Depar	tment Ob					
	ng Metho	-	<u>.</u>				
Style		experime electronic Students informatio They will guidance	nts in week 9 to c devices and oth- will conduct expe- on technology, m actively conduct provided on the provided on the	11 of the semester er activities in a con- eriments on theme incrocomputers, in experiments give, spot by the instru- n received by the	er will be supervis ompany. es closely related groups of four to , based on their of ctor of the exper due date, studer	to the electric of five, and sub own necessary iment.	akai and Enomoto will be in charge ter-related activities. The engaged in the development of al and electronic fields, such as mit a report on them. preparation and pre-study, and eive a passing grade. Students
Notice		must clea	IN the lab and pu veek of the first a will not be grade	t away the equipn and second semes	nent. Precautions ters. Students ha	s regarding the ave to participa	experiments will be given during te in all experiments.
Charact	teristics	of Class /	Division in Lea	u uniess they hav	e participated in	all experiment	s.
Active	Learning				e participated in	all experiment	s.
			☑ Aided by IC	arning	 Participated in ☑ Applicable to 	·	☑ Instructor Professionally Experienced
<u></u>	Diam			arning		·	s.
Course	Plan	-	☑ Aided by IC	arning	Applicable to	Remote Class	s.
Course	Plan			arning T	Applicable to	Remote Class Goals Understand the	s. Instructor Professionally Experienced
Course	Plan	1st E	☑ Aided by IC	arning T nce	Applicable to	Remote Class Goals Understand the experiments ar theme. Understand the	s. Instructor Professionally Experienced Precautions regarding engineering
Course	Plan	1st E 2nd E	Aided by IC Theme Experiment guida	arning T nce h Python (1)	Applicable to	Remote Class Goals Understand the experiments ar theme. Understand the Python.	s. Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment basics of controlling drones using
Course	3rd	1st E 2nd [3rd [Aided by IC Theme Experiment guida	arning T T nce h Python (1) h Python (2)	Applicable to	Remote Class Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a P	s. Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment
Course		1st E 2nd E 3rd E 4th E	 Aided by IC Theme Experiment guida Drone control with Drone control with 	arning T T nce h Python (1) h Python (2) h Python (3)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor Can create a Pythor Can create a Pythor	s. Image: Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment basics of controlling drones using to provide simple drone control.
<u>Course</u> 2nd	3rd	1st E 2nd E 3rd E 4th E 5th E	 Aided by IC Theme Experiment guida Drone control with Drone control with Drone control with 	arning T T nce h Python (1) h Python (2) h Python (3) h Python (4)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor	s. Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment basics of controlling drones using to provide simple drone control. ython program to perform a given
	3rd	1st E 2nd E 3rd E 4th E 5th E 6th E	 Aided by IC Theme Experiment guida Drone control with Drone control with Drone control with Drone control with 	arning T T nce h Python (1) h Python (2) h Python (3) h Python (4) h Python (5)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor	s. Image: Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment basics of controlling drones using to provide simple drone control. ython program to perform a given ython program to perform a given
2nd Semeste	3rd	1st E 2nd E 3rd E 4th E 5th E 6th E 7th E	Aided by IC Aided by IC Theme Experiment guida Drone control with Drone control with Drone control with Drone control with Drone control with	arning T T nce h Python (1) h Python (2) h Python (3) h Python (3) h Python (4) h Python (5) h Python (6)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pr task. Can create a Pr task. Can create a Pr task. Can create a Pr task.	s. Image: Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment e basics of controlling drones using to provide simple drone control. /thon program to perform a given
2nd Semeste	3rd	1st E 2nd E 3rd E 4th E 5th E 6th E 7th E 8th N	Aided by IC Aided by IC Theme Experiment guida Drone control with Drone control with Drone control with Drone control with Drone control with	arning T T nce h Python (1) h Python (2) h Python (3) h Python (3) h Python (4) h Python (5) h Python (6)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pr task. Can create a Pr task. Can create a Pr task. Can create a Pr task.	s. Image Instructor Professionally Experienced Precautions regarding engineering the outline of each experiment e basics of controlling drones using to provide simple drone control. /thon program to perform a given
2nd Semeste	3rd Quarter	1st E 2nd E 3rd E 4th E 5th E 6th E 7th E 8th N 9th N	☐ Aided by IC Theme Experiment guida Drone control with Drone control with	arning T T nce h Python (1) h Python (2) h Python (3) h Python (3) h Python (4) h Python (5) h Python (6)	Applicable to	Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pr task. Can create a Pr task. Can create a Pr task. Can create a Pr task. Can perform th Can build contr microcomputer	s.
2nd Semeste	3rd	1st E 2nd E 3rd E 3rd E 4th E 5th E 6th E 7th E 8th N 9th N 10th N	☑ Aided by IC Theme Experiment guida Drone control with Drone control with </td <td>arning T T nce h Python (1) h Python (2) h Python (3) h Python (3) h Python (4) h Python (5) h Python (6)</td> <td></td> <td>Remote Class Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor Can build contr microcomputer Can build contr microcomputer</td> <td>s.</td>	arning T T nce h Python (1) h Python (2) h Python (3) h Python (3) h Python (4) h Python (5) h Python (6)		Remote Class Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor Can build contr microcomputer Can build contr microcomputer	s.
2nd Semeste	3rd Quarter 4th	1st E 2nd E 3rd E 4th E 5th E 6th E 7th E 8th N 9th N 10th N	☑ Aided by IC Theme Experiment guida Drone control with Drone control with </td <td>arning T T Ince h Python (1) h Python (2) h Python (2) h Python (3) h Python (4) h Python (5) h Python (6) n</td> <td>✓ Applicable to (1) (1) (1)</td> <td>Remote Class Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor Can build contr microcomputer Can build contr microcomputer Can build contr microcomputer</td> <td>s. I Instructor Professionally Experienced Precautions regarding engineering a the outline of each experiment basics of controlling drones using to provide simple drone control. ython program to perform a given ython program to perform a given ython program to perform a given is task in the completed program. I systems using embedded s. ol systems using embedded s. ol systems using embedded s. ol systems using embedded s. ol systems using embedded s.</td>	arning T T Ince h Python (1) h Python (2) h Python (2) h Python (3) h Python (4) h Python (5) h Python (6) n	✓ Applicable to (1) (1) (1)	Remote Class Goals Understand the experiments ar theme. Understand the Python. Can use Pythor Can create a Pythor Can build contr microcomputer Can build contr microcomputer Can build contr microcomputer	s. I Instructor Professionally Experienced Precautions regarding engineering a the outline of each experiment basics of controlling drones using to provide simple drone control. ython program to perform a given ython program to perform a given ython program to perform a given is task in the completed program. I systems using embedded s. ol systems using embedded s. ol systems using embedded s. ol systems using embedded s. ol systems using embedded s.

	14th	AI 2			Can build AI s	system.	
	15th	Summarizing and	l organizing		Can summariz	ze and organize	the experiment.
	16th	No final exam					
Evaluation	Method 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
Specialized Proficiency	80	0	0	20	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

	kasni Co	ollege	Year	2023				Off-Campus Practical Training A
Course 1	Informa	tion			-			
Course Co	ode	5432			Course Categor	y l	Specialize	ed / Elective
Class Forn	nat	Practical t	raining		Credits		School Cr	redit: 1
Departme	ent		and Computer En Engineering Cou		Student Grade		4th	
Term		Year-roun	<u> </u>	urse	Classes per We	ek	1	
Textbook	and/or		u			CK	1	
Teaching								
Instructor	-	All faculty	of the departme	ent				
Course	Objectiv	res						
(1) Can e:	xperience	some of the	actual technical	activities related	to engineering.			
()	se slides t	o report on ti	he things they h	ave experientially	/ learned.			
Rubric			1		T			
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		Can experience actual technica related to engin collaboratively.	l activities neering	Can experience actual technical related to engir	activiti	es	Cannot experience some of the actual technical activities related to engineering.
Achievem	ent 2		things they hav	to report on the ve experientially e understood by	Can use slides t things they hav learned.			Cannot use slides to report on the things they have experientially learned.
Assiane	d Depar	tment Obj						
	g Metho							
Outline	g Metrio	Internship fields of el	lectrical and elec	tronic engineerin	vernment agencie g and information n exert the know	n engin	eering. T	porations, universities, etc. in th hrough this experience, students learning.
Style			•		the internship de			
Notice		Student ne Students v such as re	eed to be respec who spend less t	tful of courtesies	ss than 32 hours	e, and o	ther beha ges withi	aviors appropriate as an internee n 2 hours may be replenished by
	eristics (of Class / [Division in Lea		passing grade.			
□ Active		of Class / [Division in Lea	arning	Passing grade. ☑ Applicable to	o Remo	te Class	☐ Instructor Professionally
		of Class / [arning		o Remo	te Class	☐ Instructor Professionally Experienced
Active	Learning	of Class / [arning	☐ Applicable to		te Class	
Active	Learning	1		arning	☑ Applicable to	Goals		Experienced
	Learning	т	Aided by IC	arning	Applicable to	Goals Can un training	derstand and the	Experienced the precautions of student manners at the training site.
Active	Learning	T 1st G	Aided by IC	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai	derstand and the perience ning site	Experienced the precautions of student manners at the training site. some of the technical activities a
Active	Learning Plan	TI 1st G 2nd Ir 3rd S	Aided by IC heme iuidance (at the o htern (during sur ame as above	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai Same a	derstand and the perience ning site as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Active	Learning	Till 1st G 2nd Ir 3rd So 4th So	Aided by IC heme iuidance (at the ntern (during sur ame as above ame as above	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai Same a Same a	derstand and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Active	Learning Plan 1st	Till1stG2ndIr3rdS4thS5thS	Aided by IC heme iuidance (at the ntern (during sur ame as above ame as above ame as above	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai Same a Same a Same a	derstand and the perience ning site as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Active	Learning Plan 1st	Till1stG2ndIr3rdSi4thSi5thSi6thSi	Aided by IC heme auidance (at the htern (during sur ame as above ame as above ame as above ame as above	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai Same a Same a Same a Same a	derstand and the perience ning site as above as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	Till Stand S	Aided by IC heme auidance (at the ntern (during sur ame as above ame as above ame as above ame as above ame as above ame as above	arning T end of first seme	Ster)	Goals Can un training Can ex the trai Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above as above as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	Till1stG2ndIr3rdSi4thSi5thSi6thSi7thSi8thSi	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above ame as above ame as above ame as above ame as above ame as above	arning T end of first seme	Ster)	Goals Can un training Can ex the trai Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above as above as above as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	T 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S	Aided by IC heme auidance (at the a htern (during sur ame as above ame as above	arning T end of first seme	Ster)	Goals Can un training Can ex the trai Same a Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above as above as above as above as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	T 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S 10th S	Aided by IC heme auidance (at the a htern (during sur ame as above ame as above	arning T end of first seme	Applicable to	Goals Can un training Can ex the trai Same a Same a Same a Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above as above as above as above as above as above as above as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	Ti 1st G 2nd Ir 3rd Si 4th Si 5th Si 6th Si 7th Si 8th Si 9th Si 10th Si 11th Si	Aided by IC heme auidance (at the ntern (during sur ame as above ame as above	arning T end of first seme		Goals Can un training Can ex the trai Same a Same a Same a Same a Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter	Ti 1st G 2nd Ir 3rd Si 4th Si 5th Si 6th Si 7th Si 8th Si 10th Si 11th Si 12th Si	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme		Goals Can un training Can ex the trai Same a Same a Same a Same a Same a Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st	Ti 1st G 2nd Ir 3rd Si 4th Si 5th Si 6th Si 7th Si 8th Si 9th Si 10th Si 12th Si 13th Si	Aided by IC heme auidance (at the ntern (during sur ame as above ame as above	arning T end of first seme	Ster)	Goals Can un training Can ex the trai Same a Same a Same a Same a Same a Same a Same a Same a Same a Same a	derstand g and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Active	Learning Plan 1st Quarter	Ti 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 10th S 11th S 12th S 13th S 14th S 15th S	Aided by IC heme auidance (at the or hern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter	Ti 1st G 2nd Ir 3rd Si 4th Si 5th Si 6th Si 7th Si 8th Si 10th Si 11th Si 12th Si 13th Si 15th Si	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter	T 1st G 2nd Ir 3rd Si 4th Si 5th Si 6th Si 7th Si 8th Si 9th Si 10th Si 12th Si 13th Si 14th Si 15th Si 16th N	Aided by IC heme auidance (at the or hern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter	The second se	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter	T 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S 10th S 11th S 12th S 13th S 15th Ir 16th N 1st 2nd	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
1st Semeste	Learning Plan Ist Quarter 2nd Quarter	Ist G 1st G 2nd Ir 3rd S 4th Si 5th Si 6th Si 7th Si 8th Si 9th Si 10th Si 12th Si 13th Si 14th Si 15th se 2nd 3rd	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
1st Semeste	Learning Plan 1st Quarter	1st G 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S 10th S 11th S 12th S 13th S 14th S 15th rs 2nd 3rd 3rd 4th	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
1st Semeste	Learning Plan 1st Quarter 2nd Quarter 3rd	Ist G 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S 10th S 11th S 12th S 13th S 14th S 15th rr 16th N 1st 2nd 3rd 4 5th S	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a
Course I	Learning Plan 1st Quarter 2nd Quarter 3rd	1st G 1st G 2nd Ir 3rd S 4th S 5th S 6th S 7th S 8th S 9th S 10th S 11th S 12th S 13th S 14th S 15th rs 2nd 3rd 3rd 4th	Aided by IC heme duidance (at the ntern (during sur ame as above ame as above	arning T end of first seme mmer vacation)	Applicable to	Goals Can un training Can ex the trai Same a Same a Sam a Sam a Same a S	derstand y and the perience ning site as above as above	Experienced the precautions of student manners at the training site. some of the technical activities a

		9th						
		10th						
		11th						
	4th	12th						
	Quarter	13th						
		14th						
		15th						
		16th						
Evaluat	ion Meth	nod and	d Weight (%)					
		-	Training destination	Report	Presen	tation	Total	
Subtotal			30	30	40		100	
Basic Pro	ficiency	()	0	0		0	
Specialize	ed Proficie	ncy 3	30	30	40		100	
Cross Are	ea Proficier	ncy ()	0	0		0	

A	kashi Co	ollege	Year	2023		Course Title		Dff-Campus Practical Fraining B
Course	Informa	tion			1			
Course Co	ode	5433			Course Category	/ Speci	alized	d / Elective
Class Forr	mat	Practical tra			Credits	Scho	ol Cre	edit: 2
Departme	ent	Electrical ar Computer E	nd Computer El Engineering Col	ngineering urse	Student Grade	4th		
Term		Year-round	5 5		Classes per Wee	ek 2		
Textbook								
Teaching Instructor			f the departme	ont				
	Objectiv							
(1) Can e	xperience	some of the a	ctual technical e things they h	activities related ave experientially	to engineering. / learned.			
Rubric								
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ient 1	i	Can experience actual technica related to engii collaboratively.	l activities neering	Can experience actual technical related to engin	activities	9	Cannot experience some of the actual technical activities related to engineering.
Achievem	ient 2	1	things they hav	to report on the ve experientially e understood by	Can use slides to things they have learned.			Cannot use slides to report on the things they have experientially learned.
Assiane	d Depar	tment Obje						
	ig Metho	2						
Outline		Internship i fields of ele	ctrical and elec	tronic engineerin	vernment agencies g and information n exert the knowl	enginéerin	g. Th	porations, universities, etc. in the rough this experience, students earning.
Style					the internship de	-		
Notice		Student nee Students w	ed to be respec	tful of courtesies	orld technical acti , attire, language,	and other	beha	viors appropriate as an internee.
Charact	eristics (such as rep	orting) will not	: be eligible for a	s than 72 hours (shortages v	vithin	4 hours may be replenished by
	eristics of Learning	such as rep of Class / D	ivision in Le	: be eligible for a j arning	s than 72 hours (shortages v	vithin	4 hours may be replenished by ☑ Instructor Professionally
		such as rep of Class / D	orting) will not ivision in Le	: be eligible for a j arning	ss than 72 hours (passing grade.	shortages v	vithin	4 hours may be replenished by
	e Learning	such as rep of Class / D	orting) will not ivision in Le	: be eligible for a j arning	ss than 72 hours (passing grade.	shortages v	vithin	4 hours may be replenished by ☑ Instructor Professionally
Active	e Learning	such as rep of Class / D	orting) will not ivision in Le	: be eligible for a j arning	s than 72 hours (passing grade. ☑ Applicable to	shortages v Remote Cla Goals	ass	4 hours may be replenished by ☑ Instructor Professionally Experienced
Active	e Learning	such as rep of Class / D	orting) will not ivision in Le Aided by IC eme	: be eligible for a j arning	Applicable to	shortages v Remote Cla Goals Can underst	ass and t	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student
Active	e Learning	such as rep of Class / D The 1st Gu	orting) will not ivision in Le Aided by IC eme idance (at the	: be eligible for a p arning T end of first semes	Applicable to ster) ster	shortages v Remote Cla Goals Can underst training and Can experie	ass and t the r	4 hours may be replenished by ☑ Instructor Professionally Experienced
□ Active	e Learning	such as rep of Class / D The 1st Gu 2nd Int	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su	: be eligible for a j arning T	sthan 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training	ass and t the r nce s site.	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
□ Active	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sat	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above	: be eligible for a p arning T end of first semes	sthan 72 hours (passing grade.	Remote Cla Goals Can underst training and Can experie the training Same as ab	ass and t the r nce s site. ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
□ Active	Plan	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su	: be eligible for a p arning T end of first semes	sthan 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training	ass and t the r nce s site. ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
□ Active	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	s than 72 hours (passing grade.	Remote Cla Goals Can underst craining and Can experie the training Same as abo Same as abo	ass and t the r nce s site. ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above me as above	: be eligible for a p arning T end of first semes	s than 72 hours (passing grade.	Shortages v Remote Cla Goals Can underst training and Can experie the training Same as abu Same as abu	ass and t the r nce s site. ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	Shortages v Remote Cla Goals Can underst rraining and Can experie the training Same as abu Same as abu Same as abu Same as abu Same as abu	and t the i nce s site. ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau 9th Sau	orting) will not ivision in Le ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst training and Can experie the training Same as ab Same as ab Same as ab Same as ab Same as ab Same as ab	and t the r access and t the r nces site. ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau	orting) will not ivision in Le ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training Same as ab Same as ab	ass and t the i nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter	such as rep of Class / D Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau 11th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade. Applicable to ster) (Remote Cla Goals Can underst craining and Can experie the training Same as abo Same as abo	ass and t the i nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter 2nd	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau 11th Sau 12th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst rraining and Can experie the training Same as abu Same as abu	ass and t ance s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau 10th Sau 11th Sau 13th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training Same as abo Same as abo	and t then ass and t then nces site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter 2nd	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau 10th Sau 11th Sau 13th Sau 13th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training Same as abo Same as abo	and t then ass and t then nces site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter 2nd	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 6th Sau 7th Sau 8th Sau 9th Sau 10th Sau 11th Sau 12th Sau 13th Sau 13th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training Same as abo Same as abo	and t then ass and t then nces site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter 2nd	such as rep of Class / D Ist Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 7th Sau 7th Sau 9th Sau 10th Sau 10th Sau 11th Sau 12th Sau 13th Sau 13th Sau 14th Sau 15th Sau	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a p arning T end of first semes	ss than 72 hours (passing grade. Applicable to ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ste	shortages v Remote Cla Goals Can underst training and Can experie the training Same as ab Same as ab	ass and t the r nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced the precautions of student manners at the training site.
Course	Plan 1st Quarter 2nd	such as rep of Class / D The 1st Gu 2nd Int 3rd Sau 4th Sau 5th Sau 6th Sau 6th Sau 7th Sau 6th Sau 9th Sau 10th Sau 10th Sau 11th Sau 11th Sau 12th Sau 13th Sau 13th Sau 14th Sau 15th Sau 16th No	orting) will not ivision in Le ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a j arning T end of first semes mmer vacation)	ss than 72 hours (passing grade.	shortages v Remote Cla Goals Can underst raining and Can experie the training Came as abu Same as abu	and t the i ass and t the i nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at
Course	Plan Plan 1st Quarter 2nd Quarter	such as repof Class / Dof Class / Dof Class / Dand1st2ndInt3rd3rdSan4thSan6thSan6thSan6thSan9thSan10thSan10thSan11thSan12thSan14thSan16thNo1stInt2ndSan3rdSan	orting) will not ivision in Le Aided by IC and Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a j arning T end of first semes mmer vacation)	ss than 72 hours (passing grade. Applicable to ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster)	Remote Cla Goals Can underst craining and Can experie the training Same as abu Same as abu	ass and t the i nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at
Active Course	Plan 1st Quarter 2nd	such as repof Class / Dof Class / Dof Class / D1st1st2nd1nt3rd3rd5th5th5th5th5th5th5th5th5th5th5th5th5ai6th5ai10th12th5ai13th13th5ai16thNo1st1nt2nd3rd5ai4th5ai	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a j arning T end of first semes mmer vacation)	ss than 72 hours (passing grade. Applicable to ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster) (ster	Remote Cla Goals Can underst rraining and Can experie the training Same as abu Same as abu	ass and t the t nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at
Active Course Ist Semeste r 2nd	Plan Plan 1st Quarter 2nd Quarter 3rd	such as repof Class / Dof Class / Dof Class / Dof Class / D1st1st2nd3rd3rd3rdSan6thSan6thSan6thSan7thSan9thSan10thSan10thSan11thSan12thSan14thSan16thNo1st1nt2ndSan4thSan5thSan	orting) will not ivision in Le Aided by IC eme idance (at the ern (during sur me as above me as above	: be eligible for a j arning T end of first semes mmer vacation)	ss than 72 hours (passing grade.	Remote Cla Goals Can underst raining and Can experie the training Same as abu Same as abu	and t and t the i nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at
Active Course Ist Semeste r 2nd	Plan Plan 1st Quarter 2nd Quarter 3rd	such as repof Class / Dof Class / Dof Class / D1st1st2nd3rd3rd3rdSan4thSan6thSan10th3an12th13thSan14thSan16thNo1st1nt2ndSan14thSan16thSan3rdSan3thSan6thSan6thSan6thSan6thSan6thSan5th <t< td=""><td>orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above</td><td>: be eligible for a j arning T end of first semes mmer vacation)</td><td>ss than 72 hours (passing grade.</td><td>Remote Cla Goals Can underst rraining and Can experie the training Same as abu Same as abu</td><td>ass and t the r nce s site. ove ove ove ove ove ove ove ove ove ove</td><td>4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at</td></t<>	orting) will not ivision in Le Aided by IC eme idance (at the ern (during su me as above me as above	: be eligible for a j arning T end of first semes mmer vacation)	ss than 72 hours (passing grade.	Remote Cla Goals Can underst rraining and Can experie the training Same as abu Same as abu	ass and t the r nce s site. ove ove ove ove ove ove ove ove ove ove	4 hours may be replenished by ☐ Instructor Professionally Experienced he precautions of student manners at the training site. ome of the technical activities at

		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 15th		Same as above		Same as above		
			Internship reporting second semester, gra middle of the second	Internship reporting (done at the beginning of the second semester, grades will be announced in the middle of the second semester)			Can report the outcome of the internship using slides.
		16th	No final exam				
Evaluati	ion Meth	nod an	d Weight (%)				
	Т		Training destination evaluation	Report	Р	Presentation	Total
Subtotal		30	30	4	0	100	
Basic Proficiency		0	0	0		0	
Specialized Proficiency 30		30	30	4	10	100	
Cross Are	a Proficier	псу	0	0	0)	0

	Akashi Co	ollege	Year	2023		Course Title	Electromagnetics II A	
Course	Informa	tion						
Course C	Code	5434			Course Catego	ry Speciali	zed / Elective	
Class For	rmat	Lecture			Credits	School (Credit: 1	
Departm	ent	Electric	al and Computer Iter Engineering Co	Engineering ourse	Student Grade			
Term		First Se	emester		Classes per We	eek 2		
	< and/or Materials	1)小塚	羊司著、新装版「電	磁気学」、森北出	出版 2)後藤憲一、	山崎修一共編、	「詳解電磁気学演習」、共立出版	
Instructo			KAI Masato					
	Objectiv							
	する諸法則を	を理解し、詞	説明することができ	<u>る。</u>				
Rubric					<u> </u>			
			理想的な到達し				未到達レベルの目安	
評価項目	[1]		低気に関する語 しく説明するこ	皆法則を理解し、言 ことができる。	岸 磁気に関9る語 明することがで	法則を理解し、訪 <u>きる。</u>	磁気に関する諸法則を理解し、説明することができない。	
Assigne	ed Depar	tment C	bjectives					
Teachi	ng Metho	d						
Outline		電気磁等					野について学習する。	
Style		講義形式	式により重要な概念 最後には小テストを	の解説を行い、よ 行い理解度チェッ	り深く理解するため クを実施する	に、周囲とのコミ	ミュニケーションを交えた自習をおこ	
Notice						。授業中は集中し 象としない欠席系	ノ て理解に努め、わからないところを 条件(割合)>1/3以上	
Charac	teristics		/ Division in L					
	e Learning		□ Aided by I		☑ Applicable t	o Remote Class	Instructor Professionally Experienced	
Course	Plan		- 1			1		
			Theme			Goals		
		1st	クーロンの法則、	ガウスの定理		荷と電界と電位	、ガウスの定理が理解できている。電 の関係を説明できる。	
		2nd	誘電体とコンデン	゙ サ		ンサの物理量の	る物理量の関係が説明できる。コンデ 関係が説明できる。	
		3rd	磁界と磁力線			磁界の概念を理解し、コイルが磁気2重層と透過 ることが理解できる。		
	1st Quarter	4th	アンペアの周回積	分の法則、磁位		アンペアの周回積分の法則を用いて磁界が計算できる 。磁気双極子モーメントを知る。		
		5th	ビオサバールの法	.則		微小電流による磁界の算出ができる。		
		6th	磁界による力			電流によって生じる力の表現を知る。		
		7th	復習			周囲の人とコミュニケーションを取りながら理解を深 めることができる。		
1st		8th	確認テスト			60点を取得する。		
Semeste r		9th	磁化と磁束密度			磁化の概念を理解し、磁束密度について知る。		
1		10th	透磁率と磁化率と	境界条件		透磁率と磁化率は境界条件につい	の概念を理解しその関係を知る。また て知る。	
		11th	磁極と減磁力と磁	気シールド			ーロンの法則を理解すると共に、単極 いことを式で表せる。	
	2nd	12th	ベクトルポテンシ	ヤル		ベクトルポテン たポアソンの式	シャルの定義を書くことができる。ま に対応する式を書ける。	
	Quarter	13th	磁界のエネルギー	とB-H曲線		磁界の持つエネ ついて理解する	ルギーを書くことができ、B-H曲線に ,	
		14th	磁気回路			磁気回路に関する力を計算でき	る物理量を知る。電磁石が鉄を吸引す る。	
		15th	復習			周囲の人とコミ めることができ	ュニケーションを取りながら理解を深 る。	
		16th	期末試験			60点以上を取	得する。 	
Evaluat	tion Meth	nod and	Weight (%)					
						Total		
	Subtotal 50					100		
					50			
Subtotal 基礎的能 専門的能	-		0		0		0	

