

Akashi College					Electrical and Computer Engineering								Year				2022										
Department Goals																											
Course Category		Course Title	Course Code	Credit Type	Credits	Class Hours per Week																Instructor	Division in Learning				
						1st Year				2nd Year				3rd Year				4th Year						5th Year			
						1st		2nd		1st		2nd		1st		2nd		1st		2nd				1st		2nd	
						1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			1Q	2Q	3Q	4Q
General	Compulsory	Japanese I	4101	School Credit	2	2	2															ZENTOH Masashi					
General	Compulsory	History	4102	School Credit	2	2	2																ARAKAWA Hironori				
General	Compulsory	Mathematics I A	4103	School Credit	4	4	4																TAKATA Isao				
General	Compulsory	Mathematics I B	4104	School Credit	2	2	2																OMODA Yasuhiro				
General	Compulsory	Science I	4105	School Credit	2	2	2																TAKEUCHI Masahiro				
General	Compulsory	Physical Education I	4106	School Credit	2	2	2																GOTOH Takayuki,ISHIDA Masami,KOYABAYASHI Yuki				
General	Compulsory	English I A	4107	School Credit	2	2	2																AKIMOTO Hiromi				
General	Compulsory	English I B	4108	School Credit	2	2	2																INOUE Hidetoshi				
General	Compulsory	Introduction to Active Learning	4109	School Credit	1	2																	TAKEDA Naho,HIRANO Masatsugu,ARAKI Yuki,ANDONO Yuta				
General	Compulsory	Introduction to Data Science	4110	School Credit	1	2																	TSUCHIHADA Takayuki,NOMURA Hayato				
General	Compulsory	Exercise in Data Science	4111	School Credit	1			2															TSUCHIHADA Takayuki,NOMURAHayat o,ENOMOTORyuji				
General	Elective	Music	4112	School Credit	2	2	2																IZUMI Yuka				

General	Elective	Art	4113	School Credit	2	2 2																OHNO Ryohei	
General	Compulsory	Japanese I	4119	School Credit	5	6 4																KUBOTA Ikumi	
General	Compulsory	Japanese Culture and Society	4120	School Credit	1	2																KUBOTA Ikumi	
Specialized	Compulsory	Literacy for Disaster Risk Reduction	4114	School Credit	1																	NABESHIMA Yasuyuki,MOTOZUKA Tomoki	
Specialized	Compulsory	Electric Circuits I	4115	Academic Credit	2																	OHMUKAI Masato	
Specialized	Compulsory	Computer Programming I	4116	Academic Credit	2																	ENOMOTO Ryuji	
Specialized	Compulsory	Computer Literacy	4117	School Credit	2	2 2																NAKAI Yuichi	
Specialized	Compulsory	Fundamental Experiments of Electrical & Computer Engineering	4118	School Credit	1	2																KAJIMURA Yoshihiro,HIRATA Sushii	
Specialized	Compulsory	Fundamentals of Engineering	4121	School Credit	1																	KUBOTA Ikumi	
General	Compulsory	Japanese II-1	5201	School Credit	1																	ZENTOH Masashi	
General	Compulsory	Japanese II-2	5202	School Credit	1																	ZENTOH Masashi	
General	Compulsory	Introduction to Global Studies	5203	School Credit	1																	Lukminait-Anand Simon a	
General	Compulsory	Public	5204	School Credit	1																	KUROKUI Yoshi mi	
General	Compulsory	Mathematics II A-1	5205	School Credit	2																	NAGAO Hidehi to	
General	Compulsory	Mathematics II A-2	5206	School Credit	2																	NAGAO Hidehi to	
General	Compulsory	Mathematics II B-1	5207	School Credit	1																		

General	Compulsory	Mathematics II B-2	5208	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2															
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General	Compulsory	Science II A-1	5209	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																TAKEUCHI Masahiro	
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General	Compulsory	Science II A-2	5210	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														TAKEUCHI Masahiro	
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General	Compulsory	Science II B-1	5211	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																SAKURAI Yasuhiro	
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General	Compulsory	Science II B-2	5212	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														SAKURAI Yasuhiro	
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General	Compulsory	Physical Education II-1	5213	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																ISHIDA Masami,KO BAYASHI Yuki	
				2																								
General	Compulsory	Physical Education II-2	5214	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														GOTOH Takayuki,ISHIDA Masami	
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General	Compulsory	English II A-1	5215	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																HERBERT John C.	
				2																								
General	Compulsory	English II A-2	5216	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														INOUE Hidetoshi	
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General	Compulsory	English II B-1	5217	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																INOUE Hidetoshi	
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General	Compulsory	English II B-2	5218	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														INOUE Hidetoshi	
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General	Compulsory	Co + work I A	5219	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					2																All faculty	
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General	Compulsory	Co + work I B	5220	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														All faculty	
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General	Elective	I C T資格 I	5221	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					1		1														TAKEUCHI Masahiro	
				1		1																						
General	Elective	数学資格 I	5222	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					1		1														NAGAO Hidehito	
				1		1																						
General	Compulsory	Japanese II -1	5223	School Credit	2	<table><tr><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					4																KUBOTA Ikumi	
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General	Compulsory	Japanese II -2	5224	School Credit	1	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							2														KUBOTA Ikumi	
						2																						

General	Common	日本語総合演習 I	5225	School Credit	1							2							KUBO TA Ikumi	
Specialized	Common	Electric Circuits II A	5226	Academic Credit	2					2									KAJIMURA Yoshihiro	
Specialized	Common	Electric Circuits II B	5227	Academic Credit	2						2								KAJIMURA Yoshihiro	
Specialized	Common	Computer Programming II A	5228	Academic Credit	2					2									TSUCHIDA Takayuki	
Specialized	Common	Computer Programming II B	5229	Academic Credit	2						2								HIRANO Masatsugu	
Specialized	Common	Electrical and Electronic Measurement A	5230	School Credit	1					2									HOSOKAWA Atsushi	
Specialized	Common	Electrical and Electronic Measurement B	5231	School Credit	1						2								HOSOKAWA Atsushi	
Specialized	Common	Microcomputer	5232	Academic Credit	2					2										
Specialized	Common	Experiments of Electrical and Computer Engineering I	5233	School Credit	2						4								KAJIMURA Yoshihiro,SUYAMA Taikai,HOSOKAWA Atsushi,ENOMOTO Ryuji,	
General	Common	Japanese III -1	6301	School Credit	1							2							TANG E Atsuko	
General	Common	Japanese III -2	6302	School Credit	1								2							
General	Common	Political Science-1	6303	School Credit	1							2								
General	Common	Political Science-2	6304	School Credit	1								2							
General	Common	Mathematics III A-1	6305	Academic Credit	2							2							MATSUMIYA Atusi	
General	Common	Mathematics III A-2	6306	Academic Credit	2								2						MATSUMIYA Atusi	
General	Common	Mathematics III B	6307	Academic Credit	2							2								

[illegible]

Specialized	Computer	Electromagnetics I	6325	Academic Credit	2															OHMU KAI Masato	
Specialized	Computer	Circuit Theory A	6326	School Credit	1									2						HOSO KAWA Atsushi	
Specialized	Computer	Circuit Theory B	6327	School Credit	1									2						SUYAMA Taikei	
Specialized	Computer	Introduction to Electrical Engineering	6328	Academic Credit	2									2						HIROTA Atsushi	
Specialized	Computer	Introduction to Computer Engineering	6329	Academic Credit	2									2						TSUCHIDA Takayuki	
Specialized	Computer	Digital Circuits A	6330	School Credit	1									2						HOSO KAWA Atsushi	
Specialized	Computer	Digital Circuits B	6331	School Credit	1									2						OHMU KAI Masato	
Specialized	Computer	Experiments of Electrical and Computer Engineering II A	6332	School Credit	2									4						SUYAMA Taikei, HOSO KAWA Atsushi, HIROTA Atsushi,	
Specialized	Computer	Experiments of Electrical and Computer Engineering II B	6333	School Credit	2									4						SUYAMA Taikei, HIROTA Atsushi,	

Akashi College		Year	2022		Course Title	Japanese I
Course Information						
Course Code	4101			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	1st	
Term	Year-round			Classes per Week	2	
Textbook and/or Teaching Materials	中島国彦 他『精選現代の国語』『精選言語文化』（明治書院）『新訂総合国語便覧』（第一学習社）					
Instructor	ZENTOH Masashi					
Course Objectives						
1)論理的な文章（論説や評論）の構成や展開を的確にとらえ、要約できる。 2)文学的な文章（小説や随筆）に描かれた人物やものの見方を表現に即して読み取り、自分の意見を述べることができる。 3)整理した情報をもとに、主張が効果的に伝わるように論理の構成や展開を工夫した報告を行ったり、文章を作成することができる。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	構成と展開を説明でき、大意を捉えて要約ができる。		構成が説明でき、要約できる。		要旨は分かるが、構成を捉えられない。	
評価項目2	人物形象から主題を捉え、批判的に考察できる。		登場人物の整理ができ、主題が捉えられる。		人物造型の違いは把握できるが、主題が捉えられない。	
評価項目3	明確な意見・結論を論理的・実証的文章として構成・展開できる。		明確な意見とそれを表す段落構成を作成できる。		結論・意見を設け、段落分けできるが論理性・実証性に乏しい。	
Assigned Department Objectives						
Teaching Method						
Outline	小説や評論、古典文学など、様々な文章を読むことを通し、豊かな感性と論理的思考力を養い、的確な読解力と表現力を獲得する					
Style	授業は講義形式で行う。適宜に小テストを行い、習熟度を確認する。					
Notice	国語は理科系科目も含めすべての教科の基礎であることを念頭に、予習・復習を怠らず積極的に授業に取り組むこと合格の対象としない欠席条件(割合) 1/3以上の欠課					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	授業ガイダンス、「マルジャーナの智慧」の読解	一年間の目標を立てることができる		
		2nd	「マルジャーナの智慧」の読解	表現に即して内容を適切に理解することができる		
		3rd	「マルジャーナの智慧」の読解	内容を理解した上で、自分の意見を述べることができる		
		4th	「羅生門」の読解	表現に即して内容を理解することができる		
		5th	「羅生門」の読解	表現に即して登場人物の人物像を読み取ることができる		
		6th	「羅生門」の読解	登場人物たちのやり取りを適切に理解し、物語の展開を読み取ることができる		
		7th	「羅生門」の読解	主題を理解し、作品に対する自分の意見を述べることができる		
		8th	「羅生門」の読解	作品の特徴を文学史的位置を含めて理解できる		
	2nd Quarter	9th	「伊勢物語」の読解	文学史の上から理解できる。適切に音読し、文意を理解できる		
		10th	「伊勢物語」の読解	適切に解釈し、教科書の設問に答えることができる		
		11th	「宇治拾遺物語」の読解	文学史の上から理解できる。適切に音読し、文意を理解できる		
		12th	「宇治拾遺物語」の読解	適切に解釈し、教科書の設問に答えることができる		
		13th	「美意識は資源である」の読解	適切に音読でき、本文の構成と展開を説明できる		
		14th	「美意識は資源である」の読解	作品内容に対して批判的意見をあげることができる		
		15th	「美意識は資源である」の読解	作品内容に対して批判的意見をあげることができる		
		16th	期末試験			
2nd Semester	3rd Quarter	1st	「働くことの意味」の読解	論説文について、適切に音読し、表現に即して構成を理解することができる		
		2nd	「働くことの意味」の読解	論説文について、論理的展開と論証を理解し、説明することができる		
		3rd	「働くことの意味」の読解	論説文について、論理的展開と論証を理解し、説明することができる		
		4th	「平家物語」の読解	文学史上の評価、古文の文法について理解し、作品の様式が理解できる		
		5th	「平家物語」の読解	文学史上の評価、古文の文法について理解し、作品の様式が理解できる		
		6th	「平家物語」の読解	人物造型を把握し、作者の主題意識を理解することができる		

		7th	「平家物語」の読解	読み本系・語り本系の違いを念頭に、場面の特徴を理解することができる
		8th	「平家物語」の読解	史的位置をとらえ、作品評価としての意見をあげることができる
	4th Quarter	9th	「世界中がハンバーガー」の読解	適切に音読し、表現に即して構成を理解することができる
		10th	「世界中がハンバーガー」の読解	論理的展開と論証を理解し、説明することができる
		11th	「世界中がハンバーガー」の読解	教科書の設問に答え、主題を理解することができる
		12th	「蛇足」の読解	漢文の基本的読解法を理解し、適切に音読できる
		13th	「蛇足」の読解・「唐詩」の読解	内容を理解し、文化的影響をとらえることができる
		14th	「唐詩」の読解	漢詩のきまりを理解した上で個々の作品を鑑賞することができる
		15th	「唐詩」の読解	漢詩のきまりを理解した上で個々の作品を鑑賞し、作品評価することができる
		16th	期末試験	

#### Evaluation Method and Weight (%)

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



Akashi College		Year	2022		Course Title	History
Course Information						
Course Code	4102			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	1st	
Term	Year-round			Classes per Week	2	
Textbook and/or Teaching Materials	岸本美緒他『新世界史』山川出版社『ニューステージ世界史詳覧』浜島書店					
Instructor	ARAKAWA Hironori					
Course Objectives						
1,世界の近現代史の基本的出来事、流れが把握できる。 2,歴史的事象と時代背景との関連が理解できる。 3,日本と他のアジア諸国との歴史的関係を理解し説明できる。 4,現代起こっている世界の諸問題を歴史から考察することが出来る。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	世界の近現代史の基本的出来事、流れが十分把握できる。		世界の近現代史の基本的出来事、流れがほぼ把握できる。		世界の近現代史の基本的出来事、流れが十分把握できない。	
評価項目2	歴史的事象と時代背景との関連が十分に理解できる。		歴史的事象と時代背景との関連がほぼ理解できる。		歴史的事象と時代背景との関連が理解できない。	
評価項目3	日本と他のアジア諸国との歴史的関係を十分に理解し説明できる。		日本と他のアジア諸国との歴史的関係をほぼ理解し説明できる。		日本と他のアジア諸国との歴史的関係を十分に理解し説明できない。	
評価項目4	現代起こっている世界の諸問題を歴史から十分に理解し考察することが出来る。		現代起こっている世界の諸問題を歴史からほぼ理解し考察することが出来る。		現代起こっている世界の諸問題を歴史から十分に理解し考察出来ない。	
Assigned Department Objectives						
Teaching Method						
Outline	現代社会で生活する以上、近現代史の理解は必要不可欠である。日本を含めたアジアおよびヨーロッパ、アフリカそして中東の19・20世紀の歴史を理解し、現在世界で起こっている諸問題の歴史的過程を明らかにする。					
Style	映像資料を含めた資料・史料を使い授業を展開する。プリントなどは適宜配布予定であるが、教科書・ノートを毎回準備すること。自学自習を欠かさず行って自ら歴史から考えていくという姿勢で臨んでもらいたい。					
Notice	合格の対象としない欠席条件(割合) 1/3以上の欠課					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester r	1st Quarter	1st	帝国主義とは	帝国主義について説明できる。		
		2nd	中世以降のヨーロッパ諸国の植民活動	中世以降のヨーロッパの植民活動について地理的なものを含めた総理解が出来る。		
		3rd	アフリカ分割	アフリカ分割、ファシヨダ事件とその影響について説明できる。南ア戦争とその歴史的意義について説明できる。		
		4th	アヘン戦争、アロー戦争	アヘン戦争、アロー戦争とその影響について説明できる。		
		5th	太平天国と洋務運動	太平天国、洋務運動影響について説明できる。		
		6th	日清戦争・変法自強運動	変法自強運動、日清戦争とその影響について説明できる。		
		7th	日露戦争と辛亥革命	北清事変、日露戦争、辛亥革命とその影響について説明できる。		
		8th	「JICA国際協力中学生・高校生エッセイコンテスト」応募に向けて・交換留学について 図書館ツアー	政府組織としての国際協力について説明できる。長期交換留学に関して説明できる。 開架・書庫において本の閲覧と貸し出しが出来る。		
	2nd Quarter	9th	普仏戦争・ドイツの統一・ビスマルク外交	ドイツの統一の過程とその影響について説明できる。		
		10th	三国同盟と三国協商	三国同盟と三国協商およびその影響について説明できる。		
		11th	バルカン半島・民族のモザイク	サラエボ事件とその歴史的意義について説明できる。		
		12th	第一次世界大戦・大国の思惑と民族主義	第一次世界大戦とその歴史的意義について説明できる。		
		13th	五四運動・国共合作	五四運動、国共合作とその影響について説明できる。		
		14th	満州事変・西安事件	北伐、満州国建国、長征、西安事件とその影響について説明できる。		
		15th	エンジニアができる国際開発とは・エッセイコンテストに向けて	JICAなど国際開発の現状、国際に関する理解ができ、説明が出来る。		
		16th	期末試験			
2nd Semester r	3rd Quarter	1st	ムガル帝国の凋落・インドの植民地化			
2nd		インド国民会議の成立・ガンディーの登場				

		3rd	塩の行進からインド独立	ガンディーの運動と植民地以降のインドパキスタンの対立に関して説明が出来る。
		4th	19世紀以降のロシアの改革	ロシア革命以前のロシアの体制に関する説明が出来る。
		5th	ロシア革命	3月革命、11月革命とその歴史的意義について説明できる。
		6th	ベルサイユ体制とワシントン体制	ヴェルサイユ体制、ワシントン体制、国際連盟とこれらの歴史的意義について説明できる。
		7th	アメリカの繁栄・黄金の20年代	パクスアメリカーナに関する説明が出来る。
		8th	パクスアメリカーナ	アメリカの現状に関する理解をし、アメリカの世界における役割を説明できる。
	4th Quarter	9th	世界恐慌・ブロック経済	世界恐慌の拡大過程とその影響について説明できる。
		10th	ナチスドイツの成立	なぜナチスが生まれ、ドイツがそれを受容したのかの過程についての説明が出来る。
		11th	第二次世界大戦	ポーランド侵攻、第二次世界大戦とその影響について説明できる。
		12th	東西冷戦	ベルリン封鎖、キューバ危機とこれらの歴史的意義について説明できる。
		13th	中華人民共和国の成立・大躍進	1949年、中ソ論争とその影響について説明できる。
		14th	文化大革命・改革開放	大躍進、文化大革命、さらに改革開放路線、香港返還とその影響について説明できる。
		15th	朝鮮半島の近現代史・スタディツアーに向けて	朝鮮半島の近現代史に関する説明が出来る。
		16th	期末試験	

#### Evaluation Method and Weight (%)

	試験	ノートを含む提出物	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	70	20	5	5	0	0	100
基礎的能力	70	20	5	5	0	0	100
専門的能力	0	0	0	0	0	0	0
分野横断的能力	0	0	0	0	0	0	0

Akashi College		Year	2022		Course Title	Mathematics I A
Course Information						
Course Code	4103			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 4	
Department	Electrical and Computer Engineering			Student Grade	1st	
Term	Year-round			Classes per Week	4	
Textbook and/or Teaching Materials	新基礎数学 高遠節夫ほか著（大日本図書）、同問題集					
Instructor	TAKATA Isao					
Course Objectives						
1) To understand numbers and equations, and be able to calculate them. 2) To understand Equation and inequality, and be able to solve them. 3) To understand and functions and graphs, and be able to use them. 4) To understand exponential and logarithmic functions, and be able to use them. 5) To understand the principles of the number of possible outcomes and probability, and be able to calculate them.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
1) Numbers and equations	Can understand numbers and equations, and be able to calculate them.		Can understand numbers and equations.		Can not understand numbers and equations.	
2) Equation and inequality	Can understand Equation and inequality, and be able to solve them.		Can understand Equation and inequality.		Can not understand Equation and inequality.	
3)Functions and graphs	Can understand and functions and graphs, and be able to use them.		Can understand and functions and graphs.		Can nt understand and functions and graphs.	
4) Exponential and logarithmic functions,	Can understand exponential and logarithmic functions, and be able to use them.		Can understand exponential and logarithmic functions.		Can not understand exponential and logarithmic functions.	
5) Number of possible outcomes and probability	Can understand the principles of the number of possible outcomes and probability, and be able to calculate them.		Can understand the principles of the number of possible outcomes and probability.		Can not understand the principles of the number of possible outcomes and probability.	
Assigned Department Objectives						
Teaching Method						
Outline	The objective is to develop basic mathematical formulas and logical thinking skills and acquire the fundamentals of mathematics necessary in college.					
Style	Have them prepare for the syllabus using videos. Have students study in groups during class and check their understanding.					
Notice	Make sure to prepare and review properly. If you don't understand, don't leave it alone and ask a question. I want you to study independently by using the problem collection. Do CBT in any week. Absence conditions (ratio) that are not eligible for passing 1/3 or more absenteeism.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester	1st Quarter	1st	Numbers and equations		Can calculate addition, subtraction, and multiplication of formulas. Can also use exponent rules and expansion formulas.	
		2nd	Numbers and equations		Can do a simple factorization. Can also calculate the division of the formula.	
		3rd	Numbers and equations		Can factor a higher-order polynomial using the factor theorem. Can also reduce the minute formula.	
		4th	Numbers and equations		Can calculate addition, subtraction, multiplication and division of division formulas. Can also understand the equality of complex numbers and calculate their addition, subtraction, multiplication and division.	
		5th	Numbers and equations		Can understand the meaning of real numbers and absolute values. Can also understand the correspondence between complex numbers and complex planes.	
		6th	Equations and inequalities		To check was learned so far. Can solve quadratic equations by using solution formulas.	
		7th	Equations and inequalities		Can understand the relationship between solutions and coefficients and factor any quadratic expression. Can also solve simultaneous equations.	
		8th	Equations and inequalities		Can solve fractional equations and unreasonable equations. Can also understand the identity and perform partial fraction decomposition.	

2nd Semester	2nd Quarter	9th	Equations and inequalities	Can prove various equations. Can also solve the linear inequalities.
		10th	Equations and inequalities	Can solve quadratic inequalities. Can also prove the inequality.
		11th	Equations and inequalities	Can understand the sets and find the number of sets.
		12th	Equations and inequalities	Can judge the truth of a proposition. Can also state the converse, the verse, and the even number of the proposition.
		13th	Functions and graphs	To check was learned so far. Can draw a graph of a quadratic function.
		14th	Functions and graphs	Can obtain the quadratic functions. Can also understand the relationship between quadratic functions and quadratic equations.
		15th	Functions and graphs	Can understand the relationship between quadratic functions and quadratic inequalities. Also, do a comprehensive review.
		16th	End term exam	To check was learned so far.
	3rd Quarter	1st	Functions and graphs	Explain the final exam. Can understand that the graph can be symmetrically moved and scaled.
		2nd	Functions and graphs	Can draw a graph of the power function, and can distinguish between even and odd functions. Can also draw a graph of a fractional function.
		3rd	Functions and graphs	Can solve Inequalities by using graphs of fractional functions. Can also draw a graph of irrational functions.
		4th	Exponential and logarithmic functions	Can draw a graph of the inverse function. Can also understand the roots of exponentiation.
		5th	Exponential and logarithmic functions	Can understand the extension of exponent rules. Can also draw a graph of the exponential function.
		6th	Exponential and logarithmic functions	Can solve equations and inequalities of exponential functions. Can also understand the logarithm and perform simple calculations.
		7th	Exponential and logarithmic functions	Can use the logarithms change formula. Can also draw a graph of logarithmic functions.
		8th	Exponential and logarithmic functions	Can solve equations and inequalities of logarithmic functions. Can also use the common logarithm.
	4th Quarter	9th	Number of cases	To check was learned so far. Can understand the rule of product and the rule of sum and find the number of simple cases.
		10th	Number of cases	Can find the values in various order.
		11th	Number of cases	Can find the circular permutation. Can also obtain a simple combination.
		12th	Number of cases	Can obtain the various combinations. Can also obtain the repeated permutations.
		13th	Number of cases	Can understand and use the binomial theorem. Also, perform CBT.
		14th	Basics of probability	Can calculate a simple probability. Can also understand and calculate conditional probabilities.
		15th	Summary	To check was learned so far. Also, do a comprehensive review.
		16th	End term exam	To check was learned so far.

#### Evaluation Method and Weight (%)

	Examination	Comprehension confirmation test	Review quiz	Submissions such as assignments	Attendance points	Total
Subtotal	25	20	25	15	15	100
Basic Proficiency	25	20	25	15	15	100
Specialized Proficiency	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0

Akashi College		Year	2022		Course Title	Mathematics I B	
Course Information							
Course Code		4104		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		1st	
Term		Year-round		Classes per Week		2	
Textbook and/or Teaching Materials		高遠他:「新 基礎数学」大日本図書高遠他:「新 基礎数学 問題集」大日本図書					
Instructor		OMODA Yasuhiro					
Course Objectives							
三角関数、図形と方程式、数列について理解し、関連する問題を解くことができる。							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目 1		三角関数の定義を理解し、三角関数を用いる問題を解くことが十分にできる。		三角関数の定義を理解し、三角関数を用いる問題を解くことができる。		三角関数の定義を理解し、三角関数を用いる問題を解くことができない。	
評価項目 2		方程式と図形の関係について理解し、直線と2次曲線に関連する問題を解くことが十分にできる。		方程式と図形の関係について理解し、直線と2次曲線に関連する問題を解くことができる。		方程式と図形の関係について理解し、直線と2次曲線に関連する問題を解くことができない。	
評価項目 3		数列の一般項や和を求めることが十分にできる。		数列の一般項や和を求めることができる。		数列の一般項や和を求めることができない。	
Assigned Department Objectives							
Teaching Method							
Outline		三角関数、図形とその方程式、数列について学び、高専で必要とされる数学の基礎を身につける。					
Style		主に講義と問題演習により授業を進める。					
Notice		予習復習を欠かさないこと。 演習発表の評価に関してはその出来が優れている場合には割合以上の点数をつけることがある。 合格の対象としない欠席条件(割合) 1/3以上の欠課					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	三角比とその応用		三角比を求めることができる		
		2nd	三角比とその応用		鈍角の三角比を求めることができる		
		3rd	三角比とその応用		三角形の問題を正弦定理を用いて解くことができる		
		4th	三角比とその応用		三角形の問題を余弦定理を用いて解くことができる		
		5th	総括		試験により学習内容の定着度を確認し、振り返りを行う。		
		6th	三角関数		一般角の三角関数の値を求めることができる。弧度法による角度の表現ができる。		
		7th	三角関数		三角関数の相互関係や性質を説明することができる		
		8th	三角関数		三角関数のグラフを描くことができる		
	2nd Quarter	9th	三角関数		三角方程式、三角不等式を解くことができる		
		10th	総括		試験により学習内容の定着度を確認し、振り返りを行う。		
		11th	加法定理とその応用		加法定理を用いた計算ができる		
		12th	加法定理とその応用		倍角、半角の公式を用いた計算ができる		
		13th	加法定理とその応用		積和の公式などを導出でき、それらを用いた計算ができる		
		14th	加法定理のその応用		三角関数の合成ができる		
		15th	総括		試験により学習内容の定着度を確認し、振り返りを行う。		
		16th	なし				
2nd Semester	3rd Quarter	1st	点と直線		内分点、三角形の重心の計算ができる		
		2nd	点と直線		直線の方程式を求めることができる		
		3rd	点と直線		2直線の平行・垂直条件をもちいて、条件を満たす直線の方程式を求めることができる		
		4th	総括		試験により学習内容の定着度を確認し、振り返りを行う。		
		5th	2次曲線		円の方程式を求めることができる		
		6th	2次曲線		楕円の方程式や概形を求めることができる		
		7th	2次曲線		双曲線、放物線の方程式や概形を求めることができる		
		8th	2次曲線		2次曲線の接線を求めることができる		
	4th Quarter	9th	2次曲線		(連立) 不等式の表す領域を図示できる		

		10th	総括	試験により学習内容の定着度を確認し、振り返りを行う。
		11th	数列	等差数列の一般項を計算できる
		12th	数列	等比数列の一般項を計算できる
		13th	数列	いろいろな数列の和を計算できる
		14th	数列	漸化式の一般項の計算ができる 数学的帰納法を用いた証明ができる
		15th	総括	試験により学習内容の定着度を確認し、振り返りを行う。
		16th	なし	

Evaluation Method and Weight (%)

	試験	演習発表	学習態度・出席状況	その他	Total
Subtotal	30	40	30	0	100
基礎的能力	30	40	30	0	100
専門的能力	0	0	0	0	0
分野横断的能力	0	0	0	0	0

Akashi College		Year	2022		Course Title	Physical Education I	
Course Information							
Course Code		4106		Course Category		General / Compulsory	
Class Format		講義・実技		Credits		School Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		1st	
Term		Year-round		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		GOTOH Takayuki,ISHIDA Masami,KOBAYASHI Yuki					
Course Objectives							
・授業に参加して自身の健康増進、体力向上に努める。また、ある程度の自己管理能力がある。 ・それぞれの種目のルールやゲームの進め方を理解し、参加することができる。							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
授業の取り組み		主体的に授業に参加して自身の健康増進、体力向上に努める。自己管理能力が高い。		授業に参加して自身の健康増進、体力向上に努める。ある程度自己管理能力がある。		授業に参加しない。自身の健康増進、体力向上に努めない。自己管理能力が低い。	
実技		各種目の練習、ゲームに積極的に参加し、競技力が非常に高い。また、ゲーム等に大きな影響力を持つ。		各種目の練習、ゲームに積極的に参加することができる。また、その技術を身に付けている。		各種目の練習、ゲームに参加しない。	
リーダーシップ		リーダーの役割をよく理解し、チームワーク力を高めることができる。		リーダーの役割を理解して担う、もしくは引き受けることができる。		リーダーの役割を理解していない。またその役割を担うこともない。	
Assigned Department Objectives							
Teaching Method							
Outline		基礎体力の向上を図りつつ、様々なスポーツに適応できる能力を高める。また、身体活動を通して豊かな社会性を養い、ルールやマナー、安全に対する態度や知識も身につける。					
Style		ゲームや練習に積極的に参加し、その種目の楽しさを各々に発見してもらいたい。まずはルールやゲームの進め方などを覚え、基本技術の習得に努める。さらにゲームやゲーム形式練習を通して、より高度な技術を身に付け、チームワーク力も高めてほしい。受講学生と担当教員が協力して安全で雰囲気のよい授業作りをしたいと考えている。 男子前期担当：後藤 男子後期担当：小林 女子通年担当：石田（連絡員：後藤・小林）					
Notice		・学校指定のトレーニングウェア、運動靴、その他指示されたウェア等を着用すること。着用していない場合は減点の対象となる。 ・アクセサリ類、時計、その他不必要な物の着用や持ち込みを禁止する。これらも減点の対象となる。 ・遅刻は開始20分までとする。20分以後の参加は認めるが欠席扱いとする。 ・無断早退(抜け出し)が発覚した場合はその授業を欠席とし、それまでの授業も欠席同等の減点を課す。 合格の対象としない欠席条件(割合) 1/4以上の欠課					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	男女:ガイダンス		この授業の目的、目標を理解する。安全に運動を行うために準備運動が必要であることを再認識する。		
		2nd	男子:サッカー(1) / 女子:フライングディスク(1)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		3rd	男子:サッカー(2) / 女子:フライングディスク(2)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		4th	男子:サッカー(3) / 女子:フライングディスク(3)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		5th	男子:サッカー(4) / 女子:フライングディスク(4)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		6th	男子:サッカー(5) / 女子:フライングディスク(5)		ゲームに参加することができる。		
		7th	男子:サッカー(6) / 女子:フライングディスク(6)		ゲームに参加することができる。		
		8th	男子:サッカー(7) / 女子:フライングディスク(7)		ゲームに参加することができる。		
	2nd Quarter	9th	男女:バドミントン(1)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		10th	男女:バドミントン(2)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		11th	男女:バドミントン(3)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		12th	男女:バドミントン(4)		ルールやゲームの進め方を覚える。基本技術の習得に努める。		
		13th	男女:バドミントン(5)		ゲームに参加することができる。		
		14th	男女:バドミントン(6)		ゲームに参加することができる。		
		15th	男女:バドミントン(7)		ゲームに参加することができる。		
		16th	期末試験実施せず				

2nd Semester	3rd Quarter	1st	男子:バレーボール (1) / 女子:ダンス (1)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:基本技術の習得に努める。
		2nd	男子:バレーボール (2) / 女子:ダンス (2)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:基本技術の習得に努める。
		3rd	男子:バレーボール (3) / 女子:ダンス (3)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:基本技術の習得に努める。
		4th	男子:バレーボール (4) / 女子:ダンス (4)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:基本技術の習得に努める。
		5th	男子:バレーボール (5) / 女子:ダンス (5)	男子:ゲームに参加することができる。 女子:基本技術の習得に努める。
		6th	男子:バレーボール (6) / 女子:ダンス (6)	男子:ゲームに参加することができる。 女子:基本技術の習得に努める。
		7th	男子:バレーボール (7) / 女子:ダンス (7)	男子:ゲームに参加することができる。 女子:基本技術の習得に努める。
		8th	男女:スポーツ大会練習	スポーツ大会が安全に行えるよう準備、練習をする。
	4th Quarter	9th	男子:タグラグビー (1) / 女子:ダンス (8)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:作品づくりに参加することができる。
		10th	男子:タグラグビー (2) / 女子:ダンス (9)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:作品づくりに参加することができる。
		11th	男子:タグラグビー (3) / 女子:ダンス (10)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:作品づくりに参加することができる。
		12th	男子:タグラグビー (4) / 女子:ダンス (11)	男子:ルールやゲームの進め方を覚える。基本技術の習得に努める。 女子:作品づくりに参加することができる。
		13th	男子:タグラグビー (5) / 女子:ダンス (12)	男子:ゲームに参加することができる。 女子:作品づくりに参加することができる。
		14th	男子:タグラグビー (6) / 女子:ダンス (13)	男子:ゲームに参加することができる。 女子:作品づくりに参加することができる。
		15th	男子:タグラグビー (7) / 女子:ダンス (14)	男子:ゲームに参加することができる。 女子:作品づくりに参加することができる。
		16th	期末試験実施せず	

Evaluation Method and Weight (%)				
	授業の取り組み	実技	リーダーシップ	Total
Subtotal	75	10	15	100
基礎的能力	75	0	0	75
分野横断的能力	0	10	15	25



Akashi College		Year	2022	Course Title	English I A
Course Information					
Course Code	4107		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	Year-round		Classes per Week	2	
Textbook and/or Teaching Materials	Crown English Communication I / Crown Study Note / Crown WORKBOOK / Listening CDs				
Instructor	AKIMOTO Hiromi				
Course Objectives					
1) To review the vocabulary learned at junior high school, acquire new vocabulary following the high school learning guidelines, and use it appropriately. 2) To review the grammar learned at junior high school, and learn to use grammar rules appropriately, according to the high school study guidelines. 3) To review sentences structures learned in junior high school, and learn to use sentence structures and operate them appropriately, following the high school learning guidelines. 4) Can read sentences written in English, understand the text outline, read and extract necessary information. 5) To acquire English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.					
Rubric					
	Ideal Level	Standard Level		Unacceptable Level	
Achievement 1	The student has well acquired new vocabulary following the high school learning guidelines and use it appropriately.	The student has acquired new vocabulary following the high school learning guidelines and use it appropriately.		The student has not acquired new vocabulary following the high school learning guidelines and use it appropriately.	
Achievement 2	The student has well learned to use grammar rules appropriately, according to the high school study guidelines.	The student has learned to use grammar rules appropriately, according to the high school study guidelines.		The student has not learned to use grammar rules appropriately, according to the high school study guidelines.	
Achievement 3	The student has well learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	The student has learned to use sentence structures and operate them appropriately, following the high school learning guidelines.		The student has not learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	
Achievement 4	The student can well read sentences written in English, understand the text outline, read and extract necessary information.	The student can read sentences written in English, understand the text outline, read and extract necessary information.		The student can not read sentences written in English, understand the text outline, read and extract necessary information.	
Achievement 5	The student has well acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	The student has acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.		The student has not acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	
Assigned Department Objectives					
Teaching Method					
Outline	Based on the junior high school learned content, to understand the basic structure of English sentences and acquire reading skills. To acquire the ability to listen and express simple English sentences. To perform word tests and strengthen vocabulary knowledge.				
Style	Attend the classes, prepare for the classes studying the relevant sections of the workbook. Handout will be provided in the first week. Go over the handout and understand it in detail.				
Notice	Use quizzes to increase student vocabulary and develop listening ability. Only 7.5-absence will be forgiven.				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Course guidance (Course progress method, learning method, etc.)	Understand course content and assignments.	
		2nd	Chapter 1 Part 1/2	Based on the content learned in junior high school understand English language basic structure.	
		3rd	Chapter 1 Part 2/3	Based on the content learned in junior high school understand English language basic structure.	
		4th	Chapter 1 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.	
		5th	Chapter 2 Part 1/2	Based on the content learned in junior high school understand English language basic structure.	
		6th	Chapter 2 Part 2/3	Based on the content learned in junior high school understand English language basic structure.	
		7th	Chapter 2 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.	
		8th	Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.	

	2nd Quarter	9th	Chapter 3 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		10th	Chapter 3 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		11th	Chapter 3 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
		12th	Chapter 4 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		13th	Chapter 4 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	Chapter 4 Part 4 Language and Culture Workshop	Learn the vocabulary and grammar rules set as lesson tasks.
		15th	Review	Understanding the weak points on the content learned so far and preparing for the exam.
		16th	Final exam	Test the student understanding of the content learned so far.
2nd Semester	3rd Quarter	1st	Return and explain final exam	To overcome weak points
		2nd	Chapter 5 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		3rd	Chapter 5 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		4th	Chapter 5 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
		5th	Chapter 6 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		6th	Chapter 6 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		7th	Chapter 6 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
		8th	Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
	4th Quarter	9th	Chapter 7 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		10th	Chapter 7 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		11th	Chapter 7 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
		12th	Chapter 8 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		13th	Chapter 8 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	Chapter 8 Part 4 Language and Culture Workshop	Understanding the cross-cultural communication through authentic materials.
		15th	Review	Understanding the weak points on the content learned so far and preparing for the exam.
		16th	Final exam	Test the student understanding of the content learned so far.