Akashi College			Year 2023			Course Title	Electromagnetics II B		
Course	Informa	tion							
Course C	ode	5435			Course Category	/ Speciali	zed / Elective		
Class For	mat	Lecture			Credits	School (Credit: 1		
Departme	ent	Electrical a	and Computer El Engineering Col	ngineering Irse	Student Grade	4th			
Term		Second Se	<u> </u>		Classes per Wee	sses per Week 2			
	Materials	,			•		「詳解電磁気学演習」、共立出版		
Instructo		OHMUKAI	Masato						
(1) イン	Objectiv ンダクタンス 立電流につい	へと電磁誘導σ)概念について理解 well 方程式をから	窄できる。 ら導かれる諸性質に	ついて説明できる。				
Rubric					1				
			理想的な到達レイ		標準的な到達レベ		未到達レベルの目安		
評価項目[1]		自己インダクタン クタンスの概念 ことができる。	ンスと相互インダ を詳しく説明する	自己インダクタン クタンスの概念を できる。	·スと相互インタ :説明することカ	 自己インダクタンスと相互インダ クタンスの概念を説明することが できない。 		
評価項目[2]		明することができ		電磁誘導の法則に ことができる。		ことができない。		
評価項目[3]		Maxwell 方程式 質について詳し	から導かれる諸性 く説明できる。	Maxwell 方程式力 質について説明で	いら導かれる諸性 きる。	Maxwell 方程式から導かれる諸性 質について説明できない。		
Assigne	ed Depar	tment Obj							
	ng Metho	7							
Outline		電気磁気学	Iで学んだ静電界の	の知識を基礎とし、	電気磁気学II-Aを	さらに発展させ	時間変化が存在する場合について学		
Style		講義形式に	より重要な概念の		学の体系全体を身に 深く理解するために を実施する		_ついても字ふ。 ミュニケーションを交えた自習をおこ		
Notice		3年の電気め、わから	磁気学I及び4年 ないところを授業	の電気磁気学II-A	の知識がないと単位	Z取得はかなり困 が求められる。	国難である。授業中は集中して理解に努 F価の対象としない欠席条件(割合		
Charact	eristics () >1/3以_ of Class / [_ Division in Le	arning					
					- Applies bla to	Domoto Class	□ Instructor Professionally		
⊠ Active	Learning		□ Aided by IC	.1	☑ Applicable to	Remote Class	Experienced		
Course	Plan								
course		Т	heme			Goals			
			ノダクダノ人とノ	ノイマンの公式		ヨピインタクター りノイマンの公	ンスと相互インダクタンスの定義を知 式を導ける。		
				ノイマンの公式 接続と結合係数およ	バエンルギー 「	りノイマンの公	ンスと相互インダクタンスの定義を知 式を導ける。 の接続について理解し、結合係数の意		
		2nd 1		接続と結合係数およ	びエネルギー 『 。	りノイマンの公: インダクタンス(味を知る。 ファラデーの電 との関連を知る。	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ		
	3rd Quarter	2nd ₁ 3rd व	/ンダクタンスの掛	き続と結合係数およ −レンツカ	びエネルギー	りノイマンの公: インダクタンス(味を知る。 ファラデーの電。 との関連を知る。 ファラデーの電	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ		
	3rd Quarter	2nd 1 3rd 霍 4th 霍	ンダクタンスの持 電磁誘導法則とロー	き続と結合係数およ - レンツカ €	びエネルギー	りノイマンの公 インダクタンス0 味を知る。 ファラデーの電 との関連を知る ファラデーの電 をしり、ローレ	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係		
		2nd 1 3rd 霍 4th 霍 5th 自	ンダクタンスの招 国磁誘導法則とロー 国磁誘導法則の拡張	き続と結合係数およ - レンツカ €	びエネルギー [: : : : : : : : : : : : :	りノイマンの公 インダクタンスの 味を知る。 ファラデーの電 との関連を知る。 ファラデーの電 をしり、ローレ 自己誘導作用に る。	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。		
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2nd Semeste r		2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 後	シダクタンスの招 国磁誘導法則とロー 国磁誘導法則の拡張 自己誘導作用と回路 長文効果と渦電流	き続と結合係数およ - レンツカ €	びエネルギー [りノイマンの公 インダクタンスの 味を知る。 ファラデーの電 とのファテーの電 をしり、ローレ 自己誘導作用に る。 表皮効果につい る。 周囲の人とコミ	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深 る。		
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-		2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 復 8th 確 9th 変	シダクタンスの招 感磁誘導法則とロー 感磁誘導法則の拡引 自己誘導作用と回路 を 皮効果と渦電流 習 認テスト	e続と結合係数およ -レンツカ 長 各に働くカ イウェルの方程式	びエネルギー [: : : : : : : : : : : : :	0 ノイマンの公 イマンクシスの イマンタンスの テクシスの テクシスの テクシスの テクシスの テクシスの テクシスの アクシス ク アクシス ク アクシス ク アクシス アク アクシス ク アクシス ク アクシス アク アクシス ク アクシス の ス ク ク ク ク ク ク ク ク の の く と な 家 の の の の の の の の の の の の の の の の の の	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深る。 る。 を理解し、マックスウェルの4つの方		
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-	Quarter	2nd 1 3rd 電 4th 電 5th 自 6th 基 7th 後 8th 確 9th 変 10th 波 11th 電 12th 電	 ンダクタンスの招い 2 2 ダクタンスの招い 3 2 磁誘導法則とロー 3 2 磁誘導法則の拡張 4 2 誘導作用と回路 4 2 読導作用と回路 5 2 成功果と渦電流 5 2 認 定 スト 5 2 位電流とマックス 5 2 動方程式と電磁波 5 2 磁波の伝搬特性 	 e続と結合係数およ -レンツカ ■ ■	びエネルギー [びエネルギー]	0 J T マンの公イマンの公イマンクシスイタクる。フシ知ファしつ。のアレフトフトフトフトフトフトフトフトフトフトフトフトフトフ	式を導ける。 の 技装について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 広誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ロニケーションを取りながら理解を深 る。 を理解し、マックスウェルの4つの方うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 寛界条件を定量的に知る。 瓦射に関する量的関係を知る。		
-	Quarter	2nd 1 3rd द 4th द 5th ६ 6th 差 7th ४ 8th ४ 9th ८ 10th ८ 11th द 13th भ	シダクタンスの招 国磁誘導法則とロー 国磁誘導法則の拡引 自己誘導作用と回路 取効果と渦電流 認テスト 配位電流とマックス 取力程式と電磁波 回磁波の伝搬特性 国磁波の境界条件	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー 『 びエネルギー 『 	$0 J ~ x_{0}$ イシタン イクス マンタン フシタン フシタン フシタン フシタン フシタン フシタン フシタン フ	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深 る。 を理解し、マックスウェルの4つの方 うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 寛界条件を定量的に知る。 支射に関する量的関係を知る。 ベクトルの定義を知り、その性質を説		
-	Quarter	2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 復 8th 確 9th 変 10th 波 11th 電 12th 電 13th 平 14th オ	シダクタンスの挑 磁誘導法則とロー 感磁誘導法則の拡引 自己誘導作用と回路 表皮効果と渦電流 習 認テスト 空位電流とマックス 動方程式と電磁派 感磁波の伝搬特性 感磁波の反射と透過	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー 「 「 」 」 」 」 」 」 」 」 】 】 】 】 】 】 】 】 】 】	$0 J ~ x_{m}$ イタンクス イタクる。 フとフを コる、 大変 アのアし己。 皮。 周る の した ーロ 作 に つ た の し た の の し た の た し た の た し た の た し た の た の	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深 る。 を理解し、マックスウェルの4つの方 うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 境界条件を定量的に知る。 又射に関する量的関係を知る。 ベクトルの定義を知り、その性質を説 ユニケーションを取りながら理解を深		
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Semeste r	Quarter 4th Quarter	2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 後 8th 確 9th 変 10th 波 11th 電 13th 平 14th 才 15th 後	 ンダクタンスの招い 認識誘導法則とロー 認識誘導法則の拡張 認読導作用と回路 取効果と渦電流 認テスト 認テスト 認示スト 認知方程式とマックス 認知方程式とていていていていていためい 認知法 認知法 	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー 『 びエネルギー 『 	りノンをする、こので、こので、こので、こので、こので、こので、こので、こので、こので、こので	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深る。 る。 を理解し、マックスウェルの4つの方 うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 夏界条件を定量的に知る。 支射に関する量的関係を知る。 ベクトルの定義を知り、その性質を説 ユニケーションを取りながら理解を深る。		
Semeste r	Quarter 4th Quarter	2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 後 8th 確 9th 変 10th 滅 11th 電 13th 平 14th ポ 15th 後 16th 男	シダクタンスの招 認磁誘導法則とロー 認磁誘導法則の拡引 記誘導作用と回路 支効果と渦電流 認定スト 空ロ電流とマックス 動方程式と電磁波 認定の反射と透過 ペインティングベク 習 引末試験 eight(%) 試験	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー 『 びエネルギー 『 	りノンをする、こので、こので、こので、こので、こので、こので、こので、こので、こので、こので	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深る。 る。 を理解し、マックスウェルの4つの方 うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 夏界条件を定量的に知る。 支射に関する量的関係を知る。 ベクトルの定義を知り、その性質を説 ユニケーションを取りながら理解を深る。		
Semeste r Evaluat Subtotal	Quarter 4th Quarter ion Meth	2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 後 8th 確 9th 変 10th 滅 11th 電 13th 平 14th ポ 15th 後 16th 男	 ンダクタンスの招い 認識誘導法則とロー 認識誘導法則の拡張 記誘導作用と回路 記効果と渦電流 認テスト 空位電流とマックス 認動方程式と電磁波の気界条件 2 認波の反射と透過 ペインティングベク 認調 非試験 eight (%) 	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー びエネルギー ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ	りノンをする、こので、こので、こので、こので、こので、こので、こので、こので、こので、こので	式を導ける。 の接続について理解し、結合係数の意 磁誘導の法則を理解し、ローレンツカ 、 磁誘導の法則の積分形と微分形の関係 ンツカを導出できる。 ついて理解し回路に働く力を算出でき て定量的に理解し、表皮厚について知 ユニケーションを取りながら理解を深る。 る。 を理解し、マックスウェルの4つの方 うになる。 出でき、電磁波の性質を定量的に説明 する物理量について理解する。 寛界条件を定量的に知る。 マカーションを取りながら理解を説 ロニケーションを取りながら理解を説 ロニケーションを取りながら理解を深る。		
Semeste r Evaluat	4th Quarter ion Meth	2nd 1 3rd 電 4th 電 5th 自 6th 差 7th 後 8th 確 9th 変 10th 滅 11th 電 13th 平 14th ポ 15th 後 16th 男	シダクタンスの招 認磁誘導法則とロー 認磁誘導法則の拡引 記誘導作用と回路 定効果と渦電流 認定スト 空ロ電流とマックス 動方程式と電磁波 認返の反射と透過 ペインティングベク 習 引末試験 eight(%) 試験	e続と結合係数およ -レンツカ 名に働く力 なの性質	びエネルギー びエネルギー ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ ジ	りノンをする、こので、こので、こので、こので、こので、こので、こので、こので、こので、こので	 		

分野横断的能力	0	0	0
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, ,	Akashi College		Year 2023		Course Title Applied Mathematics A		
Course	Informa	tion					
Course C		5436			Course Category		zed / Elective
Class For	mat	Lecture			Credits	School C	Credit: 2
Departme	ent	Computer	nd Computer E Engineering Cou	ngineering urse	Student Grade	4th	
Term Textbook	and/or	First Seme	ster		Classes per Wee	ek 4	
	Materials						
Instructo	r	OGASAWA	RA Hiromichi				
Course	Objectiv	es					
máthema	itical formu	ulae.			iding reading and nem to engineerin		sentences containing on a basic level.
Rubric						<u> </u>	
			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1		Can accurately deductive infer basic matters.		Can make a ded based on basic r		ce Cannot make a deductive inference based on basic matters.
Achievem	nent 2		Can fully perfo	Fourier analysis them to	Can perform bas in Fourier analys them to enginee physics on a bas	sis and apply ering and	
Assigne	d Depar	tment Obje	ectives		·		
	ng Metho						
Outline		the calculu	s and linear alg	rn the basics of Fo ebra learned so fo basic application	ar. This is also ap	cluding topics plied to engine	on the Laplace transform) based on ering and physics, so this class will
Style					d there will also be	e exercises and	d quizzes.
Notice		and the product of th	oof of theorems to remember th heorem and ide ule of the midte	s given in each leo ne steps to solve a	cture, so that you a problem, but rat ssary, review the c changed.	can understar her 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	-orictics (will not be eligible	for evaluation	•
		of Class / D	vivision in Le	arning	will not be eligible	for evaluation	
🗆 Active	e Learning	of Class / D	Division in Le	3	Applicable to		
	e Learning	of Class / D		3			Instructor Professionally
Course	e Learning		□ Aided by IC	3	Applicable to	Remote Class	Instructor Professionally
	e Learning		Aided by IC	3	Applicable to	Remote Class Goals Can handle the	Instructor Professionally
	e Learning	Tł 1st Re	Aided by IC	Л	Applicable to for a calculus	Remote Class Goals Can handle the	Instructor Professionally Experienced basic matters of calculus that's uture learning.
	e Learning	Tł 1st Re 2nd Or	Aided by IC Aided by IC eme eview and supple	lementary lesson	Applicable to for calculus	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic
	e Learning	Th 1st Re 2nd Or 3rd La	Aided by IC Aided by IC eneme eview and suppl ganize data	lementary lesson	Applicable to for calculus	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a natters of the Can perform ca	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related
	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La	Aided by IC A	lementary lesson	Applicable to	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a natters of the Can perform ca to the inverse f Can apply the f	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related aplace transform. aplace transform to mechanical
	Plan	Th 1st Re 2nd Or 3rd La 4th La 5th Ap	Aided by IC Aided by IC eview and suppl ganize data place transform place transform	lementary lesson	Applicable to	Remote Class Goals Can handle the hecessary for f Can organize d Can calculate a matters of the Can perform ca o the inverse l Can apply the l vibration phene Can apply the l Can apply the l Can apply the l	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related aplace transform. aplace transform to mechanical
	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La 5th Appendix 6th Appendix	Aided by IC Aided by IC Aided by IC aeme eview and suppl ganize data place transform place transform place transform plication to vib	lementary lesson	Applicable to	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a matters of the Can perform ca o the inverse l Can apply the l Can apply the l Can apply the l Can apply the l Can calculate a matters of the Can calculate a	□ Instructor Professionally Experienced ■ basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related _aplace transform to mechanical omena. _aplace transform to AC circuits. nd discuss based on the basic
	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La 5th Apple 6th Apple 7th Fc 8th Mill	Aided by IC Aided by IC Aided by IC analysis and supple anize data place transform place transform place transform plication to vibiourier series	lementary lesson	Applicable to Applicable to on calculus	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a matters of the Can apply the l Can apply the l Can apply the l Can apply the l Can calculate a matters of the Can calculate a matters of the Can calculate a	□ Instructor Professionally Experienced ■ basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related Laplace transform to mechanical omena. Laplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic Fourier sine / cosine series. nd discuss based on the basic
Course	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La 5th Ap 6th Ap 7th Fc 8th Mi 0th Fc	Aided by IC Aided by IC Aided by IC aneme aview and suppl ganize data place transform place transform plication to vib oplication to vib urier series ourier series dterm exam	lementary lesson	Applicable to Applicable to on calculus (on	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a matters of the Can apply the l Can apply the l Can apply the l Can apply the l Can calculate a matters of the Can calculate a matters of the Can calculate a matters of the Can calculate a matters of the	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related Laplace transform. aplace transform to mechanical omena. Laplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. urier series expansion for non-
Course	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La 5th Ap 6th Ap 7th Fc 8th Mi 9th Fc	 Aided by IC Aided by	lementary lesson	Applicable to Applicable to Con calculus Con	Remote Class Goals Can handle the becessary for f Can organize d Can calculate a matters of the Can perform ca o the inverse f Can apply the f Can apply the f Can calculate a matters of the Can calculate a	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related Laplace transform. aplace transform to mechanical omena. Laplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. urier series expansion for non-
<u>Course</u> 1st	2 Learning Plan 1st Quarter	Th 1st Re 2nd Or 3rd La 4th La 5th Application 6th Application 7th Fc 8th Microsoft 9th Fc 10th Fc	□ Aided by IC neme eview and suppl rganize data place transform place transform pplication to vib purier series ourier series dterm exam purier series ourier series purier series ourier series ourier series	lementary lesson	Applicable to Applicable to Con calculus Con	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a natters of the Can perform ca o the inverse f Can apply the f Can apply the f Can calculate a natters of the Can calculate a natters of the	□ Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related Laplace transform to mechanical omena. Laplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic Fourier sine / cosine series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. formulae related to Fourier series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. nd discuss based on the basic formulae related to Fourier series. nd discuss based on the basic
Course	Plan 1st	Th 1st Re 2nd Or 3rd La 4th La 5th Appendix 6th Appendix 7th Fcc 8th Microsoft 9th Fcc 10th Fcc 11th Fcc	Aided by IC anatematical series Aided supplement Aided by IC anatematical series Aided by IC anatematical series anatematical	lementary lesson	Applicable to Applicable to Con calculus Con	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a matters of the Can handle the can handle the can handle the	Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related _aplace transform to mechanical omena. _aplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic Fourier series. nd discuss based on the basic Fourier sine / cosine series. ind discuss based on the basic complex Fourier series. if ormulae related to Fourier series. urier series expansion for non- ons. nd discuss based on the basic Fourier transform.
Course	2 Learning Plan 1st Quarter 2nd	Th 1st Re 2nd Or 3rd La 4th La 5th Ap 6th Ap 7th Fc 8th Mi 9th Fc 10th Fc 11th Fc 12th W	Aided by IC Aided by	lementary lesson	Applicable to Applicable to Con calculus Con	Remote Class Goals Can handle the necessary for f Can organize d Can calculate a matters of the Can perform ca to the inverse l Can apply the l Can apply the l Can apply the l Can calculate a matters of the Can handle the ransform. Can handle the ransform. Can handle sta series.	□ Instructor Professionally Experienced basic matters of calculus that's uture learning. ata. nd discuss based on the basic Laplace transform. alculations and discussions related Laplace transform to mechanical omena. Laplace transform to AC circuits. nd discuss based on the basic Fourier series. nd discuss based on the basic Fourier sine / cosine series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. nd discuss based on the basic complex Fourier series. formulae related to Fourier series. nd discuss based on the basic fourier series expansion for non- ons. nd discuss based on the basic Fourier transform. formulae related to Fourier

		15th	Supplementary lesson	upplementary lesson on the Laplace transform			Can calculate and discuss matters related to delta function and convolution.		
		16th	Final exam	inal exam					
Evaluati	Evaluation Method and Weight (%)								
			aminations	Exercises / Quizzes	Attendance / Behavior		Total		
Subtotal		40		30	30		100		
Basic Proficiency		40		30	30		100		
Specialized Proficiency		cy 0		0	0		0		
Cross Area	a Proficien	су 0		0	0		0		

Akashi College		Year	Year 2023		Course Title	Applied Mathematics B			
Course	Informa	tion							
Course Co		5437			Course Categor	y Specializ	zed / Elective		
Class For	mat	Lecture			Credits	School (Credit: 2		
Departme	ent	Electrical Computer	and Computer E Engineering Co	ngineering urse	Student Grade	4th			
Term		Second Se	emester		Classes per We	er Week 4			
Textbook Teaching									
Instructor		064541//	ARA Hiromichi						
	Objectiv								
(1) Can n mathema	nake a dec tical formu	luctive infere		sic matters, incluuulus and apply the			sentences containing		
Rubric					en to engineerin				
Rubric			Ideal Level		Standard Level		Unacceptable Level		
			Can accurately	make a			Cannot make a deductive		
Achievem	ient 1		deductive infer basic matters.	ence based on	Can make a deo based on basic		inference based on basic matters.		
Achievem	ient 2		Can fully perfor calculations in and fully apply engineering an basic level.	vector calculus them to	Can perform ba in vector calcult them to engine physics on a ba	us and apply ering and	Cannot perform basic calculations in vector calculus and apply them to engineering and physics on a basic level.		
Assigne	d Depar	tment Obj	ectives						
	g Metho								
Outline		In this couver variable) l	urse, we will lear based on the cal o this class will a	n the basics of ve culus and linear a also cover them, i	ector calculus (ind Igebra learned so ncluding basic ap	cluding topics o far. This is als pplications.	n complex functions of one to applied to engineering and		
Style				lecture style, and			d quizzes.		
Notice		and the pi do not try and basic The schec	roof of theorems to remember th theorem and ide lule of the midte	s given in each leo Ne steps to solve a	ture, so that you a problem, but ra sary, review the changed.	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 / I	<u> Division in Le</u>	arning					
🗆 Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 		
Course	Plan								
		Т	heme			Goals			
		1 _{ct} R		ementary lesson	on vector	Can handle the	e basic matters of vector at's necessary for future learning.		
		2nd C	Curves		Can handle curve		es using parameters.		
		3rd C	Curves			Can handle curves using the arc length			
		4th L	ine integrals			parameter. Can calculate and discuss based on the basic			
	3rd Quarter	5th L G	ine integrals iradient			matters of line integrals. Can perform calculations and discussions related to Green's theorem. Can calculate and discuss based on the basic matters of the gradient vector.			
		6th G	Gradient			Can perform calculations and discussions related to exact differential equations.			
2nd Semeste		7th C	Conservative forc ourfaces and surf	es and potential e ace integrals	energy	Can handle conservative forces and potential energy based on the methods of vector calculus. Can handle surfaces using parameters.			
r			urfaces and surf lidterm exam	ace integrals		Can perform calculations and discussions related to tangent planes.			
		9th S	urfaces and surf	ace integrals		Can calculate a matters of surf	nd discuss based on the basic ace integrals.		
		10th D	erivative of vect	or fields and integ		Can calculate a matters of volu	nd discuss based on the basic ime integrals.		
	4th Quarter	11th D	erivative of vect	or fields and integ	gral theorem	Can calculate a matters of the Gauss's theore	nd discuss based on the basic divergence of a vector field and m.		
		12th 0	Perivative of vect Overview of the t ariable	or fields and integ heory of functions	gral theorem s of a complex	Cause's theorem. 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 discuss based on the basic matters of complex integrals.		
	14th Overv			y of functions of a complex	Can calculate and discus matters of singular poin			
	15th Ar		Application to electror	nagnetism	Can handle the basic manual based on the methods of	atters of electromagnetism of vector calculus.		
		16th	Final exam					
Evaluati	on Meth	od and	d Weight (%)					
		E	ixaminations	Exercises / Quizzes	Attendance / Behavior	Total		
Subtotal		4	0	30	30	100		
Basic Proficiency 40		0	30	30	100			
Specialized Proficiency 0			0	0	0			
Cross Area	a Proficien	cy C		0	0	0		

A	Akashi College		Year	Year 2023		Course Title	Applied Physics II		
Course	Informa	tion							
Course C	ode	5438			Course Category	/ Specializ	ed / Elective		
Class For	mat	Lecture			Credits	School (Credit: 1		
Departme	ent		and Computer E r Engineering Co		Student Grade	4th			
Term		Second S	Semester		Classes per Wee	Week 2			
Textbook Teaching	and/or Materials								
Instructo	r	NAKANIS	GHI Hiroshi						
Course	Objectiv	'es							
(1) Unde (2) Unde (3) Unde (4) Cond	rstand the rstand the rstand the uct experir	basics of ho basics of op basics of th nents and c	ow to handle vibra otics. ermodynamics. ompile their cont	ation phenomena ent in a report.	in mechanics.				
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achieven	nent 1		Can explain the of vibration pho correctly and a specific question	pply them to	Can explain the of vibration pher apply them to sp 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 correct them to specifi accurately.	e basic concepts ctly and apply c 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 thermodyna and apply then questions accu	n to specific '	Can explain the of thermodynam them to specific	nics and apply	Cannot explain the basic concepts of thermodynamics or apply them to specific questions.		
Achievement 4			the experiment themselves and	ate insight into ts conducted by d summarize the riately in a report.	Can give insight into the experiments conducted by themselves and summarize the results in a report.		Cannot give insight into the experiments conducted by themselves or summarize the results in a report.		
Assigne	ed Depar	tment Ob	jectives						
Teachir	ng Metho	d	-						
Outline	2		he major fields in	classical physics,	this course will le	ecture on vibra	tion in mechanics, optics, and		
Outline				so involve mecha					
Style		Regular of there wil	classes will be tau I be two classes t	ight in a lecture si o conduct experin	tyle, and there wi nents.	Il also be exer	cises and quizzes. In addition,		
Notice		problem) being ab the vario Students attitude, The sche	by memorizing i le to apply them to us laws, and try to can earn extra p etc. in the class. dule of the exper	t individually, stud to specific situatio to understand con oints by submittir	dents should undens). Also, student icepts in physics s ig voluntary assig anged depending	erstand the lav ts should be av systematically. Inments, and le on the usage of	ticular situation, how to solve the s that govern them (including vare of the relationships between ose their points depending on their of the laboratory, etc.		
Charact	teristics	of Class /	Division in Le	arning					
☑ Active	Learning	•	□ Aided by IC	т Т	☑ Applicable to Remote Class		Instructor Professionally Experienced		
					•		- · ·		
Course	Plan	· · · ·							
		1	Theme			Goals			
			Several topics ab				mped vibration.		
			Several topics ab			_earn about fo			
			Several topics ab	out vibration			upled vibration.		
	3rd		Basics in optics				s of geometrical optics.		
	Quarter		Basics in optics				s of light as a wave.		
			Basics in optics			_earn about int			
			Basics in optics		l	earn about di	traction.		
2nd Semeste		1	Midterm exam	imonto		_earn how to c	onduct and report experiments on		
r			Mechanical exper		t	he theme of m	onduct and report experiments on		
			Mechanical exper		t	the theme of m	nechanical measurement.		
	4th		Basics in thermoo	1			s of thermodynamics.		
	Quarter		Basics in thermoo	1			andle specific heat.		
			Basics in thermoo	1			andle the Carnot cycle.		
			Basics in thermoo Basics in thermoo	1			e second law of thermodynamics. e irreversible change.		
			Final exam						
	1	1.001							

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								

Akashi College			Year	2023		Co	urse ⁻ itle	Transient Analysis on Electric Circuits		
Course	Informa	tion	I	I				•		
Course Co	ode	5439			Course Catego	ry S	Specialize	d / Elective		
Class For	nat	Lecture			Credits		School Cre	edit: 1		
Departme	ent		and Computer E r Engineering Co		Student Grade	4	4th			
Term		First Sen	nester		Classes per Week 2					
Textbook Teaching										
Instructor		SUYAMA	Taikei							
Course	Objectiv	es								
physical r (1) Single Unders (2) Multip Multipl (3) Distrib	 Understand the basic questions and solutions for transient phenomena. Understand not only mathematical interpretation but also physical meaning. Three types of circuits will be covered: (1) Single-energy circuits (R-L circuits, R-C circuits) Understand and solve single energy circuits. (2) Multiple-energy circuits (R-L-C circuits) Multiple types of energy questions. Basic design knowledge of oscillation circuits. (3) Distributed-element circuits (3) Distributed-element circuits 									
Rubric					1					
			Ideal Level		Standard Level			Unacceptable Level		
Achievem	ent 1		Single-energy circuits, R-C ci Understand the solutions of a s circuit, and sol questions.	rcuits): e questions and single-energy	Single-energy of circuits, R-C cir Understand the solutions of sin circuits.	e questic	ons 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 s	y questions, as sic design of	Multiple-energy circuits): Under types of energy well as the bas oscillation circu	rstand m y probler ic desigr	nultiple ms, 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		Distributed-element circuits: Understand the basic properties and the association with real- world lines such as communication lines and transmission lines, and solve the problems.		Distributed-element circuits: Understand the basic properties and the association with real- world lines such as communication lines and transmission lines.		roperties h real-	Distributed-element circuits: Do not understand the basic properties and the association with real-world lines such as communication lines and transmission lines.		
Assigne	d Depar	tment Ob	jectives		•					
	g Metho									
Outline	J		ourse, we will clau ient phenomena	rify the difference of single- and mul	between steady Itiple-energy circ	-state ar cuits and	nd transie d distribut	nt phenomena, and learn about ed-element circuits. We will transient phenomena.		
Style		Students 100% or The mini The crite (1) Unde (2) Unde element (3) Unde	who miss 1/3 or periodic exams. mum score for a ria for a pass is t rstand the basic rstand and can a circuits rstand not only r	more of classes v pass will be 60 m he following three questions and solu nalyze transient p nathematical inter	vill not be eligibl arks on the abov points: utions for transie henomena in sir pretation but als	e for eva ve exam ent phen ngle- and so physic	aluation. s. omena. d multiple <u>cal meani</u>	-energy circuits and distributed-		
Notice		Istudy the	e Laplace transfor	rm and inverse con more of classes v	nversions of vari	ious mat	thematica	l functions.		
Charact	eristics o	of Class /	Division in Le	arning	1			1		
Active	Learning		□ Aided by IC	Т	Applicable t	o Remo	te Class	Instructor Professionally Experienced		
Course										
Course Plan						Carl				
Theme The basics of transient phenomer					and quarties	Goals				
lot		1st	solving Describe the basi phenomena and how to handle th	nsient pnenomena c concepts of tran provide learning g em. Explain how t nena questions in a	sient uidance on o solve	Can explain how to solve transient phenome questions in a single-energy R-L circuit.				
1st Semeste r	1st Quarter	2nd	In general, transi circuits do not ca of the electrostat exists. Learn abo		R-L or R-C ause only one		oes not cause vibration because lectrostatic or magnetic field			
		Jiu	Transient phenor Following the pre basic questions u handful for handl	sing Laplace trans	rgy circuits (2) in how to solve forms that are	ircuits (2) w to solve s that are questions.		transform to solve basic		

Pth Learn about transient phenomena of discharge in multiple-energy LRC circuits when a DC electromotive force is applied. multiple-energy LRC circuits 10th Learn about transient phenomena in multiple-energy circuits (3) Understand transient phenomena when an alternating electromotive force is applied to a multiple-energy LRC circuit. 10th Learn about transient phenomena when an alternating electromotive force is applied to a multiple-energy LRC circuit. Understand transient phenomena in distributed-element circuits. 11th The basics of the steady-state and transient phenomena in distributed-element circuits. Derive the basic quations of distributed-element circuits (1) The basics of the steady-state and transient phenomena and explain basic concepts and interpretation. 12th Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) 13th Transient phenomena in distributed-element circuits (2) Transient phenomena in distributed-element circuits (2) 13th Exercise Transient phenomena in distributed-element circuits (2) 14th Exercise Do exercises on multiple-energy circuits and distributed-element circuits. 15th Total review Total review 16th Final exam Final exam Evaluation Presentation Mutual Evaluations between Behavior Students Portfolio			_							
Particle Laplace transforms Can use the various theorems and the inverse on how to use it to solving uptions. Explain and on how to use it to solving uptions. Explain and the inverse conversion of the Laplace transform. Can use the various theorems and the inverse conversion of the Laplace transform. 6th The basics of circuit containing. L or C, explain how to use the Laplace transform and current. Can find the general solution for voltage and current bising the Laplace transform. 7th Exercise Do exercises on transient phenomena in multiple-energy circuits. Exercise on ergy circuits. 7th Exercise Do exercises on transient phenomena in multiple-energy circuits. Understand the basics of transient phenomena in single energy circuits. 8th Transient phenomena in multiple-energy circuits (2) exercise the will be case in which vibrations occur and others not. Laam about such circuits. Understand transient phenomena of discharge multiple-energy LRC circuits when a DC electromotive force is applied to a multiple-energy LRC circuits. 10th Transient phenomena in multiple-energy circuits (2) electromotive force is applied to a multiple-energy LRC circuit. Understand transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (2) electromotive force is applied to a multiple-energy LRC circuit. 11th The basics of the steady-state and transient phenomena in distributed-element circuits (2) Transient phenomena in distributed-element circuits (2) Transient phenomena in distributed-element circuits (2) Transient phenomena in distr			4th	Learn about transi energy circuits wh	ient phenomena	in śingle-	energy circuit w	hen an altern		
6th transform For a basic circuit containing L or C, explain how to use the Laplace transform to determine the general solution for voltage and current. Can find the general solution for voltage and current by using the Laplace transform. 7th Exercise Do exercises on transient phenomena in single- energy circuits. Exercise Do exercises on transient phenomena in single- energy circuits. Exercise Do exercises on transient phenomena in utiple-energy circuits. ath Transient phenomena in multiple-energy circuits in a circuit where magnetic field energy and electrostatic energy both exist, in other words, a circuit that consists of L, C, and R, the differential equations will become second order ones, and there will be cases in which vibrations occur and others not transient phenomena in multiple-energy circuits (2) Understand transient phenomena of discharge influiple-energy LRC circuits when a DC electromotive force is applied. 9th Transient phenomena in multiple-energy circuits (3) Understand transient phenomena when an alternating electromotive force is applied. 10th The basics of the steady-state and transient phenomena and explain basic concepts and interpretation. The basics of the steady-state and transient phenomena and explain basic concepts and interpretation. 11th The basics of the steady-state and transient phenomena and explain basic concepts and interpretation. Transient phenomena in distributed-element circuits (1) 12th Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element			5th	Definition of Lapla inverse conversior Define Laplace tra on how to use it to do exercises on th inverse conversior	n of Laplace trans nsforms and pro- o solve questions le various theore n of the Laplace t	oforms vides guidance a. Explain and m and the ransform that				
Product Provide and the provide and th			6th	transform For a basic circuit to use the Laplace	containing L or C transform to de	Can find the ger current by using	neral solution the Laplace	for voltage and transform.		
2nd (1) Transient phenomena in multiple-energy circuits Understand the basics of transient phenomena of discharge in multiple-energy circuits when a DC Understand transient phenomena of discharge in multiple-energy circuits 9th 2) Transient phenomena in multiple-energy circuits Understand transient phenomena of discharge in multiple-energy circuits 10th 2) Transient phenomena in multiple-energy circuits Understand transient phenomena of discharge in multiple-energy LRC circuits when a DC 10th 10th 10th 10th 10th 10th 10th 10th 10th 10th 10th 10th 10th 10th			7th	Do exercises on tr	ansient phenome	ena in single-	Do exercises on	transient phe	enomena in single-	
Image: Section of the sectin of the section of the section					ena in multiple-e	energy circuits				
2nd Quarter (2) Learn about transient phenomena of discharge in multiple-energy LRC circuits when a DC electromotive force is applied. Understand transient phenomena a DC electromotive force is applied. 10th 10th Transient phenomena in multiple-energy circuits and transing electromotive force is applied to a multiple-energy LRC circuit. Understand transient phenomena when an alternating electromotive force is applied to a multiple-energy LRC circuit. 11th The basics of the steady-state and transient phenomena in distributed-element circuits during steady-state and transient phenomena in distributed-element circuits (1) The basics of the steady-state and transient phenomena in distributed-element circuits (1) 12th Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) 13th Transient phenomena in distributed-element circuits (2) Transient phenomena in distributed-element circuits (2) 13th Total review Total review Total review 14th Final exam Final exam 15th Total review Final exam 16th Final exam Final exam 100 0 0 0 0 2udation 0 0 0 0				In a circuit where electrostatic energic circuit that consist equations will become there will be cases	gy both exist, in c s of L, C, and R, ome second orde in which vibration	other words, a the differential er ones, and ons occur and	multiple-energy	circuits, and		
2nd (3) 10th Learn about transient phenomena when an alternating electromotive force is applied to a multiple-energy LRC circuit. 11th 10th Learn about transient phenomena when an alternating electromotive force is applied to a multiple-energy LRC circuit. 11th The basics of the steady-state and transient phenomena in distributed-element circuits. The basics of the steady-state and transient phenomena in distributed-element circuits during steady-state and transient phenomena in dexplain basic concepts and interpretation. 12th Transient phenomena in distributed-element circuits 11 Transient phenomena in distributed-element circuits 11 12th Transient phenomena in distributed-element circuits 11 Transient phenomena in distributed-element circuits 11 13th Transient phenomena in distributed-element circuits 12 Transient phenomena in distributed-element circuits 11 14th Do exercises on multiple-energy circuits and distributed-element circuits using the Laplace transform. Find the wave propagation speed on the line. Learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. Can find the wave propagation speed on the line. 14th Do exercises on multiple-energy circuits and distributed-element circuits. Total review 15th Total review Total review Total review 16th Final exam Final exam Portfolio			9th	(2) Learn about transi multiple-energy Ll	ient phenomena RC circuits when	of discharge in	Understand transient phenomena of discharge in multiple-energy LRC circuits when a DC electromotive force is applied.			
2nd Quarter Inth berowe the basic equations of distributed-element circuits. circuits during steady-state and transient phenomena and explain basic concepts and interpretation. phenomena in distributed-element circuits during steady-state and transient phenomena and explain basic concepts and interpretation. Can derive the basic equations of distributed- element circuits during steady-state and transient phenomena and explain basic concepts and interpretation. 12th Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (2) Transient phenomena in distributed-element circuits (2) 13th Transient phenomena in distributed-element circuits using the Laplace transform. Following the previous week, learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. Find the wave propagation speed on the line. Learn how to solve the transient phenomena in distributed-element circuits and distributed-element circuits and distributed-element circuits. 14th Exercise Do exercises on multiple-energy circuits and distributed-element circuits. Exercise Do exercises on multiple-energy circuits and distributed-element circuits. Evaluation Method and Weight (%) Presentation Mutual Evaluations between students Pentfolio Other Total Subtotal 100 0 0 0 0 0 0			10th	(3) Learn about transi alternating electro	ient phenomena motive force is a	when an	alternating elect	romotive forc		
Quarter Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) 12th 12th Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) Transient phenomena in distributed-element circuits (1) Understand the solution of infinite, lossless, an strain-free lines using the Laplace transform. 13th Transient phenomena in distributed-element circuits using the Laplace transform. Find the wave propagation speed on the line. Learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. Can find the wave propagation speed on the line. 14th Exercise Do exercises on multiple-energy circuits and distributed-element circuits. Exercise Do exercises on multiple-energy circuits and distributed-element circuits. 15th Total review Total review 16th Final exam Evaluation Presentation students Mutual Evaluations between students Portfolio Other Total Subtotal 100 0 0 0 0 0 0		2nd	11th	The basics of the sphenomena in dist Derive the basic e circuits during stea phenomena and e	tributed-element circuits. equations of distributed-element ady-state and transient		phenomena in distributed-element circuits. Can derive the basic equations of distributed- element circuits during steady-state and transie phenomena and explain basic concepts and			
Image: state stat			12th	circuits (1) Introduce solution	s using the Lapla	ce transform	Transient phenomena in distributed-element circuits (1) Understand the solution of infinite, lossless, and			
Image: height of the second distributed element circuits. Do exercises on multiple-energy circuits and distributed-element circuits. 15th Total review Total review 16th Final exam Final exam Evaluation Method and Weight (%) Examination Presentation Mutual Evaluations between students Subtotal 100 0 0 0 0 Basic Proficiency 0 0 0 0 0 Snocialized 0 0 0 0 0			13th	Transient phenomena in distributed-element circuits (2) Following the previous week, learn how to solve the transient phenomena in distributed-element circuits using the Laplace transform. Find the			transform. Can find the wave propagation speed			
I6th Final exam Final exam Evaluation Method and Weight (%) Examination Presentation Mutual Evaluations between students Portfolio Other Total Subtotal 100 0 0 0 0 0 100 Basic Proficiency 0 0 0 0 0 0 0			14th	Do exercises on m	ultiple-energy ci nt circuits.	rcuits and	Do exercises on multiple-energy circuits and			
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										
ExaminationPresentationMutual Evaluations between studentsBehaviorPortfolioOtherTotalSubtotal10000000100Basic Proficiency000000Subtotal000000							Final exam			
ExaminationPresentationEvaluations between studentsBehaviorPortfolioOtherTotalSubtotal10000000100Basic Proficiency000000Subtotal000000	Evaluati	on Metl	nod and V	Veight (%)	Martin 1	T		T		
Basic Proficiency 0 0 0 0 0		Examination		Presentation	Evaluations between	Behavior	Portfolio	Other	Total	
Proficiency 0 0 0 0 0 0 0 0	Subtotal	Subtotal 100		0	0	0	0	0	100	
Specialized		, 0		0	0	0	0	0	0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Specialize	d 10	0	0	0	0	0	0	100	
Cross Area Proficiency 0 0 0 0 0 0 0 0 0	Cross Area	a o		0	0	0	0	0	0	