#### Evaluation Method and Weight (%)

	Examination	Assignments	Quizes	Behavior	Portfolio	Other	Total
Subtotal	50	10	40	0	0	0	100
Basic Proficiency	0	10	40	0	0	0	50
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	50	0	0	0	0	0	50

Akashi College		Year	2022		Course Title	English I B
Course Information						
Course Code	4108			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	1st	
Term	Year-round			Classes per Week	2	
Textbook and/or Teaching Materials	(1) Vision Quest (参考書・教科書・Workbook) (2) データベース4500 5th Edition (3) ネクステージ 4th Edition					
Instructor	INOUE Hidetoshi					
Course Objectives						
1) 中学で既習の文法に加え、高等学校学習指導要領に準じた文法を習得して適切に運用できる。 2) 中学で既習の語彙の定着を図り、高等学校学習指導要領に準じた新出語彙を習得して適切に運用できる。 3) 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。 4) 明瞭で聞き手に伝わるような発話ができるよう、英語の発音・アクセントの規則を習得して適切に運用できる。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
1) 中学で既習の文法に加え、高等学校学習指導要領に準じた文法を習得して適切に運用できる。	高等学校学習指導要領に準じた文法を十分に習得して適切に運用できる。		高等学校学習指導要領に準じた文法を習得して適切に運用できる。		高等学校学習指導要領に準じた文法を習得して適切に運用できない。	
2) 中学で既習の語彙の定着を図り、高等学校学習指導要領に準じた新出語彙を習得して適切に運用できる。	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。		高等学校学習指導要領に準じた新出語彙を習得して適切に運用できる。		高等学校学習指導要領に準じた新出語彙を習得して適切に運用できない。	
3) 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、その概要を把握し必要な情報を十分に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、その概要を把握し必要な情報を読み取ることができない。	
4) 明瞭で聞き手に伝わるような発話ができるよう、英語の発音・アクセントの規則を習得して適切に運用できる。	明瞭で聞き手に伝わるような発話ができるよう、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。		明瞭で聞き手に伝わるような発話ができるよう、英語の発音・アクセントの規則を習得して適切に運用できる。		明瞭で聞き手に伝わるような発話ができるよう、英語の発音・アクセントの規則を習得して適切に運用できない。	
Assigned Department Objectives						
Teaching Method						
Outline	英語を実践的に使うために必要な文法事項を定着させコミュニケーション能力を養成する。語彙増強も念頭に置き、英語の運用能力を高める。					
Style	毎回、英文法の該当箇所を予習した上で授業に出席すること。					
Notice	小テストは語彙を増やす良い機会として、十分に活用すること。遅刻や欠席による小テストの未受験は0点の扱いとする。 合格の対象としない欠席条件（割合） 1/4以上の欠課					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	授業ガイダンス（授業の進行方法、学習方法など）	授業内容や課題について理解する。		
		2nd	文の種類	レッスンの課題として設定されている語彙・文法などを習得する。		
		3rd	文型と動詞 1	レッスンの課題として設定されている語彙・文法などを習得する。		
		4th	文型と動詞 2	レッスンの課題として設定されている語彙・文法などを習得する。		
		5th	時制 1	レッスンの課題として設定されている語彙・文法などを習得する。		
		6th	時制 2	レッスンの課題として設定されている語彙・文法などを習得する。		
		7th	課題チェック、振り返り	これまでの学習内容の振り返りと質疑応答を通して理解度の定着を目指す。		
		8th	中間試験実施	これまでの学習内容の理解力を試す。		
	2nd Quarter	9th	中間試験返却および解説	今後に向けての課題発見と対策を検討する。		
		10th	完了形 1	レッスンの課題として設定されている語彙・文法などを習得する。		
		11th	完了形 2	レッスンの課題として設定されている語彙・文法などを習得する。		
		12th	助動詞 1	レッスンの課題として設定されている語彙・文法などを習得する。		
		13th	助動詞 2	レッスンの課題として設定されている語彙・文法などを習得する。		
		14th	助動詞 3	レッスンの課題として設定されている語彙・文法などを習得する。		
		15th	課題チェック、振り返り	これまでの学習内容の振り返りと質疑応答を通して理解度の定着を目指す。		

		16th	期末試験実施	これまでの学習内容の理解力を試す。
2nd Semester	3rd Quarter	1st	受動態	英語圏文化に関する映像や資料を利用し、異文化に対する理解を深める。
		2nd	不定詞 1	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		3rd	不定詞 2	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		4th	不定詞 3	英語圏文化に関する映像や資料を利用し、異文化に対する理解を深める。
		5th	動名詞	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		6th	分詞 1	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		7th	課題チェック、振り返り	これまでの学習内容の振り返りと質疑応答を通して理解度の定着を目指す。
		8th	中間試験実施	これまでの学習内容の理解力を試す。
	4th Quarter	9th	中間試験返却および解説	今後に向けての課題発見と対策を検討する。
		10th	分詞 2	英語圏文化に関する映像や資料を利用し、異文化に対する理解を深める。
		11th	関係詞 1	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		12th	関係詞 2	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		13th	関係詞 3	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		14th	比較 1	文法事項の理解と定着に加え、実際のコミュニケーションで使える英語力を目指す。
		15th	ワークチェック、振り返り	これまでの学習内容の振り返りと質疑応答を通して理解度の定着を目指す。
		16th	期末試験	これまでの学習内容の理解力を試す。

Evaluation Method and Weight (%)					
	試験	課題提出	小テスト	その他	Total
Subtotal	60	20	20	0	100
基礎的能力	60	20	20	0	100
専門的能力	0	0	0	0	0
分野横断的能力	0	0	0	0	0

Akashi College		Year	2022	Course Title	Introduction to Active Learning
Course Information					
Course Code	4109		Course Category	General / Compulsory	
Class Format	Seminar		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials	授業内で適宜資料を配布する。				
Instructor	TAKEDA Naho,HIRANO Masatsugu,ARAKI Yuki,ANDO Yuta				
Course Objectives					
自らの興味・関心を把握し、さらに他者と共有する。自ら調べ、共に考え行動し、ふりかえる能動的な学びを体験し、基盤となるマインド、知識や技能を取得していく。 互いに学びあう関係性づくりの考え方を知り、個人の興味関心とともにチームでの問題解決に取り組み、最適解を目指す学びを体験する。 以上の科目の目的をふまえ、以下の3点を到達目標とする。 1) 他者とコミュニケーションを取ろうとすることができる。 2) 他者の話を聴こうとすることができる。 3) 自分自身を振り返ろうとすることができる。					
Rubric					
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安
評価項目1	他者とコミュニケーションを取ることができる。		他者とコミュニケーションを取ることができる。		他者とコミュニケーションを取ることができない。
評価項目2	他者の話を聴くことができる。		他者の話を聴こうとすることができる。		他者の話を聴こうとすることができない。
評価項目3	自分自身を振り返ることができる。		自分自身を振り返ることができる。		自分自身を振り返ることができない。
Assigned Department Objectives					
Teaching Method					
Outline	高等教育機関である高専では「自ら課題を設定し、それにふさわしい解を見つけ出す」ことが求められます。この授業では、自他を知り、学びあう関係性をあたため、チームでの問題解決に取り組み、「答え」をつくるという一連の流れにより、高専での学びにおける基礎的な力を身につけることを目的としています。				
Style	個人ワークやグループワークを通じて、さまざまな探求の方法を学びます。成績評価は、講義内でのグループワーク、個人ワークの成果物で判断します。また、評価ポイントとしては、それぞれの成果物の中で、相手に伝わる表現力、自分の出した答えまでの筋道を整理する論理的思考力、相手のフィードバックを受け取ってから自分の考えを内省する内省力などを評価します。 授業計画に示す4名の担当教員が、分担して講義を担当します。  連絡員：武田 字浦				
Notice	合格の対象としない欠席条件(割合)：1/4以上の欠課。  学生同士の議論等を中心に参加型学習の手法によって展開します。自らの考えを声に出し、他者の声に丁寧に耳を傾けることで学びが豊かになるため、学びの場を共につくる過程に積極的に参与してください。				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	
				<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	オリエンテーション（全員）	授業の概要と目的を理解する。	
		2nd	自己紹介＆お互いを知ろう（武田、荒木）	共に授業を受ける仲間について知る。	
		3rd	科学的な文章表現（武田）	根拠となる論文を適切に引用して、序論・本論・結論からなる文章を作成して自身の主張を示すことができる。	
		4th	問題定義の基礎（武田）	現状と目標の明文化により問題を定義した上で、発想法を用いて問題の解決策を提案することができる。	
		5th	問題定義の応用（荒木）	問題定義の技術や発想法を活用し、他者へのヒアリング内容をもとに問題の定義や解決策について検討する。	
		6th	コミュニケーション①（荒木）	対話的なコミュニケーションに必要な傾聴と質問の技術について理解し、実践する。	
		7th	コミュニケーション②（安藤）	さまざまな問題・課題を論じるために必要なディスカッションの手法について理解し、実践する。	
		8th	チームワーク①（平野）	仲間との学び合いを実践する。	
	2nd Quarter	9th	チームワーク②（平野）	チームでの問題解決を実践する。	
		10th	答えのない問い 社会編①（荒木）	複雑性や不確実性の高い社会の中で対象を分析するための様々な手法を理解する。	
		11th	答えのない問い 社会編②（荒木）	複雑性や不確実性の高い社会の中で価値を創造するための考え方を理解する。	
		12th	答えのない問い 科学編①（安藤）	科学技術と社会の関係を踏まえて、専門分野間の共通点・相違点を知り、異分野協働の重要性を理解する。	
		13th	答えのない問い 科学編②（安藤）	科学技術と社会の関係を踏まえて、立てた問いや導いた答えを伝えるための手法を理解する。	
		14th	まとめ①（武田）	この授業での学びについて振り返り、これからの学び方について他者に話すことができる。	

	15th	まとめ②（武田）	この授業での学びについて振り返り、これからの学び方について他者に提案することができる。	
	16th			
Evaluation Method and Weight (%)				
	レポート	発表・フィードバック	授業中課題	Total
Subtotal	40	20	40	100
基礎的能力	20	10	20	50
分野横断的能力	20	10	20	50

Akashi College		Year	2022	Course Title	Exercise in Data Science
Course Information					
Course Code	4111		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	TSUCHIDA Takayuki,NOMURA Hayato,ENOMOTO Ryuji				
Course Objectives					
Can explain an overview and application examples of information technology, such as IoT, machine learning, and artificial intelligence.					
Can explain an overview of computers and networks.					
Can explain an overview of information security and examples of cyberattacks and defense.					
Can execute data utilization and analysis from big data and IoT, using a data processing language (Python).					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can fully explain an overview and application examples of information technology, such as IoT, machine learning, and artificial intelligence		Can explain an overview and application examples of information technology, such as IoT, machine learning, and artificial intelligence		Cannot explain an overview and application examples of information technology, such as IoT, machine learning, and artificial intelligence
Achievement 2	Can fully explain an overview of computers and networks		Can explain an overview of computers and networks		Cannot explain an overview of computers and networks
Achievement 3	Can fully explain an overview of information security and examples of cyberattacks and defense		Can explain an overview of information security and examples of cyberattacks and defense		Cannot explain an overview of information security and examples of cyberattacks and defense
Assigned Department Objectives					
Teaching Method					
Outline	The aim is to develop the knowledge and skills for the appropriate and effective use of information and information technology, to develop the ability to use them practically, and to develop an attitude toward proactively participating in an information society. The course will be held as an early introductory education to foster human resources capable of utilizing, analyzing, and evaluating real data such as "IoT," "big data," and "AI" following their acquisition of knowledge on "mathematics/data science/AI." Students will learn about real-world issues and how to resolve them appropriately through exercises, using real data and issues, and other practical examples in society by utilizing mathematics, data science, and AI. This lecture will be conducted by a faculty member who has been engaged at a company in middleware (database) research and development.				
Style	Students will practice programming, data analytics, and analysis with examples using the Python program. Quizzes will be conducted every lesson to test students' understanding. Students will be evaluated based on quizzes and submitted work which serve as tests.				
Notice	Students who miss 1/3 or more of classes will not be eligible for a passing grade.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	Introduction to programming (1)	Learn Python programming syntax	
		2nd	Introduction to programming (2)	Learn Python programming syntax	
		3rd	Introduction to programming (3)	Learn Python programming syntax	
		4th	Deep learning	Learn about implementing deep learning through the use of sample codes	
		5th	Data science for control system	Learn about overview of deep learning from the point of view of control system, and attention is also given to applied problems in control system	
		6th	Data Visualization	Can demonstrate data visualization using a web server	
		7th	Statistical analysis (1)	Can demonstrate a simple regression analysis	
		8th	Statistical analysis (2)・Mutual Evaluations between students	Can demonstrate simple clustering (k-means)・Mutual Evaluations between students	
	4th Quarter	9th	Computer configuration and programming	Check a computer's configuration and performance by obtaining system information and creating a simple benchmark with the use of Python	
		10th	Parallel processing	Learn how to write and execute parallel processing in Python to speed up your program	
		11th	Automated file processing	Automate file processing in Python and learn how to optimize simple tasks	
		12th	Automated web information retrieval	Learn about web scraping, a method for automatically retrieving web information in Python	

		13th	Network processing (1)	Learn how to automate web-related tasks by programming
		14th	Network processing (2)	Learn more about handling Internet communication through Python
		15th	Security and summary of studies	Reproduce vulnerable websites in Python and learn about the need for security by verifying their behavior Review the previous exercises and learn how they relate to each other and how they can be combined to build a system
		16th	Final exam	None

Evaluation Method and Weight (%)
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	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	100	0	100
Basic Proficiency	0	0	0	0	40	0	40
Specialized Proficiency	0	0	0	0	40	0	40
Cross Area Proficiency	0	0	0	0	20	0	20



Akashi College		Year	2022		Course Title	Music
Course Information						
Course Code		4112		Course Category	General / Elective	
Class Format		Skill		Credits	School Credit: 2	
Department		Electrical and Computer Engineering		Student Grade	1st	
Term		Year-round		Classes per Week	2	
Textbook and/or Teaching Materials		①歌いやすい合唱曲の楽譜 ②コードネームに関するプリント ③音楽 I Tutti+(教育出版)				
Instructor		IZUMI Yuka				
Course Objectives						
1. 発声と合唱の基礎を習得し、実践できる。 2. コードネームの基礎を習得している。 3. リコーダーの基礎を習得し、実践できる。 4. 音楽的なパフォーマンスについて企画・実践できる。						
Rubric						
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安
評価項目1		発声と合唱の基礎を十分に習得し、自在に実践できる。		発声と合唱の基礎を習得し、実践できる。		発声と合唱の基礎を習得・実践ができない。
評価項目2		コードネームの基礎を十分に習得している。		コードネームの基礎を習得している。		コードネームの基礎を習得できない。
評価項目3		リコーダーの基礎を十分に習得し、自在に実践できる。		リコーダーの基礎を習得し、実践できる。		リコーダーの基礎を習得・実践できない。
評価項目4		音楽的なパフォーマンスについて的確に企画・実践できる。		音楽的なパフォーマンスについて企画・実践できる。		音楽的なパフォーマンスについて企画・実践できない。
Assigned Department Objectives						
Teaching Method						
Outline		音楽を通して自分自身を表現する喜びを知る。ちまたに溢れる使い捨ての音楽だけでなく、時代を経ても生き残る本物の「音楽」を洋の東西を問わず体験する。				
Style		授業は主として音楽表現の実技形式で進める。 連絡員：武内将洋				
Notice		テキストや楽曲はレベルの高いものもあります。丁寧かつ真剣に練習しなければ達成感を得ることができません。また「音」を扱う科目なので不要な私語は慎むこと。リコーダー(全員)・ピアノ(もしあれば)を用意すること。 合格の対象としない欠席条件(割合) 1/4以上の欠課。 実務経験：声楽家として国内外でのリサイタルやオーケストラとの共演があり、その経験を活かして、学生に音楽上の具体的かつ最新の情報でもって指導できる。				
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester r	1st Quarter	1st	パート分け、グループ分け、ストレッチ、発声練習、簡単な2声の曲を歌ってみる	簡単な2声の曲が歌える。		
		2nd	合唱のためのエチュードⅠ	ピアノ伴奏の付いた簡単な曲が歌える。		
		3rd	合唱のためのエチュードⅡ	ピアノ伴奏の付いた簡単な曲が歌える。		
		4th	コードネームの基礎Ⅰ	最も簡単な3和音を理解する。		
		5th	合唱のためのエチュードⅢ	2声部または3声部のJ・POPを合唱できる。		
		6th	合唱のためのエチュードⅣ	小人数でも音程が正しくとれるようになる。		
		7th	合唱のためのエチュードⅤ	小人数でもハーモニーが美しく響かせられるようになる。		
		8th	コードネームの基礎Ⅱ	コードネームの練習と小テストグループ発表のための最終練習。		
	2nd Quarter	9th	合唱のためのエチュードⅥ	グループ発表のための最終練習。		
		10th	合唱のためのエチュードⅦ	グループ発表し、自己満足ではなく人に何かを伝えられるようになる。		
		11th	リコーダーの基礎Ⅰ	リコーダーの魅力を再発見する!		
		12th	リコーダーの基礎Ⅱ	簡単な合奏曲を吹ける。		
		13th	実技テストのための企画・練習Ⅰ	自分の得意分野での自由な音楽パフォーマンスを企画する。		
		14th	実技テストのための企画・練習Ⅱ	自分の得意分野での自由な音楽パフォーマンスを企画・練習する。		
		15th	実技テスト兼「クラス発表会」	実技テスト兼「クラス発表会」		
		16th	期末試験実施せず			
2nd Semester r	3rd Quarter	1st	ア・カペラに挑戦Ⅰ	まず8小節程度の短い4声部の曲で美しいハーモニーを実感しながら歌う。		
		2nd	ア・カペラに挑戦Ⅱ	ア・カペラの選択曲からグループに適したものを選びグループで練習する。		
		3rd	ア・カペラに挑戦Ⅲ	練習＆チェックを繰り返して、自分たちの進歩を実感する。		

		4th	ア・カペラに挑戦Ⅳ	グループ発表会で演奏することだけでなく、他の人の演奏を集中して聴く喜びを味わう。
		5th	コードネームの基礎Ⅲ	前期に学習した3和音に加えてセブンスコード・分数コードを覚える。
		6th	コードネームの基礎Ⅳ	原則を覚えたコードを練習問題を繰り返すことで実際の曲の中でも読み取れるようにする。
		7th	コードネームの基礎Ⅴ 様式感の異なる楽曲を聞き比べる音楽鑑賞。	コードネームは第6週の復習。 ただ単に知識を詰め込むだけでなく、自分の感性を大切にする。
		8th	コードネームの基礎Ⅵ	小テストで知識の確認。
	4th Quarter	9th	歌う喜びⅠ	最新の現代人気作曲家による合唱曲に挑戦する。クラスの男女構成によってアレンジを変えることもある。
		10th	歌う喜びⅡ	できるだけ良い発声と響きをもって、曲の細部まで。
		11th	歌う喜びⅢ	各自が良い響きを意識し、丁寧かつダイナミックな表現で全員で歌う喜びを実感する。
		12th	実技テストのための企画・練習Ⅰ	実技テストのための企画ができる。アカペラアンサンブル・ギターソロ・ピアノソロ等。
		13th	実技テストのための企画・練習Ⅱ	限られた時間と設備の中で企画・練習ができる。
		14th	実技テストのための企画・練習Ⅲ	練習を積み仕上げる。
		15th	実技テスト兼「クラス発表会」一年の総まとめ	実技テスト兼「クラス発表会」一年の総まとめ
		16th	期末試験実施せず	