А	kashi Co	ollege	Year	2023		Course Title	Electronic Circuits II	
	Information	- ī						
Course Co		5440			Course Category		lized / Elective	
Class Forr		Lecture Electrical	and Computer E	ngineering	Credits	School Credit: 1 4th		
Departme	ent	Computer	Engineering Co		Student Grade			
Term Textbook	and/or	Second Se	emester		Classes per Wee	k 2		
Teaching	Materials							
Instructor	 Objectiv		Masato					
The goal i 1) Unders them, and 2) Accura these circ 3) Accura 4) Accura	is to achiev stand the c d can analy tely under uits. tely under	ve the follow characteristic yze these cir stand the pr stand the pr stand the pr	cuits. inciples and prop inciples and prop	ents, accurately u perties of negative perties of circuits u	e-feedback circuits	s and various	roperties of basic circuits using amplifier circuits, and can analysis n analyze and design these circuits. r circuits, and can analyze and	
Rubric		-						
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		of active eleme	e characteristics ents, accurately e principles and asic circuits using analyze these	Understand the of active elemen the principles an basic circuits usi can analyze thes	its, understar d properties ng them, and	nd characteristics of active of elements or the principles and	
Achievement 2			Accurately und principles and principles and negative-feedb various amplific can analysis th	properties of ack circuits and er circuits, and			principles and properties of	
Achievem	ient 3		Understand the properties accu analyze and de using arithmeti	sign circuits	Understand the properties, can a design circuits us amplifiers.	analyze and	principles and properties of	
			Accurately und principles and l oscillator, mod demodulator ci analyze and de circuits.	properties of ulator, and rcuits, and can	Understand the properties of osc modulator, and circuits, and can design these circ	cillator, demodulator analyze and	principles and properties of	
	d Depar a Metho	tment Obj d	ectives					
Outline		We will ex		of analogue electi T), and operation		g active elem	ents such as diodes, transistors,	
Style		Classes w	ill be held in a le ses and design a	cture style, mainl ssignments as app	y by explaining co propriate.	ontent followi	ng the textbook. Students will work	
Notice		Students should co	are required to le nstruct the circul who miss 1/3 or	earn in an active r it they designed a more of classes v	nanner so they ca nd study its opera vill not be eligible	an design circ ation. for a passing	cuits themselves. If possible, they	
Charact	eristics of		Division in Le				<u>, grade.</u>	
Active	Learning	•	□ Aided by IC	л Т	☑ Applicable to	Remote Clas	s Instructor Professionally Experienced	
Course	Plan							
Course		Т	heme		0	Goals		
			Differential ampli	fier circuit 1	l		ne characteristics of differential	
		2nd D	Differential ampli	fier circuit 2	l		ow to design differential amplifier	
		3rd V	oltage follower o	circuit	l		ne emitter follower and source	
Jod	3rd	4th C	haracteristic of a	an operation ampl	ifior		ne characteristics of an operation	
2nd Semeste r	Quarter	5th E	asic amplifier cir	cuit of an operation		Jnderstand th	ne basic design of an amplifier circuit ation amplifier.	
		6th A	pplication circuit	of an operation a	mplifior		arious application circuits using	
		7th R	C oscillator circu	lit	l		ne RC oscillator circuit used as a low-	
		8th N	lidterm exam			. ,		
	4th Quarter	9th L	C oscillator circu	it	L S	Understand th such as Hartle	ne LC and crystal oscillator circuits, ey and Colpitts.	

10th	Variable frequency oscill	ator circuit	Understand the oscillator circuit, which allows the oscillation frequency to be variable.		
11th	The basics of modulation	n and demodulation	Understand the relationship between modulation and demodulation and the features of AM, FM, etc.		
12th	Modulation circuit		Understand the AM and FM modulation schemes.		
13th	Demodulator circuit 1		Understand the AM demodulation scheme.		
14th	Demodulator circuit 2		Understand the FM demodulation scheme.		
15th	Power circuit		Understand the basics of power circuits used in electronic circuits and regulated power circuits.		
16th	Final exam				
Evaluation Method ar	ıd Weight (%)				
	Examination	Other	Total		
Subtotal	70	30	100		
Basic Proficiency	Basic Proficiency 0 0		0		
Specialized Proficiency	70	30	100		
Cross Area Proficiency 0 0			0		

A	kashi Co	ollege		Year	2023		Cours Title		Control Engineering I
Course	Information	tion							
Course Co	ode	5441				Course Categor	ry Spec	ialized	d / Elective
Class For	mat	Lecture				Credits	Acad	lemic	Credit: 2
Departme	ent			omputer E Neering Co	ingineering urse	Student Grade	4th		
Term		Second	Semeste	er		Classes per We	ek 2		
Textbook Teaching									
Instructor		ENOMO	TO Ryuji	i					
Course	Objectiv	es							
 Unders Can ex Can ex Can ex Can ex Can ex 	stand the s plain trans plain stead	ystem repr sient prope ly-state pro	resentat rties usi operties	ion using ng step re s usina the	put/output charad the block diagram sponse. steady-state devi Bode plot. ack control syster	iation.).	
Rubric						T			
				l Level		Standard Level			Unacceptable Level
Achievem	ent 1		Can o corre		ransfer function	Can explain hor transfer function		а	Do not know how to derive a transfer function.
Achievem	ient 2		consi	simplify a isting of s feedback l	block diagram eries, parallel, ponds.	Can simplify se feedback bonds diagram.	rial, parallel s in a block	, and	Do not understand the components of a block diagram.
Achievem	ient 3		evalu		the indicators for nsient properties se.	Can explain sor indicators for e transient prope response.	valuating	1	Cannot explain the indicators for evaluating transient properties in step response at all.
Achievement 4		meth devia stead	nod of stea	can calculate the	Know the calculation method (formula) of stead-state deviation.		od	Cannot explain steady-state deviation.	
Achievem	Achievement 5		respo by co	onse of a s ombining f	ne frequency system obtained the basic Bode plot.	Can express the frequency response of some of the basic elements in a Bode plot.		Do not know a Bode plot.	
Achievem	ient 6		the f	eedback c	the stability of ontrol system ng Nyquist on.	Can explain the stability determ Nyquist stability	nination usin	ig the	Cannot explain the Nyquist stability criterion.
Assigne	d Depar	tment Ob	ojectiv	es					
Teachin	g Metho								
Outline		refrigera	ators, ha focusinc	ave a auto g on trans	matic control func	tion. In this lec frequency respor	ture, studer se. In addit	nts wil ion, s	ing cars, air conditioners, and Il learn the basics of classical tudents will deepen their s appropriate.
Style		introduc	ed.		, 5	, ,	, ,	,	sponse, and stability will be ontent of the class.
Notice		knowled credits, assignm hours of	ge of La students ents. Th study in	aplace con s may not ne specific n total. Th	version and réver be eligible for pas conditions will be	se conversion is ssing depending shown during the the learning time	the premise on the subm ne lecture. The guarantee	of thi nissior his co d in c	miliar with the calculations. Basic is course. Since this subject offer and content of the ourse's content will amount to 90 classes and the standard self- ts.
Charact	eristics o	of Class /	<u>/</u> Divisi	ion in Le	arning	1			
☑ Active	Learning		□ A	ided by IC	T	☑ Applicable to	o Remote Cl	ass	 Instructor Professionally Experienced
Course	Plan		-				<u> </u>		
			Theme				Goals Understand	the o	bjectives and the grading
		1st	Introdu	iction			method, etc	c. of tl	
2nd Semeste r	3rd Quarter	2nd	Laplace	aplace transform and inverse transform			Can describe the expression of the Lapl transform. Can calculate the inverse Laplace transf on partial fraction decomposition or con the square.		inverse Laplace transform based decomposition or completing
		3rd	Modelin	ng with dif	ferential equation	5	Can derive represents typical systemetry	the dy	del (differential equation) that namic characteristics for a
		4th	Transfe	er function	S		Can derive transform.	a tran	sfer function using the Laplace

		5th	Block diagrams			Can simplify se Can simplify a three bonds ab	block diagram	and feedback bonds. consisting of the		
		6th Calculation of transient response			transform. Can calculate t	Can calculate the inverse Laplace transform based on partial fraction decomposition or completing				
		7th	The basic eleme	The basic elements and their time response			e names of the e characteristic ms of time res	e six basic elements. cs of the basic sponse.		
		8th	Evaluation metri	Evaluation metric of the time response			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			of basic eleme	Can explain the characteristics of the vector locus of basic elements. Can draw a vector locus			
		11th	Bode plots	3ode plots			e characteristic egral, first-ord ag factor.	cs of Bode plots of a er lag factor, and		
	4th Ouarte	r 12th	Combining Bode	ombining Bode plots			ode plots.			
		13th	Stability of a con	Stability of a control system			Can explain the stability condition. Can determine the stability from the position of the poles of the transfer function.			
		14th	Stability criterior	Stability criterion of a feedback control system			Can determine the stability of a feedback control system using Nyquist stability criterion.			
		15th	Review	Review			Review the content of classes in the second half of the semester.			
		16th	Final exam							
Evaluat	ion Me	thod and	Weight (%)							
		Examination	Exercise	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		70	30	0	0	0	0	100		
Basic Proficienc	cy 🗌	0	0 0 0		0	0	0			
Specialize Proficienc		70	30	0	0	0	0	100		
Cross Are Proficienc		0	0	0	0	0	0	0		

Computer Er Term First Semest Textbook and/or (1) 早川幸治 Teaching Materials Stage 英文法 Instructor HIRAKAWA N Course Objectives Computer Er	d Computer Engineering ngineering Course		Title	English V		
Class Format Lecture Department Electrical and Computer Er Term First Semest Textbook and/or Teaching Materials (1) 早川幸治 Stage 英文法 Instructor HIRAKAWA \\ Course Objectives	ngineering Course					
Department Electrical and Computer Er Term First Semest Textbook and/or Teaching Materials (1) 早川幸治 Stage 英文法 Instructor HIRAKAWA \ Course Objectives	ngineering Course	Course Category	/ General /	Compulsory		
Department Computer Er Term First Semest Textbook and/or Teaching Materials (1) 早川幸治 Stage 英文法 Instructor HIRAKAWA N Course Objectives Hirakawa N	ngineering Course	Credits	Academic	Credit: 2		
Textbook and/or Teaching Materials (1) 早川幸治 Stage 英文法 Instructor HIRAKAWA V Course Objectives		Student Grade	5th			
Teaching Materials Stage 英文法 Instructor HIRAKAWA N Course Objectives		Classes per Wee				
Instructor HIRAKAWA Course Objectives	・番場直之 GIGA BOOSTER FO ぇ・語法問題」桐原書店.	OR THE TOEIC L&P	TEST KINSEI	DO. (2) 瓜生豊・篠田重晃「Next		
Course Objectives						
 1) 既習の高等学校学習指導要領に準 2) 既習の高等学校学習指導要領に準 3) 既習の高等学校学習指導要領に準 4) 平易な英語で書かれた文章を読み 5) 明瞭で聞き手に伝わるような発話 	+、その概要を把握し必要な情報を	できる。 読み取ることができ		できる。		
Rubric						
	里想的な到達レベルの目安	標準的な到達レベ	ルの目安	未到達レベルの目安		
評価項目1 出	高等学校学習指導要領に準じた新 出語彙を十分に習得して適切に運 用できる。	 高等学校学習指導 出語彙を習得して	要領に準じた新 運用できる。	高等学校学習指導要領に準じた新 出語彙を習得していない。		
	国をとる。 高等学校学習指導要領に準じた文 法や文構造を十分に習得して適切 に運用できる。	 高等学校学習指導 法や文構造を習得 。	要領に準じた文 して運用できる	高等学校学習指導要領に準じた文 法や文構造を習得していない。		
ァ価項目3	高等学校学習指導要領に準じた文 構造を十分に習得して適切に運用 できる。	高等学校学習指導 構造を習得して適 。		高等学校学習指導要領に準じた文 構造を習得していない。		
評価項目4 、	平易な英語で書かれた文章を読み その概要を十分に把握し必要な 青報を読み取ることができる。	。 平易な英語で書かれた文章を読み 、その概要を把握し必要な情報を 読み取ることができる。		平易な英語で書かれた文章を読み 、その概要を把握できない。		
群価項目5	英語の発音・アクセントの規則を 十分に習得して適切に運用できる	英語の発音・アク 習得して適切に運		英語の発音・アクセントの規則を 習得していない。		
Assigned Department Objec	tives	-		-		
Teaching Method						
Outline (2) 広く用いれ 目標を達成す	代に活躍する技術者として必要な られる資格試験に出題される英文 るためには、次の自己学習が必要 新出単語について、該当単語、発	を題材とすることに である。	より、実践的な			
・授業におい	て学習した英文を復習し、復唱可	能な状態になるまで	ご練習すること。			
	は語彙を増やし、英作文力向上の 遅刻や欠課による小テストの未受 しない欠席条件(割合) 1/4以上の	験は 0 点の扱いとす)欠課	たる。			
Characteristics of Class / Div	vision in Learning	1				
□ Active Learning	Aided by ICT	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 		
Course Plan						
The		(r	Goals			
				Goals		
授業 1st 授業	きの進め方・単語テスト・評価の方					
授業 1st 授業 説明	を行う。					
1st 授業 打st 授業 説明 2nd Less	見を行う。 son 1. Travel			語句・表現を習得する		
1st 授業 授業 説明 2nd Less 3rd Less	を行う。 son 1. Travel son 2. Dining Out		「食事」 に関する	語句・表現を習得する		
1st 授業 説明 2nd Less 3rd Less 4th Less	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life		「食事」に関する 「日常生活」に関	語句・表現を習得する する語句・表現を習得する		
1st 授業 説明 2nd Less 3rd Less 4th Less 5th Less	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment		「食事」に関する 「日常生活」に関 「娯楽」に関する	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する		
1st授業 授業 説明1st2nd2ndLess3rdLess4thLess5thLess6thLess	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing		「 <u>食事」に関する</u> 「日常生活」に関 「娯楽」に関する 「買い物」に関す	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する		
1st授業 授業 説明1st2nd2ndLess3rdLess4thLess5thLess6thLess7thLess7thLess9th中間	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 別試験		「 <u>食事」に関する</u> 「日常生活」に関 「娯楽」に関する 「買い物」に関す	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する		
1st Quarter招 短業 説明 2nd 4th Less 5th Cless 6th Cless 7th 8th 中間1st Semeste r1st のth	son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験 間試験を実施する。 間試験の返却と解説		「食事」に関する 「日常生活」に関 「娯楽」に関する 「買い物」に関す 「オフィス」に関	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する		
1st Quarter招 短業 説明 2nd 4th Less 5th Cess 6th Less 7th 8th1st Semeste7th 中間 中間 中間	また行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験 電話験の返却と解説 間試験の返却と解説で行う。	4	「食事」に関する 「日常生活」に関 「娯楽」に関する 「買い物」に関す 「オフィス」に関 寺に不正解の箇所	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する する語句・表現を習得する		
1st Quarter招號 短葉 説明 2nd 4th Less 5th Cless 6th Less 7th 8th 中間 中間 中間 10th	son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験の返却と解説 間試験の返却と解説を行う。 son 7. Clients		「 <u>食</u> 事」に関する 「日常生活」に関 「娯楽」に関する 「買い物」に関す 「オフィス」に関 寺に不正解の箇所 「顧客」に関する	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する を再学習し理解する。 語句・表現を習得する		
1st Quarter短葉 短葉 説明1st 2nd 3rd 4th Less 5th 6th Less 7th 8th 中間 9th 中間 10th 11th Less	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験の 間試験の返却と解説 間試験の返却と解説を行う。 son 7. Clients son 8. Recruiting	4	「 <u>食</u> 事」に関する 「日常生活」に関 「娯楽」に関する 「買い物」に関す 「オフィス」に関 寺に不正解の箇所 「顧客」に関する 「採用・求人」に	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する を再学習し理解する。 語句・表現を習得する 関する語句・表現を習得する		
1st Quarter 1st Quarter 授業 説明 1st Quarter 2nd Less 3rd 1st Quarter 4th Less 5th 1st Semeste r 5th Less 6th 1st 7th Less 1th 1st 9th 中間 中間 1st 9th 中間 10th Less 11th 12th	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験の返却と解説 間試験の返却と解説を行う。 son 7. Clients son 8. Recruiting son 9. Personnel		「食事」に関する 「日常生活」に関する 「回常生活」に関する 「頭楽」に関する 「買い物」に関する 「オフィス」に関 ・ ・ <	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する を再学習し理解する。 語句・表現を習得する 関する語句・表現を習得する 語句・表現を習得する		
1st Semeste1st Quarter授業 短端 2nd 4th 6th 1ess 6th 1ess 7th 8th 中間 10th 10th 12th 12th 13th Less 12th	また行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験の返却と解説 間試験の返却と解説を行う。 son 7. Clients son 8. Recruiting son 9. Personnel son 10. Advertising	4 	「食事」に関する 「日常生活」に関する 「回常生活」に関する 「娯楽」に関する 「買い物」に関する 「すってス」に関する 「ホーム」に関する 「採用・求人」に 「人事」に関する 「広告・宣伝」に	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する な再学習し理解する。 語句・表現を習得する 関する語句・表現を習得する 語句・表現を習得する 関する語句・表現を習得する		
1st Quarter授業 授業 説明 2nd 4th Less 5th 6th Less 6th 1st Semeste1st Semeste1st Quarter1st Ouarter2nd 4th 6th 8th 中間 10th 11th 12th 12th 13th Less 12th 14th Less	を行う。 son 1. Travel son 2. Dining Out son 3. Daily Life son 4. Entertainment son 5. Purchasing son 6. Offices 間試験の返却と解説 間試験の返却と解説を行う。 son 7. Clients son 8. Recruiting son 9. Personnel	4 	「食事」に関する 「日常生活」に関する 「回常生活」に関する 「頭い物」に関する 「買い物」に関する 「オフィス」に関 キに不正解の箇所 「顧客」に関する 「採用・求人」に 「広告・宣伝」に 「メディア」に関	語句・表現を習得する する語句・表現を習得する 語句・表現を習得する る語句・表現を習得する する語句・表現を習得する を再学習し理解する。 語句・表現を習得する 関する語句・表現を習得する 語句・表現を習得する		

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

А	kashi Co	ollege	Year	Year 2023		Course Title	Introduction to Japanese Language and Communication		
Course	Informa	tion				I			
Course Co		5502			Course Categor	,	/ Elective		
Class For	nat	Lecture			Credits	Academ	ic Credit: 2		
Departme	ent		al and Computer E ter Engineering Co		Student Grade	5th			
Term		First Se	mester		Classes per We	ek 2			
Textbook Teaching		河野哲せ	『レポート・論文の	D書き方入門 第4版	版』(慶應義塾大学	出版会)、適宜	プリントを配布する。		
Instructor	-	TANGE	Atsuko						
(1) 実用的(2) 報告・	Objectiv な文章(手 論文の目的 論文を、整	[≦] 紙・メール 〕に応じて、	ル)を、相手や目的に 印刷物、インターネ 愛を基にして、主張た	こ応じた体裁や語句 ペットから適切な情 が効果的に伝わるよ	を用いて作成できる 報を収集できる。 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。		
			理想的な到達レ	ベルの目安	標準的な到達レイ	ジルの目安	未到達レベルの目安		
評価項目1				頼の手紙・メール	文書・メールの、 イアウトを適切に る。		手紙・メールのレイアウトに難が ある。		
評価項目2			PR文書・レジメ が適切である。	・論文の材料選択	PR文書・レジメ すことができる。				
評価項目3			提案書・報告書 開が適切・効果	・論文の構成・展 的である。	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 Depar	tment O	bjectives						
Teachin	g Metho								
Outline エントリーシート・履歴書・レポート・論文など、目的の異なる 意点等を概説する。各自、材料を事前に準備し、制限時間内で近 、豊かで正しい表現力を獲得することを目的とする。						^{義々な文章} (文書) 切に書く練習を行) 表現について、それぞれの特徴や注 fい、明らかになった問題点を克服し		
Style		履歴書・		報告書・論文の基本	的な作成方法・例	示の講義と、その	D習熟・理解度を確認する設問に対す		
Notice		、90時間	は、授業で保証する 間に相当する学習内 打象としない欠席条件	容である。		- ト作成に必要と	こなる標準的な自己学習時間の総計が		
Charact	eristics of	of Class	/ Division in Le	arning					
Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 		
Course	Plan								
			Theme			Goals			
		1st	オリエンテーション 1 授業の概要 2 テーマ・意図	ン ・構成・推敲につい		文書作成に際して、箇条書き・符号・見出し・数値を 用いて、適切にレイアウトできる。			
		2nd	1 データ部の書 ・効果的表現(記 ・	歴書・エントリーシート			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	志望理由書・研究 1 志望理由書に 2 研究計画書に	ついて		各人の希望進路に応じた志望理由と研究(キャリア) 計画を適切な形式で効果的に作成できる。			
	1st Quarter	4th	手紙・メール 1 手紙の書き方(2 メールの書き;			状況に応じた手紙・メールを作成することができる。			
1st	Quarter	5th	小論文1 1 テーマ : 社会 2 材料収集・構成			各テーマに応じ、 的に小論文を作り	適切な材料を用いて、論理的・効果 成することができる。		
Semeste r		6th	小論文 2 1 テーマ : 環境 2 材料収集・構成	・科学技術 成			適切な材料を用いて、論理的・効果 成することができる。		
		7th		別記書き 図表・レイアウト			で図表を効果的に用い、レイアウトに ノジメを作成することができる。		
		8th	報告書・レポート 1 企画書・提案 2 プレゼンテー	書 ション		企画書・提案書の 果的にプレゼン	クレジメ・スライドを作成できる。効 テーションできる。		
		9th	テーマ別問題点の 1 内容面の問題 2 表現面の問題	۲. ۲.		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	10th	アカデミックスキル 考え方・基礎的技行			アカデミックス ことができる。	キルを理解し、自身の文章に反映する		
		11th	研究テーマと問題 1 テーマ・問題の 2 自己分析	設定 の設定		テーマを適切に 構成・展開できる	設定し、有効な材料を用いて、文書を		

		12th	論文1 1 計画書 2 構成			説得力のある計画書で を作成できる。	を作成できる。論文全体の構成表	
		13th	2 文献表 論文3 1 調査・研究・意義			注記・引用・文献表を適切に書くことができる。		
		14th				研究方法を明瞭に示し、研究成果の見通しを示すこと ができる。中間発表・卒業研究発表までの明確な計画 表を作成できる。		
		15th	課題と整理 1 問題点の課題と整理 2 まとめ	₽	自身の研究計画を見直し、適切に改善できる。		直し、適切に改善できる。	
		16th	期末試験					
Evaluati	on Meth	od and	d Weight (%)					
		IIIG	式験	課題	そ	の他	Total	
Subtotal		6	60	40	0		100	
基礎的能力)	60		40	0		100	
専門的能力)	C		0	0		0	
分野横断的]能力	C		0	0		0	

A	kashi Co	ollege	Year	2023		Course Title	Law	
Course	Informa	tion	·					
Course Co	ode	5503			Course Categor	y General	/ Elective	
Class Forr	mat	Lecture			Credits	Academ	ic Credit: 2	
Departme	ent		and Computer Ei Engineering Cou		Student Grade	5th		
Term		First Sem	ester		Classes per We	eek 2		
	Materials	Do not us						
Instructor		KUROKUI	Yoshimi					
Understa has playe The cour	d in addre se also air	egal concept ssing the channel ns to provide	allenges and prol e students with a	blems that change	e with the times. understand that l		expected to play and what role it elated to our daily lives, to develop	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ient 1		Thoroughly und knowledge of la Constitution, th and the Civil Co International La	aw (the ne Penal Code, ode, and	Have basic know (the Constitutio Code, and the C International La	n, the Penal Civil Code, and	Do not have sufficient basic knowledge of law (the Constitution, the Penal Code, and the Civil Code, and International Law).	
Achievem	Be able to objectively explain what role the law is expected to play and has played							
Achievem	vement 3 Can accurately and legally examine various incidents and events occurring in modern society. Can think legally to a certain extent when considering variou incidents and events occurring in modern society.			Cannot think from a legal perspective when considering the various incidents and events occurring in modern society.				
Assigne	d Depar	tment Obj	ectives					
Teachin	ig Metho	d						
Outline							thinking. Students will confirm the	
							h various events in daily life.	
Style		actively in	order to make t	the classes more i	nteractive.		students are encouraged to speak	
Notice		guarantee writing. The basic order in w Students	ed in class and th concepts of law which they are pr who miss 1/3 or	ne standard self-st are systematically esented may be c more of classes v	udy time require explained in thi hanged dependi	ed for preparati is course, but th ng on the stude	the sum of the learning time on, review, and assignment report ne themes of each class and the ents' understanding.	
Charact	eristics of	of Class /	Division in Lea	arning	1			
Active	Learning		☑ Aided by IC	Т	☑ Applicable to	o Remote Class	 Instructor Professionally Experienced 	
Co::===								
Course	ria[]				I	Capla		
			heme Guidance: What is	s law?		Goals Learn about the laws.	e concepts and classifications of	
		2nd F	listory of law				e historic evolution of law.	
	1 et		,	f the Constitution		Learn about the historic evolution of law. Understand the basic principles (popular sovereignty, respect for basic human rights, pacifism) as the fundamental principles of the Constitution at the top of all Japanese laws.		
	1st Quarter	4th E	qual rights			Understand the	e basic concepts of equal rights.	
		5th C	Civil liberties			Understand the	e basic concepts of civil liberties.	
		6th S	ocial rights				e basic concepts of social rights.	
1st Semeste r		7th N	lational governar	nce organization		Understand Japan's governing institutions (Diet, Cabinet, and courts) and the relationship between them.		
	8th Review of 1stQ			Review of 1stQ				
			enal Code			Learn about the	e function of the Penal Code and litions for a crime. Understand how	
	2nd Quarter	10th C	Civil Code			an act is legally formed as a criminal offense. Learn the basic principles of property law and family law. Understand that my human promise in daily life can constitute a civil code agreement.		
		11th E	conomy / Indust	try and Law		Learn consumer protection law, intellectual property law, etc Understand how the law guarantees relationships between various actors engaged in economic and industrial activities.		