#### Evaluation Method and Weight (%)

	出席状況	平常点	実技テスト	歌またはリコーダー小テスト	コードネーム小テスト	Total
Subtotal	10	15	35	20	20	100
基礎的能力	10	8	25	20	20	83
専門的能力	0	0	0	0	0	0
分野横断的能力	0	7	10	0	0	17

Akashi College		Year	2022	Course Title	Art
Course Information					
Course Code	4113		Course Category	General / Elective	
Class Format	Skill		Credits	School Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	Year-round		Classes per Week	2	
Textbook and/or Teaching Materials	Art 1 (Mitsumura Tosho Publishing). Various printouts will also be distributed in class.				
Instructor	OHNO Ryohei				
Course Objectives					
1. Can express things in several art forms. 2. Can appreciate works of art and comment on them in groups. 3. Understand the relationship between real life and art.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can express things freely in several art forms.		Can express things in several art forms.		Cannot express things in several art forms.
Achievement 2	Can accurately appreciate works of art and comment on them in groups.		Can appreciate works of art and comment on them in a group.		Cannot appreciate works of art and comment on them in a group.
Achievement 3	Fully understand the relationship between real life and art.		Understand the relationship between real life and art.		Do not understand the relationship between real life and art.
Assigned Department Objectives					
Teaching Method					
Outline	By expressing things in different art forms including 2-dimensional portraying (sketching), 3-dimensional works (clay works), color (color materials), ideas (images), students refine their sensitivity and learn how art is related to real life.				
Style	Classes are mainly conducted through practical lessons on how to express things in different art forms. Liaison: Masahiro Takeuchi				
Notice	This subject is taught by a teacher who has been practicing town development for many years through his art work and writing activities as a contemporary art writer. Applying his experiences to practical lessons, he questions what art really means. This course requires individuals to take their own initiative. Students are required to create art with a motivated attitude. A F6-size sketchbook is used in classes. Do not forget things like tools. Tidying and cleaning up the classroom after lessons are mandatory. Students who miss 1/4 or more of classes will not be eligible for a passing grade.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	
				<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Explaining the class content, tools, appreciation of works of art, assignments for the next class 1		
		2nd	Sketching 1	To draw Sketch 1.	
		3rd	Sketching 2	To draw Sketch 2.	
		4th	Sketching 3	To draw Sketch 3.	
		5th	Sketching 4	To draw Sketch 4.	
		6th	Sketching 5	To draw Sketch 5.	
		7th	Sketching 6	To draw Sketch 6.	
		8th	Abstract expression using color materials (image of nature 1)	To express things in an abstract art form using color materials.	
	2nd Quarter	9th	Abstract expression using color materials (image of nature 2)	To express things in an abstract art form using color materials.	
		10th	Abstract expression using color materials (image of nature 3)	To express things in an abstract art form using color materials.	
		11th	Abstract expression using color materials (image of nature 4)	To express things in an abstract art form using color materials.	
		12th	Group work / explaining the assignment for the next class 3	To comment on works expressed in an abstract form in a group.	
		13th	Figure (replicating skeletal frame 1)	To draw replicating skeletal frame of figure.	
		14th	Figure (croquis drawing 1)	To draw croquis.	
		15th	Figure (croquis drawing 2)	To draw croquis.	
		16th	No final exam		
2nd Semester	3rd Quarter	1st	Group work / explaining the assignment for the next class 4	To comment on replicated drawings and croquis drawings in a group.	
		2nd	Fieldwork 1 (outdoor sketching, and memorable landscapes and things)	To sketch outdoors.	
		3rd	Fieldwork 2 (outdoor sketching and memorable landscapes and things)	To sketch outdoors.	

		4th	Fieldwork 3 (outdoor sketching, and memorable landscapes and things)	To sketch outdoors.
		5th	Group work / explaining the assignment for the next class 5	To comment on outdoor sketches in a group.
		6th	Design (creating a character 1)	To design a character.
		7th	Design (creating a character 2)	To design a character.
		8th	Design (creating a character 3)	To design a character.
	4th Quarter	9th	Environmental art 1 (art work that emerges into urban landscape / the relationship between art and society)	To appreciate environmental art.
		10th	Environmental art 2 (art work that emerges into urban landscape / the relationship between art and society)	To appreciate environmental art.
		11th	Environmental art 3 (art work that emerges into urban landscape / the relationship between art and society)	To appreciate environmental art.
		12th	Expressing ideas 1 (image training)	To express ideas.
		13th	Expressing ideas 2 (image training)	To express ideas.
		14th	Expressing ideas 3 (image training)	To express ideas.
		15th	General review of art	To understand the content of general review.
		16th	No final exam	

#### Evaluation Method and Weight (%)

	Practical skill production	Attendance • Behavior	Total
Subtotal	80	20	100
Basic Proficiency	80	20	100
Specialized Proficiency	0	0	0
Cross Area Proficiency	0	0	0

Akashi College		Year	2022	Course Title	Electric Circuits I
Course Information					
Course Code	4115		Course Category	Specialized / Compulsory	
Class Format	Lecture		Credits	Academic Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials	教科書：金原榮:電気回路改訂版、実教出版				
Instructor	OHMUKAI Masato				
Course Objectives					
[1] To understand the relationships among charge, current and potential, and to be able to explain and calculate them. [2] To be able to write circuit equations, to solve them, and to perform calculations using specific numerical values. [3] To understand the relationship between Thevenin's theorem and Norton's theorem, to be able to explain it, and to be able to perform equivalent circuit creation and calculations of circuits.					
Rubric					
	Excellent		Good		Insufficient
1	The student can understand the relationships among charge, current and potential, and to be able to explain and calculate them.		The student can understand the relationships among charge, current and potential, and to be able to explain them.		The student can not understand the relationships among charge, current and potential, and are not be able to explain them.
2	The student is able to write circuit equations, to solve them, and to perform calculations using specific numerical values.		The student is able to write circuit equations.		The student is not able to write circuit equations.
3	The student is able to understand the relationship between Thevenin's theorem and Norton's theorem, to be able to explain it, and to be able to perform equivalent circuit creation and calculations of circuits.		The student is able to understand the relationship between Thevenin's theorem and Norton's theorem, and is able to explain it.		The student is not able to understand the relationship between Thevenin's theorem and Norton's theorem.
Assigned Department Objectives					
Teaching Method					
Outline	The students will master DC circuits based on the knowledge of electricity learned at junior high school. In this course, the target is to be able to calculate the electric current, voltage, power etc. in circuits. DC circuits are not only the foundation of AC circuits to be learned in the future, but also the basis of electric / electronic circuits and an important theme.				
Style	In this course, the lectures and exercises will be conducted using supplementary materials and texts. To master electrical circuit, it is essential that the students solve problems, solving problems leads to a better understanding. Therefore, before the end of class, quizzes and task reports will be conducted to ensure students knowledge acquirement.				
Notice	The content of this course is of 90 hours, and it includes self-learning time. The students should strictly respect the deadline of the assignments. ( up to 5 absences are excused )				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class <input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	What are electrical circuits: Ohm's law, serial connection and parallel connection of resistors.	Understand Ohm's law and calculate voltage, current, etc. And to calculate combined resistance.	
		2nd	What are electrical circuits: Applied exercises of how to determine division ratio, division ratio, combined resistance.	To use a split ratio and a partial pressure ratio. Learn how to determine advanced synthetic resistance.	
		3rd	Power supply and electric power: Voltage source and current source, and power supply circuit considering internal resistance	To understand the concepts of a voltage source, current source and internal power supply, and to be able to perform interconversion between a voltage source equivalent circuit and current source equivalent circuit.	
		4th	Power supply and electric power: Electric power, electric energy and maximum electric power	To be able to calculate the electric power consumed by the load in a circuit and the maximum electric power that can be supplied to the load.	
		5th	Circuit equation: Kirchhoff's law, loop current method	To understand Kirchhoff's law, and to be able to establish the loop current method.	
		6th	Circuit equation: Node voltage method	To solve equations using the node voltage method.	
		7th	Review	Eliminate doubts.	
		8th	Mid-term Exam	To solve correctly more than 60% of the exam.	
	4th Quarter	9th	Various circuits: Bridge circuit	To understand the equilibrium condition of the Wheatstone bridge and to be able to calculate resistance values and current value by various calculation methods.	

	10th	Various circuits: Y connection and $\Delta$ connection	To be able to derive the formulas of $\Delta$ -Y conversion and the inverse conversion.
	11th	Various circuits: Superposition principle (Part 1)	To understand the superposition principle of voltage sources and to be able to calculate a current from the equivalent circuit.
	12th	Various circuits: Thevenin's theorem	To understand Thevenin's theorem and to be able to calculate a current from the equivalent circuit.
	13th	Various circuits: Norton's theorem	To understand Norton's theorem and other circuit theorems.
	14th	Practice	To get technical skills for problems
	15th	Review	Eliminate doubts.
	16th	End-term Exam	To solve correctly more than 60% of the exam.

#### Evaluation Method and Weight (%)

	Test	Assignments	etc	Total
Subtotal	70	0	30	100
Basic Skills	0	0	0	0
Specialized Skills	70	0	30	100

Akashi College		Year	2022		Course Title	Computer Programming I	
Course Information							
Course Code		4116		Course Category		Specialized / Compulsory	
Class Format		Lecture		Credits		Academic Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		1st	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		ENOMOTO Ryuji					
Course Objectives							
[1] Can perform basic Linux operations. [2] Can write programs that contain conditional branches in C. [3] Can write programs that contain iterations in C. [4] Can write programs that contain arrays in C.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can perform basic Linux operations accurately.		Can perform basic Linux operations.		Cannot perform basic Linux operations.	
Achievement 2		Can write programs that contain complex conditional branches in C.		Can write programs that contain conditional branches in C.		Cannot write programs that contain conditional branches in C.	
Achievement 3		Can write programs that contain iterations in C in multiple ways.		Can write programs that contain iterations in C.		Cannot write programs that contain iterations in C	
		Can write programs that use arrays and two-dimensional arrays in C.		Can write programs that use arrays in C.		Cannot write programs that use arrays in C.	
Assigned Department Objectives							
Teaching Method							
Outline		The course will provide lectures and exercises on programming in C to establish a foundation for problem solving and programming skills.					
Style		The first week will be in the classroom, and the from second week, the class will be in the Information Basics Lab. In the Information Basics Lab,, the class will alternate between explanations about the content you will learn for the week and doing programming exercises. Students are required to complete ten programming assignments.					
Notice		This course's content will amount to 90 hours of study in total. These hours include learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. In addition to the lecture hours, students should visit the Information Basics Lab frequently and learn with the attitude, "practice makes perfect." Students who have submitted fewer than six programming assignments will not be eligible for a passing grade. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester r	3rd Quarter	1st	Basic knowledge of programming and information processing		Can list the components of a computer. Can use binary digits (integer and decimal), complement on 2, and 32-bit floating point numbers		
		2nd	Linux, Emacs, compile, and run		Can perform basic Linux operations. Can write, compile, and run programs in C.		
		3rd	Variables, types, outputs, inputs, basic operations		Can use variables, arithmetic operators, and simple assignment operators. Can use the basic types accordingly. Can write programs that contain data inputs and outputs.		
		4th	Characters, hexadecimal numbers, exponents, loss of trailing digits		Can use characters, hexadecimal numbers, and exponents. Can explain what the loss of trailing digits mean.		
		5th	Operators, logical operations, casts		Can use assignment operators. Can perform logical operations and casts.		
		6th	Structured programming, conditional branches 1 of 2		Can explain what the structure theorem is. Can write if statements.		
		7th	Conditional branches 2 of 2		Can write switch statements.		
		8th	Midterm exam				
	4th Quarter	9th	Midterm exam comments, iteration 1 of 3		Understand where you made mistakes on the midterm exam. Can write do statements.		
		10th	Iteration 2 of 3		Can write while and for statements.		
		11th	Iteration 3 of 3		Can write nested iterative statements.		
		12th	Arrays		Can explain sets and columns. Can scan, initialize, and copy arrays.		
		13th	Algorithms and flowcharts		Can explain algorithms. Can write flowcharts.		

		14th	Matrices and a two-dimensional arrays 1 of 2	Can add and subtract in matrices. Can add and subtract matrices using two-dimensional arrays.
		15th	Matrices and two-dimensional arrays 2 of 2	Can multiply matrices. Can multiply matrices using two-dimensional arrays.
		16th	Final exam	

Evaluation Method and Weight (%)							
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	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	70	30	0	0	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	70	30	0	0	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0



Akashi College		Year	2022	Course Title	Computer Literacy
Course Information					
Course Code	4117		Course Category	Specialized / Compulsory	
Class Format	Lecture		Credits	School Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	Year-round		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	NAKAI Yuichi				
Course Objectives					
(1) Understand basic knowledge of computer hardware and software. (2) Understand basic knowledge of Markdown. (3) Understand image formats used on computers. (4) Understand how to create graphs on computers. (5) Understand how to create documents on computers. (6) Can input letters by touch typing. (7) Understand how to use the Internet at school, and can act while keeping in mind the various rules in an information society.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can accurately explain the basic aspects of computer hardware and software.		Can explain the basic aspects of computer hardware and software.		Cannot explain the basic aspects of computer hardware and software.
Achievement 2	Can create complex documents using basic knowledge of Markdown.		Can create simple documents using basic knowledge of Markdown.		Cannot create simple documents using basic knowledge of Markdown.
Achievement 3	Can accurately explain image formats used on computers.		Can explain image formats used on computers.		Cannot explain image formats used on computers.
	Can create graphs accurately on computers.		Can create graphs on computers.		Cannot create graphs on computers.
	Understand how to create documents on computers, and can accurately create documents with charts.		Understand how to create documents on computers, and can create documents with charts.		Do not understand how to create documents on computers, and cannot create documents with charts.
	Can touch type at a sufficient speed.		Can touch type.		Cannot touch type.
	Can discuss with others about what they can do to make a better information society. Can think about problems that may arise in an information society, and handle them when they arise.		Can put the things they can do to make a better information society into action. Can communicate their ideas about problems that may arise in an information society, and how to handle them when they arise.		Do not understand what they can do to make a better information society. Do not understand problems that may arise in an information society, and how to handle them when they arise.
Assigned Department Objectives					
Teaching Method					
Outline	Students will learn about computer software and basic knowledge of software and hardware, and acquire basic computer usage skills.				
Style	Following the classroom lectures, students will have a lab.				
Notice	Labs will make up a large proportion of the class, so students will be required on their own to make an effort by using their breaktime, etc. to catch up on their work. Students are also expected to think and act by themselves. Students will be required to acquire touch typing skills. All assignments must be submitted. Students who miss 1/3 or more of classes will not be eligible for a passing grade.				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	
				<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Computer basics (Hardware)	Can explain an overview of a computer hardware configuration.	
		2nd	Computer basics (Hardware)	Can explain an overview of a computer hardware configuration.	
		3rd	Computer basics (Software)	Can explain the roles and types of operating systems, and explain features of key OSs.	
		4th	Computer basics (Software)	Can explain the types of application software.	
		5th	Using the network	Can use the e-learning system, etc. at school. Understand how to use the Internet at school, and can act while keeping in mind the various rules in an information society.	
		6th	Installation of Linux	Can explain how to start and shutdown of Linux operation system.	
		7th	Configuration of Linux	Can make some personalization of Linux desktop environment.	
		8th	Configuration of Linux	Can make some personalization of Linux desktop environment.	

	2nd Quarter	9th	Introduction to Markdown	Can explain the concept and idea of Markdown.
		10th	Introduction to Markdown	Can explain Markdown key tags.
		11th	Introduction to Markdown	Can create simple documents using Markdown.
		12th	Introduction to Markdown	Can convert Markdown documents to various forms.
		13th	Formulas	Can explain commands to create mathematical formulas, which is a LaTeX function.
		14th	Formulas	Can create simple formulas using LaTeX functions.
		15th	Formulas	Can create complicated formulas using LaTeX functions.
		16th	Final exam	
2nd Semester	3rd Quarter	1st	Creating charts using a drawing software	Can perform the basic operation of a drawing software.
		2nd	Creating charts using a drawing software	Can create assigned charts using a drawing software.
		3rd	Creating charts using a drawing software	Can create simple charts using a drawing software.
		4th	Creating charts using a drawing software	Can export charts into various forms.
		5th	Creating graphs with gnuplot	Can explain an overview of gnuplot's graph-creating feature.
		6th	Creating graphs with gnuplot	Can create simple graphs using basic commands to create charts in gnuplot.
		7th	Creating graphs with gnuplot	Can create practical graphs using more complex commands.
		8th	Creating graphs with gnuplot	Can create complex graphs by fitting.
	4th Quarter	9th	LaTeX basics	Can explain the steps on how to create documents in LaTeX.
		10th	Document structures in LaTeX	Can create simple documents in LaTeX.
		11th	Document structures in LaTeX	Can structure documents in LaTeX.
		12th	Lists and tables in LaTeX	Can create lists using LaTeX commands.
		13th	Lists and tables in LaTeX	Can create tables using LaTeX commands.
		14th	Importing graphs in LaTeX	Can create documents with charts using LaTeX commands.
		15th	Comprehensive exercise	Can create documents with charts, graphs, and formulas using LaTeX commands.
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Presentation	Touch Typing	Behavior	Portfolio	Other	Total
Subtotal	60	30	10	0	0	0	100
Basic Proficiency	60	30	10	0	0	0	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2022	Course Title	Fundamental Experiments of Electrical & Computer Engineering
Course Information					
Course Code	4118		Course Category	Specialized / Compulsory	
Class Format	Experiment		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	1st	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Distribute materials in class				
Instructor	KAJIMURA Yoshihiro, HIROTA Atsushi				
Course Objectives					
1) Experimentally understand the basics of electrical engineering through basic experiment exercises 2) Can research independently and actively matters related to conducted experiments 3) Learn to be cooperative and kind to others through collaborative work					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Fully and experientially understand the basics of electrical engineering through basic experiment exercises		Experientially understand the basics of electrical engineering through basic experiment exercises		Do not experientially understand the basics of electrical engineering through basic experiment exercises
Achievement 2	Can fully research independently and actively matters related to conducted experiments		Can research independently and actively matters related to conducted experiments		Cannot research independently and actively matters related to conducted experiments
Achievement 3	Fully learn to be cooperative and kind to others through collaborative work		Learn to be cooperative and kind to others through collaborative work		Fail to learn to be cooperative and kind to others through collaborative work
Assigned Department Objectives					
Teaching Method					
Outline	Students will experientially understand the basics of electrical engineering through basic experiment exercises, and learn the basic attitude for engineering experiments, including researching independently and actively matters related to conducted experiments. They will also learn to be cooperative, considerate to others, etc., through collaborative work. The instructors hold classes jointly.				
Style	Lessons are done in the form of experiment exercises by teams. Quizzes will be conducted to test students' understanding.				
Notice	Students are expected to work independently and actively, and learn the fundamentals and basics of experiments. They should attend classes in appropriate lab attire, and always behave with their own and others' safety in mind. All assignments are required to be submitted. Students are expected to develop the habit of properly fulfilling responsibilities, such as cleaning and putting away the equipment used. Students are required to bring a calculator (any model) and an A4 notebook for the experiments. It doesn't need to be a new notebook, but loose leaf paper is not allowed. Students who miss 1/3 or more of classes will not be eligible for a passing grade.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Course outline	Understand the outline of this course (objectives, goals, and notes)	
		2nd	How to use a tester and measuring resistance and voltage	Learn how to use a tester and can measure resistance and voltage	
		3rd	Breadboard 1	Learn the basic use of a breadboard	
		4th	Breadboard 2	Can build a basic circuit using a breadboard	
		5th	Oscilloscope 1	Learn the basic use of an oscilloscope	
		6th	Oscilloscope 2	Learn the basic use of an oscilloscope and can measure circuits	
		7th	Building electronics 1	Can build electronics using a soldering iron	
		8th	Building electronics 2	Can build electronics using a soldering iron	
	2nd Quarter	9th	Oscillator 1	Learn the basic use of an oscillator	
		10th	Oscillator 2	Learn the basic use of an oscillator and can give high frequencies to a circuit	
		11th	Making a blinking LED circuit 1	Understand the basic mechanism of a blinking LED circuit	
		12th	Making a blinking LED circuit 2	Can make a basic circuit for a blinking LED circuit	
		13th	Making a blinking LED circuit 3	Can make a blinking LED circuit	
		14th	Amplified circuit using an operational amplifier	Can make a sine wave amplification circuit using an operational amplifier	
		15th	Practice measuring voltage with a bridge circuit	Understand the equilibrium conditions of a bridge circuit	
		16th	No final exam		