		12th	Labor and law	Labor and law			Understand how workers' rights are guaranteed by law.			
		13th	Social security / Social welfare and law			Understand ho (medical care,	Understand how the law guarantees people's lives (medical care, pensions, welfare, etc.).			
		14th	Information society and law			regulates the	Understand how the law guarantees the individual's freedom to obtain information and regulates the abuse of misinformation and inappropriate information.			
		15th	International society and law				Learn the basics of international law governing relations between states.			
		16th	16th Final exam		Take the final	exam (written	test).			
Evaluati	on M	ethod and V	Weight (%)							
		Examination	Assignment	Mutual Evaluations between students	Quiz	Portfolio	Other	Total		
Subtotal		60	20	0	20	0	0	100		
Basic Proficiency	ý	60	20	0	20	0	0	100		
Specialize Proficiency		0	0	0	0	0	0	0		
Cross Area Proficiency		0	0	0	0	0	0	0		

Akashi Col	lege	Year	2023		Cou Tit		Philosophy	
Course Informati	ion	I						
Course Code	5504			Course Category	Ge	eneral /	Elective	
Class Format	Lecture			Credits	Ac	cademic	Credit: 2	
Department		and Computer E		Student Grade	5t	h		
Term	First Sem	ester		Classes per Weel	k 2			
Textbook and/or Teaching Materials	Hitoshi Ak	iyama et al., Cro	oss-Cultural Under	rstanding for Succ	ess in a	Global	Society, Jikkyo Shuppan Co.	
Instructor	ARAKAWA	A Hironori						
	Course Objectives							
(2) Understand the c (3) Understand and e (4) Understand the r (5) Understand what	 Understand what ethics one should have as an engineer active in the world. Understand the current fluid international situation. Understand and explain the concept of national and international economies. Understand the needs of consumers and the role of engineers in different cultures. Understand what ethical issues engineers may face. Acquire knowledge of intellectual property rights and understand their significance in manufacturing. Understand how engineers should be positioned in modern society and what they should do. 							
Rubric								
		Ideal Level		Standard Level			Unacceptable Level	
Achievement 1			nderstanding of e should have as orking in the	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		Fully aware of international si flux.	the current tuation that is in	Understands the international situ			Do not understand the current international situation in flux.	
Achievement 3		Have sufficient national and in economic conc	ternational	Have knowledge international ecol concepts.		onal and	Do not have knowledge of national and international economic concepts.	
Achievement 4		Have sufficient the needs of co role of enginee cultures.	onsumers and the	Have knowledge of the needs of consumers and the role of engineers in different cultures.		of	f Do not haveknowledge of the needs of consumers and the role of engineers in different cultures.	
Achievement 5		Have a good ui what ethical iss may face.	nderstanding of sues engineers	Have a understanding of what ethical issues engineers may face.			Do not have a good understanding of what ethical issues engineers may face.	
Achievement 6		Acquire knowle intellectual pro fully understan significance in	perty rights and d their	Acquire knowledge intellectual proper understand their manufacturing.	ge of erty righ significa	ts and ance in	Do not have knowledge of intellectual property rights and fully understand their significance in manufacturing.	
Achievement 7		how they shou	nderstanding of Id be positioned ety and what they	Understand how should be positio society and what do.	ned in t	oday's	Do not understand how engineers should be positioned in today's society and what they should do.	
Assigned Depart	ment Ohi							
Teaching Method								
	In today's	v based on their	expertise. In this	lecture, students	will be i	ińtroduo	operly apply science and ced to the ethical and	
Outline	philosophi social scie future will present, a to interna the knowl the ability	ical issues surrou nce and internat l select a topic re ind discuss the t tional society an edge of ethics ar to approach var	Inding engineers i ional sociology, st elated to internatic opic. The class foo d ethics for engine nd global issues no ious issues and so	n global society, a sudents who are e onal society and ei suses on research, eers. The ultimate ecessary for engin ociety based on th	and after ngineer , presen e goal of leers an	r under l to be a ethics, tation, this co d resea future	standing the basic concepts of active globally as engineers in the and will independently research, and discussion on topics related urse is to help students acquire rchers, and to actively cultivate perspectives.	
Style	The course will be read in a round-reading format using the textbooks. The participants will be divided into teams and each team will give a presentation on each topic. Other participants will discuss with the presenters. At the end of each class, students are required to submit a written summary of the class content and their opinions, which will be evaluated as a short report. In the end, each student will choose a theme based on the textbook/reference book he/she has chosen and conduct in-depth research, including fieldwork and surveys if possible. Based on the results of this research, students will be required to write a final thesis. In the presentation, students will be evaluated on their own research as well as their interpretation of the textbooks and class discourse, and therefore, preparation for reading each book is essential.						nts will discuss with the en summary of the class content ch student will choose a theme pth research, including fieldwork e required to write a final thesis. I as their interpretation of the	
Notice	Students prepare a presentati Proactive	are expected to a resume for his/l ion. Therefore, p participation is r	approach class wit ner topic, and the lease be sure to r equired.	th a daily interest audience will be c	in curre graded c sections	ent ever on the c of the f	nt according to social conditions. hts. Each presenter is required to questions they ask about the textbook for each presentation. e class	
Characteristics of Class / Division in Learning								
☑ Active Learning		☑ Aided by IC		☑ Applicable to I	Remote	Class	Instructor Professionally Experienced	
Course Plan								
	Т	heme		G	ioals			

		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	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.
		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 technolo had a variety information s Consider the	engineering ethics ogy developments by e of impacts in sectors society and medical car sort of relation that er s in these other areas.	such as re. Igineers should	Understand the relationship between engineers and modern society and what their place in it should be.		
		16th	final exam					
Evaluation Method and Weight (%)								
		Final Ex	am	Presentation in lecture	Comments and questions in lecture		Final Report	Total
Subtotal		40		15	10		35	100
Basic Prof	iciency	40		15	0		0	55
Specialize Proficiency	Specialized 0			0	0		0	0
Cross Area Proficiency	Cross Area		0	10		35	45	

Akashi College		Year	2023		(Course Title	Biophysical Chemistry		
Course	Informa	tion					-		
Course C	ode	5505			Course Categ	jory	General /	' Elective	
Class For	mat	Lecture			Credits		School C	redit: 1	
Departme	ent		l and Computer El er Engineering Col		Student Grad	le	5th		
Term		Second S	Semester		Classes per V	Veek	2		
Textbook Teaching	and/or Materials								
Instructo	r	OGASAW	/ARA Hiromichi						
Course	Objectiv	'es							
(2) Learn	ı how basio	: scientific k	nical reactions oc nowledge of math onsidering in futu	hematīcs, physio	cs, and chemistr	ý is app	líed to und	chemistry. erstanding life, includin y and environment.	g the
Rubric									
			Ideal Level		Standard Lev	vel		Unacceptable Level	
Achievem	nent 1		Fully understar examine chemi occurring in life physics and ch	ical reactions based on	Understand h chemical read life based on chemistry.	ctions of	curring in	Do not understand he examine chemical rea occurring in life based physics and chemistr	actions d on
Achieverr	nent 2		Fully understar knowledge is a science.		Understand h knowledge is science.			Do not understand he knowledge is applied science.	
Assigne	d Depar	tment Ob	jectives						
	ng Metho								
Outline	2	Physical matters with the	are elucidated usi	ng physical met rring in life. In t	hods. In this fiel his course, we v	ld, bioph	nysical che	nysical properties), and mistry is the division th ical reactions that occu	at deals
Style			classes will be tau			e will als	o be exerc	ses and quizzes.	
Notice Study by consciously thinking how knowledge of the basic scientific subjects (mathematics, physics, chemistry) that you have learned so far is helping to understand life and familiar phenomena related to The schedule of the midterm exam may be changed. Students who miss 1/3 or more of classes will not be eligible for evaluation.							, ed to it.		
		Jocuacina	who miss 1/3 or	more of classes	s will not be eligi	ible for e	evaluation.		
Charact	teristics		Division in Le		s will not be eligi	ible for e	evaluation.	1	
	teristics (e Learning			arning	S will not be eligi			☐ Instructor Profess Experienced	ionally
	e Learning		Division in Le	arning	s will not be eligi				ionally
Active	e Learning	of Class /	Division in Le	arning	s will not be eligi		ote Class		ionally
Active	e Learning	of Class /	Division in Le	arning T	s will not be eligi	e to Rem	ote Class	Experienced	ionally
Active	e Learning	of Class /	Division in Le	arning T -living and living	s will not be eligi ☐ Applicable g materials	e to Rem Goals	ote Class	Experienced	
Active	e Learning	of Class / 1st 2nd	Division in Le	arning T -living and living -living and living	s will not be eligi ☐ Applicable g materials	e to Rem Goals	ote Class	Experienced	
Active	e Learning	of Class / 1st 2nd 3rd	Division in Le	arning T -living and living -living and living of a tour trip.	g materials	e to Rem Goals Learr Learr	about the about the about the	Experienced	energy.
Active	Plan 3rd	of Class / 1st 2nd 3rd 4th	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non Energetics of non No class because Energetics of non	arning T -living and living -living and living of a tour trip.	g materials	e to Rem Goals Learr Learr Learr in livi	about the about the about the about the ng bodies. about the	Experienced binding energy. changes of matter and	energy.
Active	Plan	of Class / 1st 2nd 3rd 4th 5th	Division in Le	arning T -living and living -living and living of a tour trip.	g materials	e to Rem Goals Learr Learr Learr in livi Learr matte	about the about the about the about the ng bodies. about the er.	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e	energy. th matter
Active	Plan 3rd	of Class / 1st 2nd 3rd 4th 5th 6th	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non No class because Energetics of non Catabolism Photosynthesis	arning T -living and living -living and living of a tour trip.	g materials	e to Rem Goals Learr Learr in livi Learr matte Learr matte	about the about the about the about the about the about the about the y of light t	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr	energy. th matter
Course	Plan 3rd	of Class / 1st 2nd 3rd 4th 5th 6th	Division in Le	arning T -living and living -living and living of a tour trip.	g materials	e to Rem Goals Learr Learr in livi Learr matte Learr energ Learr	about the about the about the about the about the about the er. about the y of light t about pho	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr ptochemical reactions.	energy. th matter energy from ts use the ates.
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2nd Semeste	e Learning Plan 3rd Quarter 4th Quarter	of Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 15th 16th	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non Energetics of non No class because Energetics of non Catabolism Photosynthesis Photosynthesis Photosynthesis Photosynthesis Midterm exam Chemical kinetics Enzymes Enzymes Michaelis-Menten Michaelis-Menten Final exam	arning T -living and living -living and living of a tour trip. -living and living enzyme kinetic enzyme kinetic	s will not be eligi	e to Rem Goals Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr	about the about the necessary about the about the	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr btochemical reactions. basic matters of electre cules. basic matters of electre for future learning. basic matters of enzym basic matters of protei basic matters of protei basic matters of Micha inhibition of enzymes i n kinetics.	energy. th matter energy from ts use the ates. onic ical kinetics nes. ns. elis- n
2nd Semeste	e Learning Plan 3rd Quarter 4th Quarter	of Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 14th 15th 16th nod and V	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non Energetics of non No class because Energetics of non Catabolism Photosynthesis Photosynthesis Photosynthesis Photosynthesis Midterm exam Chemical kinetics Enzymes Enzymes Michaelis-Menten Michaelis-Menten	arning T -living and living -living and living of a tour trip. -living and living enzyme kinetic enzyme kinetic	s will not be eligi	e to Rem Goals Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Mento Learr Mento Learr Mento	about the about the necessary about the about the	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr ptochemical reactions. basic matters of electre ecules. basic matters of electre for future learning. basic matters of enzym basic matters of enzym basic matters of micha inhibition of enzymes i n kinetics.	energy. th matter energy from ts use the ates. onic ical kinetics nes. ns. elis- n
2nd Semeste	e Learning Plan 3rd Quarter 4th Quarter	of Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 14th 15th 16th nod and V	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non Energetics of non No class because Energetics of non Catabolism Photosynthesis Photosynthesis Photosynthesis Photosynthesis Midterm exam Chemical kinetics Enzymes Enzymes Michaelis-Menten Michaelis-Menten Final exam Veight (%)	arning T -living and living -living and living of a tour trip. -living and living and living enzyme kinetic enzyme kinetic enzyme kinetic	s will not be eligi	e to Rem Goals Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Mento Learr Mento Learr Mento	about the about the	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr ptochemical reactions. basic matters of electre ecules. basic matters of electre for future learning. basic matters of enzym basic matters of enzym basic matters of micha inhibition of enzymes i n kinetics.	energy. th matter energy from ts use the ates. onic ical kinetics nes. ns. elis- n
Active Course Semeste r	e Learning Plan 3rd Quarter 4th Quarter ion Meth	of Class / 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 16th 16th	Division in Lea Aided by IC Aided by IC Theme Guidance Energetics of non Energetics of non No class because Energetics of non Catabolism Photosynthesis Photosynthesis Photosynthesis Photosynthesis Midterm exam Chemical kinetics Enzymes Enzymes Michaelis-Menten Michaelis-Menten Final exam Veight (%)	arning T -living and living -living and living of a tour trip. -living and living enzyme kinetic enzyme kinetic enzyme kinetic enzyme kinetic	s will not be eligi	e to Rem Goals Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Learr Menta Learr Menta Learr Menta	about the about the	Experienced binding energy. changes of matter and exchange of energy wi process of extracting e process by which plant o synthesize carbohydr ptochemical reactions. basic matters of electre cules. basic matters of energy basic matters of energy basic matters of electre inhibition of enzymes i n kinetics. inhibition of enzymes to avior Total	energy. th matter energy from ts use the ates. onic ical kinetics nes. ns. elis- n

Cross Area Proficiency	0	0	0	0

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t understand the history technological pment from ancient to n.					
t understand how the nmental destruction has ed due to the plogical development.					
t think about how ologist should work based relationship between ology and environmental ction.					
r be interested in other as well as engineering nor press opinions.					
ential for us to live, and it is the basis to produce our body, mind and intelligence. Now problems nent, agriculture and food are often brought up as threatening our health and life. This is because ts that life is made light of often occur, including the accident of Fukushima No. 1 nuclear power e Great East Japan Earthquake in 2011. Then in this lecture, students understand relationship echnology or science and environment from the viewpoint of history from ancient to modern, n agriculture, agricultural technology and agricultural science that produce food as well as a. In addition, we will touch on the enquieering ethics.					
mitting reports.					
ill not be eligible for evaluation.					
structor Professionally enced					
nce and the method of hat is farming ?'					
the rise and fall of agriculture.					
said to have been the ecially cities in Japan are eanest in the world in ice-paddy cultivation that					
was one of the secrets. Learn the Agricultural revolution in Europe that was one of the preconditions of the Industrial Revolution.					
to be called 'Revolution'. During the Meiji period, the western agricultural technologies were introduced into Japan. But they did not adapt to the climate and natural features of Japan. Then learn the development of agricultural technology in Japan in those days.					

		7th	Japanese agriculture f prewar age of the Sho problems	rom the Meiji period to the owa 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 arr also many farm produ	n and Japanese agriculture naments of not only iron bu cts –	armamonte undor the o	products were diverted for ntire war system (konjac e balloon bombs and so		
		10th		n 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 on various studies –	cience – general ly engineering but also	Learn general mobilizati but also various studies under the entire war sys			
	4th Quarter	12th	The development of the after World War II	ne Japanese agriculture	dietary environment und	Learn the changes of Japanese agriculture and dietary environment under the rapid economic growth after World War II.		
		13th	Current agriculture in and environment in th	Japan – agriculture, food le future –		that Japanese agriculture population, satiation, the agriculture, global		
		14th	Agriculture, food and	nuclear power plant	Learn the reason why the nuclear power plant construction contributes to the depopulation of the regions. Think over whether 'the restoration of the Tohoku region' and 'nuclear power plant operation' go together.			
		15th	The global warming a plant	nd the role of nuclear powe	r clue to prevent global w the ability really ? Think	Nuclear power plant is expected as an important clue to prevent global warming, but does it have the ability really? Think over that with various data, aim to have our own opinions.		
		16th	Final exam					
Evaluati	on Meth	od an	nd Weight (%)					
			Behavior	Report	Examination	Total		
Subtotal			15	45	40	100		
Basic Prof	iciency		15	45	40	100		
Specialize	d Proficien	ю	0	0	0	0		
Cross Area	a Proficien	су	0	0	0	0		

A	Akashi College		Year	ear 2023		Course Title	Sports Science I		
Course	Informa	tion	·						
Course Co		5507			Course Category				
Class Forr	nat	Skill	nd Computer Ei	nginooring	Credits	School C	redit: 1		
Departme	ent	Computer	Engineering Cou	urse	Student Grade	5th	-		
Term	17	First Seme	ster		Classes per Wee	eek 2			
Textbook Teaching									
Instructor	-	GOTOH Ta	kayuki,KOBAYA	SHI Yuki					
・ Particip ・ Can tal	ke action t	ses to impro	orts safely. Also	n health and phys , recognizes the s	ical strength. Als ignificance of coll	o, have some le aborating and c	evel of self-discipline. cooperating with the team and can		
Rubric	, , ,								
			Ideal Level		Standard Level		Unacceptable Level		
Achievem	ent 1		improve their h	th. Have a high	Participate in cla their health and strength. Have s self-discipline.	physical '	e Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self- discipline.		
Achievem	ent 2		are very compe	pate in various and games, and etitive. Also have ce on games, etc.	Can participate practices and ga	in various sport imes.	Do not participate in various sport practices and games.		
Achievem	ent 3		Understand and take on the role	d can play or	Understand the but cannot play		Do not understand the role of a ' leader. Also, never play that role.		
Assigne	d Depar	tment Obje	ectives						
Teachin	g Metho								
Outline		the habit of Students v content. S	of playing sports vill split into aro	on a daily basis ups and leaders w ose from: Baseba	This class require vill take the lead t	es an active and to plan, review,	h of sports so that they can build proactive attitude to participate. and implement the course basketball, volleyball, badminton,		
Style		the basic s teamwork	kills they learne while collaborat	d in previous yeau ing and cooperati	rs. They are also ng with your tear	encouraged to n with 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 not v grade dedu • Tardine but their a • If it is d that class v absence.	wear or bring ac uction. ss will be excuse ttendance will b iscovered that a will be marked a	ccessories, watche ed for the first 20 e marked as abse student left class	es, or any other u minutes. Studen ent. s early without be eir grade for prev	innecessary iter ts can participa ing excused (di ious classes will	its 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 Lea		s will not be eligit				
☑ Active			□ Aided by IC		☑ Applicable to	Remote Class	 Instructor Professionally Experienced 		
Course	Plan								
200130		I TI	neme			Goals			
		1st Ba		soccer, futsal, ter ball, badminton, t	able toppic	Understand the purposes and objectives of this course. Split into teams in each sport and select leader.			
		Ba 2nd ba	aseball, softball,	soccer, futsal, ter ball, badminton, t	able tennic I	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.		
1ct		3rd ba	asketball, volleyl aining, flying dis		able tennis,	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.		
1st Semeste r	1st Quarter	4th ba	asketball, volleyl aining, flying dis		able tennis,	Can do warm-up and practice, play games, an reflect on the class, led by a leader.			
		5th ba	asketball, volleyl aining, flying dis		able tennis,	Can do warm-up and practice, play games, a reflect on the class, led by a leader.			
		6th ba	asketball, volleyl aining, flying dis		able tennis,	Can do warm-u reflect on the cl	o and practice, play games, and ass, led by a leader.		
		7th ba	aseball, softball, asketball, volleyl aining, flying dis	soccer, futsal, ter ball, badminton, t sc	able tennic IN	Can do warm-up and practice, play games, and reflect on the class, led by a leader.			

-						
8th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pi reflect 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	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 pr reflect 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 pi reflect on the class, led	ractice, play games, and by a leader.		
12th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pi reflect 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 pi reflect 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 pi reflect 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 practice, play games, and reflect on the class, led by a leader.		
16th	No final exam					
nod and	d Weight (%)					
		Practical skill	Leadership	Total		
7	/5	15	10	100		
7	75	0	0	75		
ncy ()	0	0	0		
ncy ()	15	10	25		
	9th 10th 11th 12th 13th 14th 15th 16th 16th 7 7 7 7 7 7 7 7 7 7 7 7 7	8th basketball, volleyball, training, flying disc 9th Baseball, softball, soc 9th Baseball, softball, soc 10th Baseball, softball, soc 10th Baseball, softball, soc 10th Baseball, softball, soc 11th Baseball, softball, soc 12th Baseball, softball, soc 13th Baseball, softball, soc 13th Baseball, softball, soc 14th basketball, volleyball, training, flying disc 14th Baseball, softball, soc 15th Baseball, softball, soc 16th No final exam nod and Weight (%) Approach to a class 75 75 ncy 0	training, flying disc9thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc10thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc11thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc11thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc12thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc13thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc13thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc14thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc15thBaseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc16thNo final examnod and Weight (%)Practical skill750ncy000	8th basketball, volleyball, badminton, table tennis, training, flying disc reflect on the class, led 9th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Split into teams in each 10th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 11th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 12th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 13th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 14th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 15th Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc Can do warm-up and preflect on the class, led 16th No final exam Can do warm-up and preflect on the class, led 16th No final exam Can do warm-up and preflect on the class, led 16th		

Akashi College		ollege	Year	2023		Course Title	Sports Science II	
Course	Informa	tion						
Course Co	ode	5508			Course Categor	y General ,	/ Elective	
Class Forr	mat	Skill			Credits	School C	redit: 1	
Departme	ent	Electrical Computer	and Computer El r Engineering Cou	ngineering urse	Student Grade	5th		
Term		Second S	emester		Classes per Wee	ek 2		
Textbook Teaching								
Instructor	-	GOTOH T	akayuki,ISHIDA	Masami				
・ Particip ・ Can tal	ke action t	ses to impro	oorts safely. Also	n health and phys , recognizes the s	ical strength. Als ignificance of coll	so, have some laborating and o	evel of self-discipline. cooperating with the team and can	
Rubric	,							
			Ideal Level		Standard Level		Unacceptable Level	
Achievem	ent 1		improve their h	th. Have a high	Participate in cla their health and strength. Have self-discipline.	l physical	e Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self- discipline.	
Achievem	ent 2		are very compe	pate in various and games, and etitive. Also have ce on games, etc.	Can participate practices and ga		Do not participate in various sport practices and games.	
Achievem	ent 3		Understand and take on the role		Understand the but cannot play		Do not understand the role of a 'leader. Also, never play that role.	
Assigne	d Depar	tment Ob	jectives					
Teachin	g Metho	d						
Outline		the habit Students content.	of playing sports will split into aro	on a daily basis ups and leaders w ose from: Baseba	This class require vill take the lead	es an active and to plan, review,	h of sports so that they can build l proactive attitude to participate. and implement the course , basketball, volleyball, badminton,	
Style		the basic	skills they learned while collaborated	d in previous year	rs. They are also ng with your tea	encouraged to m with 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 not grade dec • Tardine but their • If it is that class absence.	wear or bring ac duction. ess will be excuse attendance will b discovered that a will be marked a	ccessories, watche ed for the first 20 e marked as abse a student left class	es, or any other u minutes. Studen ent. s early without be sir grade for prev	unnecessary iten its can participa eing excused (d rious classes 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 of		Division in Le					
☑ Active		,	□ Aided by IC		☑ Applicable to	Remote Class	 Instructor Professionally Experienced 	
Course	Plan							
		1	heme			Goals		
		1st E	Guidance Baseball, softball, basketball, volley raining, flying dis	soccer, futsal, tei ball, badminton, ta sc	able toppic		purposes and objectives of this o teams in each sport and select a	
		2nd b	Baseball, softball, basketball, volleyl raining, flying dis	soccer, futsal, ten ball, badminton, ta sc	able tonnic	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
2nd		3rd t	basketball, volley raining, flying dis		able tennis,	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
Semeste r	3rd Quarter	4th t	asketball, volleyl raining, flying dis		able tennis,	Can do warm-up and practice, play games, a reflect on the class, led by a leader.		
		5th t	basketball, volley raining, flying dis		able tennis,	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
		6th t	basketball, volley raining, flying dis		able tennis,	Can do warm-u reflect on the cl	p and practice, play games, and ass, led by a leader.	
		7th b	Baseball, softball, basketball, volleyl raining, flying dis	soccer, futsal, ter ball, badminton, t sc	able tennic	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		

		8th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
		9th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Split into teams in each	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 practice, play games, and reflect on the class, led by a leader.			
		11th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect on the class, led	ractice, play games, and by a leader.		
	4th Quarter	12th	Baseball, softball, soc basketball, volleyball, training, flying disc	cer, futsal, tennis, badminton, table tennis,	Can do warm-up and pr reflect 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 pr reflect 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 pr reflect 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 pr reflect on the class, led	Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		16th	No final exam					
Evaluati	on Meth	iod an	d Weight (%)					
			Approach to a class	Practical skill	Leadership	Total		
Subtotal			75	15	10	100		
Basic Prof	iciency		75	0	0	75		
Specialize	d Proficier	ncy	0	0	0	0		
Cross Are	a Proficier	ю	0	15	10	25		

A	kashi Co	ollege		Year	2023			ourse Title	ΤΟΕΙСΙ
Course 2	Informat	tion							
Course Co	ode	5509				Course Categor	γ	General /	Elective
Class Forr	mat	その他				Credits		School Cr	edit: 1
Departme	ent			Computer Er gineering Cou		Student Grade		5th	
Term		Year-rour	nd			Classes per We	ek	1	
Textbook Teaching		None							
Instructor	-	INOUE H	idetc	oshi					
Course	Objectiv	es							
knowledg	e of Englis ws that the	h and the E	nglis	sh-speaking c	ultural backgroun	d. The student s	should a	acquire 43	xam questions that require 80 or more points in the test, less communication within a
Rubric									
			Id	eal Level		Standard Level			Unacceptable Level
1) cross-cultural understanding and adaptability			cu cro tao reo an	Iltural underst oss-cultural a ckling exam c	daptability by questions that dge of English -speaking	The student ha cross-cultural u and cross-cultu by tackling exa require knowle and the English cultural backgro	inderst iral ada m ques dge of n-speak	anding ptability stions that English	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.
2) English knowledge			En the all	e needs of ev	dge that fulfills reryday life and communication	The students h some English k fulfills the need and allows busi communication range.	nowled ls of ev iness	lge that eryday life	The students have not acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.
Assigne	d Depart	tment Ob	ject	ives					
	g Metho								
The ability to est KOSEN (higher e entered KOSEN			er education i N need to ac	nstitution). A skill	l required to live	throug	gh the 21s	oblem is a skill necessary at t century. The students that the students will learn methods arned at junior high school. Also, olem discovery and resolution.	
Style					ccording to tests				
Notice		period sti period wi TOEIC (T Public Ins Through	pula II no est c stitut this	ited by the st t be accepted of English for tion (Education test, the stud	udents' affairs off 1. The indicator of International Cor anal Testing Servio	ice. Applications English commu nmunication), a ce), which has t prove his or her	withou inication test de he large r Englis	ut the test n capabilit eveloped b est 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 /	Div	ision in Lea	arning				
Active	Learning			Aided by IC	Т	Applicable t	o Remo	ote Class	□ Instructor Professionally Experienced
Course	Plan								
		1	Then	ne			Goals		
		1st							
		2nd							
		3rd							
	1st Quarter	4th							
	Quarter	5th							
		6th 7th							
1st				nid-term Exar	n				
Semeste		9th	10 11		11				
		10th							
		11th							
	2nd	12th							
	Quarter	13th							
		14th							
		15th							
		16th 🛛	No e	nd-term Exar	n				
		1st							
2nd Semeste	3rd	2nd							
r	Quarter	3rd							
		4th							

		5th							
		6th							
		7th							
		8th	N	o mid-term Exar	n				
		9th							
		10th							
		11th							
	4th	12th							
	Quarte	er 13th							
		14th							
		15th							
		16th	N	o end-term Exar	n				
Evaluati	ion Me	ethod and	d We	eight (%)					
		Examinatio	n	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 :y	0		0	0	0	0	0	0
Cross Are Proficienc	a	0		0	0	0	0	0	0

Akashi College			Year	2023			ourse Title	ТОЕІСІ	
Course	Information	tion							
Course Co	ode	5510				Course Categor	γ	General /	Elective
Class Forr	nat	その他				Credits		School Cr	edit: 2
Departme	ent			d Computer Er ngineering Cou		Student Grade		5th	
Term		Year-rou	nd			Classes per We	ek	2	
Textbook Teaching		None							
Instructor	-	INOUE H	idet	oshi					
Course	Objectiv	es							
knowledg	e of Englis ws that the	h and the E	ingli	ish-speaking c	ultural backgroun	d. The student s	should	acquire 50	xam questions that require 00 or more points in the test, less communication within a
Rubric									
			Ic	deal Level		Standard Level			Unacceptable Level
1) cross-cultural understanding and adaptability			CI CI ta re a	ultural unders ross-cultural a ackling exam o	Idaptability by questions that dge of English h-speaking	The student ha cross-cultural u and cross-cultu by tackling exa require knowlea and the English cultural backgro	inderst iral ada m que dge of i-speal	anding aptability stions that English	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.
2) English knowledge			E th a	he needs of ev	dge that fulfills veryday life and communication	The students h some English k fulfills the need and allows busi communication range.	nowled s of ev iness	lge that eryday life	The students have not acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.
Assigne	d Depar	tment Ob	jec	tives					
Teachin	g Metho	d							
Cutline Cutlin			high kos	ner education i SEN need to ac	institution). A skil	l required to live	through the through the through the through the three terms of the three terms of the three terms of the through t	gh the 21s ais course	oblem is a skill necessary at t century. The students that the students will learn methods arned at junior high school. Also, olem discovery and resolution.
Style					ccording to tests				
Notice		period st period w TOEIC (1 Public In Through	ipula ill no Fest stitu this	ated by the st ot be accepted of English for ution (Educations test, the stud	udents' affairs off d. The indicator of International Cor onal Testing Servi	ice. Applications English commu nmunication), a ce), which has tl pprove his or her	withou nicatio test de he larg	ut the test on capabilit eveloped b jest 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 /	Di	vision in Lea	arning				
Active	Learning			Aided by IC	Т	Applicable t	o Rem	ote Class	 Instructor Professionally Experienced
Course	Plan								
			The	me		Goals			
		1st							
		2nd							
		3rd 4th							
	1st Quarter	5th							
		6th							
		7th							
1st			No r	mid-term Exar	n				
Semeste r		9th							
		10th							
		11th							
	2nd	12th							
Qu	Quarter	13th							
15		14th 15th							
			No	end-term Exar	m				
		1st		CHU LEITH EXd	11				
2nd	3rd	2nd							
Semeste r	Quarter	3rd							
		4th							

		5th							
		6th							
		7th							
		8th	N	o mid-term Exar	n				
		9th							
		10th							
		11th							
	4th	12th							
	Quarte	er 13th							
		14th							
	15th								
		16th No end-term Exam		n					
Evaluati	ion Me	ethod and	d We	eight (%)					
		Examinatio	n	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100		0	0	0	0	0	100
Basic Proficienc	:y	100		0	0	0	0	0	100
Specialize Proficienc	ed :y	0		0	0	0	0	0	0
Cross Are Proficienc	a	0		0	0	0	0	0	0

A	kashi Co	ollege		Year	2023	Course Title			ТОЕІСШ	
Course	Information	tion								
Course Co	ode	5511				Course Categor	γ	General /	Elective	
Class Forr	nat	その他				Credits		School Cr	edit: 3	
Departme	ent			d Computer Er ngineering Cou		Student Grade		5th		
Term		Year-rou	nd			Classes per We	ek	3		
Textbook Teaching		None								
Instructor	-	INOUE H	idet	oshi						
Course	Objectiv	es								
knowledg	e of Englis ws that the	h and the E	ngli	ish-speaking c	ultural backgroun	d. The student s	should	acquire 65	xam questions that require 0 or more points in the test, less communication within a	
Rubric										
			Ic	deal Level		Standard Level			Unacceptable Level	
1) cross-c and adapt		derstanding	cı cr ta re aı	The student has fostered cross- cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.			inderst iral ada m que dge of i-speal	anding aptability stions that English	The student has not fostered cross-cultural understanding and cross-cultural adaptability by tackling exam questions that require knowledge of English and the English-speaking cultural background.	
2) English knowledge Assigned Department Ob Teaching Method		Ei th al	he students h nglish knowled ne needs of ev llows business vithin a limited	The students has some English k fulfills the need and allows busi communication range.	nowled s of ev iness	lge that eryday life	The students have not acquired English knowledge that fulfills the needs of everyday life and allows business communication within a limited range.			
Assigne	d Depar	tment Ob	jec	tives						
Teachin	g Metho	d								
Outline		KOSEN (The ability to establish a problem and find the appropriate solution to this problem is a skill necessary at KOSEN (higher education institution). A skill required to live through the 21st century. The students that entered KOSEN need to acquire these skills at an early stage. In this course, the students will learn methods of self-learning and autonomously learning, and not "study" as they have learned at junior high school. Also, while cooperating with colleagues, the students will learn the process of problem discovery and resolution.							
Style					ccording to tests			•		
To apply for the credits is necessary the t period stipulated by the students' affairs period will not be accepted. The indicator TOEIC (Test of English for International C Public Institution (Educational Testing Se Through this test, the student will aim to English. The test score is also useful for t					udents' áffairs off d. The indicator of International Cor onal Testing Servi dent will aim to im	ice. Applications English commu nmunication), a ce), which has tl pprove his or her	withou nicatio test de he larg	ut the test on capabilit eveloped b jest scale a	scores or after the application y will be measured utilizing y the US Test and Development and know-how in the world.	
Charact	eristics o	of Class /	Div	vision in Lea	arning					
Active	Learning			Aided by IC			o Rem	ote Class	Instructor Professionally Experienced	
Course	Plan									
			The	me			Goals			
		1st								
		2nd								
		3rd 4th								
	1st Quarter	5th								
		6th								
		7th								
1st			No r	mid-term Exar	n					
Semeste r		9th								
		10th								
		11th								
	2nd	12th								
	Quarter	13th								
		14th 15th								
			Nor	end-term Exar	n					
		15001 1st								
2nd	3rd	2nd								
Semeste r	Quarter	3rd								
		4th								

		5th							
		6th							
		7th							
		8th	N	o mid-term Exa	n				
		9th							
		10th							
		11th							
	4th	12th							
	Quarte	er 13th							
		14th							
	15th								
		16th No end-term Exam		n					
Evaluati	ion Me	ethod and	d We	eight (%)					
		Examinatio	n	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		100		0	0	0	0	0	100
Basic Proficienc	:y	100		0	0	0	0	0	100
Specialize Proficienc	ed :y	0		0	0	0	0	0	0
Cross Are Proficienc	a	0		0	0	0	0	0	0

Course Information Course Code 5512 Course Category General / Elective Class Format Practical training Credits School Credit: 1 Department Electrical and Computer Engineering Course Student Grade 5th Term Year-round Classes per Week 1 Textbook and/or Textbook and/or Instructor All faculty of the department Course Objectives Instructor All faculty of the department Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Rubric Rubric Ideal Level Standard Level Unacceptable Level Achievement 1 Can fully make efforts to increase knowledge and skills through participating in training overseas. Cannot make efforts to increase knowledge and skills through participating in training overseas. Cannot make efforts to increase knowledge and skills through participating in training overseas. Cannot develop a broad perspective by participating in training overseas. Achievement 2 Can fully develop a broad perspective by participating in traini							
Class Format Practical training Credits School Credit: 1 Department Electrical and Computer Engineering Computer Engineering Course Student Grade 5th Term Year-round Classes per Week 1 Textbook and/or Teaching Materials Instructor All faculty of the department Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Standard Level Unacceptable Level Rubric 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. Can 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. Can not make efforts to increase knowledge and skills through participating in training overseas. Can not develop a broad perspective by participating training in different cultures. Achievement 2 Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating training in different cultures. Can communicate with people involved in the local area smoothly using							
Department Electrical and Computer Engineering Computer Engineering Course Student Grade 5th Term Year-round Classes per Week 1 Textbook and/or Teaching Materials Instructor All faculty of the department Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Unacceptable Level Rubric Ideal Level Standard Level Unacceptable Level Achievement 1 Can fully make efforts to increase knowledge and skills through participating in training overseas. Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating in training in different cultures. Cannot develop a broad perspective by participating in training in different cultures. Cannot develop a broad perspective by participating in training in different cultures. Achievement 3 Can fully communicate with people involved in the local area smoothly using English, etc. Can communicate with people involved in the local area using English, etc. Cannot communicate with people involved in the local area smoothly using English, etc.							
Department Computer Engineering Course Student Grade Stu							
Textbook and/or Teaching Materials Instructor All faculty of the department Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Ideal Level Unacceptable Level Rubric 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. Cannot make efforts to increase knowledge and skills through participating in training overseas. Achievement 2 Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating in training in different cultures. Cannot develop a broad perspective by participating in training in different cultures. Achievement 3 Can fully communicate with people involved in the local area smoothly using English, etc. Can communicate with people involved in the local area using English, etc.							
Teaching Materials Instructor All faculty of the department Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Rubric 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. Cannot make efforts to increase knowledge and skills through participating in training overseas. Achievement 2 Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating in training in different cultures. Cannot develop a broad perspective by participating in training in different cultures. Achievement 3 Can fully communicate with people involved in the local area using involved in the local area using English, etc. Can communicate with people involved in the local area using English, etc.							
Course Objectives (1) Can make efforts to increase knowledge and skills through participating in training overseas. (2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. Rubric Achievement 1 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. Cannot make efforts to increase knowledge and skills through participating in training overseas. Achievement 2 Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating in training in different cultures. Achievement 3 Can fully communicate with people involved in the local area smoothly using English, etc. Can communicate with people involved in the local area using English, etc.							
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(2) Can develop a broad perspective by participating in training in different cultures. (3) Can communicate with people involved in the local area using English, etc. (3) Can communicate with people involved in the local area using English, etc. English, etc. Rubric 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. Can not make efforts to increase knowledge and skills through participating in training overseas. Achievement 2 Can fully develop a broad perspective successfully by participating in training in different cultures. Can develop a broad perspective by participating in training in different cultures. Cannot develop a broad perspective by participating in training in different cultures. Achievement 3 Can fully communicate with people involved in the local area is moothly using English, etc. Can communicate with people involved in the local area using English, etc. Cannot communicate with people involved in the local area using English, etc.							
Ideal LevelStandard LevelUnacceptable LevelAchievement 1Can 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.Can not make efforts to increase knowledge and skills through participating in training overseas.Cannot make efforts to increase knowledge and skills through participating in training overseas.Cannot make efforts to increase knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Cannot make efforts to increase knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Cannot make efforts to inc knowledge and skills through participating in training overseas.Achievement 2Can fully develop a broad perspective successfully by participating in training in different cultures.Can communicate with people involved in the local area using English, etc.Cannot communicate with people involved in the local area using English, etc.							
Achievement 1Can 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.Can make efforts to increase knowledge and skills through participating in training overseas.Can not make efforts to increase 							
Achievement 1increase knowledge and skills through participating in training overseas.knowledge and skills through participating in training overseas.knowledge and skills through participating in training overseas.Achievement 2Can fully develop a broad perspective successfully by participating in training in different cultures.Can develop a broad perspective by participating in training in different cultures.Cannot develop a broad perspective by participating in training in different cultures.Cannot develop a broad perspective by participating in training in different cultures.Cannot develop a broad perspective by participating in training in different cultures.Cannot develop a broad perspective by participating in training in different cultures.Cannot develop a broad perspective by participating in training in different cultures.Achievement 3Can fully communicate with people involved in the local area smoothly using English, etc.Can communicate with people involved in the local area using English, etc.Cannot communicate with people involved in the local area using English, etc.							
Achievement 2perspective successfully by participating in training in different cultures.can develop a bload perspective by participating in training in different cultures.can develop a bload perspective by participating in training in different cultures.Achievement 3Can fully communicate with people involved in the local area smoothly using English, etc.Can communicate with people involved in the local area using English, etc.Can communicate with people using English, etc.							
Achievement 3 people involved in the local area smoothly using English, etc. involved in the local area English, etc. people involved in the local using English, etc.							
Assigned Department Objectives							
Teaching Method							
Outline The objectives of this course are to develop the ability to think things from various perspectives and to communicate through a variety of training experiences overseas. The training can be carried out during summer vacation, etc. The number of days for the training must be more than five days. This course's content will amount to over 45 hours in total. These hours include training overseas, preliminary guidance (manner lesson, preliminary research on the training destination), debrief session, and self-study time for preparing reports to be submitted to relevant institutions, etc.							
Style Pre-orientation, on-site training, and debriefing							
Notice Students are required to keep in close contact with their class teacher or supervisor. During the training, students are required to actively engage and communicate with the local people and act appropriately as trainee, including their clothing and language. No conditions for missing classes that will not be eligible for a passing grade.							
Characteristics of Class / Division in Learning							
☑ Active Learning ☑ Aided by ICT ☑ Applicable to Remote Class □ Instructor Professionally Experienced							
Course Plan							
Theme Goals							
1st l							
2nd							
3rd							
1st 4th							
Quarter 5th							
6th							
7th							
1st 8th Semeste							
r 9th							
10th							
11th							
2nd 12th Quarter 13th							
14th							
15th 16th No final exam							
16th No final exam							
2nd							
2rd							
2nd 3rd 4th							
r Quarter Sth							
6th							
7th							

		8th					
		9th					
		10th					
		11th					
	4th	12th					
	Quarter	13th					
		14th					
		15th					
		16th	No final exam	o final exam			
Evaluati	ion Meth	od and W	/eight (%)				
			Report		Presentation		Total
Subtotal		50			50		100
Basic Prof	asic Proficiency 0			0		0	
Specialize	ed Proficier	псу	0		0		0
Cross Are	a Proficier	ю	50		50		100

Akashi Col	lege	Year	2023		Course Title	Intellectual Property Rights		
Course Informati	ion		•					
Course Code	5513			Course Category	Specialize	ed / Compulsory		
Class Format	Lecture			Credits	School C	redit: 1		
Department		and Computer E r Engineering Co		Student Grade	5th			
Term	First Sem	nester		Classes per Week	2			
Textbook and/or Teaching Materials								
Instructor	MORISAD	DA Yuji						
Course Objective								
foreign). (2) Acquire the know research and develop (3) Understand the fl are in when commun (4) Understand the ir an expert to do it. (5) Can acquire the c	vledge to d oment offic low of app nicating wit mportance	emonstrate appro er in a university lication procedure h a patent attorn of investigation,	opriate intellectual or company, and es (in Japan and o ey or the Japan P and can decide w	l property manage can take the lead ther countries), ar atent Office (releva hether to conduct	ment capabilit within an orga d understand ant organizatio all of the inve	which stage of the procedure they ons). stigation by themselves or to ask		
Rubric				i				
		Ideal Level		Standard Level		Unacceptable Level		
Achievement 1		Understand an others the syst intellectual pro Japan and othe	perty rights in	Understand and c others the system intellectual prope Japan.	ns of '	Cannot explain to others the system of intellectual property rights in Japan and other countries.		
Achievement 2		an organization	opropriate perty apabilities within	Can explain the k demonstrate app intellectual prope management cap an organization.	ropriate rty	Cannot explain the knowledge to demonstrate appropriate intellectual property management capabilities within an organization.		
Achievement 3	ent 3 Understand the flow of application procedures and what stage of the process they are in when communicating with a patent attorney or the Japan Patent Office. Understand the flow of application procedures.							
Achievement 4		investigation, a whether to con	duct all of the themselves or	Can understand the importance of investigation and can determine the need for investigation.		Do not understand the importance of investigation.		
Achievement 5		Can use the co necessary to co investigation th actually investi	nemselves, and	Can explain the c literacy necessary investigation ther	/ to conduct	Cannot acquire the computer literacy necessary to conduct investigation themselves.		
Assigned Departi	ment Ob	jectives		•				
Teaching Method	1							
	rights, co 2) Metho rights)	pyright, etc.) dologies for intell	ectual property m	anagement for res	searchers and	hts, design rights, trademark developers (focusing on patent pregistration, and after		
Outline	 3) Flow of application procedures, etc. (explain the flows from application to registration, and after registration) 4) Flow of international application procedures, etc. (explain respective organizations and the flow after application, focusing on the PCT international patent application system) 5) Matters related to investigation on intellectual property rights: Lectures and exercises (explain the purpose of investigating patents, utility models, designs, and trademarks, and research tools; also do search exercises using the online J-PlatPat platform). This course will be taught by instructors who have experience in the procedures and consultation services relating to intellectual property rights in general. 							
Style	It involve The class appropria	s will be carried o	ents, designs, cop ut mainly with lec	oyrights, etc. tures, and there w	vill be PC-base	d research exercises, etc. as		
Notice	etc.) that rights for develop a Students	t they or their frie it. Students shou habit of thinking who miss 1/3 or	nd/acquaintance uld be interested i 1.	researched and de n news related to vill not be eligible f	eveloped, how intellectual pro	that there is a creation (invention, they can protect it and pursue operty rights on a daily basis, and		
Characteristics of	f Class /	Division in Le	arning					
☑ Active Learning		□ Aided by IC		☑ Applicable to F	Remote Class	☑ Instructor Professionally Experienced		
Course Plan								
		Theme		G	oals			
				U				

		1st	Summary of intel	lectual property r	ights	Understand ar rights.	overview of in	tellectual property	
		2nd	Patents I			Understand th	the patent (reg	patent system, its istration)	
		3rd	Patents II			Understand how to judge novelty and inventiveness.			
	1st	4th	Patents III			Understand th strong patent	e process of cre invention from	eating a broad and ideas.	
	Quarter	5th	Patents IV			Understand th inventions.	e flow of proce	dures and employee	
		6th	Patents V / Interr system and pater			Understand ne	ecessary of app	lying International	
		7th	Utility model I	,				utility model, its requirements, etc.	
		8th	Investigating pate	ents and utility m	odels		nd implement m patents and utili		
1st Semeste		9th	Design rights I				atents and utilit e outline of the	y models. design registration	
r		10th	Designs 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 pr case of creation	ecautions directly n of soy sauce with	
	2nd Quarter	12th	Copyrights I			(works, copyri		copyright law hts, related rights, estrictions, etc.).	
		13th	Copyrights II			Understand th copyright Q&A	e infringement	of rights, and	
		14th	Unfair Competition Prevention Act, geographical Indications, etc.			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 (%)	_	1				
	E	xamination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	1	00	0	0	0	0	0	100	
Basic Proficienc	.y 0		0	0	0	0	0	0	
Specialize Proficienc	ed 2y 1	00	0	0	0	0	0	100	
Cross Are Proficienc			0	0	0	0	0	0	

A	kashi Co	ollege	Year	2023		Cour Title		Computer Simulation	
Course 2	Informat	tion							
Course Co		5514			Course Category	· · · ·		· · · ·	
Class Forr	nat	Lecture	re Credits School Credit: 1						
Departme	nt	Comput	er Engineering Co		Student Grade				
Term		Second	Semester		Classes per Wee	Veek 2			
Textbook Teaching	and/or Materials								
Instructor		ОНМИК	AI Masato						
Course	Objectiv	es							
2. Can de	plain the r scribe a so	eason why plution met	numerical calcula hod (algorithm) o	tions yield errors. n basic math prob	lems.				
Rubric									
			Ideal Level	e method so as to	Standard Level			Unacceptable Level	
Achievem	ent 1			rors on numerical		rical calcul	ations	Cannot explain the reasons why major errors on numerical calculations occur.	
						Cannot explain the method (algorithm) of finding solutions to problems.			
Assigne	d Depar	tment Ol	ojectives						
Teachin	g Metho	d							
Outline		conduct reprodu- the cont simulation	computer-based e ce and observe, to ents. In classes, v	experiments on sin identify the chara ve will introduce the and practice the	mple models of n acteristics of the he basic concepts	atural and phenomer s and the l	l socia non ar atest	he aim of this course is to I phenomena that are difficult to Ind to deepen the understanding of examples of modeling and enges by programming and	
Style		Lectures In additi choosing Exercise Students presenta	g. is are supposed to s will be evaluated ations.	l through handout its learned in class build a system to l on assignment p	s. ses, they will per help students in rogress and the v	their own work prodi	gradu uced c	luring the exercises, and	
Notice		Probabil	ity and Statistics, ces during the clas	Irse is built on the content of Data Structures and A and Statistics, it's recommended that students rev during the classes. who miss 1/3 or more of classes will not be eligible				nputer Programming, and books, materials, etc. as	
Charact	eristics o	of Class /	[/] Division in Le	arning	1			1	
Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote (Class	Instructor Professionally Experienced	
0									
Course	Plan		-			<u> </u>			
			Theme			Goals Understan	d the	objectives and the grading	
		1st	Introduction		I	method, e	tc. of	the course.	
		2nd	Algorithms, calcu	lations and recurre	ence relations	algorithms Can derive	e and space complexity of e) complexity of some algorithms. rrence relations which give blems.		
		3rd	Repetitive metho	ds		Can derive solutions c	repet	titive methods which give	
	3rd Quarter	4th	Errors, loss of sig	nificance, data los	s (Can explai in numeric	n the al calo	cause of phenomena that occurs culations, such as truncation gnificance, data loss	
2nd Semeste		5th	Nonlinear equatio	ins)	Can explai method ,a	n the nd fals	Newton method, the bisection se position method	
r		6th	Simultaneous equ	lations 1	(n algo	orithms of Gaussian elimination	
		7th	Simultaneous equ	lations 2	(Can explai and SOR n	n algo nethoo	rithms of Jacobi, Gauss-Seidel d.	
		8th	Exercise			Exercise of the sem		contents of classes in the first half	
		9th	Eigenvalue		(Can explai methods f	n algo or obt	rithms of Jacobi and the power aining eigenvalues of matrices.	
	4th Quarter	10th	Interpolation of fu	unctions		Can explai linear inter interpolatio	n linea polati on.	ar interpolation, Newton forward on and lagrange linear	
		11th	Method of least s			Interpolation and lagrange linear interpolation. Can explain the method of least squares.			

		12th	Numerical differentials		Can calculate first and second order numerical differentials with forward, central and backward formulas. Can calculate first order numerical differential with laglange interpolation.		
		13th	Numerical integrals		Can calculate nur trapezoidal and S	nerical integrals with rectangle, impson's rule.	
		14th	Initial value problem and Boundary of ordinary differential equations	v value problem	Can explain algorithms of Euler, Heun's and Runge-Kutta method for the Initial value problem. Can explain an algorithm of finite-dfference method for the boundary value problem.		
		15th	Review		Review the conte of the semester.	nt of classes in the second half	
		16th	Final exam				
Evaluatio	on Metho	od and V	Veight (%)				
			Examination	Exercise		Total	
Subtotal	Subtotal		70	30		100	
Basic Profi	iciency		0	0		0	
Specialized	d Proficienc	су	70	30		100	
Cross Area	a Proficienc	су	0	0		0	

A	Akashi College Year 2023						Graduation Th	esis	
Course	Informa								
Course Co	ode	5515			Course Categor		alized / Compulsory		
Class Forr	nat	Seminar			Credits	Schoo	l Credit: 9		
Departme	ent	Compute	l and Computer Ener Engineering Cou	ngineering urse	Student Grade				
Term		Year-rou	ind		Classes per We	eek 前期:6	5 後期:12		
Textbook Teaching									
Instructor	-	All facult	y of the departme	ent					
(1) Can se systemati (2) Maste design an (3) Can d (4) Can re research.	cally and p r data pro- d theoretic evelop self ead and ur ummarize	rch topic or practically ficessing tec cal analyses f-learning anderstand J	rom a broader per hnologies and the S. bilities to continuc apanese and Engl	spective. theories and met ously explore thin ish technical pape	hods of informat gs. ers related to the	tion transfer, e research top	eering, and find and s and can apply them t pic and use them for t ers through a presenta	o various heir own	
Rubric									
			Ideal Level		Standard Level		Unacceptable Le	evel	
Achievem	ent 1		topic on their o and integrating of engineering, solve problems		Itheir own by an	oplying and ic knowledge nd find and so matically and	olve engineering, or t	blying and knowledge of find and solve natically and	
Achievem	ent 2		Deeply master technologies ar and methods o	data processing nd the theories f information an apply them to and theoretical	Master data pro technologies ar and methods o transfer, and ca various design analyses.	nd the theorie f information an apply ther	Cannot master of technologies and and methods of n to transfer, or appl	the theories information them to	
Achievem	ent 3		Can develop se abilities to cont accurately expl	inuously and	Can develop se abilities to cont things.	elf-learning inuously exp	Cannot develop ore abilities to contir things.	self-learning nuously explore	
			Can read and c understand Jap English technic to the research them appropria own research.	anese and al papers related topic and use	Can read and u Japanese and E papers related topic and use t own study.	English techni to the resear	ch to the research t	l papers related topic, or	
			results obtained papers, and action them to others	papers, and accurately convey them to others through a presentation to have a deep			results obtained	as technical by them to a presentation	
Assigne	d Depar	tment Ob	ojectives						
Teachin	g Metho	d							
Outline		learning solve pro	up to the 4th yea	r and the basic kr and continuouslv	owledge gained by taking appro	through Prel	h topics based on the iminaries to Graduatic ach. Another aim is to	on Thesis, and	
Style		documer	on Thesis class is nt research, exper nese laboratories.	conducted by sev iments, simulation	eral faculty menns, examinations	nbers (labora s, etc. under	tories). Students will the guidance of their s	work on supervisor at	
Notice		If they c	e expected to freque annot conduct res on from the super s who spend less t	earch during the visor.	hours of Gradua	tion Thesis cl	ass, transfer to other	hours with	
Charact	eristics of		Division in Lea						
☑ Active		/	☑ Aided by IC		☑ Applicable to	o Remote Cla	ss	ofessionally	
Course	Dlan								
Course	r 1ai 1		Theme			Goals			
		1st	Graduation resear	rch		Can indepen	dently conduct docum , simulations, examina or.		
1st Semeste	1st	2nd	Same as above			Same as abo			
r	Quarter	3rd	Same as above			Same as abo	ve		
		4th	Same as above			Same as abo	ve		
		5th	Same as above			Same as abo	ve		

		6th	Same as abo	ve		Same	as above		
		7th		ame as above Same as above Same as above					
		8th	Same as abo				as above		
		9th	Same as abo				as above		
		10th	Same as abo			Same as above			
		11th	Same as abo				as above		
	2nd	12th	Same as abo	ve		Same	as above		
	Quarter	13th	Same as abo	ve		Same	as above		
		14th	Same as abo				as above		
		15th	Same as abo	ve		Same	as above		
		16th	No final exan						
		1st	Graduation research			experi	ndependently conduct iments, simulations, ex ipervisor.	document research, xamination, etc. under	
		2nd	Preparation f graduation re	for the interim presentation of the research			reate posters and hand n presentation of the g	douts to use in the graduation research.	
		3rd	Interim prese	entation of the graduation research			resent the research re rs.	sults so far using	
	3rd Quarter	4th	Graduation re	esearch		exper	Can independently conduct document research, experiments, simulations, examination, etc. under the supervisor.		
	5th Same as ab		ve		Same	as above			
	7th Sar		Same as abo	ve		Same	as above		
Jand			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	uation thesis		Can compile the results of the graduation research and write a graduation thesis.			
		11th	Same as abo	ve		Same	Same as above		
		12th	Same as abo	ve		Same	Same as above		
	4th Quarter	13th	Preparation f presentation	or the graduation rese	earch	Can create a resume to hand out in the graduation research presentation.			
		14th	Same as abo	ve		Can create slides to use in the graduation research presentations.			
		15th	Graduation research presentation				Can use slides to present the results of the graduation research orally and answer questions appropriately.		
		16th	No final exan	n					
Evaluati	ion Meth	od and	Weight (%)	1					
	Initiatives			Interim report	Graduation the	esis	Graduation meeting for presenting research papers	Total	
Subtotal		10		20	50		20	100	
Basic Prof	ficiency	0		0	0		0	0	
Specialize Proficienc	ed Sy	10		20	50		20	100	
Cross Are Proficienc		0		0	0		0	0	

A	kashi Co	ollege	Year	2023		Course Title	Probability and Statistics			
Course	Informat	tion								
Course Co	ode	5516			Course Category Specialized / Compulsory					
Class Forr	nat	Lecture	Credits Academic Credit: 2 I and Computer Engineering Student Crede Fth							
Departme	nt	Compute	r Engineering Cou		Student Grade	5th				
Term	17	First Sem	lester		Classes per We	ek 2				
Textbook Teaching										
Instructor			ADA Yukihiro							
[1] Can or [2] Under [3] Under [4] Under [5] Can m	stand the stand the nake statis	and 2-dime concept of p concept of p	probability distrib statistics and car tes.	n calculate the pr ution and can cak n calculate basic s	culate the amou	event. nt of samples.				
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
Achievem	ent 1		Can correctly c variance, covar correlation coe create a histog	riance, and fficient and	Can calculate n covariance, and coefficient and histogram.	nean, variance, d correlation	Cannot calculate mean, variance, covariance, and correlation coefficient and create a histogram.			
Achievem	ent 2		Can correctly c probability and probability of a determine the the event corre	conditional n event, and independence of	Can calculate t and conditional event, and dete independence of	l probability of ermine the	Cannot calculate the probability and conditional probability of an event, and determine the independence of the event.			
Achievem	ent 3		Can correctly c probability of a binomial distrib distribution, an distribution.	alculate the n event under oution, Poisson	Can calculate to an event under distribution, Po distribution, an distribution.	r binomial Jisson	of Cannot calculate the probability of an event under binomial distribution, Poisson distribution, and normal distribution.			
Achievement 4 populations and can correctly calculate sample mean, sample campile mean, sample campile mean c						variance, and unbiased				
Achievem	ent 5		Can accurately estimation and estimation.		Can make poin interval estima	t estimation ar tion.	d Cannot make point estimation and interval estimation.			
Achievement 6			Can accurately population mea population vari	on mean and the land the population			Cannot test the population mean and the population variance.			
Assigne	d Depar	tment Ob	ectives							
	g Metho									
Outline		The purp around u	s, explain what h	appened based or	n the pattern, ar	nd estimate the	n various coincidence that occurs whole from the part. In this			
Style		Each wee		the basics of pro alternate between			t the content you will learn for the			
Notice		guarante reports. assignme calculus. Students	ed in classes and There will be two ents involves prog Try to solve the o who miss 1/3 or	the standard self assignments, and gramming in C. St questions or exerce more of classes v	-study time requ both of them n udents should h	uired for review nust be submit ave a prior kno	rs include the learning time and completing assignment ted by the due date. One of the wledge of linear algebra and e it against the answer. n.			
Charact	eristics o	of Class /	Division in Le	arning	1					
□ Active	Learning		☑ Aided by IC	Т	☑ Applicable t	o Remote Class	□ Instructor Professionally Experienced			
Course	Plan					í				
			Гһете			Goals				
		1st (Course guidance	and 1-dimensiona	l data 1/2	the course. Ca	e objectives and grading method of in create a frequency distribution stogram of the data.			
		2nd :	L-dimensional dat	ta 2 of 2		Can calculate	mean, median, mode, variance, and ation of the data.			
1st Semeste	1st Quarter	3rd 2	2-dimensional dat	ta		Can calculate	the correlation coefficient and of 2-dimensional data.			
r	<u> </u>	4th [Discrete probabili	ty		3	e meaning and nature of trials,			
		5th (Conditional proba	bility and Bayes' t	heorem	Can calculate determine who	conditional probability and ether two events are independent. ain Bayes' theorem.			

-									
		6th	Probability var	iables and distribut	ion	ldiscrete proba	bility distributic probability var	ity variables and ons. Also, can explain iables and the	
		7th	Mean and vari	ance of probability	variables	Can calculate variables.	mean and varia	ance of probability	
		8th	Midterm exam It is given dur						
		9th	Binomial distri	bution and Poisson	distribution	Can explain the binomial distribution and Poisson distribution and can calculate their means and distributions.			
		10th	Normal distrib	ution		Can explain and use normal distribution. Also, ca explain the relationship between binomial distribution and normal distribution.			
		11th	Sample distrib	Sample distribution			opulation, samp ce, unbiased-va s, and central li	ple, sample mean, ariance, the law of mit theorem.	
	2nd	12th	Central limit th	ntral limit theorem			ormal populatio	n and central limit	
	Quarte	13th	Various probal	bility distributions		theorem. Can explain the chi-squared distribution and t- distribution.			
	14th		Estimation and test 1 of 2			Can perform interval estimation of population mean when the population variance is known an unknown. Also, can explain what we claim by statistical tests.			
		15th	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 examinat	tion					
Evaluat	ion Me	thod and	Weight (%)						
	E	Examination	n Task	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal	8	30	20	0	0	0	0	100	
Basic Proficienc	cy ()	0	0	0	0	0	0	
Specialize Proficienc	cialized on		20	0	0	0	0	100	
Cross Are Proficienc)	0	0	0	0	0	0	

А	kashi Co	ollege	Year	2023		Course Title	Information Theory	
Course	Informa	tion						
Course Co		5517			Course Category		ed / Compulsory	
Class For	mat	Lecture			Credits	School C	redit: 1	
Departme	ent	Compute	and Computer E r Engineering Co		Student Grade	5th		
Ferm	17	First Sen	nester		Classes per Wee	k 2		
Textbook Teaching	and/or Materials	使用しない	ハ(適宜資料を配布	する)。				
Instructo	r	NAKAI Y	uichi					
Course	Objectiv	'es						
(2) 様々な (3) 符号の (4) Shanr (5)通信路	に 「 報題 し で あ の で あ し に で あ し で あ し 行 に 行 に う で 見 し 符 一 に つ に う で し 行 一 に つ に う で し 行 一 に つ に う で し 行 一 こ つ の の の の の の 一 に つ の の の の の 一 に つ の の の の の の の の の の の の の	E義、各々の「 言が満たすべき 定理とその意	育報源のエントロヒ き条件を理解し、平 義を理解する。 ≿種類があるか。ま	当性はどう保証さご 一の意味を理解し 均符号長とその限 たどのような形式で	れるかを理解する。 、それを導出できる 界を導出できる。 で表現できるのかを ³	理解する。		
Rubric	0.1199/15—70							
			理想的な到達レ	ベルの目安	標準的な到達レベ	ルの目安	未到達レベルの目安	
評価項目1			情報の量はどの。	ように定義される 当性はどう保証さ	情報の量はどのよ か、またその妥当 れるかを説明でき	性はどう保証さ	情報の量はどのように定義される か、またその妥当性はどう保証さ れるかを説明できない。	
評価項目2			様々な情報源の 源のエントロピー 、それを的確に	定義、各々の情報 一の意味を理解し 導出できる。	様々な情報源の定 源のエントロピー 、それを導出でき	義、各々の情報 の意味を理解し る。	様々な情報源の定義、各々の情報 源のエントロピーの意味を理解で きない。	
評価項目3			符号の種類と符件を理解し、平 界を的確に導出	号が満たすべき条 均符号長とその限 できる。	符号の種類と符号 件を理解し、平均 界を導出できる。	が満たすべき第 符号長とその限	谷号の種類と符号が満たすべき条件、平均符号長とその限界を理解できない。	
評価項目4			Shannonの第一 的確に説明でき	定理とその意義を る。	Shannonの第一定 説明できる。	理とその意義を	 Shannonの第一定理とその意義を 説明できない。 	
評価項目5	i		類があるか、また	ありどのような種 たどのような形式 かを具体的に説明	通信路とは何であ 類があるか、また で表現できるのか	どのような形式		
評価項目6	1		Shannonの第二 に説明できる。	定理の意義を的確	Shannonの第二定 できる。	2理の意義を説明	B Shannonの第二定理の意義を説明 できない。	
Assigne	d Depar	tment Ob	jectives					
Teachin	ng Metho							
Outline		C.E. Shat は通信シン の定量化が 述べる。	nnonを創始者とす ステムにおいて、帽 から始まりShanno	る情報理論における 「報を「速く」かつ nの第一定理までを	5成果は現代生活には 「正確に」伝送する :説明する。後半は述	おいてなくては ために必要な知 通信路の定義から	ならないものとなっている。本講義 識について説明する。前半では情報 5始まりShannonの第二定理について	
Style		- 1	を用いた講義形式て	ご授業を行う。練習	問題を課すので、自	日分の理解の程度	を確認するために積極的に取り組む	
Notice		確率、統	計の知識を前提で講 象としない欠席条件	議を行うのでこれ ⊧(割合) 1/3以上の	らの事項に関してよ の欠課	く理解しておく	こと。	
Charact	eristics	of Class /	Division in Le	arning	1		1	
Active	Learning		□ Aided by IC	Т	☑ Applicable to	Remote Class	 Instructor Professionally Experienced 	
Course	Dlan							
Course		ŀ	Theme		c	Goals		
			inenie 通信システムのモラ	デル	1	青報理論で想定す	する通信システムのモデルについて訪	
			無記憶情報源とエン		- 「 」	D内部構造を探る	量化かできる。 原である無記憶情報源の説明と情報源 5手がかりとなるエントピーについて	
		3rd	マルコフ情報源とコ	エントロピー	Į	説明できる。 見実の情報源に。 Eントロピーの薬	より近いマルコフ情報源の説明とその 算出ができる。	
1 - 4	1st Quarter	4th	符号とは		谷	待号の定義を行い こついて説明でき	^{身山かてさる。} へ、符号が満たすべきいくつかの条件 きる。平均符号長の定義と瞬時に復号 り符号長の限界について説明できる。	
1st Semeste 5th		5th	Shannonの第一定引	理	9		定理の式とその意義についての説明 ⁻	
·	1	6th	Huffman符号		-		を構成できる符号化法として 構成できる。	
·		ouri						
·		7th	通信路		ji	通信路の定義、そ	その表現方法について説明できる。	
r		7th	通信路 中間試験					
r	2nd Quarter	7th			រដ្ឋា <u>រ</u>	通信路を介して信 互情報量について	気送される情報について定義される相	