Evaluation Method and Weight (%)							
	Experiment efforts	Active learning	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	80	20	0	0	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	80	20	0	0	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2023		Course Title	Japanese II-1	
Course Information							
Course Code		5201		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		「精選文学国語」（明治書院）・「精選古典探求 漢文編」（明治書院）・「新訂総合国語便覧」（第一学習社）					
Instructor		ZENTOH Masashi					
Course Objectives							
1) 論理的な文章（随筆）の構成や展開を理解し、要約できる 2) 文学的な文章（小説や詩など）を表現に即して読み取り、その表現の特質について自分の意見を述べることができる 3) 日常的に用いられる漢字や語句を正しく理解し、活用できる							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1		論理的な文章（論説や評論）の構成や展開を的確に理解し、要約した上で自分の意見を述べることができる		論理的な文章（論説や評論）の構成や展開を遺漏なく理解し、要約できる		論理的な文章（論説や評論）の構成や展開についてキーワード等の補助がなければまとめることができない	
評価項目2		文学的な文章（小説や詩など）について、歴史的な背景や知識をもとに表現に即して読み取り、その表現の特質について自分の意見を述べることができる		文学的な文章（小説や詩など）を表現に即して読み取り、その表現の特質について理解することができる		文学的な文章（小説や詩など）を読み、おおまかな内容しか理解できない。	
評価項目3		日常的に用いられる漢字や語句を正しく理解し、日常生活や研究の中で自由に活用することができる		日常的に用いられる漢字や語句に関心を持ち、吸収しようと心がけることができる		日常的に用いられる漢字や語句について、理解が十分でない	
Assigned Department Objectives							
Teaching Method							
Outline		概要：小説・随筆・漢文を通して、読解力と思考力を獲得することを目的とする。文章の構成・展開・要旨などを的確にとらえ、知識と感性を養う。					
Style		講義形式で行う。適宜、質疑応答を行いながら、批評する力を身につける。なお、期末試験のほかに小テストを課し、学習の到達度を確認する。					
Notice		事前学習によって問題点を明らかにした上で、授業に集中し、意欲的に臨むこと。 評価の対象としない欠席条件(割合) 1/3以上の欠課					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	ガイダンス・「山月記」（中島敦）の読解		今年度の国語の授業の進行・準備物について理解することができる		
		2nd	「山月記」（中島敦）の読解		小説の主人公について、典拠を踏まえて人物像を理解することができる		
		3rd	「山月記」（中島敦）の読解		表現の特徴に注意しながら、小説の展開を理解することができる		
		4th	「山月記」（中島敦）の読解		登場人物の心情と情景描写の効果について理解できる		
		5th	「山月記」（中島敦）の読解		小説の展開を整理し、全体的な主題を理解することができる		
		6th	「言葉によって」（大江健三郎）の読解		本文の作家・構成・主題を理解することができる		
		7th	「言葉によって」（大江健三郎）の読解 「小説とは何か」（三島由紀夫）の読解		本文の作家・構成・主題を理解することができる		
		8th	「汚れつちまつた悲しみに」（中原中也）の読解		作家・作品の構成と主題を理解することができる		
	2nd Quarter	9th	「鞆」（安部公房）の読解		登場人物の人物像を理解することができる		
		10th	「鞆」（安部公房）の読解		表現の特徴に注意しながら、小説の展開を理解することができる		
		11th	「鞆」（安部公房）の読解		小説の展開を整理し、全体的な主題を理解することができる		
		12th	儒家・道家について		日本文化に影響を与えた中国戦国時代の思想を理解することができる		
		13th	「五十歩百歩」（孟子）の読解		故事としてなじみのある文章を通して儒家の考え方を理解することができる		
		14th	老子・荘子の読解		寓話を通して老荘思想を理解することができる		
		15th	問題点の整理		問題となった諸点を振り返り、様々な文学的文章の特徴、儒家・道家の思想内容を整理することができる		
		16th	期末試験				
Evaluation Method and Weight (%)							
	試験	発表	相互評価	態度	ポートフォリオ	その他	Total

Subtotal	100	0	0	0	0	0	100
基礎的能力	100	0	0	0	0	0	100
專門的能力	0	0	0	0	0	0	0
分野横断的能力	0	0	0	0	0	0	0

Akashi College		Year	2023		Course Title	Japanese II-2	
Course Information							
Course Code		5202		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		『精選論理国語』 『精選古典探求 古文』（明治書院）・『新訂総合国語便覧』（第一学習社）					
Instructor		ZENTOH Masashi					
Course Objectives							
1) To capture and summarize the composition and development of logical sentences (essays and critic articles) accurately. 2) Can correctly read the different points of view of people and things drawn in literary sentences (novels and essays) and to be able to express the student's own opinions. 3) To elaborate texts and reports, create sentences that devise a logical structure based on classified information. To be able to transmit information effectively.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		The students can well summarize and explain the composition of a text.		The students can summarize and explain the composition of a text.		The students can not summarize and explain the composition of a text.	
Achievement 2		The students can well capture the characters figure and subject and evaluate it critically		The students can capture the characters figure and subject and evaluate it critically		The students can not capture the characters figure and subject and evaluate it critically	
Achievement 3		The students can well form clear opinions and conclusions, and organize his ideas and develop them logically, using empirical sentences.		The students can form clear opinions and conclusions, and organize his ideas and develop them logically, using empirical sentences.		The students can not form clear opinions and conclusions, and organize his ideas and develop them logically, using empirical sentences.	
Assigned Department Objectives							
Teaching Method							
Outline		To acquire basic knowledge of the Japanese language through the reading of various texts such as modern review papers, novels, poetry, and classical texts. To develop logical reading and text expression skills and make use of them linguistically, in an organized and sensitivity way.					
Style		Lecture format Perform short tests for kanji and phrases at every lesson					
Notice		To keep in mind that the Japanese language is the base of all subjects, including science subjects. The students should actively engage in the lessons without neglecting preparation and review. Students who miss 1/3 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Course guidance , Reading Marjana's wisdom		Capable of capturing their own challenges and setting goals		
		2nd	Reading "Hybridity in Japanese Culture" by Shuichi Kato		Can properly understand the content according to the expression		
		3rd	Reading "Hybridity in Japanese Culture" by Shuichi Kato		Able to express their own opinions based on their understanding of the content		
		4th	Reading "Hybridity in Japanese Culture" by Shuichi Kato		Able to express their own opinions based on their understanding of the content		
		5th	Reading "Money is a Word" (Keizaburo Maruyama)		Able to understand sentence structure		
		6th	Reading "Money is a Word" (Keizaburo Maruyama)		Able to express their own opinions based on their understanding of the content		
		7th	Reading "Money is a Word" (Keizaburo Maruyama)		Understand the subject matter and be able to express their own opinions about the work		
		8th	Reading "Money is a Word" (Keizaburo Maruyama)		Able to express their own opinions based on their understanding of the content		
	4th Quarter	9th	Reading of "Yowa no famine" (Hojoki)		Can understand from the top of literary history. Can read aloud appropriately and understand		
		10th	Reading of "Yowa no famine" (Hojoki)		Can interpret and answer questions from the textbook appropriately		
		11th	Reading of "Yowa no famine" (Hojoki)		Understand the characteristics of expression		
		12th	Reading "Koshibagaki no moto" (The Tale of Genji)		Can read aloud appropriately and explain the structure and development of the text		
		13th	Reading "Koshibagaki no moto" (The Tale of Genji)		Can interpret and answer questions from the textbook appropriately		
		14th	Reading "Koshibagaki no moto" (The Tale of Genji)		Able to give critical opinions about the content of the work		
		15th	Reading "Koshibagaki no moto" (The Tale of Genji)		Able to give critical opinions about the content of the work		

		16th	End term exams				
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	100	0	0	0	0	0	100
Basic Proficiency	100	0	0	0	0	0	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0



Akashi College		Year	2023		Course Title	Mathematics II B-1	
Course Information							
Course Code		5207		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		高遠 節夫 他 著 「新線形代数 改訂版」 大日本図書 高遠 節夫 他 著 「新線形代数 問題集 改訂版」 大日本図書					
Instructor							
Course Objectives							
1. ベクトルの計算および図形への応用ができる。 2. 行列の定義および 計算ができる。							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目 1		ベクトルの計算及び図形への応用が十分にできる。		ベクトルの計算及び図形への応用ができる。		ベクトルの計算及び図形への応用ができない。	
評価項目 2		行列の定義および 計算が十分にできる。		行列の定義および 計算ができる。		行列の定義および 計算ができない。	
Assigned Department Objectives							
Teaching Method							
Outline		幅広い分野で使われている線形代数学の基礎について講義・演習を行う。目標は平面上や空間内での図形の方程式を用いて、計算と幾何を関連付けできるようになることである					
Style		講義型授業、適時小テスト・レポート課題を実施。					
Notice		授業時にしっかりと理解に努めること。疑問点は必ず質問して、その都度解消するように努めること。またその日のうちに必ず復習し問題演習を十分に行うこと。 評価の対象としない欠席条件(割合) 1/3以上の欠課					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	平面ベクトル		ベクトルの演算の基本法則を使って計算ができる。		
		2nd	平面ベクトル		ベクトルの内積を計算できる。		
		3rd	平面ベクトル		平面ベクトルの成分表示を使って計算をすることができる。		
		4th	空間のベクトル		空間ベクトルの成分表示を使って計算をすることができる。		
		5th	空間のベクトル		平行四辺形の面積をベクトルで計算できる。		
		6th	空間のベクトル		平行条件・垂直条件を理解し、計算に使うことができる。		
		7th	空間のベクトル		空間の中の直線の方程式を求めることができる。		
		8th	総括		これまでの内容に関連した問題を解くことができる。		
	2nd Quarter	9th	空間ベクトル		空間の中の平面の方程式を求めることができる。		
		10th	空間ベクトル		ベクトルの外積を求め、使うことができる。		
		11th	空間ベクトル		点と平面との距離を求めることができる。		
		12th	空間ベクトル		球面の方程式を求めることができる。		
		13th	行列		行列の和・差・積の計算ができる。		
		14th	総括		これまでの内容に関連した問題を解くことができる。		
		15th	行列		行列の分配法則・結合法則を使うことができる。		
		16th	期末試験				
Evaluation Method and Weight (%)							
	定期試験		平常点 (小テスト・課題)		Total		
Subtotal	60		40		100		
基礎的能力	60		40		100		
専門的能力	0		0		0		
分野横断的能力	0		0		0		

Akashi College		Year	2023		Course Title	Mathematics II B-2	
Course Information							
Course Code		5208		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		Linear Algebra (Dai Nihon Tosho)					
Instructor							
Course Objectives							
1. Can calculate matrices and solve linear systems of equations. 2. Can understand the definition and properties of determinants and find the value of basic determinants.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can compute matrices and solve simultaneous linear equations satisfactorily.		Can compute matrices and solve simultaneous linear equations.		Cannot compute matrices and cannot solve simultaneous linear equations.	
Achievement 2		Can understand the definition and properties of determinants, and obtain the values for basic determinants satisfactorily.		Can understand the definition and properties of determinants and find the values of basic determinants.		Cannot understand the definition and properties of determinants and cannot find the values of basic determinants.	
Assigned Department Objectives							
Teaching Method							
Outline		This course provides lectures and exercises on the fundamentals of linear algebra, which is used in a wide range of fields. The goal is to be able to relate computation to geometry using equations of figures in the plane and in space.					
Style		There will be lecture-style classes, tests at appropriate times, and report assignments.					
Notice		Try to understand the material thoroughly during the classes. Make an effort to always ask about things that are unclear, and solve them then and there. Also, always review the material on the same day, and do the problem exercises properly. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
2nd Semester r	3rd Quarter	1st	Matrix	Can understand and use zero and unit matrices.			
		2nd	Matrix	Can find and use transpose and inverse matrices.			
		3rd	Definition and properties of determinant	Can compute second-order determinants and use Cramer's formula.			
		4th	Definition and properties of determinant	Can understand the definition of determinant and compute simple determinants.			
		5th	Definition and properties of determinant	Can understand the properties of determinants and use them in calculations.			
		6th	Application of determinant	Can expand determinants.			
		7th	Application of determinant	Can perform a variety of determinant calculations.			
		8th	Summary	Review of the total.			
	4th Quarter	9th	Application of determinant	Can use the cosine factor to find the inverse matrix.			
		10th	Application of determinant	Can factorize using determinants.			
		11th	Linear equations and matrices	Can understand and use matrix elimination methods.			
		12th	Linear equations and matrices	Can solve simultaneous linear equations using the elimination method.			
		13th	Linear equations and matrices	Can find the inverse matrix using the elimination method.			
		14th	Linear equations and matrices	Can determine the rank of a matrix.			
		15th	Summary	Review of the total.			
		16th	Exam	Confirmation of the studies.			
Evaluation Method and Weight (%)							
	Examination		Little test・Task		Total		
Subtotal		60		40		100	
Basic Proficiency		60		40		100	
Specialized Proficiency		0		0		0	
Cross Area Proficiency		0		0		0	

Akashi College		Year	2023		Course Title	Science II B-1
Course Information						
Course Code	5211			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 1	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	First Semester			Classes per Week	2	
Textbook and/or Teaching Materials	「新編化学基礎」数研出版、「リードα 化学基礎+化学」数研出版、「フォトサイエンス 化学図録」数研出版					
Instructor	SAKURAI Yasuhiro					
Course Objectives						
1. 物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができる。 2. 化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができる。 3. 酸・塩基に関する基本事項について説明や計算ができる。 4. 酸化・還元反応に関する基本事項について説明や計算ができる。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	物質の構成（粒子の結合に関する事項を含む）に関する基本事項についての的確な説明や正確な計算が十分にできる。		物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができる。		物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができない。	
評価項目2	化学反応式が取り扱え、反応量の関係に関する基本事項についての的確な説明や正確な計算が十分にできる。		化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができる。		化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができない。	
評価項目3	酸・塩基に関する基本事項についての的確な説明や正確な計算が十分にできる。		酸・塩基に関する基本事項について説明や計算ができる。		酸・塩基に関する基本事項について説明や計算ができない。	
評価項目4	酸化・還元反応に関する基本事項についての的確な説明や正確な計算が十分にできる。		酸化・還元反応に関する基本事項について説明や計算ができる。		酸化・還元反応に関する基本事項について説明や計算ができない。	
Assigned Department Objectives						
Teaching Method						
Outline	この科目は、企業で化学に関する研究開発を担当していた教員が、その経験を活かし、化学物質の性質や化学反応に関する基礎知識について講義形式で授業を行うものである。習得した化学の基礎事項をくらしや生活環境と関連付けて役立てる、化学の基礎理論を理解することによって、科学的思考を養うことを目標とする。また、アースサイエンスについても学習する。					
Style	授業は講義形式で行う。確認テストを複数回適宜実施する。					
Notice	日常生活を科学的に考察することによって、「化学」が身近な存在であることを認識して欲しい。 評価の対象としない欠席条件（割合） 1/3以上の欠課					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan						
			Theme		Goals	
1st Semester r	1st Quarter	1st	オリエンテーション：化学を学ぶに際して		化学の有用性と身近なモノとの関わりを理解し、説明できる。化学物質の有効性と生体や環境へのリスクを理解し、説明できる。	
		2nd	物質の構成－1：純物質と混合物		純物質と混合物の性質を理解し、説明できる。	
		3rd	物質の構成－2：元素、物質の三態		物質を構成する元素、物質の三態、状態変化を理解し、説明できる。	
		4th	物質の構成－3：原子の性質		原子について、電子配置、周期表、同位体を理解し、説明できる。	
		5th	化学結合－1：イオンの性質とイオン化エネルギー		イオンの性質、イオン化エネルギーについて理解し、説明できる。	
		6th	化学結合－2：イオン結合とイオン結晶		イオン結合、イオン結晶について理解し、説明できる。	
		7th	化学結合－3：分子、共有結合、配位結合		電子のふるまいと金属結合、金属の性質および化学結合について理解し、説明できる。	
		8th	化学結合－4：金属結合、化学結合		1stQで学習した基本事項について説明や計算ができる。	
	2nd Quarter	9th	物質の構成、化学結合に関してのまとめ 地学1,地学2		物質の構成、化学結合結合に関する基本事項について理解し、基礎的な問題を解くことができる。アースサイエンスに関するいくつかのトピックについて理解し、開設できる。	
		10th	化学反応式と反応量の関係－1：原子量、分子量、式量		原子量・分子量・式量を理解し、説明できる。	
		11th	化学反応式と反応量の関係－2：モル質量		物質量についてmol、モル質量を理解し、計算できる。	
		12th	化学反応式と反応量の関係－3：溶液の濃度		溶液の濃度について、モル濃度、質量パーセント濃度を理解し、計算できる。	
		13th	化学反応式と反応量の関係－4：化学反応式とイオン反応式		化学反応式やイオン反応式を理解し、説明できる。	

		14th	化学反応式と反応量の関係－５：反応式の量的関係	化学反応式の量的関係を説明でき、必要な計算ができる。
		15th	化学反応式と反応量の関係－６	化学反応式に関する基礎問題を解くことが出来る。
		16th	期末試験	前期の内容に関する基礎問題を解き、説明できる。
Evaluation Method and Weight (%)				
		試験	その他	Total
Subtotal		35	65	100
基礎的能力		35	65	100
専門的能力		0	0	0
分野横断的能力		0	0	0