		11th	通信路容量			相互情報量の考察 明できる。	から導かれる	通信路容量の定義を説		
		12th	通信路の信頼性向上			通信路を介しての る方法について説	通信路を介しての情報伝送において信頼性を向上させ る方法について説明できる。			
		13th	誤り率と判定規	呉り率と判定規則			通信路における誤り率を小さくするための判定規則に ついて説明できる。			
		14th	Shannonの第二	二定理		二元対称通信路に きる。	対するShann	onの第二定理を説明で		
		15th	通信路符号化			いくつかの通信路 きる。	いくつかの通信路符号化について、その原理を説明で きる。			
		16th	期末試験							
Evaluati	on Me	ethod and	Weight (%)							
		試験	発表	相互評価	態度	ポートフォリオ	その他	Total		
Subtotal		100	0	0	0	0	0	100		
基礎的能力	J	0	0	0 0 0			0	0		
専門的能力	J	100	0	0 0 0			0	100		
分野横断的]能力	0	0	0	0	0	0	0		

Akashi College Year 20 Course Information			2023			ourse Title	Compiler		
Course	Informat	tion							
Course Co	ode	5518				Course Catego	ry	Specialize	ed / Compulsory
Class For	mat	Lecture				Credits		School C	redit: 1
Departme	ent	Comput	er Er	d Computer Er ngineering Cou		Student Grade		5th	
Term		First Sei	nest	er		Classes per We	ek	2	
Textbook Teaching	Matérials								
Instructor		MIURA	Kinya	3					
Course Objectives The aim of this course is to gain the knowledge necessary to develop the compiler and to gain a better understandi programming language and the execution of the program. The specific goals are: [1] To understand the theoretical fundamentals and methods of lexical analysis [2] To understand the theoretical fundamentals and methods of syntactic analysis. [3] To understand the methods of semantic analysis and code generation. Learn these techniques to develop your compiler creation skills. By learning the theoretical fundamentals of these re the basic ability to design programming language and its compiler, and increase practical programming skills throug understanding of the execution of the program. Rubric								nentals of these methods, acquire	
RUDIIC			T	deal Level		Standard Level			Unacceptable Level
Achievem	ent 1		U a a	Inderstand the nd methods of nd can write a		Understand the basics and met analysis mostly program of ley mostly.	e theor hods c	f lexical can write a	Do not understand the theoretical basis and methods
Achievem	vement 2 vement 2 vem				hods of syntactic n write a	Understand the basics and tech parsing mostly program of syr mostly.	nniques , and c	s of an write a	Do not understand the theoretical fundamentals and techniques of syntactic analysis, and cannot write a program of syntactic analysis.
Achievem	ient 3		a a se		sis and code	Understand ser and code gene mostly and car of semantic ar generation mos	ration i write nalysis	techńiques a progran	Do not understand semantic analysis and code generation techniques, and cannot write a program of semantic analysis and code generation.
Assigne	d Depar	tment Ol	ojec	tives					
Teachin	g Metho	d							
Outline		level lan	iguad age (s var s tha	ge). The comp machine langu	iler is a software Jage) that the CP	that converts pr U can interpret a	ogram	s written ecute. In f	is highly human-readable (a high- in such a high-level language into this course, we will lecture anguages and the various ning languages into machine
Style		The lect required	ure i I. Als	s mainly based o, tasks will b kihiro Hamada	e assigned as app	of textbook, but propriate. We ha	should ive a p	l be supple ractical tra	emented with handouts if aining on 15th week. The contact
Notice		program	nmin or e	g II, data stru guivalent subj	ctures and algorit	hms, discrete m	athem	atics (finit	ers (assembly language), e automata, and formal language
Charact	eristics o	of Class /	/ Div	vision in Lea	arning				
Active	Learning		V	Aided by IC	r	Applicable t	o Rem	ote Class	 Instructor Professionally Experienced
Course	Plan	1							
			The	me			Goals		
		1st	Corr	npiler overview	V		the ge	xplain the eneral corr ure of the	theoretical model of the compiler, apilation process, and the compiler.
		2nd	Lexi	ical analysis 1	of 3		autom	iaton (FĀ)	llar expressions (RE) and finite as the theoretical basis of the al analysis).
1st Semeste Quarter 3rd Lexical analysis 2 of 3			of 3		lexical		finite automaton that accepts s expressed in regular		
r 4th Lexical analysis 3 of 3				of 3		state	transition		
		5th	Grai	mmar (Formal	language theory) 1 of 2	lin svn	tax definit Iso explair	nal language theory, in particular grammar (CFG) commonly used ions of programming language. BNF, extended BNF, and syntax

		6th	Grammar (Form	al language theo	ry) 2 of 2	the derivation	of the symbolic e leftmost/right	theory: Can explain c column, the most column, the f the grammar, etc.		
		7th	Midterm exam It is given durin	g class.		Can avalain requirity downward parsing				
		8th	Syntactic analys	is 1 of 3		Can explain recursive downward parsing, especially LL(1) parsing. Can also solve the problem of left recursion.				
		9th	Syntactic analys	is 2 of 3		Understand ar	nd can explain L	R parsing.		
		10th	Syntactic analysis 3 of 3			Can explain he and errors.	ow to handle ar	nbiguous grammar		
		11th Semantic analysis 1 of 2			map names to	the objects the ne resolution).	alysis and how to at represent in the Can also explain			
	12th		12th Semantic analysis 2 of 2				e handling of fo , type conversio	prward references, on, and error		
	Quarter	13th	Code generatior	Code generation 1 of 2			Define a model for a specific execution environment and can explain the generation of code corresponding to function calls. Can also explain how to allocate storage area for local variables, etc.			
		14th	Code generatior	1 2 of 2		Can explain how to generate codes for various statements and expressions.				
		15th	Practical training]		Can create a simple language processing system using "bison" and "flex".				
		16th	Final exam							
Evaluat	ion Me	thod and	Weight (%)							
	E	xamination	Task	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	8	0	20	0	0	0	0	100		
Basic Proficienc	cy O		0	0	0	0	0	0		
Specialize Proficienc		0	20	0	0	0	0	100		
Cross Are Proficienc		1	0	0	0	0	0	0		

L	Akashi College Course Information		Year	2023		Course Title	Software Engineering
Course	Information	tion					
Course Co	ode	5519			Course Category	Specialize	d / Compulsory
Class For	mat	Lecture			Credits	School Cr	edit: 1
Departme	ent		nd Computer Ei Engineering Cou		Student Grade	5th	
Term		First Seme	ster		Classes per Wee	k 2	
Textbook							
Instructor	Materials	TSUCHIDA	Takayuddi				
			Ιάκαγμκι				
[1] Can e [2] Can e [3] Can e	explain the explain the	process of so process of de need for proj	signing a syster ect managemer	system developme m according to us nt and its methods g quantitative inde	er requirements. 5 (WBS, PERT cha	rt, etc.).	
Rubric							
			Ideal Level		Standard Level		Unacceptable Level
Achievem	nent 1		Can fully explai software-centri development.	in the process of ic system	Can explain the p software-centric development.		Cannot explain the process of software-centric system development.
Achievement 2				in the process of stem according to ents.	Can explain the designing a syste user requiremen	em according to	Cannot explain the process of designing a system according to user requirements.
Achievement 3			Can fully explai project manage methods (WBS etc.).	ement and its	Can explain the management and (WBS, PERT cha	d its methods	Cannot explain the need for project management and its methods (WBS, PERT chart, etc.).
Assisted Department Ohi			Can fully explai quality control quantitative inc	using	Can explain the r control using qua values.		Cannot explain the need for quality control using quantitative index values.
Assigne	ed Depar	tment Obje	ectives				
Teachin	ng Metho	d					
Outline		experience	to teach in clas	peen developing an ss. The basics of s ints at the field wi	oftware developm	ftware in a com nent in theory w	pany will take advantage of their vill be taught using textbooks,
Style		/					
Notice	As the members performing group work will be					mly from studer	nts who had registered to the
		Students v	vho miss 1/3 ór	s of group work. more of classes v			
		Students v	vho miss 1/3 ór Division in Lea	s of group work. more of classes v arning	vill not be eligible	for a passing g	ade.
	teristics of terming	Students v	vho miss 1/3 ór	s of group work. more of classes v arning		for a passing g	ade.
☑ Active	e Learning	Students v	vho miss 1/3 ór Division in Lea	s of group work. more of classes v arning	vill not be eligible	for a passing g	ade.
☑ Active	e Learning	Students v Sf Class / D	vho miss 1/3 or Division in Lea Division by IC	s of group work. more of classes v arning	vill not be eligible ☑ Applicable to	for a passing g	ade.
	e Learning	Students v of Class / D	vho miss 1/3 or Division in Lea Division in Le	s of group work. more of classes v arning	vill not be eligible ☑ Applicable to	for a passing g Remote Class Goals	ade.
☑ Active	e Learning	Students v of Class / D Th 1st Th	vho miss 1/3 or Division in Lea Division in Le	s of group work. more of classes v arning T evelopment of sof	vill not be eligible Applicable to tware C	for a passing g Remote Class Goals Can raise at leas evelopment and	Tade.
☑ Active	e Learning	Students v of Class / D Th 1st Th 2nd Sc	vho miss 1/3 or Division in Lea I Aided by IC neme neme ne nature and do	s of group work. more of classes v arning T evelopment of sof	vill not be eligible Applicable to tware C C C C C C C C C C C C C	for a passing g Remote Class Goals Can raise at leas evelopment and Can list several of heir characteris Can talk about th	ade. ☐ Instructor Professionally Experienced t one aspect of software d its challenges and give reason. development process models and tics. he relationship and usefulness of
☑ Active	Plan	Students v of Class / D Th 1st Th 2nd Sc 3rd Re	vho miss 1/3 or Division in Lea Aided by IC neme ne nature and do oftware develop	s of group work. more of classes v arning T evelopment of sof	vill not be eligible Applicable to tware C C C C C C C C C C C C C C C C C C C	for a passing g Remote Class Goals Can raise at leas levelopment and can list several of heir characteris Can talk about the emand analysis Can talk about the can talk about the can talk about the	Tade. Instructor Professionally Experienced t one aspect of software d its challenges and give reason. development process models and cics. the relationship and usefulness of and prototyping. The dependencies between w and high module binding, and
☑ Active	e Learning	Students v of Class / D Th 1st Th 2nd Sc 3rd Re 4th Sc	vho miss 1/3 or Division in Lea Division in Lea Division in Lea Division division neme ne nature and division oftware develop equest Analysis	s of group work. more of classes v arning T evelopment of sof ment process	vill not be eligible Applicable to Control tware Control Contr	for a passing g Remote Class Coals Can raise at leas evelopment and can list several of heir characteris Can talk about th lemand analysis Can talk about th nodules with low an provides exa Can talk about p	Tade. Instructor Professionally Experienced t one aspect of software d its challenges and give reason. development process models and tics. the relationship and usefulness of and prototyping. the dependencies between v and high module binding, and imples of low module binding. rogramming techniques to ntamination and techniques to
☑ Active Course	Plan 1st	Students v of Class / D Th 1st Th 2nd So 3rd Re 4th So 5th Pr	vho miss 1/3 or Division in Lea Division division divisione divisione divisione di divisione di di divisione di di division	s of group work. more of classes v arning T evelopment of sof ment process d testing	vill not be eligible ✓ Applicable to tware C tware C C C C C C C C C C C C C C	for a passing gr Remote Class Goals Can raise at leas evelopment and can list several of heir characteris Can talk about the nodules with low an provides exa Can talk about the nodules with low an provides exa Can talk about p revent error co mprove test effic Can come up with	ade. ☐ Instructor Professionally Experienced t one aspect of software d its challenges and give reason. levelopment process models and tics. he relationship and usefulness of and prototyping. he dependencies between v and high module binding, and imples of low module binding. rogramming techniques to ntamination and techniques to ciency. th measures to ensure
Z Active	Plan 1st	Students v of Class / D Th 1st Th 2nd So 3rd Re 4th So 5th Pr 6th Te	who miss 1/3 or Division in Lea Division division divisione divisione divisione di divisione di di divisione di di divisio	s of group work. more of classes v arning T evelopment of sof ment process d testing	vill not be eligible ✓ Applicable to G tware C tware C C C C C C C C C C C C C C	for a passing gr Remote Class Coals Can raise at leas evelopment and can list several of heir characteris can talk about the mand analysis can talk about the nodules with low an provides exa Can talk about provervent error co mprove test effican come up with naintainability a	Tade. Instructor Professionally Experienced t one aspect of software d its challenges and give reason. development process models and tics. The relationship and usefulness of and prototyping. The dependencies between w and high module binding, and imples of low module binding. Trogramming techniques to ntamination and techniques to ciency.
Z Active Course	Plan 1st	Students v of Class / D Th 1st Th 2nd Sc 3rd Re 4th Sc 5th Pr 6th Te 7th Gr	who miss 1/3 or Division in Lea Division in Contraction in Contraction Division in Contraction in Contraction in Contraction Division in Contraction in Contraction in Contraction in Contraction Division in Contraction in Contrac	s of group work. more of classes v arning T evelopment of sof ment process d testing	vill not be eligible ✓ Applicable to G tware tware C C C C C C C C C C C C C C C C C C	for a passing gr Remote Class Goals Can raise at leas evelopment and Can list several of heir characteris Can talk about the mand analysis Can talk about the nodules with low an provides exa Can talk about provides	ade. □ Instructor Professionally Experienced t one aspect of software d its challenges and give reason. levelopment process models and cics. ne relationship and usefulness of and prototyping. ne dependencies between v and high module binding, and imples of low module binding. rogramming techniques to ntamination and techniques to ciency. th measures to ensure nd explain them. work assignment related to the n week 6 of the first half of the
☑ Active Course	Plan 1st	Students v of Class / D Th 1st Th 2nd Sc 3rd Re 4th Sc 5th Pr 6th Te 7th Gr 8th Mi	vho miss 1/3 or Division in Lea Division in Contraction in Contraction Division in Contraction	s of group work. more of classes v arning T evelopment of sof ment process d testing tenance	vill not be eligible Applicable to tware C tware C tware C C C C C C C C C C C C C C	for a passing gr Remote Class Goals Can raise at leas evelopment and can list several of heir characteris Can talk about the emand analysis Can talk about the nodules with low an provides exa Can talk about prevent error co prevent error co prevent error co prove test effi can come up with naintainability a singage in group ontent taught in emester. Check understar.	Tade.
Z Active Course	Plan 1st	Students v of Class / D Th 1st Th 2nd Sc 3rd Re 4th Sc 5th Pr 6th Te 7th Gr 8th Mi 9th Ol	who miss 1/3 or Division in Lea Division in Lea Division in Lea Division in Lea Division in Lea Division in Lea Division division Division and division Division division Division Division division Division division Div	s of group work. more of classes v arning T evelopment of sof ment process d testing tenance	vill not be eligible Applicable to tware C tware C C tware C C C C C C C C C C C C C C	for a passing gr Remote Class Coals Can raise at leas evelopment and can list several of heir characteris Can talk about the mand analysis Can talk about the modules with low an provides exa Can talk about the modules with low an provides exa Can talk about the modules with low an provides exa Can talk about the mervent error co mprove test effi Can come up with naintainability a ingage in group ontent taught in emester. Check understar f the semester. Can explain thing expressions class Can talk about the riented program	Tade.
Z Active Course	Plan Plan 1st Quarter 2nd	Students v of Class / D Th 1st Th 2nd Sc 3rd Re 4th Sc 5th Pr 6th Te 7th Gr 8th Mi 9th Ol 10th Ol	who miss 1/3 or Division in Lea Division in Company Division in Company Di Company Division in Compan	s of group work. more of classes v arning T evelopment of sof ment process d testing tenance	vill not be eligible Applicable to tware C tware C tware C C C C C C C C C C C C C C	for a passing gr Remote Class Coals Can raise at leas evelopment and can list several of heir characteris Can talk about the emand analysis Can talk about the mand analysis Can talk about the modules with low an provides exat Can talk about prevent error co nprove test effi Can come up with naintainability a ingage in group ontent taught in emester. Check understar f the semester, Can explain thin, xpressions class Can talk about the right about the can talk about the can talk about the can talk about the right about the can talk about the	rade. ☑ Instructor Professionally Experienced t one aspect of software d its challenges and give reason. development process models and tics. ne relationship and usefulness of and prototyping. ne dependencies between w and high module binding, and imples of low module binding. rogramming techniques to ntamination and techniques to ising of the content from first half gs around me using the and instance. ne characteristics of object- nming. Can talk about the

		13th	Project Managen	nent, Quality con	trol	Can state the Can talk abou	importance of t quality contro	project management. I techniques.		
		14th Development size and estimate o			f software	Can talk about the method for estimating the of software development.				
		15th	Group work				Engage in group work assignment related to the content taught in week 6 of the second half of the semester.			
		16th	Final exam			Check unders half of the ser	tanding of the c mester.	content from second		
Evaluati	on Me	ethod and V	Weight (%)							
		Examination	Groupwork	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		60	20	0	0	20	0	100		
Basic Proficiency	y	0	0	0	0	0	0	0		
Specialize Proficiency				0	20	0	100			
Cross Area Proficiency		0	0	0	0	0	0	0		

A	kashi Co	ollege	Year	2023			urse tle	Information Network	
Course	Informa	tion				•			
Course Co	ode	5520			Course Catego	ry Si	pecializ	ed / Compulsory	
Class Forr	nat	Lecture			Credits	S	chool C	redit: 1	
Departme	ent		and Computer E er Engineering Co		Student Grade	5t	th		
Term		First Sen	nester		Classes per We	ek 2			
Textbook Teaching									
Instructor		INOUE K	azunari						
Course	Objectiv	es							
The overall goal is to understand the basics of network technology, and the individual goal is to acquire the following abilities. 1) Network history, TCP / IP protocol 2) Technology that constitutes a LAN 3) IP packets and routing 4) Control method by TCP and UDP 5) Network security and encryption									
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ent 1		Fully understa networks and communicatio		Understand the networks and T communication	ICP / IP		Cannot understand the history of networks and TCP / IP communication protocols.	
Achievem	ent 2			nd the topology ion method for I.	Understand the transmission m building a LAN.	ethod for		Cannot understand the topology and transmission method for building a LAN.	
Achievem	ent 3		Fully understa frames and for packets and ro		Understanding frames and for packets and ro	warding,	net IP	Cannot understanding of Ethernet frames and forwarding, IP packets and routing.	
Assiane	d Depar	tment Ob	iectives		•				
	g Metho		,						
Outline		Learn th methods commun	. Understand the ication protocols	topology for LAN	construction, OS k security. In th	SI referen is subject	nce and t, facult	zation and the transmission TCP / IP, and learn the various y members who have practical es and exercises.	
Style								LAN construction, the Internet, eek.	
Notice		Students	who miss 1/3 o	r more of classes v	vill not be eligibl	e for eval	luation.		
Charact	eristics of	of Class /	Division in Le	earning					
Active	Learning		□ Aided by I	СТ	□ Applicable t	o Remote	e Class	 Instructor Professionally Experienced 	
Course	Plan								
			Theme			Goals			
				etworks and the transference the transference expected and the tra		Understa transition explained	n of cor	t the history of networks and the mmunication methods will be	
		2nd	signals will be de	ng and compositin scribed. Specific e on and serial inter	g of analog xamples of face will be	composit Specific	ting of a exampl	t the Digitization, coding and analog signals will be described. es of digital transmission and will be described.	
		3rd	to the packet sw	om the circuit swit itching method and t make up the Inte	d the	switching	g meth technol	t the difference from the circuit od to the packet switching method ogies that make up the Internet d.	
1st	1st Quarter	4th	The technical out the OSI reference explained.	tline of each layer e model and TCP /	that composes ' IP will be	layer tha	at comp	t the technical outline of each oses the OSI reference model and explained.	
Semeste r		5th	decapsulation on	of encapsulation a the transmitting s nd L2 / L3 / L4 / L	side and	decapsul	lation o	t the flow of encapsulation and n the transmitting side and and L2 / L3 / L4 / L7 processing.	
		6th	star type will be	topologies such as described. The tec AN, switches / rout	hnology that	such as l Also, und	bus typ derstan es the l	t the various network topologies e and star type will be described. d that the technology that _AN, switches / routers, will be	
7th Describes Ethernet frame t payloads, trailer roles and					headers, dresses.		, payloa	t the Ethernet frame formats, ads, trailer roles and MAC	
8th Mid-term exam						Mid-term	n exam		
8th Mid-term exam 2nd 9th Describes the IP packet format, address settine method, and classful address. The routing tail and route control will be described.						address	setting	t the the IP packet format, method, and classful address. The id route control will be described.	

		10th	Describes the de classless, and ca networks / host	efinition of IP addre alculation of the nu s.	ess, classful / mber of	Understand tha classful / classle of networks / h	ess, and calcul	of IP address, ation of the number		
		11th	Technology to h	er function will be c elp IP Describe the nse. The ARP betw	e ICMP echo	Understand that the DHCP server function will be described. Technology to help IP Describe the ICMP echo request / response. The ARP between L2 / L3 will be explained.				
		12th	The connectionless type / connectionless type protocol will be described. The port number and			connectionless	Understand that the connectionless type / connectionless type protocol will be described. The port number and passing to L7 will be			
		13th	Describes servic Internet such as	es and protocols for DNS, Web. Serve	or using the r and HTTP.			and protocols for IS, Web. Server and		
		14th		cs, network securit hology for handling len in networks.			nology for har	etwork security and dling threats and s.		
		15th	The mobile communication and the access network will be described. Describe the IoT (Internet of Things) and non-IP networks.			Understand that the mobile communication and the access network will be described. Also, understand that the IoT (Internet of Things) and non-IP networks.				
		16th	Final exam			Final exam				
Evaluati	on M	ethod and V	Weight (%)							
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		80	0	0	0	0	20	100		
Basic Proficiency	Ý	0	0	0	0	0	0	0		
Specialize Proficiency	zed oo o			0	0	0	20	100		
Cross Area Proficiency		0	0	0	0	0	0	0		

Akashi College Course Information		ollege	Year	2023		Course Title	Advanced Information Networks
Course	Informa	tion					
Course C	ode	5521			Course Categor	y Specializ	zed / Compulsory
Class For	mat	Lecture			Credits	School C	Credit: 1
Departme	ent	Electrical ar Computer E	nd Computer En Engineering Cou	ngineering urse	Student Grade	5th	
Term		Second Sen	nester		Classes per We	ek 2	
Textbook	and/or Materials						
Instructo		INOUE Kazı	inari				
	 Objectiv						
This subj consump years suc 1) Unders 2) Unders 3) Unders	ect explain tion, and s ch as edge stand the r stand the f	s various cont tability and hig computing an oles and appli unctions and c e-of-the-art tec	th reliability. Fu d virtualization cations of L2/L control techniqu	urthermore, the g 3/L4 and L7 corre	oal is to underst ectly. rectly.	and advanced a	e high speed, low power applications for networks in recent k, and can learn about future
Rubric							
		:	Ideal Level		Standard Level		Unacceptable Level
				nd the roles and	Understand the	rolos and	Do not fully understand the role
Achievem	nent 1		applications of	L2/L3/L4 and L7.	applications of	L2/L3/L4 and L	7. and application of L2/L3/L4 and L7.
Achievement 2				nd the functions network routers.	Understand the control of netwo		Do not understand the function and control of network routers.
Achievement 2 Achievement 3			Fully understan technologies, si virtualization.	id advanced	Understand adv technologies su virtualization.	vanced	Do not understand the advanced technologies, such as virtualization.
Assiane	d Depar	tment Obje	ctives		•		
	ng Metho						
a	This lecture is conducted in a lecture style by a teacher with practical experience in development of network						
Outline		consumptio This lecture routers.	n, and new tec is conducted in	hnologies, such a n a lecture style b	s virtualization to by a teacher with	o solve these p	roblems.
		consumptio This lecture routers. Classes are	n, and new tec is conducted in held in lecture	hnologies, such a n a lecture style b style from week	s virtualization to by a teacher with 1 to week 15.	o solve these p practical expen	roblems. rience in development of network
Outline Style Notice		consumptio This lecture routers. Classes are Students sh class Inforn	n, and new tec is conducted in held in lecture hould have the hation Network	hnologies, such a n a lecture style b style from week knowledge of the	s virtualization to y a teacher with 1 to week 15. year 3 class Intr	o solve these p practical expen- roduction to Co	roblems. rience in development of network mputer Engineering and year 5
Style Notice	teristics (consumptio This lecture routers. Classes are Students sh class Inforn Students w	n, and new tec is conducted in held in lecture hould have the hation Network	hnologies, such a n a lecture style b style from week knowledge of the more of classes v	s virtualization to y a teacher with 1 to week 15. year 3 class Intr	o solve these p practical expen- roduction to Co	roblems. rience in development of network mputer Engineering and year 5
Style Notice Charact	teristics of Learning	consumptio This lecture routers. Classes are Students sh class Inforn Students w Df Class / D	n, and new tec is conducted in held in lecture hould have the hation Network ho miss 1/3 or	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning	s virtualization to y a teacher with 1 to week 15. year 3 class Intr	o solve these p practical expen- roduction to Co e for evaluation	mputer Engineering and year 5
Style Notice Charact	e Learning	consumptio This lecture routers. Classes are Students sh class Inforn Students w Df Class / D	n, and new tec is conducted in held in lecture hould have the hation Network ho miss 1/3 or ivision in Lea	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning	s virtualization to y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible	o solve these p practical expen- roduction to Co e for evaluation	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally
Style Notice Charact	e Learning	consumptio This lecture routers. Classes are Students sh class Inforn Students w of Class / D	n, and new tec is conducted in held in lecture hould have the hation Network ho miss 1/3 or ivision in Lea Aided by IC	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning	s virtualization to y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible Applicable to	o solve these p practical expension roduction to Con e for evaluation o Remote Class	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally
Style Notice Charact	e Learning	consumptio This lecture routers. Classes are Students sh class Inforn Students w of Class / D	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea Division in Lea Aided by IC	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible D Applicable to t each layer and the	o solve these p practical expen- roduction to Co- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced
Style Notice Charact	e Learning	consumptio This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D The Ist De tec 2nd De	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea Aided by IC Aided by IC P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible Applicable to t each layer and the networks such as tion, and so	o solve these p o practical exper- roduction to Co- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the technologies. Performance ar Understand ter bandwidth and	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced
Style Notice Charact	e Learning	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D	n, and new tec is conducted in held in lecture rould have the nation Network ho miss 1/3 or ivision in Lea Aided by IC Aided by IC P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol ndwidth and th	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP etworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers,	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible D Applicable to Applicable to t each layer and the networks such as tion, and so and SerDes	o solve these p o practical exper- roduction to Con- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the technologies. Performance an Understand ter bandwidth and on. Optical and ele	roblems. rience in development of network mputer Engineering and year 5 . Instructor Professionally Experienced ww e advent of TCP/IP and networking and characteristics of networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes
Style Notice Charact	e Learning	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D C	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea ivision in Lea a Aided by IC a Aided by IC bere P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol ndwidth and th tical and electris scribe fiber opt erializer/Desera	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP etworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers, lizer). and control techn id wireless connect	s virtualization to y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible D Applicable to Applicable to t each layer and the networks such as tion, and so and SerDes	o solve these p practical exper- roduction to Co- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the technologies. Performance an Understand ter bandwidth and on. Optical and ele Understand fib (Serializer/Des LAN configurat	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced we advent of TCP/IP and networking nd characteristics of networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and
Style Notice Charact	Plan 3rd	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D C	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea ivision in Lea additional and strain protection of the protocol a scribe the eme hnologies of new formance and scribe terminol ndwidth and th tical and electris scribe fiber opt erializer/Desera N configuration scribe wired an note access usi	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP tworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers, lizer). and control techn d wireless connecting SSH.	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible D Applicable to t each layer and the networks such as tion, and so and SerDes hology tivity and	o solve these p practical exper- roduction to Co- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the technologies. Performance a Understand ter bandwidth and on. Optical and ele Understand fib (Serializer/Desi LAN configurat Understand mut Understand with Serializer/Desi LAN configurat Understand with Understand with Understand with	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced we advent of TCP/IP and networking nd characteristics of networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and using SSH.
Style Notice Charact Active Course	Plan 3rd	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D C	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea ivision in Lea additional context Aided by IC additional context P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol ndwidth and th tical and electri scribe fiber opt enalizer/Desera N configuration scribe wired an note access usi wer layer proto scribe forwardi per layer proto	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP tworking. characteristics of ogies of network is roughput, conges ical signals ics, transceivers, lizer). and control techn id wireless connec ing SSH. col ng and routing pr	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible Applicable to t each layer and the networks such as tion, and so and SerDes hology ctivity and otocols	o solve these por practical experi- roduction to Con- e for evaluation o Remote Class Goals TCP/IP Overvie Understand the technologies. Performance an Understand ter bandwidth and on. Optical and ele Understand fib (Serializer/Desi LAN configurat Understand wir remote access Lower layer pro Understand for Understand for	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced we e advent of TCP/IP and networking advent of TCP/IP and networking advent of TCP/IP and networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and using SSH. btocol warding and routing protocols
Style Notice Charact Active Course	Plan 3rd	consumptio This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D Cl	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea Aided by IC Aided by IC Aided by IC Aided by IC P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol dwidth and th tical and electriscribe fiber opt erializer/Desera N configuration scribe wired an note access usi wer layer proto scribe forwardi per layer proto scribe example he synchroniza	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP etworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers, lizer). and control techn d wireless connecting SSH. col ng and routing pr col s of TCP/UDP anc	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible Applicable to t each layer and the networks such as tion, and so and SerDes hology ctivity and otocols	o solve these por practical experiences of the second seco	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced w e advent of TCP/IP and networking nd characteristics of networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and using SSH. otocol warding and routing protocols ptocol amples of TCP/UDP and
Style Notice Charact Active Course	Plan 3rd	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D C	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea Aided by IC Aided by IC Aided by IC Aided by IC P/IP protocol a scribe the eme hnologies of ne formance and scribe terminol dwidth and th tical and electriscribe fiber opt erializer/Desera N configuration scribe wired an note access usi wer layer proto scribe forwardi per layer proto scribe example he synchroniza	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP tworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers, lizer). and control techn d wireless connec ing SSH. col ng and routing pr col s of TCP/UDP anc tion by NTP	s virtualization t y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible Applicable to t each layer and the networks such as tion, and so and SerDes nology ctivity and otocols I applications.	o solve these por practical experiences of the second seco	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced W e advent of TCP/IP and networking nd characteristics of networks minologies of network such as throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and using SSH. otocol warding and routing protocols otocol amples of TCP/UDP and ization by NTP
Style Notice Charact Active Course	Plan 3rd	consumption This lecture routers. Classes are Students sh class Inform Students w of Class / D Class / D	n, and new tec is conducted in held in lecture ould have the nation Network ho miss 1/3 or ivision in Lea avision in Lea avisi	hnologies, such a n a lecture style b style from week knowledge of the more of classes v arning T T nd technologies a rgence of TCP/IP etworking. characteristics of ogies of network s roughput, conges ical signals ics, transceivers, lizer). and control techn d wireless connect ing SSH. col ng and routing pr col s of TCP/UDP and tion by NTP vork Time protoccont nt iguration and cont	s virtualization to y a teacher with <u>1 to week 15.</u> year 3 class Intr vill not be eligible D Applicable to t each layer and the networks such as tion, and so and SerDes hology ctivity and otocols I applications.	o solve these paractical experiences of the second experiences of the second experience of the s	roblems. rience in development of network mputer Engineering and year 5 Instructor Professionally Experienced we e advent of TCP/IP and networking and characteristics of networks throughput, congestion, and so ctrical signals er optics, transceivers, and SerDes eralizer). ion and control technology red and wireless connectivity and using SSH. otocol warding and routing protocols otocol amples of TCP/UDP and ization by NTP a Network Time protocol. ment a configuration and controls of

	11th	Routing tables and ternary st Describe routing and access of	cate memory control using TCAM.	Routing tables ar Understand outin TCAM.	nd ternary state memory ig and access control using	
	12th	Fragmentation and Packet Bu assignments to submit) Describe packet assembly an		Fragmentation and packet buffers Understand packet assembly and queuing at routers.		
	13th	Internet technology Describe access network to IS autonomous systems (AS).	SP connectivity and	Internet technology		
	14th	Network virtualization Describe network virtualizatio as VLAN, VPN, and OpenFlow	on technologies such v.	Network virtualiz Understand netw such as VLAN, VI	ation ork virtualization technologies PN and OpenFlow.	
	15th	Wireless networks and the In Describe wireless LAN, Blueto (Low Power Wide Area).	nternet of Things both (LE) and LPWA	Wireless networks and the Internet of Things Understand LPWA (Low Power Wide Area) fror wireless LAN, Bluetooth (LE).		
	16th	Final exam		Final exam		
Evaluation Met	hod and	Weight (%)				
		Examination	Submission as	signment	Total	
Subtotal		80	20		100	
Basic Proficiency		0	0		0	
Specialized Profici	ency	80	20		100	
Cross Area Proficio	ency	0	0		0	

Akashi College Course Information		Year	2023		Course Title	e D	oatabase	
Course	Informa	tion						
Course Co	ode	5522			Course Category	/ Specia	alized	/ Compulsory
Class Forr	mat	Lecture			Credits	Schoo	ol Cre	dit: 1
Departme	ent	Computer	and Computer Ei Engineering Cou	ngineering urse	Student Grade	5th		
Term		Second Se	mester		Classes per Wee	ek 2		
Textbook Teaching								
Instructor		TSUCHIDA	A Takayuki					
Course	Objectiv	es						
modeling computer understar managem issues and	for storing , language nd the con- nent and p	y real-world one of the second se second second se	lata in a comput and querying c bases and learn with database la	er, methods for s lata, and controls the knowledge ar anguage SOL. The	toring and retriev for enabling simund skills of key and goal is to enable	ring large an ultaneous us eas of exper students to	nount se of c tise, s flexil	ecifically, we will deal with data ts of data efficiently in a data among many users. We will such as designing for data bly address data management the field of expertise.
Rubric			1		1			
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ent 1		and to store an	w to model data ad retrieve large a efficiently in a can design a	Understand how and to store and amounts of data computer.	retrieve lar	ge n a	Do not understand how to model data and to store and retrieve large amounts of data efficiently in a computer.
Achievem	ent 2		Can perform pr database langu operate a syste	lage SQL and	Understand prog database langua system.	gramming by ige SQL and	y the	Do not understand programming with database language SQL, and the system.
Assigne	d Depar	tment Obj	ectives					
Teachin	g Metho	d						
Outline Style		how it is ir The lectur (database	nplemented. es will be condu		who engaged in	the research	n and	abase system as a way to vhat the database manages, and development of middleware ars.
Notice		land algori	thms is desirable	student to master e. more of classes v		-		ge. Knowledge of data structures ade.
Charact	eristics of	of Class / [Division in Lea	arning				
Active	Learning		☑ Aided by IC	Т	☑ Applicable to	Remote Cla	SS	 Instructor Professionally Experienced
Course	Plan							
		Т	heme		0	Goals		
		1st O	utline of the dat	abase	ā	academic us	e and and th	ole of the database, the I the business use of the ne significance and application of
		2nd B	asic theories for	databases	9			theories for databases, such as erations, tuples, and relations of
		3rd R	elational data m	odel and relationa	al algebra t	he data mo	del ut	elational data model, which is ilized by RDBMS, and the for data manipulation.
2nd	3rd Quarter	4th S	QL(1)		i	Understand the basics of SQL, the language use in the general use of RDBMS. Understand basic usage of SQL including data registration, deletic and update of relations, and simple queries.		
Semeste r		5th S	QL(2)	<u> </u>	general usag	je of I	language that is used for RDBMS. Understand the select Ieries in SQL.	
	6th Internal configuration of the RDBMS				S t	he indexes, access of the of data.	whicle data	ternal structure of RDBMS and h are the mechanisms for quick a of interest from a large amount
	7th Query optimization				<u>c</u>			optimization in RDBMS to n plans for executing SQL
8th Midterm exam					1	Midterm exa	m	
	4th Quarter	9th N	ormalization		ι	updating rela	ations	ble data inconsistencies when hips and the normalization of as the solution.

		10th	Data Modeling			Understand da the scope of th determining th extracting and	Understand data modeling, a work to determine the scope of the database in the real world, determining the appropriate data structure by extracting and organizing data items, and .			
		11th	SQL(3)			Can write SQL general usage advanced sele	Can write SQL, a language that is used for general usage of RDBMS. Understand the advanced select statement for SQL queries.			
		12th	12th Transaction and concurrency control				Understand the concept of transactions, the units in which an application accesses a database, and the basic theory for successful execution of multiple transactions.			
	13th NoSQL databases and big data (1)					developed to h	Understand the basics of NoSQL, a new database developed to handle big data. Understand NoSQL in general and the data model and execution control theory to handle big data.			
		14th	NoSQL databases and big data (2)			developed to h	Learn the basics of NoSQL, a new database developed to handle big data. Understand parallel distributed processing techniques for large data and distributed processing techniques on NoSQL.			
		15th	Using RDBMS from	n programs		Understand ho	Understand how to use RDBMS from programs written in a generic programming language.			
		16th	Final exam			Final exam				
Evaluati	on Me	ethod and	Weight (%)							
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		60	0	0	0	40	0	100		
Basic Proficienc	y	0 0		0	0	0	0	0		
Specialize Proficienc	d y	60	0 0		0	40	0	100		
Cross Are Proficienc		0	0	0	0	0	0	0		

A	kashi Co	ollege	Year	2023			ourse Fitle	Artificial Intelligence
Course	Informa	tion	·					
Course Co		5523			Course Categor	v	Specializ	ed / Compulsory
Class Forr		Lecture			Credits	,	School C	
Departme	ent		and Computer E Engineering Co		Student Grade		5th	
Term		Second Se	mester		Classes per We	ek	2	
Textbook Teaching								
Instructor	r	MIURA Kir	iya					
Course	Objectiv	es						
(1) Under (2) Under (3) Under	rstand the rstand the rstand neu	methods of s various know ral networks	earch and apply ledge expression and machine le	them to various ons and the reason arning on them.	problems. ning methods that	at use t	hem.	
Rubric				-				
			Ideal Level		Standard Level			Unacceptable Level
Achievem	ient 1		Fully understar search techniq of problems.	nd and apply ues to a variety	Generally under techniques and to a number of	can ap	ply them	Do not understand the search technique and cannot apply it to problems.
Achievem	Chievement 2 Chievement 2 Chiev			ious knowledge d the inference	Generally under explain the vari expressions and methods that us	rstand ous kno d the re	and can owledge easoning	Do not fully understand and cannot explain the various knowledge expressions and reasoning methods that use them.
Achievement 3 Achievement 3 Achievement 3			networks and	Generally under can explain neu machine learnir	iral net	works an	Do not understand enough about neural networks and machine learning on them, and cannot explain them.	
Assigne	d Depar	tment Obj	ectives		•			
	g Metho							
Outline	<u> </u>	Describe t search tec	he basic concep hniques and the earning on them	eir use to solve pro	of artificial intell blems, knowled	igence. ge exp	. In partie ressions	cular, the focus will be on various and their use, neural networks and
Style	The lecture is mainly based on the content of textback, but should be supplemented with bandouts if							emented with handouts if Yukihiro Hamada.
Notice		Data Struc since it is amount to standard s	ture and Algorit necessary to ha 90 hours of stu elf-study time r	hms. Also, it is de ve an algorithmic i dv in total. These	sirable for stude understanding of hours include th udy / review, an	ents to f variou ne learr d comp	have acq us metho ning time pleting as	asses Discrete Mathematics and uired any programming language, ds. This course's content will guaranteed in classes and the signment reports.
Charact	eristics of		Division in Le		9			
□ Active			☑ Aided by IC		□ Applicable to	o Remo	ote Class	Instructor Professionally Experienced
			•		•			
Course	Plan							
		Т	neme			Goals		
		1st A	rtificial intelliger	ice overview		Can ex	ch by vie	line of artificial intelligence wing the history of artificial earch from several perspectives.
		2nd Pi	oblem solving a	ind search		search	. Underst	blem solving as state space and the steps of vertical and hing and apply them to problem
		3rd Li	mited branch se	earch				cost-aware search and can find nusing the limited branch search.
		4th H	euristic search			Unders costs t	stand and o the goa	l conduct search using estimated al (heuristic search).
2nd Semeste r	3rd Quarter	5th S	earch for And/O	r graphs		breakir	ng metho ation by t r graphs	t problem-solving by problem- ds and game-state-space wo-person becomes a search for and can apply it to problem-
	6	6th K	nowledge repres	sentation using pre	edicate logic	Unders logical knowle	expression	syntax of predicate logic and use ons to express propositional
7		7th Pi	oof system bas	ed on the fusion p	rinciple	Understand the proof system based on the principle of fusion and the secular form, which one of the standard forms of predicate logic, a can carry out deductive and proving using it.		
			idterm exam is given during	class				
	4th					Unders	stand and	I can explain the basic operation of
	Quarter	9th Pi	oduction Syster	n		a prod	uction sy	stem.

		10th	Semantic Netw	ork and Frame		representation semantic network	nd can explain k n and simple rea vork. Also, unde ledge represent	knowledge asoning using a erstand and can cation using a frame.		
		11th	Perceptron			Understand th can explain th perceptron.	Understand the basic operation of neurocells and can explain the operation and learning of the perceptron.			
		12th	Backpropagatic	Backpropagation			Conceptually understand and can explain the learning by backwards propagation of errors in a feed-forward network.			
		13th	Auto encoder	Auto encoder			ı units) work an	now auto-encoders ad the pre-learning of auto-encoders.		
		14th Recurrent Neural Network			Conceptually behavior of th special case o	Conceptually understand and can explain the behavior of the recurrent neural network and its special case of the Hopfield Network .				
		15th	Deep learning			examples of d	Understand outline and can explain some examples of deep learning as a combination of different network configurations and learning techniques.			
		16th	Final exam							
Evaluati	on Me	ethod and	Weight (%)							
		Examination	Task	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		80	20	0	0	0	0	100		
Basic Proficienc	у	0	0 0 0		0	0	0			
Specialize Proficienc		80	80 20 0 0		0	0	100			
Cross Are Proficienc		0	0	0	0	0	0	0		

A	kashi Co	ollege		Year	2023		Co	ourse Fitle	Experiments of Computer Engineering II	
Course	Informat	tion								
Course Co	ode	5524				Course Catego	ry	Specialize	ed / Compulsory	
Class Form	mat	Experim	nent			Credits		School Cr	edit: 2	
Departme	ent	Electrica Comput	al and C er Engi	Computer Er neering Cou	ngineering urse	Student Grade		5th		
Term		First Sei	mester			Classes per We	ek	4		
Textbook Teaching										
Instructor	r	HAMAD	A Yukih	niro						
Course	Objectiv	es								
group bas The speci [1] To cr [2] To cr [3] To cr [4] Give Also give	sis. fic goals ar eate and p eate and p eate and p chances to	re as follow present the present sof present the every me	vs: e require tware e e softwa ember o	ements doc external and are. of the team	ument for the sof l internal design d to be a leader and	tware that is go locuments. d lead developm	ing to b ent dur	e develop	ess. by developing software in a bed. cage of software development. de and check progress	
Rubric						1			1	
				al Level		Standard Level			Unacceptable Level	
Achievement 1			pres defii soft		reate and juirement ment for the going to be	Can create and requirement de document for t is going to be c	efinition he soft\	ware that	Cannot create or present the requirement definition document for the software that is going to be developed.	
Achievement 2			pres		reate and re external and documents.	Can create and software extern design docume	nal and		Cannot create or present software external and internal design documents.	
Achievem	ient 3		Can pres	correctly classent the sof	rrectly create and can create and present the software designed.			it the	Cannot create or present the software designed.	
Achievement 4			lead effe duri deve give divis and	I the develo octively by b ing any stace elopment. I e correct dir sion of subr the presen	of the team can pment process eing a leader ge of software n addition, can ection in the nission document tation slide neck progress.	Every member of the team can lead the development process by being a leader during any stage of software development. In addition, can give direction in the division of roles in creating submission document and the presentation slide and check progress.			Every member of the team cannot lead the development process by being a leader during any stage of software development. In addition, cannot give direction in the division of roles in creating submission document and the presentation slide and cannot check progress.	
	<u>d Depar</u> g Metho		bjectiv	ves						
Outline		In an er through program	the pro	ocess of rec and testing	juiréments definit	ion, external des and maintenance	sign, int	ernal des	pers. Software development goes ign, program design, In this course, students will split	
Style				f three to fo						
Notice		Division of the sl Assignm Student	of worl hared ta nents m s who r	k is decided ask should nust be subr miss 1/3 or	l by the team, even be reported each mitted by due dat more of classes v	ery member sho week in the tear e. vill not be eligibl	uld take m and t e for ev	e responsi ackle any aluation.	bility for their part. The progress barriers with the entire team.	
Charact	eristics o	of Class /	/ Divis	sion in Lea	arning	·				
🛛 Active	Learning			Aided by IC	Г	Applicable t	o Remo	ote Class	 Instructor Professionally Experienced 	
Course	Plan		1				-			
			Theme	9			Goals			
		1st		nce and Rec ion 1 of 3	quirements analys	is and	schedu	lle. Can e s. and car	team, issues to work on, and explain the software development a analyze and define the the software to be developed.	
		2nd	Requir	ements and	alysis and definition	on 2 of 3			define the requirements of the eveloped.	
1st Semeste	1st Quarter	3rd	· ·		alysis and definitio		the sof	tware that	uirement definition document for t is going to be developed and as s for presentation.	
		4th	Publica docum	ation of the nent	requirement defir	nition	Can present the requirement definition documen for the software that is going to be developed.			
		5th	Extern	al and inter	nal design 1 of 2		softwa	re that is	ernal and internal design of the going to be developed.	
6		6th	Extern	al and inter	ernal design 1 of 2			Can create external and internal design documents for the software that is going to be developed as well as the slides for presentation.		

		7th	Publication of documents	f external and i	nternal design		Can p docum develo	nents for the so	rnal and interna ftware that is g	al design joing to be		
		8th	Program Des	ign			develo	Can modify the data flow diagram of the software development and can design the program as needed.				
		9th	Programming	g 1 of 5			Can pi develo	Can program the software that is going to be developed.				
		10th	Programming	Programming 2 of 5				Can program the software that is going to be developed.				
	2nd Quarter 13th 14th		Programming	Programming 3 of 5				rogram the soft	ware that is go	ing to be		
			Programming	g 4 of 5			Can p develo		tware that is go	ing to be		
			Programming	g 5 of 5			Can program the software that is going to be developed.					
			Testing, rem	ediation and do	ocumentation		Can te additio	est the software on, can create un tations and de	e and modify as user manuals to monstrations.	necessary. In prepare for		
		15th	Software pre	Software presentation and demonstration					nonstrate the so	oftware		
		16th	No final exan	No final examination								
Evaluati	on Me	thod and	Weight (%)									
	de	quirement finition cument	Presentation1	External • Internal design document	Presentation2	Userma	anual	Presentation3	Demonstratio n	Total		
Subtotal	15		15	15	15	15		10	15	100		
Basic Proficienc	y O	0 0 0 0			0	0	0					
Specialize Proficience				15		10	15	100				
Cross Are Proficience			0	0	0	0		0	0	0		

Δ	kashi Co	ollege	Year	2023		Course Title	Fundamentals of Communication Systems	
Course	Informa	tion						
Course Co		5525			Course Categor	y Specializ	zed / Elective	
Class For	mat	Lecture			Credits		ic Credit: 2	
Departme	ent	Electrical an	nd Computer E Engineering Co	ngineering	Student Grade	5th		
Term		First Semes	<u> </u>		Classes per We	ek 2		
Textbook Teaching	and/or Materials	教科書:植松	公友彦、松本隆太	郎「基本を学ぶ通	信工学」オーム社			
Instructor								
Course	Objectiv	es						
1) 通信シ 2) 通信シ	ステムを理(ステムにお)	ることを目標とす 解するために必要 ける簡単な信号 る自主的・継続	要な数学的準備 処理システムを	や基礎的な信号処理 設計できる. る.	理論について理解し	, 解析できる.		
Rubric					1		1	
			理想的な到達レ		標準的な到達レ/		未到達レベルの目安	
評価項目1			要な数学的準備	理解するために必 や基礎的な信号処 確に理解し,解析	通信システムを現 要な数学的準備や 理論について理解	里解するために必 や基礎的な信号処 解し,解析できる	 通信システムを理解するために必要な数学的準備や基礎的な信号処理論について理解できない. 	
評価項目2		ì	通信システムに	おける信号処理方 確に説明できる.	通信システムにな 式を理解し,説明		通信システムにおける信号処理方 式を理解し,説明できない.	
評価項目3	;	Ļ		ポートを正確に作	必要数の課題レ7 る.			
Assiane	d Denar	tment Obje			<u>ا</u> ي.		יי אאין	
	ig Metho							
Outline		本授業では通の構成として	通信システムを理 こは,後期開講科	解するために必要 目である「通信方	な基礎項目および 式」と組となる科	簡単なアナログ通 目であるため, オ	●信システムについて解説する. 科目 □本科目と「通信方式」の両科目の受講	
Style		な課題を出す	「。自己学習が重	」グ変復調方式に重 重要な科目であるの	点を置いて、教科 で、予習復習をし	書・スライドを用 っかりやりながら	引いながら解説していく。各回で簡単 5取り組むこと。	
,		連絡員:大向 本科日は 将]雅人 受業で保証する学	習時間と、予習・	復習および課題に		目己学習時間の総計が90時間に相当す	
Notice		る学習内容で	である。 しない欠席条件	=(割合)>1/3以」				
Charact	eristics of	of Class / Di	ivision in Le	arning	1			
Active	Learning	[□ Aided by ICT ☑ Applicable to			o Remote Class	 Instructor Professionally Experienced 	
_								
Course	Plan	, <u>, , , , , , , , , , , , , , , , , , </u>						
			eme			Goals		
		1st ^{導力} 通信		<構成と本授業の位		通信システムにて て説明できる。	ついて説明できる。変調の役割につい	
		2nd 通信	トログ信号処理の 言システムを学ぶ フーリエ変換等を	ぶための数学的基礎	として欠かせな	フーリエ級数展開 数展開できるよう	開の定義を理解し、実際にフーリエ級 うになる。	
		3rd 通信	トログ信号処理の 言システムを学ぶ フーリエ変換等を	ぶための数学的基礎	として欠かせな		フーリエ逆変換の定義や性質を理解し L変換できるようになる。	
	1st	4th 本調	言システムのモラ 講義で扱う通信ミ ムの一つとしてこ	デルとフィルタ システムのモデルを フィルタを説明する	片市 りん。 ンヘー	システムのモデル 役割を理解する。	レを理解して説明できる。 フィルタの	
	Quarter	5th 変調	量変調方式(1) 周の役割や意義に 要を説明する。	こついて説明する。	振幅変調方式の	各変調方式の役割 の概要を説明です	割について説明できる。振幅変調方式 きる。	
1st		6th 振幅	審変調方式(2) 審変調とその復調	周について説明する		振幅変調方式の	変調方法と復調方法を説明できる。	
Semeste r		角度 7th 位相	宴宴調方式(1)	変調の概略を説明し		位相変調と周波	敗変調の性質を説明できる。	
		oth 角度	复変調方式(2)	夏調について説明す	· Z	周波数変調方式の	の変調方法と復調方法を説明できる。	
		復習 9th 7プ 利用	■・小テスト(1) トログ変調につい	し) いて振り返る。簡単 う式のふるまいを確	iなプログラムを	小テストで60%	以上を取得する。	
	2nd Quarter	パル アナ 10th て訪	レス変調とパルス トログ信号処理と 説明する。	ニディジタル信号処		標本化定理とパルス変調について説明できる。		
	パルス振幅変調と標本化定理について解説 パルス変調とパルス符号変調(2) 11th パルス符号変調(PCM) 解説する。				する雑音について	パルス符号変調と雑音について説明できる。		

		12th	発展的話題(1) 通信における誤り制御技術(誤り訂正: 解説する。	符号)について	通信における誤り言	J正符号の役割を説明できる。	
		13th	発展的話題(2) 通信における秘匿通信技術(公開鍵暗 説する。	号)について解	通信における公開録	建暗号の役割を説明できる。	
		14th	発展的話題(3) 通信における秘匿通信技術(共通鍵暗 説する。	号)について解	通信における公開鍵暗号の役割を説明できる。		
	復習・小テスト(2) 復習・小テスト(2) 移動通信システムの発展の歴史を題材に、本調 15th った変調方式を振り返るとともに、後期の通信 扱うディジタル変調技術を紹介する。小テスト する。				小テストで60%以	上を取得する。	
		16th					
Evaluati	on Meth	od and \	Veight (%)				
			小テスト(2回)	課題		Total	
Subtotal			50	50		100	
基礎的能力	礎的能力		0	0		0	
専門的能力			50	50		100	
分野横断的	能力		0	0	0		

A	Akashi Co	ollege	Year	2023		Course Title	Communication System
Course	Informa	tion					
Course C	ode	5526			Course Categor	y Specialize	ed / Elective
Class For	mat	Lecture			Credits	School C	redit: 1
Departme	ent		nd Computer E Engineering Co		Student Grade	5th	
Term		Second Ser	nester		Classes per We	ek 2	
Textbook	and/or Materials	教科書:植材	公友彦、松本隆太	、郎「基本を学ぶ通	言工学」オーム社		
Instructo							
Course	Objectiv	es					
以下の能力 1)アナ 2)各種ラ	ー 力を修得する コグ・ディミ ディジタル変	ることを目標とす ジタル通信システ 変調方式の原理、	特徴について理	基本的な構成要素に 理解する。 数について理解する。			
Rubric							
			理想的な到達レ	ベルの目安	標準的な到達レイ	ベルの目安	未到達レベルの目安
評価項目1	L		アナログ・ディ: ムおよびその基準 ついて正確に説	ジタル通信システ 本的な構成要素に 明できる。	アナログ・ディミ ムおよびその基本 ついて説明できる	いな構成要素に	アナログ・ディジタル通信システムおよびその基本的な構成要素について説明できない.
評価項目2	2			変調方式の原理,特		を調方式の原理,特	
評価項目3	3		多重通信方式、 調の原理、特徴 明できる。	スペクトル拡散変 について正確に説	多重通信方式、ス 調の原理、特徴(る。	スペクトル拡散変 こついて説明でき	多重通信方式、スペクトル拡散変 調の原理、特徴について説明でき ない。
Assigne	ed Depar	tment Obje			,		
	ng Metho						
Outline			アナログ・ディ て理解することを	,ジタル通信システム と目標とする.また、	ムについて解説す 現代社会の通信	る. 各種変調方式 システムで使われ	を用いて情報伝送を行うための基礎 ている変調技術を幅広く知ることを
a . 1				フル通信の変復調方	まに重占を置いて.	教科書・スライ	ドを用いながら解説していく。自己
Style		学習が重要な	よ科目であるのて	<u>、</u> 、予習復習をしった。	かりやりながら取り	り組むこと。	
Notice		本講義では, 理論について また、現代社 評価の対象と	アテロク・ティ て理解することを 社会の通信システ としない欠席条件	シタル通信システム と目標とする. 「ムで使われている 「(割合)>1/3以上	公について解説する 変調技術を幅広く9 -	5. 各種変調方式 印ることを目標と	を用いて情報伝送を行うための基礎 する。
Charact	teristics of	of Class / D	ivision in Le	arning			
🗆 Active	e Learning		□ Aided by ICT ☑ Applicable t			o Remote Class	Instructor Professionally Experienced
0							
Course	Plan					<u> </u>	
		1	eme			Goals	
		1st 本	入と復習 授業の位置付ける を復習する。	を行い、基礎通信工	学で学習した項	基礎通信工学での	
		2nd 通	信システムにおい	率過程の基礎 信システムにおける雑音の取り扱いにおいて重要な			学習したことの概要を説明できる。
		振	割を果たす確率過程について説明する。 届変調の雑音特性 音があるときの振幅変調方式のふるまいを説明す			確率過程について	学習したことの概要を説明できる。 基本的概念を説明できる。
				<u>過程について説明す</u> 生	る。		基本的概念を説明できる。
	3rd	3rd 雑 。 4th 雑	音があるときの排 波数変調の雑音 音があるときの原	過程について説明す 生 辰幅変調方式のふる	る。まいを説明する	復調信号の信号電 式別に説明できる	基本的概念を説明できる。
2nd Semeste	3rd Quarter	3rd 雑 。 4th 郡 5th ブ	音があるときの排 皮数変調の雑音料 音があるときの扉 	<u>過程について説明す</u> 生 気幅変調方式のふる <u> </u> 特性 引波数変調方式のふ <u> </u> 1) 1 し し こ て、各変調方式の	る。 まいを説明する るまいを説明す り返る。簡単な	復調信号の信号電式別に説明できる	基本的概念を説明できる。 力対雑音比について,各振幅変調方
2nd Semeste r		3rd 雑 。 4th 周 3 5th プ デ	音があるときの 波数変調の雑音 着があるときの 調・小テスト(ご サログラムを利用 コグラムを利用 る。小テストを マジタル変調の 和 ジタル変調の 第	<u>過程について説明す</u> 生 気幅変調方式のふる <u> </u> 特性 り 波数変調方式のふ 1) 1 ン て、各変調方式の 実施する。	る。 まいを説明する るまいを説明す り返る。簡単な ふるまいを確認	復調信号の信号電 式別に説明できる 周波数変調方式に を説明できる。 小テストで60%」	基本的概念を説明できる。 力対雑音比について,各振幅変調方
		3rd 雑i 。 4th 周i 4th 復 5th アブ 5th アブ すう 6th デデ。	音があるときの 	<u>過程について説明す</u> 素幅変調方式のふる 特性 動波数変調方式のふ 1) する雑音について振 して、各変調方式の 実施する。 椎音特性 らける雑音の制御に	る。 まいを説明する るまいを説明す り返る。簡単な ふるまいを確認 ついて説明する	復調信号の信号電 式別に説明できる 周波数変調方式に を説明できる。 小テストで60%」 ディジタル変調に	基本的概念を説明できる。
		3rd 雑i 4th 周i 4th 復 5th ブご 6th デデ・。 7th パ:	音があるときの 	<u>過程について説明す</u> 主 振幅変調方式のふる 特性 引波数変調方式のふ 1) 力 な名変調方式の しついて振 しついて振 しついて振 しついて振 しついて振 しついて振 しついて振 しついて振 しついて振 しついて振 の しついて振 の しついて振 しついて振 の し し していて振 の し し し し し し し し し し し し し	る。 まいを説明する るまいを説明す り返る。簡単な ふるまいを確認 ついて説明する 明する。	 復調信号の信号電式別に説明できる 周波数変調方式にを説明できる。 小テストで60%」 ディジタル変調に 通信システムの特徴 	基本的概念を説明できる。 力対雑音比について,各振幅変調方 さ おける復調信号の信号電力対雑音比 人上を取得する。 おける雑音について説明できる。 性を解析でき、相関受信機による信 明できる。
		3rd 雑i 4th 周i 4th 復 5th アブ 6th デジ 7th パ: 8th 2; 9th 直	音が 皮数の 調のとき の 構 で 調の し つ の な た こ つ の た さ で の た こ つ の た さ の に つ が あ る こ の の た き つ の の た き つ の の た き の に つ グ の し つ う い グ 変 あ る こ つ う い グ 変 あ つ 、 つ グ の し つ う い ブ 変 の こ 、 い グ 変 い つ グ の い グ 変 い つ 、 つ い つ の い つ で 、 い つ の い つ の い つ の い つ い つ の い つ い に い に い に い に い に い に い に い に い い い い い い い い に い い に い い い い い い い い い い い い い	<u>過程について説明す</u> 主 気幅変調方式のふる 特性 り波数変調方式のふ 1) たる雑音について振の したする。 能音特性 かける雑音の制御に タル変調(1) 見で、約 したする。 したる。 したする。 したする。 したする。 したする。 したる。 したする。 したずる。 したする。 しする。 したする。 したする。 しする。 しする。 しする。 しする。 しする。 しす	る。 まいを説明する るまいを説明す り返る。簡単な ふるまいを確認 ついて説明する 明する。 ついて説明する	 復調信号の信号電式別に説明できる 周波数変調方式にを説明できる。 小テストで60%見 ディジタル変調に 通信システムの特号の判定方法を訪 PAM方式について 	基本的概念を説明できる。 力対雑音比について,各振幅変調方 さ おける復調信号の信号電力対雑音比 人上を取得する。 おける雑音について説明できる。 性を解析でき、相関受信機による信 明できる。

	11th	Orthogonal Frequenc Multiplexing(OFDM) する。	y Division 方式、OFDM方式について説F	月 OFDM方式について説明で	ごきる。		
	12th	多重通信方式 周波数分割多重(FDM) 分割多重(CDM)につ)、時分割多重(TDM)、符号 いて説明する。	8 多重通信について説明でき	きる。		
	13th	移動通信システムと変調 移動通信システムの発展 った変調方式を振り返る	展の歴史を題材に、本講義で扱	各変調方式がどのように低	各変調方式がどのように使われてきたかを知る。		
	14th	通信システムにおける 世の中にある通信シス 変調技術、通信技術が てまとめる。	変調技術(1) テムを各自で調べ、どのような 吏われているかをレポートとし	各自で興味を持った通信3 ポートとしてまとめられる	システムについて調査し、レ る。		
	15th	通信システムにおける3 各自が作成したレポー テムにおける変調技術の	変調技術(2) トを読み合い、様々な通信シス D使われ方を知る。	レポートを互いに読み合き ムに関する知識を吸収する	うことで、様々な通信システ 5。		
	16th						
Evaluation	n Method ar	nd Weight (%)					
		小テスト	レポート	課題	Total		
Subtotal		40	30	30	100		
基礎的能力	能力 0		0	0	0		
専門的能力	能力 40		30	30	100		
分野横断的能:	野横断的能力 0		0	0	0		