Akashi College		Year	2023		Course Title	Science II B-2
Course Information						
Course Code	5212			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 1	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	Second Semester			Classes per Week	2	
Textbook and/or Teaching Materials	「新編化学基礎」数研出版、「リードα 化学基礎+化学」数研出版、「フォトサイエンス 化学図録」数研出版					
Instructor	SAKURAI Yasuhiro					
Course Objectives						
1. 物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができる。 2. 化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができる。 3. 酸・塩基に関する基本事項について説明や計算ができる。 4. 酸化・還元反応に関する基本事項について説明や計算ができる。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	物質の構成（粒子の結合に関する事項を含む）に関する基本事項についての的確な説明や正確な計算が十分にできる。		物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができる。		物質の構成（粒子の結合に関する事項を含む）に関する基本事項について説明や計算ができない。	
評価項目2	化学反応式が取り扱え、反応量の関係に関する基本事項についての的確な説明や正確な計算が十分にできる。		化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができる。		化学反応式が取り扱え、反応量の関係に関する基本事項について説明や計算ができない。	
評価項目3	酸・塩基に関する基本事項についての的確な説明や正確な計算が十分にできる。		酸・塩基に関する基本事項について説明や計算ができる。		酸・塩基に関する基本事項について説明や計算ができない。	
評価項目4	酸化・還元反応に関する基本事項についての的確な説明や正確な計算が十分にできる。		酸化・還元反応に関する基本事項について説明や計算ができる。		酸化・還元反応に関する基本事項について説明や計算ができない。	
Assigned Department Objectives						
Teaching Method						
Outline	この科目は、企業で化学に関する研究開発を担当していた教員が、その経験を活かし、化学物質の性質や化学反応に関する基礎知識について講義形式で授業を行うものである。習得した化学の基礎事項をくらしや生活環境と関連付けて役立てる、化学の基礎理論を理解することによって、科学的思考を養うことを目標とする。また、ライフサイエンスについても学習する。					
Style	授業は講義形式で行う。確認テストを複数回適宜実施する。					
Notice	日常生活を科学的に考察することによって、「化学」が身近な存在であることを認識して欲しい。 評価の対象としない欠席条件（割合） 1/3以上の欠課					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	酸・塩基の反応－1：酸・塩基の性質	酸と塩基の性質について理解し、説明できる。アレニウス、ブレンステッドローリーの酸・塩基を理解し、説明できる。		
		2nd	酸・塩基の反応－2：価数と電離度	価数、電離度を理解し、酸と塩基の強弱を説明できる。		
		3rd	酸・塩基の反応－3：水素イオン濃度	水素イオン濃度について理解し、説明できる。		
		4th	酸・塩基の反応－4：pHと指示薬	pH、指示薬について理解し、測定方法、pHの変化について考察、説明できる。		
		5th	酸・塩基の反応－5：中和反応と塩	中和反応について理解できる。塩の性質を理解し、説明できる。		
		6th	酸・塩基の反応－6：中和滴定	中和滴定について理解し、説明できる。		
		7th	酸・塩基の反応－7	酸・塩基の反応に関する基礎問題が解ける。		
		8th	酸化・還元反応－1：酸化と還元	酸化と還元について理解し、説明できる。		
	4th Quarter	9th	酸化・還元反応－2：酸化数の変化	酸化数について理解し、酸化・還元反応前後の変化を説明できる。		
		10th	酸化・還元反応－3：酸化剤、還元剤	代表的な酸化剤、還元剤の性質を理解し説明できる。		
		11th	酸化・還元反応－4：酸化還元反応式	酸化還元反応式を理解し、説明できる。		
		12th	酸化・還元反応－5：金属の酸化還元反応	金属の酸化還元反応について理解できる。		
		13th	酸化・還元反応－6：イオン化傾向	イオン化傾向について説明できる。		
		14th	酸化・還元反応－7：電池	電池の仕組みについて理解し、説明できる。		
		15th	酸化・還元反応 生物学1、生物学2	酸化・還元に関する基礎問題が解ける。ライフサイエンスに関する内容について理解し、解説できる。		
		16th	期末試験	後期の内容に関する基礎問題を解き、説明できる。		
Evaluation Method and Weight (%)						
	試験		その他		Total	

Subtotal	35	65	100
基礎的能力	35	65	100
專門的能力	0	0	0
分野横断的能力	0	0	0

Akashi College		Year	2023		Course Title	Physical Education II-1	
Course Information							
Course Code		5213		Course Category		General / Compulsory	
Class Format		Skill		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		ISHIDA Masami,KOBAYASHI Yuki					
Course Objectives							
<ul style="list-style-type: none"><li>Participate in classes to improve students' own health and physical strength. Also, have some level of self-discipline.</li><li>Can take action to conduct sports safely. Also, recognizes the significance of collaborating and cooperating with the team and can take the necessary action to do so.</li></ul>							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Actively participate in classes to improve their health and physical strength. Have a high level of self-discipline.		Participate in classes to improve their health and physical strength. Have some level of self-discipline.		Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.	
Achievement 2		Actively participate in various sport practices and games, and are very competitive. Also have a great influence on games, etc.		Can actively participate in various sport practices and games. And also have the skills for them.		Do not participate in various sport practices and games.	
Achievement 3		Understand the role of a leader well, and can help increase teamwork.		Understand and can play or take on the role of a leader.		Do not understand the role of a leader. Also, never play that role.	
Assigned Department Objectives							
Teaching Method							
Outline		The goal of this course is for students to learn more about the fun and depth of sports so that they can build the habit of playing sports on a daily basis. This class requires an active and proactive attitude to participate. Students will split into groups and leaders will take the lead to plan, review, and implement the course content. Students can choose from: Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc					
Style		Students are encouraged to improve their skills through games based on the rules, how to play games, and the basic skills they learned in previous years. They are also encouraged to experience the fun of enhancing teamwork while collaborating and cooperating with your team with your leader in the center. Students should take the initiative in creating a safe and welcoming class, and the instructors support their effort.					
Notice		<ul style="list-style-type: none"><li>Wear training wear and athletic shoes. If students fail to wear them, points will be deducted from their grade.</li><li>Do not wear or bring accessories, watches, or any other unnecessary items. These are also eligible for grade deduction.</li><li>Tardiness will be excused for the first 20 minutes. Students can participate in the class after 20 minutes, but their attendance will be marked as absent.</li><li>If it is discovered that a student left class early without being excused (ditching class), their attendance for that class will be marked as absent, and their grade for previous classes will suffer a deduction equal to an absence.</li><li>Students who miss 1/4 or more of classes will not be eligible for evaluation.</li></ul>					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester r	1st Quarter	1st	Guidance Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Understand the purposes and objectives of this course. Split into teams in each sport and select a leader.		
		2nd	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		3rd	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		4th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		5th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		6th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		7th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		

		8th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
	2nd Quarter	9th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Split into teams in each sport and select a leader.
		10th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		11th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		12th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		13th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		14th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		15th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		16th	No final exam	

#### Evaluation Method and Weight (%)

	Approach to a class	Practical skill	Leadership	Total
Subtotal	75	15	10	100
Basic Proficiency	75	0	0	75
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	15	10	25



Akashi College		Year	2023		Course Title	Physical Education II-2	
Course Information							
Course Code		5214		Course Category		General / Compulsory	
Class Format		Skill		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		GOTOH Takayuki,ISHIDA Masami					
Course Objectives							
<ul style="list-style-type: none"><li>Participate in classes to improve students' own health and physical strength. Also, have some level of self-discipline.</li><li>Can take action to conduct sports safely. Also, recognizes the significance of collaborating and cooperating with the team and can take the necessary action to do so.</li></ul>							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Actively participate in classes to improve their health and physical strength. Have a high level of self-discipline.		Participate in classes to improve their health and physical strength. Have some level of self-discipline.		Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.	
Achievement 2		Actively participate in various sport practices and games, and are very competitive. Also have a great influence on games, etc.		Can actively participate in various sport practices and games. And also have the skills for them.		Do not participate in various sport practices and games.	
Achievement 3		Understand the role of a leader well, and can help increase teamwork.		Understand and can play or take on the role of a leader.		Do not understand the role of a leader. Also, never play that role.	
Assigned Department Objectives							
Teaching Method							
Outline		The goal of this course is for students to learn more about the fun and depth of sports so that they can build the habit of playing sports on a daily basis. This class requires an active and proactive attitude to participate. Students will split into groups and leaders will take the lead to plan, review, and implement the course content. Students can choose from: Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc					
Style		Students are encouraged to improve their skills through games based on the rules, how to play games, and the basic skills they learned in previous years. They are also encouraged to experience the fun of enhancing teamwork while collaborating and cooperating with your team with your leader in the center. Students should take the initiative in creating a safe and welcoming class, and the instructors support their effort.					
Notice		<ul style="list-style-type: none"><li>Wear training wear and athletic shoes. If students fail to wear them, points will be deducted from their grade.</li><li>Do not wear or bring accessories, watches, or any other unnecessary items. These are also eligible for grade deduction.</li><li>Tardiness will be excused for the first 20 minutes. Students can participate in the class after 20 minutes, but their attendance will be marked as absent.</li><li>If it is discovered that a student left class early without being excused (ditching class), their attendance for that class will be marked as absent, and their grade for previous classes will suffer a deduction equal to an absence.</li><li>Students who miss 1/4 or more of classes will not be eligible for evaluation.</li></ul>					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Guidance Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Understand the purposes and objectives of this course. Split into teams in each sport and select a leader.		
		2nd	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		3rd	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		4th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		5th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		6th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		
		7th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc		Can do warm-up and practice, play games, and reflect on the class, led by a leader.		

		8th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
	4th Quarter	9th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Split into teams in each sport and select a leader.
		10th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		11th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		12th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		13th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		14th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		15th	Baseball, softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, training, flying disc	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		16th	No final exam	

Evaluation Method and Weight (%)				
	Approach to a class	Practical skill	Leadership	Total
Subtotal	75	15	10	100
Basic Proficiency	75	0	0	75
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	15	10	25

Akashi College		Year	2023		Course Title	English II A-1
Course Information						
Course Code		5215		Course Category	General / Compulsory	
Class Format		Lecture		Credits	School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade	2nd	
Term		First Semester		Classes per Week	2	
Textbook and/or Teaching Materials		Crown English Communication II / Crown Study Note / Crown WORKBOOK / Listening CDs				
Instructor		HERBERT John C.				
Course Objectives						
1) To review the vocabulary learned at junior high school, acquire new vocabulary following the high school learning guidelines, and use it appropriately. 2) To review the grammar learned at junior high school, and learn to use grammar rules appropriately, according to the high school study guidelines. 3) To review sentence structures learned in junior high school and learn to use sentence structures appropriately, following the high school learning guidelines. 4) To read sentences, understand text outlines, and extract necessary information from English texts. 5) To acquire English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.						
Rubric						
		Ideal Level	Standard Level		Unacceptable Level	
Achievement 1		The student has well acquired new vocabulary following the high school learning guidelines and uses them appropriately.	The student has acquired new vocabulary following the high school learning guidelines and uses them appropriately.		The student has neither acquired new vocabulary following the high school learning guidelines nor used them appropriately.	
Achievement 2		The student has well learned to use grammar rules appropriately, according to the high school study guidelines.	The student has learned to use grammar rules appropriately, according to the high school study guidelines.		The student has not learned to use grammar rules appropriately, according to the high school study guidelines.	
Achievement 3		The student has well learned to use sentence structures appropriately, following the high school learning guidelines.	The student has learned to use sentence structures appropriately, following the high school learning guidelines.		The student has not learned to use sentence structures appropriately, following the high school learning guidelines.	
Achievement 4		The student can read sentences, understand text outlines, and extract necessary information from English texts very well.	The student can read sentences, understand text outlines, and extract necessary information from English texts.		The student can not read sentences, understand text outlines, or extract necessary information from English texts.	
Achievement 5		The student has well acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	The student has acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.		The student has not acquired English pronunciation skills or accent rules so that the student can speak clearly and communicate to the listener.	
Assigned Department Objectives						
Teaching Method						
Outline		Based on English learned in junior high school, this class is to help students understand the basic structure of English sentences and acquire reading skills; to help them acquire the ability to listen and express simple English sentences; and, to perform word tests and strengthen vocabulary knowledge.				
Style		Attend the classes, prepare for the classes by studying the relevant sections of the workbook. A handout will be provided in the first week. Study the handout and understand it in detail.				
Notice		Quizzes are used to increase student vocabulary and develop listening ability. Students who miss 1/4 or more of the classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester r	1st Quarter	1st	Course guidance (Course progress method, learning method, etc.)		Understand course content and assignments.	
		2nd	Chapter 1 Part 1/2		Based on the content learned in junior high school, understand the basic structure of English language.	
		3rd	Chapter 1 Part 3/4		Based on the content learned in junior high school, understand the basic structure of English language.	
		4th	Language and Culture Workshop		Understanding the cross-cultural communication through authentic materials.	
		5th	Chapter 2 Part 1/2		Based on the content learned in junior high school, understand the basic structure of English language.	
		6th	Chapter 2 Part 3/4		Based on the content learned in junior high school, understand the basic structure of English language.	
		7th	Review		Understanding the weak points on the content learned so far.	

		8th	Chapter 3 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
	2nd Quarter	9th	Chapter 3 Part 3/4	Learn the vocabulary and grammar rules set as lesson tasks.
		10th	Chapter 4 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		11th	Chapter 4 Part 3/4	Learn the vocabulary and grammar rules set as lesson tasks.
		12th	Review	Understanding the weak points on the content learned so far.
		13th	Chapter 5 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	Chapter 5 Part 3/4	Learn the vocabulary and grammar rules set as lesson tasks.
		15th	Review	Understanding the weak points on the content learned so far and preparing for the exam.
		16th	Final exam	Test the student understanding of the content learned so far.

#### Evaluation Method and Weight (%)

	Final Exam	Quizzes	Assignments	Behavior/Active Learning	Total
Subtotal	40	40	10	10	100
Basic Proficiency	40	40	10	10	100
Specialized Proficiency	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0

Akashi College		Year	2023	Course Title	English II A-2
Course Information					
Course Code	5216		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	2nd	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Crown English Communication II / Crown Study Note / Crown WORKBOOK				
Instructor	INOUE Hidetoshi				
Course Objectives					
1) To review the vocabulary learned at junior high school, acquire new vocabulary following the high school learning guidelines, and use it appropriately. 2) To review the grammar learned at junior high school, and learn to use grammar rules appropriately, according to the high school study guidelines. 3) To review sentences structures learned in junior high school, and learn to use sentence structures and operate them appropriately, following the high school learning guidelines. 4) Can read sentences written in English, understand the text outline, read and extract necessary information. 5) To acquire English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.					
Rubric					
	Ideal Level	Standard Level		Unacceptable Level	
Achievement 1	The student has well acquired new vocabulary following the high school learning guidelines and use it appropriately.	The student has acquired new vocabulary following the high school learning guidelines and use it appropriately.		The student has not acquired new vocabulary following the high school learning guidelines and use it appropriately.	
Achievement 2	The student has well learned to use grammar rules appropriately, according to the high school study guidelines.	The student has learned to use grammar rules appropriately, according to the high school study guidelines.		The student has not learned to use grammar rules appropriately, according to the high school study guidelines.	
Achievement 3	The student has well learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	The student has learned to use sentence structures and operate them appropriately, following the high school learning guidelines.		The student has not learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	
Achievement 4	The student can well read sentences written in English, understand the text outline, read and extract necessary information.	The student can read sentences written in English, understand the text outline, read and extract necessary information.		The student can not read sentences written in English, understand the text outline, read and extract necessary information.	
Achievement 5	The student has well acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	The student has acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.		The student has not acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	
Assigned Department Objectives					
Teaching Method					
Outline	Based on the junior high school learned content, to understand the basic structure of English sentences and acquire reading skills. To acquire the ability to listen and express simple English sentences. To perform word tests and strengthen vocabulary knowledge.				
Style	Attend the classes, prepare for the classes studying the relevant sections of the workbook. Handout will be provided in the first week. Go over the handout and understand it in detail.				
Notice	Use quizzes to increase student vocabulary and develop listening ability. Students who miss 1/3 or more of classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester r	3rd Quarter	1st	Course guidance (Course progress method, learning method, etc.)	Understand course content and assignments.	
		2nd	Chapter 5 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.	
		3rd	Chapter 5 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.	
		4th	Chapter 5 Part 3/4	Learn the vocabulary and grammar rules set as lesson tasks.	
		5th	End-of-chapter Questions	Learn the vocabulary and grammar rules set as lesson tasks.	
		6th	Chapter 6 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.	
		7th	Chapter 6 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.	
		8th	Mid-term exam	Test the student understanding of the content learned so far.	

	4th Quarter	9th	Return and explain mid-term exam Chapter 6 Part 3/4	To overcome weak points
		10th	Chapter 6 Part 4 End-of-chapter Questions	Learn the vocabulary and grammar rules set as lesson tasks.
		11th	Chapter 7 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		12th	Chapter 7 Part 2/3	Learn the vocabulary and grammar rules set as lesson tasks.
		13th	Chapter 7 Part 3/4	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	End-of-chapter Questions	Learn the vocabulary and grammar rules set as lesson tasks.
		15th	Chapter 7 Part 1/2	Learn the vocabulary and grammar rules set as lesson tasks.
		16th	Final exam	Test the student understanding of the content learned so far.

#### Evaluation Method and Weight (%)

	Examination	Assignments	Quizes	Behavior	Portfolio	Other	Total
Subtotal	50	30	20	0	0	0	100
Basic Proficiency	50	30	20	0	0	0	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2023		Course Title	English II B-1
Course Information						
Course Code	5217		Course Category	General / Compulsory		
Class Format	Lecture		Credits	School Credit: 1		
Department	Electrical and Computer Engineering		Student Grade	2nd		
Term	First Semester		Classes per Week	2		
Textbook and/or Teaching Materials	(1) Vision Quest (参考書・教科書・Workbook) (2) データベース4500 5th Edition (3) ネクスステージ 4th Edition					
Instructor	INOUE Hidetoshi					
Course Objectives						
1) To review the vocabulary learned at junior high school, acquire new vocabulary following the high school learning guidelines, and use it appropriately. 2) To review the grammar learned at junior high school, and learn to use grammar rules appropriately, according to the high school study guidelines. 3) To review sentences structures learned in junior high school, and learn to use sentence structures and operate them appropriately, following the high school learning guidelines. 4) To acquire English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	The student has well acquired new vocabulary following the high school learning guidelines and use it appropriately.		The student has acquired new vocabulary following the high school learning guidelines and use it appropriately.		The student has not acquired new vocabulary following the high school learning guidelines and use it appropriately.	
Achievement 2	The student has well learned to use grammar rules appropriately, according to the high school study guidelines.		The student has learned to use grammar rules appropriately, according to the high school study guidelines.		The student has not learned to use grammar rules appropriately, according to the high school study guidelines.	
Achievement 3	The student has well learned to use sentence structures and operate them appropriately, following the high school learning guidelines.		The student has learned to use sentence structures and operate them appropriately, following the high school learning guidelines.		The student has not learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	
Achievement 4	The student has well acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.		The student has acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener		The student has not acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	
Assigned Department Objectives						
Teaching Method						
Outline	Based on the junior high school learned content, to understand the basic structure of English sentences. To acquire the ability to listen and express simple English sentences. To perform word tests and strengthen vocabulary knowledge.					
Style	Attend the classes, prepare for the classes studying the relevant sections of the workbook.					
Notice	Use quizzes to increase student vocabulary and develop listening ability. Students who miss 1/4 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester r	1st Quarter	1st	Course summary explanation	Understand the class schedule		
		2nd	Unit 1	Learn the vocabulary and grammar rules set as lesson tasks.		
		3rd	Unit 2	Learn the vocabulary and grammar rules set as lesson tasks.		
		4th	Unit 3	Learn the vocabulary and grammar rules set as lesson tasks.		
		5th	Unit 4	Learn the vocabulary and grammar rules set as lesson tasks.		
		6th	Unit 5	Learn the vocabulary and grammar rules set as lesson tasks.		
		7th	Review	Understanding the weak points on the content learned so far and preparing for the exam.		
		8th	Mid term exam	Test the student understanding of the content learned so far.		
	2nd Quarter	9th	Return and explanation of mid term exam	To overcome weak points		
		10th	Unit 6	Learn the vocabulary and grammar rules set as lesson tasks.		
		11th	Unit 7	Learn the vocabulary and grammar rules set as lesson tasks.		
		12th	Unit 8	Learn the vocabulary and grammar rules set as lesson tasks.		