А	kashi Co	ollege	Year	2023		Course Title	Control Engineering II		
Course	Informa	tion					•		
Course Co	ode	5527			Course Categor	/ Specializ	ed / Elective		
Class Forr	mat	Lecture			Credits	School C	Credit: 1		
Departme	ent		l and Computer E er Engineering Co		Student Grade	5th			
Term		First Sen			Classes per Wee				
Textbook Teaching	Materials	エクト 🕴	編	の, 理論・設計から	実装まで-」豊橋技	5術科学大学・高	ら等専門学校制御工学教育連携プロジ 		
Instructor		ENOMOT	O Ryuji						
本講 表 で に 3. ラ 定 関 3. ラ 定 次 フ フ フ フ フ フ フ フ フ フ フ フ フ	5ス逆変換を 割数からボ− 、および, ※裕を求める 御系を設計	事項を目的と 2用いてシス - ド線図の折 フルビッツ ろことができ	テムの過渡応答をき 線近似を描ける.う の安定判別法を用い る.	尊出できる. 逆に,ボード線図の いて開ループ系の安置	折線近似から伝達問 定判別ができる.	 数を導出できる	5.		
Rubric									
Rubric			理想的な到達レ	標準的な到達レベ	いしの日安	未到達レベルの目安			
評価項目1				を用いてシステム	基本的なシステム	の過渡応答は 平方完成等の式 ラプラス逆変換	ラプラス逆変換の計算ができない		
評価項目2			似を描くこと,	ード線図の折線近 および, ボード線 ら伝達関数を導出 ができる.	伝達関数からボー 似を描くこと、お 図の折線近似から することのどちら	よび,ボード線 伝達関数を導出	似を描くこと,及び,ボード線図		
評価項目3			ラウス, および 安定判別法を用 の安定判別がで	、フルビッツの両 いて、開ループ系 きる.	ラウス,もしくは 安定判別法を用い の安定判別ができ	ヽて,開ループ系	ラウス, および, フルビッツの安 定判別法のどちらも知らない.		
評価項目4			安定余裕を求め 波数応答上の該 ができる.	る,もしくは,周 当箇所を示すこと	安定余裕の定義を	説明できる.	安定余裕を求めることができない ・		
評価項目5			ステップ応答法 度法の両方で, きる.	, および, 限界感 PID制御系を設計で	ステップ応答法, 感度法を用いてPi きる.	もしくは, 限界 [D制御系を設計 ⁻	で PID制御系を設計できない.		
評価項目6			微分方程式の解 似の両方でシス デルを導出でき	, および, 差分近 テムの離散時間モ る.	微分方程式の解, 近似を用いてシス モデルを導出でき	、テムの離散時間	システムの離散時間モデルを導出 できない.		
	d Depar g Metho	tment Ob	ojectives						
Outline		この科目 講義であ とんど全 系の設計	は企業で宇宙防衛 る。日常の生活の「 ての機器に自動制行 手法など、制御工 ついて学ぶ.	システムや大規模フ 中で我々はあまり意 卸の機能が取り入れ 学Iに続いて古典制御	ィジカルシステムの 識せずに使っている られている. 本語 1の基礎を学ぶとと	Dシミュレータの 5が、車やエアニ 靖義では、ラウス もに、制御系の病	設計を担当していた教員が指導する レ、冷蔵庫など,身の回りにあるほ 、フルビッツの安定判別法やPID制御 応答を自分自身でシミュレーションす		
Style		システム 制御工学 講義内容	の過渡応答の導出や に関する学習の総調 の説明が終了次第,	や開ループ系の安定 まとめとして,制御 その内容を復習す	判別法と安定余裕, 系の応答をシミュレ る演習を実施する用	PID制御設計に シーションベース ジ式の授業を,ほ	ついて学習するとともに, これまでの てで確認する方法を説明・実演する. 話毎回実施する.		
Notice		課題や定	期試験では計算量が		i 宜課す演習は自分	で考えて実際に解	驿き, 計算に慣れておくことが望まし		
Charact	eristics		Division in Le						
Active	Learning		☑ Aided by IC	 CT	Applicable to	Remote Class	☑ Instructor Professionally Experienced		
<u>Co:::::= -</u>	Dlava								
Course	rian	I	Thomas		I.	Caple			
		1st	Theme イントロダクション		;		ラインを理解し,学習内容・到達目標		
		2nd	コントロタクショ: ラプラス変換・逆		:	を把握できる. ラプラス変換の す 部分分数分解や ^す			
1st Semeste Ouarter 3rd 過渡応答の計算		:	ス応答などを導出	を利用して, ステップ応答やインパル 出できる. 意味を理解した上で, 式を記述できる					
ſ	2.0.001	4th	ボード線図の折線	近似1					
		5th	ボード線図の折線近似 2			1次要素の積で構成された伝達関数を持つシステム(いて,ボード線図(ゲイン線図)の折れ線近似から 達関数を求めることができる。			

		6th	安定余	裕			安定余裕にて 周波数応答」 きる.	ついて説明でき こで安定余裕が	る. 示されている箇所を説明で		
		7th	ナイキジ	ストの安定判別法			開ループ伝達 定判別ができ		フィードバック制御系の安		
		8th	復習				前半の講義内	前半の講義内容の復習を行う			
		9th	内部安定	定性, フルビッツの)安定判別法		外部安定性と 致するための フルビッツの	外部安定性と内部安定性の概念,および,これらが一 致するための条件を説明できる. フルビッツの安定判別法を使って安定判別できる.			
		10th	ラウスの	の安定判別法			特別な場合も 判別できる.	5含め, ラウス	の安定判別法を使って安定		
		11th	PID制銜	ED			P動作の効果 I動作の効果	の入出力特性(化 について説明で について説明で について説明で	できる.		
	2nd Quarter	12th	PID制銜	D制御系の設計法					インを求めることができる Dゲインを求めることがで		
		13th	モデルの	レの離散化			. 微分方程式の	微分方程式を差分化して離散時間モデルを導出できる 微分方程式の解を求め,これを用いて離散時間モデル を導出できる.			
		14th	シミュ	レーション演習			制御対象や制をシミュレー	制御対象や制御器のモデルを離散化し,制御系の応答 をシミュレーションする方法を説明できる.			
		15th	復習				後半の講義内	国容の復習を行	う.		
		16th	期末試験	験							
Evaluati	on Meth	nod and	Weight	t (%)				_			
		試験					・トフォリオ	その他	Total		
Subtotal		60		40	0	0		0	100		
基礎的能力		0		0	0	0		0	0		
専門的能力	1	60 ·		40	0	0		0	100		
分野横断的	能力	0		0	0	0		0	0		

A	kashi Co	ollege		Year	2023		C	ourse Title	Application of Electronics
Course	Informa	tion					-		
Course Co	ode	5528				Course Catego	ry	Specialize	ed / Elective
Class For	mat	Lecture				Credits		School C	redit: 1
Departme	ent			d Computer E ngineering Co		Student Grade		5th	
Term		First Se	mest	er		Classes per We	ek	2	
Textbook Teaching									
Instructor		ENOMO	TO R	yuji					
	Objectiv								
(2) Under (3) Under coagulatio	stand bloo stand the on, bioche	od cell anal measurem mistry, and	lysis ı 1ent p 1 imn	methods, in p principles and nunity, etc.	(laboratory tests) articular the princ characteristics of systems and con	iple and charact spectroscopic d	eristics etectio	s of flow c	ice. ytometers. ogies used in testing of
Rubric									
			Ic	deal Level		Standard Level			Unacceptable Level
Achievem	Achievement 1			ccurately und pical kinds of aboratory tes urpose and si	clinical tests ts) and their	Understand the clinical tests (la and their purposignificance.	aborato	ory tests)	Do not understand the typical kinds of clinical tests (laboratory tests) and their purpose and significance.
Achievement 2			ce pi cł	ccurately und ell analysis mo articular the p haracteristics ytometers	principle and	Understand blo methods, in pa principle and cl flow cytometer	rticulai haracte	r the í	Do not understand blood cell analysis methods, in particular the principle and characteristics of flow cytometers
Achievement 3			A m ch de te	ccurately und neasurement haracteristics etection techr esting of coag	principles and of spectroscopic nologies used in	Understand the measurement principles and characteristics of spectroscopic detection technologies used in testing of coagulation, biochemistry, and immunity, etc.		ceristics of on cesting of	Do not understand the measurement principles and characteristics of spectroscopic detection technologies used in testing of coagulation, biochemistry, and immunity, etc.
			cl	ccurately und linical testing 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 Depar	tment O	bjec	tives					
Teachin	g Metho	d							
Outline	2	Clinical advance outlines etc. app immunc biologic	es, te s of la blied t blogic al tec	chnological in boratory tests to these tests al, genetic mo chnologies and	novation and furt s for analysis of bl . It will also cover easurement, etc.,	her developmen ood, urine, etc., the basic princi and the optical, uments used for	t are p and th ples of electro these	rogressing ne basics of measurer onic, fluid, measuren	ine. As modern medicine g. This class will explain the of the measurement technologies, nent in the fields of biochemical, , chemical, and molecular nents. In addition, students will iss.
Style		The goa from we	al is to eek 1					-	will be taught in a lecture style
Notice		Knowled	dae o	of bioloav is pr	referred. more of classes v	vill not be eligibl	e for e	valuation.	
Charact	eristics	of Class ,	/ Div	vision in Le	arning				
Active	Learning			Aided by IC	Т	Applicable t	o Rem	ote Class	 Instructor Professionally Experienced
Course	Plan								
			The	me			Goals		
		1st	Intro	oduction to cl	inical testing (1)		manag as the Under	gement, d overall o	role and type of testing in health iagnosis, and treatment, as well utline of clinical testing. v to interpret inspection results uracy.
1ct		2nd	Intro	oduction to cl	inical testing (2)		Same	as above	
1st Semeste r		3rd	Bioc	chemical testing (1)			Understand the significance of the items in biochemical testing and the method of testing, and the outline of biochemical testing technologies. Understand the outline of biochemical testing equipment and the principles of measurement and spectroscopy applied to the equipment.		
		4th	Bioc	hemical testir	ng (2)			as above	
					/				

Part of the second se							
Image: Problem in the state of the		5th	Hematology testing (1)		for blood cells an technologies. Understand the h technologies used analysis such as	d coagulation testing nydrodynamics and engineering d in flow cytometers used in cell	
Image: Problem in the standard stress in the stre		6th	Hematology Testing (2)		Same as above		
Image: Second		7th	General examination (urine, and	feces)	testing, urinary sediment testing technologies and their measuring equipment. Also understand the outline of fecal occult blood		
Pth Company tour clinical testing equipment and reagents, and by seeing the activities of a company involved in actual testing equipment and clinical testing, the students can deepen their understanding of clinical testing. 10th Immunology Testing (1) Understand the overview of immunological testing devices and the principles of measurement and detection technologies. 2nd Uarter 11th Immunology Testing (2) Same as above 12th Genetic Testing (1) Understand an overview of genetic testing technologies. 11th Immunology Testing (2) Same as above 12th Genetic Testing (1) Understand the outline of PCR instruments, and the measurement principles and detection technologies. 13th Genetic Testing (2) Same as above 14th Microbiology Testing Understand the outline of microbiology testing the activities of a compound the employ of the measurement principles and detection technologies. 14th Microbiology Testing Understand the cutline of microbiology testing technologies. 15th Topics for clinical tests Understand the cent topics in clinical testing. 16th Final exam Final exam Evaluation Mereinal measurement principles and detection technologies applied to it. 15th Topics for clinical tests Understan		8th	Midterm exam				
Inth Immunology Testing (1) Immunology Testing (1) Understand the general description of chemiluminescent immunoassay measuring devices and the principles of measurement and detection technologies that are applied to them. Inth Immunology Testing (2) Same as above Inth Genetic Testing (1) Understand an overview of genetic testing technologies. Inth Genetic Testing (1) Understand the outline of PCR instruments, sequencers and other genetic test instruments, and the measurement principles and detection technologies. Inth Genetic Testing (2) Same as above Inth Microbiology Testing Understand the outline of microbiology testing technologies. Inth Microbiology Testing Understand the cutline of microbiology testing and the measurement principles and detection technologies applied to it. Inth Topics for clinical tests Understand the cutline of previous lectures. Inth Final exam Final exam Evaluation Method and Weight (%) Evaluation Final exam Subtotal 80 20 Into		9th	Company tour		clinical testing equipment and reagents, and by seeing the activities of a company involved in actual testing equipment and clinical testing, the students can deepen their understanding of		
2nd Quarter Interference Understand an overview of genetic testing technologies. 12th Genetic Testing (1) 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 Understand the outline of microbiology testing technologies. 14th Microbiology Testing Understand the test equipment used for microbiology testing and the measurement principles and detection technologies applied to it. 15th Topics for clinical tests Understand recent topics in clinical testing. Can review all of previous lectures. 16th Final exam Final exam Evaluation Mesentation Presentation Subtotal 80 20 100 Basic Proficiency 80 20 100		10th	Immunology Testing (1)		technologies. Understand the general description of chemiluminescent immunoassay measuring devices and the principles of measurement and		
Image: Second Structure of PCR instruments, sequencers and other genetic test 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 Understand the outline of microbiology testing technologies. 14th Microbiology Testing Understand the test equipment used for microbiology testing and the measurement principles and detection technologies. 15th Topics for clinical tests Understand the cent topics in clinical testing. Can review all of previous lectures. 16th Final exam Final exam Evaluation Method and Weight (%) Examination Presentation Subtotal 80 20 100 Basic Proficiency 0 0 0 Specialized Proficiency 80 20 100		11th	Immunology Testing (2)		Same as above	-	
Index Index Index Understand the outline of microbiology testing technologies. Understand the test equipment used for microbiology testing and the measurement principles and detection technologies applied to it. Interview Interview <td< td=""><td></td><td></td><td>Genetic Testing (1)</td><td></td><td colspan="3">technologies. Understand the outline of PCR instruments, sequencers and other genetic test instruments, and the measurement principles and detection</td></td<>			Genetic Testing (1)		technologies. Understand the outline of PCR instruments, sequencers and other genetic test instruments, and the measurement principles and detection		
14th Microbiology Testing technologies. Understand the test equipment used for microbiology testing and the measurement principles and detection technologies applied to it. 15th Topics for clinical tests Understand recent topics in clinical testing. Can review all of previous lectures. 16th Final exam Final exam Evaluation Method and Weight (%) Examination Presentation Subtotal 80 20 100 Basic Proficiency 0 0 0 Specialized Proficiency 80 20 100		13th	Genetic Testing (2)		Same as above		
Induction leader tests Can review all of previous lectures. 16th Final exam Evaluation Method and Weight (%) Examination Subtotal 80 Basic Proficiency 0 0 0 Subtotal 80 20 100 100 100 100 100		14th	Microbiology Testing		technologies. Understand the test equipment used for microbiology testing and the measurement		
Evaluation Method and Weight (%)ExaminationPresentationTotalSubtotal8020100Basic Proficiency000Specialized Proficiency8020100		15th	Topics for clinical tests		Understand recent topics in clinical testing. Can review all of previous lectures.		
ExaminationPresentationTotalSubtotal8020100Basic Proficiency000Specialized Proficiency8020100		16th	Final exam				
Subtotal 80 20 100 Basic Proficiency 0 0 0 Specialized Proficiency 80 20 100	Evaluation Me	thod and	Weight (%)				
Basic Proficiency000Specialized Proficiency8020100			Examination	Presentation		Total	
Specialized Proficiency 80 20 100	Subtotal		80	20		100	
	Basic Proficiency		0	0		0	
Cross Area Proficiency 0 0 0	Specialized Profici	ency				100	
	Cross Area Profici	ency	0	0		0	

Akashi College		Year	Year 2023		Course Title	Image Engineering			
	Informa	-			1				
Course Co		5529			Course Category		ed / Elective		
Class For	mat	Lecture	Land Computer F		Credits		c Credit: 2		
Departme	ent	Compute	er Engineering Cou	and Computer Engineering Service Servi		5th			
Term		Second S	Semester		Classes per Week	Veek 2			
Textbook Teaching	and/or Materials	利用しな	い。適宜資料を配布	する。					
Instructor	r	NAKAI Y	uichi						
Course	Objectiv	es							
(2) 画像情	「報の性質を	理解し、面	適用例を理解する。 象符号化技術が必要 澂を理解する。 画像符号化技術の実	とされる理由を理約	解する。				
Rubric									
			理想的な到達レイ	ベルの目安	標準的な到達レベル	レの目安	未到達レベルの目安		
評価項目1	L		画像符号化技術の 例を十分に説明 ⁻	D応用範囲・適用 できる。	画像符号化技術の尿 例を説明できる。	芯用範囲・適用	画像符号化技術の応用範囲・適用 例を説明できない。		
評価項目2	2		画像情報の性質を 号化技術が必要で 確に説明できる。	を理解し、画像符 とされる理由を的	画像情報の性質を現 号化技術が必要とす 明できる。	里解し、画像符 される理由を説	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		
評価項目3	3		各種の画像符号の具体的に説明である	比の概要と特徴を きる。	各種の画像符号化の 説明できる。	D概要と特徴を	各種の画像符号化の概要と特徴を 説明できない。		
評価項目4	1		基本的な画像処理	= 00 里技術および画像 祭を的確に説明で	基本的な画像処理技行号化技術の実際な	支術および画像 を説明できる。			
Assigne	ed Depar	tment Ob							
	ng Metho		3						
Outline		る。本講	義では画像情報の性	「皙を簡単に説明し」	データ量を削減する た後、各種画像符号 で学んだ知識を確実	化方式について	象符号化あるいは画像圧縮)は必須でな 講義を行う。さらに、行列演算ソフ		
Style		いては、	スライドを用いて内 指定された処理を行 説明を行う。	ライドを用いて内容の説明を行う。また、学修科目であるので、半期の間に3~4つの課題を課す。課題につ 定された処理を行うプログラムを作成する内容であるので、あらかじめ課題で使うことのできるアプリケー 明を行う。					
Notice		本科目は、 90時間に 出が必須 評価の対	、授業で保証する学 相当する学習内容で である。課題はプロ 象としない欠席条件	習時間と、予習・ である。学修単位で レグラミングなので -(割合) 1/3以上の	復習及び課題レポー なり、半期の間に3 [,] 、プログラムの経験; 次課	ト作成に必要な 〜4の課題を課 があることが望	標準的な自己学習時間の総計が、 す。単位の習得にはすべての課題の提 ましい(言語は問わない)。		
Charact	teristics of	of Class /	Division in Lea	arning					
Active	e Learning		☑ Aided by IC	Г	☑ Applicable to F	Remote Class	 Instructor Professionally Experienced 		
Course	Dlan								
Course	Plan								
			Theme		G	oals			
			Theme 画像情報の性質		-	oals イジタル化され といわれる。 うことが起きる	れた画像情報は一般に強い相関性を持 目関性とは何か、相関性が強いとどう 5のかについて説明できる。		
		1st		里(1)		ィジタル化され といわれる。 うことが起きる			
		1st 2nd	画像情報の性質		デンい	ィジタル化され といわれる。れ うことが起きる 題を行うために	こ用いるPythonの利用方法を理解する		
	3rd	1st 2nd 3rd	画像情報の性質 Octaveでの画像処 ³	里(2)	デアでい デアでい 課 。 各	ィジタル化され といわれる。 うことが起きる 題を行うための thonを用いて 種符号化におい	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ		
	3rd Quarter	1st 2nd 3rd 4th	画像情報の性質 Octaveでの画像処 Octaveでの画像処	理(2) 1(1)	デーマン デーマン 手 の 名 一 て し い ア マ つ い い ア マ つ い い ア マ つ い い ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ ろ	イジタル化され といわれる。れ うことが起きる 題を行うための れhonを用いて 種符号化におい 符号化の考えフ ントロピー符号	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロビ うを説明できる。 引化の代表的な手法としてHuffman行		
		1st 2nd 3rd 4th 5th	画像情報の性質 Octaveでの画像処 Octaveでの画像処 エントロピー符号们	理(2) 1(1)	ーデアでしい デアでしい 課 。 PN 名 一 工 号 最	イジタル化され といわれる。れ うことが起きる。 題を行うために れhonを用いて 種符号化におい 符号化の考えフ ントロピー符号 化、算術符号 も単純なクラフ	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ を説明できる。 引化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ		
2nd		1st 2nd 3rd 4th 5th 6th	画像情報の性質 Octaveでの画像処 ³ Octaveでの画像処 ³ エントロピー符号们 エントロピー符号们	理(2) 1(1)	- ゴア()い - デア()い - 課 - 名 - 二 - 二 - 二 - 二 - 二 - 二 - 二 - 二	ィジタル化され といわれる。れ うことが起きる 題を行うために たかのを用いて 種符号化の考えフ ントロピー符号 化、算術符号 に、 で、 その原理 測符号化の特徴	Nて併用されることの多いエントロピ 5を説明できる。 そ化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ が説明できる。 物について説明し、欠点を補う方法等		
2nd Semeste		1st 2nd 3rd 4th 5th 6th 7th	画像情報の性質 Octaveでの画像処 Octaveでの画像処 エントロピー符号们 エントロピー符号们 予測符号化(1) 予測符号化(2)	理(2) 1(1)	- デバル デバル 課。 	イジタル化され といわれる。れる うことが起きる 題を行うために たいのを用いて 種符号化の考えフ ントロピー符号 化、算術符号 化、も単純なクラフ て、その原理想	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ を説明できる。 引化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ が説明できる。 物について説明し、欠点を補う方法等		
		1st 2nd 3rd 4th 5th 6th 7th 8th	画像情報の性質 Octaveでの画像処 Octaveでの画像処 エントロピー符号(エントロピー符号(予測符号化(1)	理(2) 1(1)	- デアンレ - デアンレ - 課 - P 名 - 工 号 最 い 予 - - - - - - - - - - - - -	イジタル化され といわれる。れ うことが起きる。 題を行うために たけののを用いて 種符号化の考えフ ントロピー符号 化、算術なクラフ て、そりに説明です 漁符号にの特徴 ついて説明です 換符号ムの次元 満である二次元	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ ちを説明できる。 合化の代表的な手法としてHuffman符 との概要を説明できる。 なの画像符号化である予測符号化につ が説明できる。 なについて説明し、欠点を補う方法等 きる。 してたいの主人の主人の主人の主人の主人の主人の主人の主人の主人の主人の主人の主人の主人の		
Semeste		1st 2nd 3rd 4th 5th 6th 7th 8th 9th	画像情報の性質 Octaveでの画像処 Octaveでの画像処 エントロピー符号(エントロピー符号(予測符号化(1) 予測符号化(2) 中間試験	理(2) 1(1)	- デアンレ - デアンレ : 課。 - P. 名 - 工 号 最い 予た - 変流 て D	イジタル化され うことがうために たいわれる。 まる 、たいのを行うために ために た符うために ために た符らために たやのを用いて たで たやのを用いて たで たののを用いて たで たのの たの たの たの たの にて にて たの にて にて にて にて にて にて にて にて にて にて	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ ちを説明できる。 引化の代表的な手法としてHuffman名 との概要を説明できる。 れのできる。 なについて説明し、欠点を補う方法等 きる。 む方を説明し、現在の画像符号化の主 離知コサイン変換(DCT)の概要につい		
Semeste	Quarter	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th	画像情報の性質 Octaveでの画像処 ロントロピー符号(エントロピー符号(予測符号化(1) 予測符号化(2) 中間試験 変換符号化(1)	理 (2) (1) (2)	- デアンレ 課。 - PA - 工号 最い 予に - 2 変流て D 説 変	マジタル化され シシカれる。 オンシカれる。 して、 ために ために たかに たかに たかに たかに たかに たかに たかに たか	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ ちを説明できる。 化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ が説明できる。 なについて説明し、欠点を補う方法等 きる。 たっを説明し、現在の画像符号化の主 推散コサイン変換(DCT)の概要につい した画像符号化法であるJPEGについて たすた式として注目されているウエー		
Semeste	Quarter	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th	画像情報の性質 Octaveでの画像処 ロントロピー符号(エントロピー符号(予測符号化(1) 予測符号化(2) 中間試験 変換符号化(1) 変換符号化(2)	理 (2) (1) (2)	- デフロレ - デフロレ 課。 - P. 名一 工号 最い 予に - 変流て D説 変ブ ス - ス - ス - ス - ス - ス - ス - ス	マジタル化され うことでうために たいのでを用いて 種符ン化でする。 を行うために たいのを用いて 種符と口写術なクラン で説明で、 行ちにして、 神でものの時でで でででする。 ででででする。 でででで、 のの、 たででで、 のの、 たででで、 のの、 たでで、 のの、 たでで、 のの、 たでで、 のの、 たでで、 のの、 たでで、 のの、 たでで、 のの、 たでで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 たで、 のの、 のの、 たい のの、 のの、 たい のの。 のの、 のの、 のの、 のの、 のの、 のの、 のの、 のの、 のの、	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ ちを説明できる。 引化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ が説明できる。 なについて説明し、欠点を補う方法等 もる。 たのので見明し、欠点を補う方法等 ものののののののできる。 なたすを説明し、現在の画像符号化の主 能しつけて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等 していて説明し、欠点を補う方法等		
Semeste	Quarter	1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th	画像情報の性質 Octaveでの画像処 Octaveでの画像処 エントロピー符号们 エントロピー符号们 予測符号化(1) 予測符号化(2) 中間試験 変換符号化(1) 変換符号化(2)	理 (2)	アンレ 課。 P.名 工号 この ア 名 工号 最い 予に 変流て D説 変ブ ス概 ベ ベ	インシントレーシーン インシントン・シントン・シントン・シントン・シントン・シントン・シントン・シント	こ用いるPythonの利用方法を理解する 課題として出される処理ができる。 いて併用されることの多いエントロピ ちを説明できる。 引化の代表的な手法としてHuffman符 との概要を説明できる。 への画像符号化である予測符号化につ が説明できる。 なについて説明し、欠点を補う方法等 もる。 た画像符号化法であるJPEGについて 世代方式として注目されているウエー ついて概要を説明できる。 2. た画像符号化法であるJPEGについて 世代方式として注目されているウエー ついて概要を説明できる。		

		15th	動画像符号化			各種動画像符号化方式について概要を説明できる。			
		16th	期末試験						
Evaluatio	Evaluation Method and Weight (%)								
	訂	式験	発表	相互評価	態度	課題	その他	Total	
Subtotal	7	0	0	0	0	30	0	100	
基礎的能力	0		0	0	0	0	0	0	
専門的能力	7	0	0	0	0	30	0	100	
分野横断的	能力 0		0	0	0	0	0	0	

Akashi College		Year	2023			ourse Fitle	Qualifications in Computer Engineering I		
Course	Informa	tion							
Course Co	ode	5530			Course Categor	у	Specializ	ed / Elective	
Class For	nat	その他			Credits		School C	redit: 1	
Departme	ent		and Computer E Engineering Co		Student Grade		5th		
Term		Year-roun	d		Classes per We	ek	1		
Textbook Teaching									
Instructor	-	NAKAI Yu	ichi						
Course	Objectiv	es							
Informati	on Techno	loav Enainee	r Examination:	ternal organization le for credit certific Applied Information nd no evaluation is	on Technoloav Er	naineer	ormation s	technology. If students pass any	
Rubric			Ideal Level		Standard Level			Unacceptable Level	
Acciano	Assigned Department Objectives								
			ectives						
reachin	g Metho								
Outline This course is taken as a subject to award credits according to the results of the certification exams held by an external organization as results of the study in the field of information technology. If students pass any the designated external certification exams, they will be awarded one credit by completing certain procedu by the deadline specified by the Student Services Division.								chnology. If students pass any of	
Style			,	ication exams, an					
Notice		A certificate of passing or proof of passing is required for credit approval, and t after the winter holidays and up to the date specified by the Academic Affairs of is not submitted within this period, the credit will not be approved. Keep the de No conditions for missing classes that will not be eligible for a passing grade.						nd the application period shall be rs Office. If a certifying document e deadline. e.	
Charact	eristics of	of Class / I	Division in Le	arning					
Active			□ Aided by IC		Applicable to	o Remo	ote Class	□ Instructor Professionally Experienced	
Course	Plan								
		Т	heme			Goals			
		1	elf-study			Self-study for certification exams (no lecture)			
			ame as above			Same as above			
		3rd S	ame as above			Same a	Same as above		
	1st	4th S	ame as above			Same a	me as above		
	Quarter	5th S	ame as above			Same a	ne as above		
		6th S	ame as above			Same a	ne as above		
		7th S	ame as above			Same a	ame as above		
1st		8th S	ame as above		Same as				
Semeste r		9th S	ame as above			Same as above			
		10th S	ame as above			Same as above			
		11th S	ame as above			Same as above			
	2nd	12th S	ame as above			Same as above			
	Quarter	13th S	ame as above		Same a				
		14th S	ame as above			Same a			
		15th S	ame as above			Same as above			
		16th N	o final exam						
		1st S	elf-study			Self-st	udy for c	ertification exams (no lecture)	
		2nd S	ame as above			Same a	as above		
		3rd S	ame as above			Same a	as above		
	3rd	4th S	ame as above			Same a	as above		
	Quarter	5th S	ame as above			Same a	as above		
		6th S	ame as above			Same a	ame as above		
	7t		ame as above			Same as above			
2nd 8th		8th S	ame as above			Same as above			
r <u>9th</u>		9th S	Same as above			Same as above			
			ame as above			Same a	as above		
			ame as above			Same a	as above		
	4th		ame as above			Same a	as above		
	Quarter		ame as above			Same a	as above		
			ame as above			Same a	as above		
		15th S	ame as above			Same a	as above		
		16th N	o final exam			Same as above			

Evaluation Method and Weight (%)									
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	0	0	0	0	0	100	100		
Basic Proficiency	0	0	0	0	0	0	0		
Specialized Proficiency	0	0	0	0	0	100	100		
Cross Area Proficiency	0	0	0	0	0	0	0		

Akashi College		Year	2023			Course Qualifications in Course Title Engineering II				
Course	Informat	tion								
Course Co	ode	5531			Course Catego	ry	Specializ	ed / Elective		
Class Forr	mat	その他			Credits		School C	redit: 1		
Departme	ent	Electrical a Computer E	nd Computer E Engineering Co	ngineering urse	Student Grade		5th			
Term		Year-round			Classes per We	ek	1			
Textbook Teaching	and/or Materials				•					
Instructor	-	NAKAI Yuic	hi							
Course	Objectiv	es								
students Information If student Qualification	pass the fo on Techno s have obt ions I, the	bllowing qualif logy Engineer tained the equ y will be grant	ications, they v Examination: S ivalent of Infor ed one credit f	vill be eligible for a	credit certification h field), and Regions II they do n Information Qu	on. gisterec ot have alificat	d Informa e the equ	ts of information technology. If tion Security Specialist ivalent of Information d II.		
Rubric										
			Ideal Level		Standard Level			Unacceptable Level		
		tment Obje	ctives							
Teachin	g Metho	d								
Outline		an external	organization a ted external ce	s results of the st	udy in the field of the	of infor	mation te	f the certification exams held by echnology. If students pass any of t by completing certain procedures		
Style				exams (no lectur	-)					
Notice		after the w	inter holidays a nitted within thi	proof of passing is nd up to the date s period, the cred classes that will n	specified by the	e Acade proved	émic Affai Keen th	nd the application period shall be rs Office. If a certifying document e deadline. e.		
Charact	eristics of	of Class / D	ivision in Le	arning						
Active	Learning		□ Aided by IC	Т	□ Applicable t	o Rem	ote Class	 Instructor Professionally Experienced 		
Course	Plan	, <u>,</u>								
			eme			Goals				
			lf-study				elf-study for certification exams (no lecture)			
			me as above			Same as above				
			me as above			Same as above				
	1st Quarter		me as above				Same as above			
	Quarter		me as above			Same as above				
			me as above			Same as above				
1st			me as above			Same as above				
Semeste			me as above me as above			Same as above Same as above				
r			me as above			Same as above				
			me as above		Same as above					
	Jand		me as above			Same as above				
	2nd Quarter		me as above			Same as above				
			me as above			Same as above				
			me as above			Same				
			final exam				as above			
			lf-study					ertification exams (no lecture)		
			me as above				as above	· · · · ·		
			me as above			Same as above				
	3rd		me as above			Same as above				
	Quarter		me as above			Same as above				
			me as above			Same	as above			
2nd 7th		7th Sa	me as above			Same as above				
r	r 8th Same as above					Same	as above			
		9th Sa	me as above			Same	as above			
		10th Sa	me as above			Same	as above			
	4th	11th Sa	me as above			Same	as above			
	Quarter	12th Sa	me as above			Same	as above			
		13th Sa	me as above			Same	as above			
		14th Sa	Same as above				Same as above			

	15th	Same as above			Same as above	2				
	16th	No final exam								
Evaluation Method and Weight (%)										
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal	0	0	0	0	0	100	100			
Basic Proficiency	0	0	0	0	0	0	0			
Specialized Proficiency	0	0	0	0	0	100	100			
Cross Area Proficiency	0	0	0	0	0	0	0			