		13th	Unit 9	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	Unit 10	Learn the vocabulary and grammar rules set as lesson tasks.
		15th	Review	Understanding the weak points on the content learned so far and preparing for the exam.
		16th	End term exam	Test the student understanding of the content learned so far.

Evaluation Method and Weight (%)				
	Examination	Short Tests	Others	Total
Subtotal	50	30	20	100
Basic Proficiency	50	30	20	100
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	0	0	0



Akashi College		Year	2023		Course Title	English II B-2
Course Information						
Course Code	5218			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 1	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	Second Semester			Classes per Week	2	
Textbook and/or Teaching Materials	(1) Vision Quest (参考書・教科書・Workbook・Quick Review) (2) データベース4500 5th Edition (3) ネクステージ 4th Edition					
Instructor	INOUE Hidetoshi					
Course Objectives						
1) To review the vocabulary learned at junior high school, acquire new vocabulary following the high school learning guidelines, and use it appropriately. 2) To review the grammar learned at junior high school, and learn to use grammar rules appropriately, according to the high school study guidelines. 3) To review sentences structures learned in junior high school, and learn to use sentence structures and operate them appropriately, following the high school learning guidelines. 4) To acquire English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.						
Rubric						
		Ideal Level	Standard Level		Unacceptable Level	
Achievement 1		The student has well acquired new vocabulary following the high school learning guidelines and use it appropriately.	The student has acquired new vocabulary following the high school learning guidelines and use it appropriately.		The student has not acquired new vocabulary following the high school learning guidelines and use it appropriately.	
Achievement 2		The student has well learned to use grammar rules appropriately, according to the high school study guidelines.	The student has learned to use grammar rules appropriately, according to the high school study guidelines.		The student has not learned to use grammar rules appropriately, according to the high school study guidelines.	
Achievement 3		The student has well learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	The student has learned to use sentence structures and operate them appropriately, following the high school learning guidelines.		The student has not learned to use sentence structures and operate them appropriately, following the high school learning guidelines.	
Achievement 4		The student has well acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	The student has acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener		The student has not acquired English pronunciation skills and accent rules so that the student can speak clearly and communicate to the listener.	
Assigned Department Objectives						
Teaching Method						
Outline	Based on the junior high school learned content, to understand the basic structure of English sentences. To acquire the ability to listen and express simple English sentences. To perform word tests and strengthen vocabulary knowledge.					
Style	Attend the classes, prepare for the classes studying the relevant sections of the workbook.					
Notice	Use quizzes to increase student vocabulary and develop listening ability. Students who miss 1/4 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	Course summary explanation	Understand the class schedule		
		2nd	Unit 1	Learn the vocabulary and grammar rules set as lesson tasks.		
		3rd	Unit 2	Learn the vocabulary and grammar rules set as lesson tasks.		
		4th	Unit 3	Learn the vocabulary and grammar rules set as lesson tasks.		
		5th	Unit 4	Learn the vocabulary and grammar rules set as lesson tasks.		
		6th	Unit 5	Learn the vocabulary and grammar rules set as lesson tasks.		
		7th	Review	Understanding the weak points on the content learned so far and preparing for the exam.		
		8th	Mid term exam	Test the student understanding of the content learned so far.		
	4th Quarter	9th	Return and explanation of mid term exam	To overcome weak points		
		10th	Unit 6	Learn the vocabulary and grammar rules set as lesson tasks.		
		11th	Unit 7	Learn the vocabulary and grammar rules set as lesson tasks.		
		12th	Unit 8	Learn the vocabulary and grammar rules set as lesson tasks.		

		13th	Unit 9	Learn the vocabulary and grammar rules set as lesson tasks.
		14th	Unit 10	Learn the vocabulary and grammar rules set as lesson tasks.
		15th	Review	Understanding the weak points on the content learned so far and preparing for the exam.
		16th	End term exam	Test the student understanding of the content learned so far.

Evaluation Method and Weight (%)				
	Examination	Short Tests	Others	Total
Subtotal	50	30	20	100
Basic Proficiency	50	30	20	100
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	0	0	0

Akashi College		Year	2023		Course Title	C o + w o r k I A	
Course Information							
Course Code		5219		Course Category		General / Compulsory	
Class Format		Seminar		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		『Co+work book～3年間の記録』、Co+work学生ポータルサイト、その他、各チームの活動の内容に応じて適宜担当教員が用意する。					
Instructor		All faculty					
Course Objectives							
自律に関する到達目標：自己調整ができる。 協働に関する到達目標：他者を尊重しながらチームで作業ができる。 創造に関する到達目標：課題等を発見し新しい提案ができる。							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
自律に関する到達目標		タイムマネジメントや必要に応じた報告・連絡・相談ができ、目標を立て振り返ることができる。これらを自分なりの判断と工夫を加え最善と思う行動をとる。		タイムマネジメントや必要に応じた報告・連絡・相談ができ、目標を立て振り返ることができる。これらのことをやるべき時に行く。		タイムマネジメントや必要に応じた報告・連絡・相談、目標を立て振り返ることの行動が伴わない。	
協働に関する到達目標		他者の意見をしっかりと聞き、他者を受け入れつつ自己表現ができる。また、協働作業に貢献することができる。これらを自分なりの判断と工夫を加え最善と思う行動をとる。		他者の意見をしっかりと聞き、他者を受け入れつつ自己表現ができる。また、協働作業に貢献することができる。これらのことをやるべき時に行く。		他者の意見をしっかりと聞くこと、他者を受け入れつつ自己表現を行う行動が伴わない。また、協働作業に貢献する行動が伴わない。	
創造に関する到達目標		記録や収集した情報の意味づけを踏まえ、新しいものやしくみの提案をすることができる。また提案の及ぼす影響や範囲を特定できる。そして、これらを自分なりの判断と工夫を加え最善と思う行動をとる。		新しいものやしくみの提案をすることができる。また提案の及ぼす影響や範囲を特定できる。また、これらのことをやるべき時に行く。		記録や収集した情報の意味づけを踏まえ、新しくものやしくみの提案をすることができない。また提案の及ぼす影響や範囲を特定できない。また、新しい提案をする行動が伴わない。	
Assigned Department Objectives							
Teaching Method							
Outline		本授業は、2、3、4年生、4学科の学生を無作為に選んで構成された数名で編成されたチームで行うPBL型授業である。1人の教員が1チームもしくは2チームを担当する。多様な環境（他学科・他学年の学生との交わり、学外の人々との交わりなど）の中で、自律、協働、創造の能力を養成することを目的とする。受講生は、自らチーム内での役割を考えて行動しチームワーク力を発揮して、メンバーと協働しながら創造的な活動を行うことが求められる。活動テーマは、誰かを幸せにするもの（社会との関わりを持つ）、チームにとってのチャレンジを含むもの、SDGs（持続可能な開発目標）の17の目標につながるものとする。					
Style		ルーブリックを参照しながら、各自で自己目標を立てる。そしてチーム内で自己紹介、アイスブレイクを通じてチーム内の人間関係を構築する。次にチームで、SDGs（持続可能な開発目標）の17の目標の目標の細分化項目の調査や把握を通じて、その理解を深める。それから話し合いを通じて、SDGsの目標につながるチームの活動テーマを確定し、活動計画書を作成する。第7週の計画発表会・意見交換会にてチームの活動テーマについて、プレゼンテーションを行い、他のチームの担当教員や学生からの助言を受ける。助言を受け、適宜チームで計画の修正を行う。その後はチームで協力、役割分担をしながら計画的に、提案やプロトタイプ作成、実践活動などを進める。毎週、授業の終わりにチームでふりかえりを行いチーム活動報告書を記入し担当教員に提出する。必要に応じて修正を加えながら次回の目標を立てる。前期終了時には、担当教員と個別に自己評価や相互評価を踏まえたふりかえりを行う。					
Notice		(1) 個人の取り組み 60%（自律（40%）＋協働（40%）＋創造（20%）） (2) チームの取り組み20%（協働（50%）＋創造（50%）） (3) 成果 20%（協働（50%）＋創造（50%）） 上記（1）は、ルーブリックを用いた学生の自己評価、相互評価と教員の評価をもとに、チームの担当教員が評価を行う。（2）（3）は計画発表会での複数の教員などによる評価とする。60点以上を合格とする。 評価の対象としない欠席条件(割合) 1/4以上の欠課					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester r	1st Quarter	1st	オリエンテーション 授業ガイダンス、チームビルディング 授業ガイダンスを受け、全体スケジュール、活動に関する諸注意、評価方法等を確認する。担当教員とチームメンバーの顔合わせ、チームビルディングを行う。		この授業の目的や進め方を理解する		
		2nd	活動目標の決定および活動内容の計画、自己目標を各自で定めて記録する。チーム活動に向け、テーマに沿ってアイデアを出し議論をする。 決定した活動目標に沿って、実施方法、役割分担、スケジュール等を決定し活動計画書にまとめる。		自律、協働、創造の能力を身に付ける		
		3rd	活動目標の決定および活動内容の計画 チーム活動の目標決定に向け、テーマに沿ってアイデアを出し議論をする。決定した活動目標に沿って、方法、役割分担、スケジュール等を決定し活動計画書にまとめる。完成後は活動を開始する。		自律、協働、創造の能力を身に付ける		

		4th	活動目標の決定および活動内容の計画 チーム活動の目標決定に向け、テーマに沿ってアイデアを出し議論をする。決定した活動目標に沿って、方法、役割分担、スケジュール等を決定し活動計画書にまとめる。完成後は活動を開始する。	自律、協働、創造の能力を身に付ける
		5th	活動目標の決定および活動内容の計画 チーム活動の目標決定に向け、テーマに沿ってアイデアを出し議論をする。決定した活動目標に沿って、方法、役割分担、スケジュール等を決定し活動計画書にまとめる。活動計画書を提出する。	自律、協働、創造の能力を身に付ける
		6th	チーム活動 活動計画書に従ってチームで活動を行う。計画発表会 & 意見交換会の準備を行う。	自律、協働、創造の能力を身に付ける
		7th	計画発表会 & 意見交換会 活動内容を共有するためにチームの活動について報告を行う。他のチームの報告を聞き、意見交換を行う。	チームの活動を簡潔に伝えることができる 他のチームの活動を共有し評価し、意見を伝えることができる
		8th	計画の見直し・チーム活動 計画発表会 & 意見交換会を踏まえ、計画の見直しを行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。	自律、協働、創造の能力を身に付ける
	2nd Quarter	9th	チーム活動 活動計画書に従ってチームで活動を行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。	自律、協働、創造の能力を身に付ける
		10th	チーム活動 活動計画書に従ってチームで活動を行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。中間報告会の準備を行う。	自律、協働、創造の能力を身に付ける
		11th	チーム活動 活動計画書に従ってチームで活動を行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。中間報告会の準備を行う。	自律、協働、創造の能力を身に付ける
		12th	チーム活動 活動計画書に従ってチームで活動を行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。中間報告会の準備を行う。	自律、協働、創造の能力を身に付ける
		13th	チーム活動 活動計画書に従ってチームで活動を行う。スケジュールの遅延や実施方法の不備等が明らかになった場合、活動計画の修正・変更を行う。	自律、協働、創造の能力を身に付ける
		14th	これまでの活動のふりかえり 前期の振り返りを行うと共にこれまでのチーム活動を省み、今後の活動計画を確認する。各自の行動を省みて、自律、協働、創造に関して目標達成した点や反省点を自己および相互に記録する。自己および相互の行動の記録をもとにチーム担当教員より個別にフィードバックを受ける。	チームや自身の行動を客観的にふりかえることができる
		15th	これまでの活動のふりかえり 前期の振り返りを行うと共にこれまでのチーム活動を省み、今後の活動計画を確認する。各自の行動を省みて、自律、協働、創造に関して目標達成した点や反省点を自己および相互に記録する。自己および相互の行動の記録をもとにチーム担当教員より個別にフィードバックを受ける。	チームや自身の行動を客観的にふりかえることができる
		16th	期末試験 実施せず	

#### Evaluation Method and Weight (%)

	個人評価（プロセス評価）（自律）	個人評価（プロセス評価）（協働）	個人評価（プロセス評価）（創造）	チーム評価（成果物、報告会）（協働）	チーム評価（成果物、報告会）（創造）	Total
Subtotal	24	24	12	20	20	100
基礎的能力	0	0	0	0	0	0
専門的能力	0	0	0	0	0	0
分野横断的能力	24	24	12	20	20	100

Akashi College		Year	2023		Course Title	C o + w o r k I B	
Course Information							
Course Code		5220		Course Category		General / Compulsory	
Class Format		Seminar		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		2nd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		No required textbook and the required material will change according to the contents of the activity of each team.					
Instructor		All faculty					
Course Objectives							
1) Self-reliance: To acquire individuality and self-management ability 2) Co-operation skills: To gain the ability to work in teams and respect the teammates. 3) Creative Skills: To acquire the ability to gather and organize information, discover and propose solutions to problems.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
1 Self-reliance		Schedule management, reporting, contact, consultation, planning goals with the teammates		Individually able to schedule management, reporting, contact, consultation, planning goals.		Not able to schedule management, reporting, contact, consultation, and planning goals	
2 Co-operation skills		Open to different opinions, able to express the student personal opinion, and ability to lead the team into a consensus.		Open to different opinions, able to express the student personal opinion, and ability to play the attributed role in the team.		Not open to different opinions, not able to express the student personal opinion, and can't to play the attributed role in the team.	
3 Creative Skills		The student can voluntarily gather information, organize and summarize this information, form ideas and explain those ideas to others.		The student can voluntarily gather information, organize and summarize this information, and explain those ideas to others.		The student can't voluntarily gather information, can't organize and summarize this information, and can't explain those ideas to others.	
Assigned Department Objectives							
Teaching Method							
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 in 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 students will revise their plan after its presentation at a briefing session and retrospective evaluation.					
Style		2nd,3rd, and 4th academic year students from all four departments are randomly selected to compose a group with multiple students. After each student introduces themselves to the team, they will perform ice breaks and other activities that will help to build relationships within the group. Later the team will discuss and discover a problem to work with, make plans, divide roles among the members and work together toward a solution to the problem. Through working to solve this problem the students will achieve the goals of self-reliance, co-operation, and creativity. After the course start, make sure that you can contact the teacher in charge of the team. Based on the course rubric distributed in class each student has to establish individual goals. The course rubric is used to self-evaluation, mutual evaluation, and to evaluate the performance of each student. Every week at the end of the lesson, the student has to fill a retrospective sheet and set the next goal.					
Notice		The grading system of the course is composed on the self-evaluation by students, mutual evaluation, evaluation by the teacher in charge of the team (1), and multiple faculty members at the briefing session at the end of the term (2). Students who miss 1/4 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Course overall guidance, presentation of the members of each team, team building guidance, confirmation of course schedule, restrictions and advice regarding the activities, explanation of the evaluation method. Later team members and the team and the teacher in charge meet and work together on team building.		To acquire Self-reliance, Co-operation and Creative Skills.		
		2nd	Each student set the activity targets, and self-goals. The team will discuss ideas and a theme to the activities. Later according to the team activity goal, the group will work on the implementation method, division of roles among the members and schedule, which will be summarized in an action plan.		To acquire Self-reliance, Co-operation and Creative Skills.		
		3rd	Each student set the activity targets, and self-goals. The team will discuss ideas and a theme to the activities. Later according to the team activity goal, the group will work on the implementation method, division of roles among the members and schedule, which will be summarized in an action plan.		To acquire Self-reliance, Co-operation and Creative Skills.		

		4th	Each student set the activity targets, and self-goals. The team will discuss ideas and a theme to the activities. Later according to the team activity goal, the group will work on the implementation method, division of roles among the members and schedule, which will be summarized in an action plan.	To acquire Self-reliance, Co-operation and Creative Skills.
		5th	Setting targets and planning activities, submit the action plan. According to the theme and goals of the team, the group will draw ideas and discuss them. The group will establish the activity goal, decide the method to achieve it, decide members' role sharing, schedule, and summarize in a plan.	To acquire Self-reliance, Co-operation and Creative Skills.
		6th	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.	To acquire Self-reliance, Co-operation and Creative Skills.
		7th	Team activities: Work according to the action plan.	To acquire Self-reliance, Co-operation and Creative Skills.
		8th	No mid-term Exam	
	4th Quarter	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-reliance, Co-operation and Creative Skills.
		10th	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-reliance, Co-operation and Creative Skills.
		11th	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-reliance, Co-operation and Creative Skills.
		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-reliance, Co-operation and Creative Skills.
		13th	Briefing session: Report the activities of the team and listen to reports from other groups.	To acquire Self-reliance, Co-operation and Creative Skills.
		14th	Retrospective meeting and summary of activities: The group will discuss the results from the briefing session and review the team action plan. The students will evaluate individually and mutually their achieved points and goals, regarding self-reliance, co-operation, and creativity.	To acquire Self-reliance, Co-operation and Creative Skills.
		15th	Retrospective meeting and summary of activities: The group will discuss the results from the briefing session and review the team action plan. The students will evaluate individually and mutually their achieved points and goals, regarding self-reliance, co-operation, and creativity.	To acquire Self-reliance, Co-operation and Creative Skills.
		16th	No end-term Exam	

#### Evaluation Method and Weight (%)

	Individual Self-reliance (process)	Individual Co-operation (process)	Individual Creativity (process)	Team operation Co- (process)	Team Creativity (process)	Other	Total
Subtotal	24	24	12	20	20	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	24	24	12	20	20	0	100

Akashi College		Year	2023		Course Title	Electric Circuits II A
Course Information						
Course Code	5226			Course Category	Specialized / Compulsory	
Class Format	Lecture			Credits	Academic Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	First Semester			Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor	KAJIMURA Yoshihiro					
Course Objectives						
Evaluation point 1: Understand and can explain the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the calculation of an electrical circuit. Evaluation point 2: Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the calculation of a sine wave AC circuit. Evaluation point 3: Can explain the principle and method of measuring effective power, reactive power, and power factor, and calculate them. Evaluation point 4: Can explain how mutual inductance circuits work, and calculate circuit voltages, currents, etc. Evaluation point 5: Can explain and calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Understand the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the applied calculation of an electrical circuit.		Understand the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the calculation of an electrical circuit.		Do not understand the relationship between voltage and current in resistance, coils, and capacitor elements, and cannot use it in the calculation of an electrical circuit.	
Achievement 2	Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the applied calculation of a sine wave AC circuit.		Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the calculation of a sine wave AC circuit.		Do not understand and cannot explain the instantaneous values, phaser, and complex number expressions, and cannot use them in the calculation of a sine wave AC circuit.	
Achievement 3	Can explain the principle and method of measuring effective power, reactive power, and power factor, and solve problems.		Can explain the principle and method of measuring effective power, reactive power, and power factor.		Cannot explain the principle and method of measuring effective power, reactive power, and power factor.	
	Can perform applied calculations of voltages, currents, etc. in mutual inductance circuits, etc.		Can calculate voltages, currents, etc. in mutual inductance circuits, etc.		Cannot calculate voltages, currents, etc. in mutual inductance circuits, etc.	
	Can perform applied calculations of voltages and currents (phase voltage, line voltage, line current) in three-phase AC.		Can calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.		Cannot calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.	
Assigned Department Objectives						
Teaching Method						
Outline	The goals of this course are to be able to explain the meaning and application of physical quantities such as voltage, current, and impedance in the AC circuit theory, which is the basis of electrical and electronic engineering, and be able to calculate them. The class also involves practice problem exercises, etc. to help students learn them.					
Style	Explanations will be given in line with the textbook. The class will be carried out using slides and worksheets. There will regularly be report assignments of problem exercises.					
Notice	This course's content will amount to 180 hours of study in total. These hours include learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. The overall evaluation will be based 80% on periodic exams, and 20% on report assignments including worksheets done during class. The reports will be mostly made up of the questions at the end of each chapter. The minimum score for a pass will be 60%. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	Electrical mathematics exercise I	Can calculate derivative and complex numbers.		
		2nd	Electrical mathematics exercise II	Can calculate integrals.		
		3rd	Sine wave AC, mean values	Understand sine wave AC and calculate mean values.		
		4th	RMS values	Can calculate RMS values.		
		5th	Resistive circuits	Can find the current in a resistive circuit.		
		6th	Inductance circuit	Can find the current in a inductance circuit.		
		7th	Capacitor circuits	Can find the current in a capacitor circuit.		

	2nd Quarter	8th	Midterm exam	
		9th	R-L circuits	Can find the current in a R-L circuit.
		10th	R-C circuits	Can find the current in a R-C circuit.
		11th	The basics of R-L-C circuit vector notation	Can find the current in a R-L-C circuit.
		12th	The basis of the vector notation I	Understand the meaning of the vector notation and express AC voltage with symbols.
		13th	Basics of the vector notation II	Can calculate an AC circuit using the vector notation.
		14th	Impedance and admittance I	Can calculate impedance and admittance.
		15th	Impedance and admittance II	Can calculate impedance and admittance of a complex circuit.
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Report	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



Akashi College		Year	2023		Course Title	Electric Circuits II B
Course Information						
Course Code	5227		Course Category	Specialized / Compulsory		
Class Format	Lecture		Credits	Academic Credit: 2		
Department	Electrical and Computer Engineering		Student Grade	2nd		
Term	Second Semester		Classes per Week	2		
Textbook and/or Teaching Materials						
Instructor	KAJIMURA Yoshihiro					
Course Objectives						
Evaluation point 1: Understand and can explain the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the calculation of an electrical circuit. Evaluation point 2: Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the calculation of a sine wave AC circuit. Evaluation point 3: Can explain the principle and method of measuring effective power, reactive power, and power factor, and calculate them. Evaluation point 4: Can explain how mutual inductance circuits work, and calculate circuit voltages, currents, etc. Evaluation point 5: Can explain and calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.						
Rubric						
		Ideal Level	Standard Level	Unacceptable Level		
Achievement 1		Understand the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the applied calculation of an electrical circuit.	Understand the relationship between voltage and current in resistance, coils, and capacitor elements, and can use it in the calculation of an electrical circuit.	Do not understand the relationship between voltage and current in resistance, coils, and capacitor elements, and cannot use it in the calculation of an electrical circuit.		
Achievement 2		Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the applied calculation of a sine wave AC circuit.	Understand and can explain the instantaneous values, phaser, and complex number expressions, and can use them in the calculation of a sine wave AC circuit.	Do not understand and cannot explain the instantaneous values, phaser, and complex number expressions, and cannot use them in the calculation of a sine wave AC circuit.		
Achievement 3		Can explain the principle and method of measuring effective power, reactive power, and power factor, and solve problems.	Can explain the principle and method of measuring effective power, reactive power, and power factor.	Cannot explain the principle and method of measuring effective power, reactive power, and power factor.		
		Can perform applied calculations of voltages, currents, etc. in mutual inductance circuits, etc.	Can calculate voltages, currents, etc. in mutual inductance circuits, etc.	Cannot calculate voltages, currents, etc. in mutual inductance circuits, etc.		
		Can perform applied calculations of voltages and currents (phase voltage, line voltage, line current) in three-phase AC.	Can calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.	Cannot calculate voltages and currents (phase voltage, line voltage, line current) in three-phase AC.		
Assigned Department Objectives						
Teaching Method						
Outline	The goals of this course are to be able to explain the meaning and application of physical quantities such as voltage, current, and impedance in the AC circuit theory, which is the basis of electrical and electronic engineering, and be able to calculate them. The class also involves practice problem exercises, etc. to help students learn them.					
Style	Explanations will be given in line with the textbook. The class will be carried out using slides and worksheets. There will regularly be report assignments of problem exercises.					
Notice	This course's content will amount to 180 hours of study in total. These hours include learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. The overall evaluation will be based 80% on periodic exams, and 20% on report assignments including worksheets done during class. The reports will be mostly made up of the questions at the end of each chapter. The minimum score for a pass will be 60%. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	Complex power	Can calculate complex power.		
		2nd	Vector diagrams	Can draw a vector diagram.		
		3rd	Bridge circuits	Understand bridge circuits and can find equilibrium conditions.		
		4th	Mutual inductance circuits	Can write the meaning of mutual inductance circuits, and draw an equivalent circuit.		
		5th	Equivalent circuits of mutual inductance circuits I	Can calculate the current in an equivalent circuit of a mutual inductance circuit.		

		6th	Equivalent circuits of mutual inductance circuits II	Can calculate the current in an equivalent circuit of a mutual inductance circuit.
		7th	Occurrence of polyphase AC and Star and Delta connections	Can explain the occurrence of polyphase AC, and Star and Delta connections.
		8th	Midterm exam	
	4th Quarter	9th	Symbol notion and phase rotation of polyphase AC	Can calculate the voltage and current in a polyphase AC.
		10th	Phase voltage and line voltage of a Y connection	Can calculate the phase voltage and the line voltage of a Y connection.
		11th	Phase current and line current of a $\Delta$ connection	Can calculate the phase current and line current of a $\Delta$ connection.
		12th	$\Delta$ and Y connections and $\Delta$ -Y conversions	Can calculate $\Delta$ and Y connections and $\Delta$ -Y conversions.
		13th	Polyphase AC electrical power	Can calculate polyphase AC electrical power.
		14th	Non-sine waves and the basis of the Fourier series	Can describe the meaning of non-sine waves and the Fourier series.
		15th	How to compute Fourier coefficients, and Fourier series expansion of an odd function wave	Can compute Fourier coefficients, and perform Fourier series expansion of an odd function wave.
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Report	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

Akashi College		Year	2023		Course Title	Computer Programming II A
Course Information						
Course Code	5228			Course Category	Specialized / Compulsory	
Class Format	Lecture			Credits	Academic Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	First Semester			Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor	TSUCHIDA Takayuki					
Course Objectives						
[1] Understand basic syntax including operators in C, data type, and function, and structures, pointers, and the relationship between pointers and arrays, and can write programs.						
[2] Understand the concept of a library and write programs that utilize libraries.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Understand the basic syntax of C language and can write advanced programs that utilize structures and pointers.		Understand the basic syntax of C language and can write basic programs that utilize structures and pointers.		Cannot understand the basic syntax of C language and cannot write basic programs that utilize structures and pointers.	
Achievement 2	Can explain the concept of a library and can write advanced programs that utilize many libraries.		Can explain the concept of a library and can write basic programs that utilize libraries.		Cannot explain the concept of a library and cannot write programs that utilize library.	
Assigned Department Objectives						
Teaching Method						
Outline	Following the Programming I, the course involves lectures and exercises of programming in C. In the last half of the course, students also learn about the existing libraries used in program development and how to use them. The lectures will be conducted by a teacher who engaged in the research and development of middleware (database) at Hitachi, Ltd. Research & Development Headquarters for five years.					
Style	In the first half of the course, students will understand the content of the textbook and practice applied questions individually to enhance their program development skills. In this period, it is recommended that students give a lot of thought on how to solve problems on paper and make a habit of managing their history in order to know when program planning and description changes occur. In the last half of the course, libraries, which are necessary for writing more practical programs, will be explained.					
Notice	Students must have completed Programming I. This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. All assignments are required to be submitted. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	Guidance, test	Understand the class objectives. Can review, understand, and explain the basic syntax.		
		2nd	Concept and basics of functions	Understand the concept and basics of functions and can write programs.		
		3rd	Function definition and calls	Understand function definitions and calls, and can write programs.		
		4th	Function designs	Understand various function designs and can write programs.		
		5th	Exercise (1)	Can independently create programs in exercise questions that use function .		
		6th	Basic type (1)	Understand the basic types and can write programs.		
		7th	Basic types (2)	Can independently create programs in exercise questions that use basic types .		
		8th	Midterm exercise	Understand the content of Weeks 1-7, and can write programs.		
	2nd Quarter	9th	Function-like macros	Understand function-like macros and can write programs.		
		10th	Enumerations	Understand enumerations and can write programs.		
		11th	Text I/O	Understand the text I/O and can write programs.		
		12th	Strings (1)	Understand the basics of strings and can write programs.		
		13th	Strings (2)	Understand the arrays and operations of strings and can write programs.		
		14th	Strings (3)	Understand the operations of strings and can write programs.		

		15th	Exercise (2)	Can independently create programs in exercise questions that use strings.			
		16th	Final exam	Understand the content of Weeks 8-15 and can write programs.			
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	50	0	0	0	50	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	50	0	0	0	50	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2023		Course Title	Computer Programming II B
Course Information						
Course Code	5229			Course Category	Specialized / Compulsory	
Class Format	Lecture			Credits	Academic Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	2nd	
Term	Second Semester			Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor	HIRANO Masatsugu					
Course Objectives						
[1] Understand basic syntax including operators in C, data type, and function, and structures, pointers, and the relationship between pointers and arrays, and can write programs. [2] Understand the concept of a library and write programs that utilize libraries.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Understand the basic syntax of C language and can write advanced programs that utilize structures and pointers.		Understand the basic syntax of C language and can write basic programs that utilize structures and pointers.		Cannot understand the basic syntax of C language and cannot write basic programs that utilize structures and pointers.	
Achievement 2	Can explain the concept of a library and can write advanced programs that utilize many libraries.		Can explain the concept of a library and can write basic programs that utilize libraries.		Cannot explain the concept of a library and cannot write programs that utilize library.	
Assigned Department Objectives						
Teaching Method						
Outline	Following the Programming I, the course involves lectures and exercises of programming in C. In the last half of the course, students also learn about the existing libraries used in program development and how to use them. The lectures will be conducted by a teacher who engaged in the research and development of middleware (database) at Hitachi, Ltd. Research & Development Headquarters for five years.					
Style	In the first half of the course, students will understand the content of the textbook and practice applied questions individually to enhance their program development skills. In this period, it is recommended that students give a lot of thought on how to solve problems on paper and make a habit of managing their history in order to know when program planning and description changes occur. In the last half of the course, libraries, which are necessary for writing more practical programs, will be explained.					
Notice	Students must have completed Programming I. This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. All assignments are required to be submitted. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester	3rd Quarter	1st	Pointers	Can explain the concept of pointers.		
		2nd	Pointers	Understand the role of pointers and can write simple programs.		
		3rd	Strings and pointers	Understand the relationship between strings and pointers.		
		4th	Strings and pointers	Can write programs for string operations using pointers.		
		5th	Structures	Can explain the concept of structures.		
		6th	Structures	Can write simple programs using structures.		
		7th	Structures	Can write practical programs using structures.		
		8th	Midterm exercise	Understand the content of Weeks 1-7, and can write programs.		
	4th Quarter	9th	File processing	Can explain how to process files in C.		
		10th	File processing	Can write programs for file I/O.		
		11th	Libraries	Can explain what libraries are.		
		12th	Libraries	Can write programs using libraries.		
		13th	Comprehensive exercise (1)	Can write programs that realize a given theme, determining whether or not to utilize libraries.		
		14th	Comprehensive exercise (2)	Can write programs that realize a given theme, determining whether or not to utilize libraries.		
		15th	Comprehensive exercise (3)	Can write programs that realize a given theme, determining whether or not to utilize libraries.		
		16th	Final exam	Understand the content of Weeks 8-15 and can write programs.		
Evaluation Method and Weight (%)						

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	50	0	0	0	50	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	50	0	0	0	50	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2023		Course Title	Electrical and Electronic Measurement A
Course Information						
Course Code		5230		Course Category	Specialized / Compulsory	
Class Format		Lecture		Credits	School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade	2nd	
Term		First Semester		Classes per Week	2	
Textbook and/or Teaching Materials		Shun Iwasaki: 「Denjiki Keisoku」 、 Korona-sha				
Instructor		HOSOKAWA Atsuishi				
Course Objectives						
1) Understand the concept of measurement. 2) Understand how to measure DC voltage, current, power, and resistance.						
Rubric						
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		Can explain different measurement methods by giving specific examples.		Understand different measurement methods.		Do not fully understand different measurement methods well.
Achievement 2		Can explain DC voltage, current, power, and resistance measurements by giving specific examples.		Understand how to measure DC voltage, current, power, and resistance.		Do not fully understand how to measure DC voltage, current, power, and resistance.
Assigned Department Objectives						
Teaching Method						
Outline		The aim of this course is to understand the basic concepts of measuring operations and how to measure basic electrical phenomena.				
Style		Classes are mainly conducted through note-taking. There will be handouts and references to the contents of the textbook as needed for explanations. In the lesson before each exam, there will be an exercise (quiz) on the content that will be on the exam.				
Notice		Students must have a good understanding of Electrical Circuits I and II from their first and second year. In addition, they should apply the contents of the class to Experiments of Electrical and Computer Engineering I in the second semester of the second year. Students who miss 1/4 or more of classes will not be eligible for a grade evaluation.				
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester	1st Quarter	1st	Measurement and instrumentation, direct measurement and indirect measurement		Understand the concept of measurement and the types of measurement methods (direct measurement and indirect measurement).	
		2nd	Deflection method and null method		Understand the types of instrumentation methods (deflection method and null method).	
		3rd	Types of errors, significant figures		Understand accuracy and error, and understand the concept of significant figures.	
		4th	Propagation of error, units and standards		Can calculate measurement values taking into consideration the propagation of error, and understand the SI base units and derived units, and the relationship between standards (instruments) and traceability.	
		5th	Analog indicating instruments		Understand the main configurations of analog indicating instruments.	
		6th	Moving-coil instrument, electrodynamic instrument		Understand the operating principles of indicating instruments (moving-coil instrument and electrodynamic instrument).	
		7th	Exercise on the content from weeks 1 to 6		Understand the content from weeks 1 to 6 of the first semester.	
		8th	Midterm exam		Understand the content from weeks 1 to 6 of the first semester.	
	2nd Quarter	9th	Shunt, multiplier		Understand how to increase the rated values of currents and voltages using a shunt and multiplier. Understand the measurement of current and voltage using an indicating instrument.	
		10th	Measurement of DC current and voltage, potentiometer		Understand the measurement of current and voltage using an indicating instrument. Also, understand the voltage measurement using a potentiometer.	
		11th	Indirect measurement of DC power, DC power meter		Understand the indirect measurement of DC power using the voltmeter-ammeter method and the operating principle of a power meter.	
		12th	Indirect measurement of resistance, Wheatstone Bridge		Understand the indirect measurement of resistance using the voltmeter-ammeter method and the measurement of resistance using Wheatstone Bridge.	

		13th	Ohmmeter	Understand the operating principles of ohmmeter.
		14th	Low resistance measurement, high resistance measurement of high resistance	Understand the issues involved in measuring low and high resistance and how to resolve them.
		15th	Exercise on the content from weeks 9 to 14	Understand the content from weeks 9 to 14 of the first semester.
		16th	Final exam	Understand the content from weeks 9 to 14 of the first semester.

#### Evaluation Method and Weight (%)

	Examination	Exercise	Task	Total
Subtotal	70	30	0	100
Basic Proficiency	0	0	0	0
Specialized Proficiency	70	30	0	100
Cross Area Proficiency	0	0	0	0



Akashi College		Year	2023		Course Title	Electrical and Electronic Measurement B
Course Information						
Course Code		5231		Course Category	Specialized / Compulsory	
Class Format		Lecture		Credits	School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade	2nd	
Term		Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor		HOSOKAWA Atsuishi				
Course Objectives						
1) Understand how to measure AC voltage, current, power, and impedance. 2) Understand how to observe a waveform using an oscilloscope. 3) Understand digital instruments, sensors, and data processing.						
Rubric						
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		Can explain AC voltage, current, power, and impedance measurements by giving specific examples.		Understand how to measure AC voltage, current, power, and impedance.		Do not fully understand how to measure AC voltage, current, power, and impedance.
Achievement 2		Can explain waveform observation using an oscilloscope by giving specific examples.		Understand how to observe a waveform using an oscilloscope.		Do not fully understand how to observe a waveform using an oscilloscope well.
Achievement 3		Can explain digital instruments, sensors, and data processing by giving specific examples.		Understand digital instrumentation, sensors, and data processing		Do not fully understand digital instruments, sensors, and data processing.
Assigned Department Objectives						
Teaching Method						
Outline		The aim of this course is to understand the basic concepts of measuring operations and how to measure basic electrical phenomena.				
Style		Classes are mainly conducted through note-taking. There will be handouts and references to the contents of the textbook as needed for explanations. In the lesson before each exam, there will be an exercise (quiz) on the content that will be on the exam.				
Notice		Students must have a good understanding of Electrical Circuits I and II from their first and second year. In addition, they should apply the contents of the class to Experiments of Electrical and Computer Engineering I in the second semester of the second year. Students who miss 1/4 or more of classes will not be eligible for a grade evaluation.				
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester	3rd Quarter	1st	AC voltage, current, power, measurement of AC voltage and current	Understand the measurand in AC, and the difference between AC and DC measurements.		
		2nd	Rectifier instrument, peak responding electronic voltmeter	Understand the operating principles of indicating instruments (rectifier instrument and peak responding electronic voltmeter).		
		3rd	Thermocouple instruments, moving-iron instruments	Understand the operating principles of the indicating instruments (thermocouple instrument and moving iron instrument).		
		4th	Electrodynamometer instruments, AC electrodynamometers, and induction type energy meters	Understand the principles of measuring energy. Can explain the principles and methods of measuring effective power, reactive power, and power factor.		
		5th	Resistors, coils, and capacitors, measurement of impedance	Understand an equivalent circuit of resistors, coils, and capacitors, and how to measure impedance.		
		6th	AC bridges	Understand the measurement of impedance using an AC bridge.		
		7th	Exercise on the content from weeks 16 to 21	Understand the content from weeks 1 to 6 of the second semester.		
		8th	Midterm exam	Understand the content from weeks 1 to 6 of the second semester.		
	4th Quarter	9th	The operating principle of the oscilloscope	Understand the operating principles of the oscilloscope.		
		10th	Waveform observations using an oscilloscope	Understand waveform observation using an oscilloscope.		
		11th	A/D conversion	Understand the principles of A/D conversion.		
		12th	Digital instruments	Understand the operating principles of digital instruments.		
		13th	Sensors	Understand the concept of sensors and the operating principles of various sensors.		

		14th	Data processing	Understand how to process data.
		15th	Exercise on the content from weeks 24 to 30	Understand the content from weeks 9 to 14 of the second semester.
		16th	Final exam	Understand the content from weeks 9 to 14 of the second semester.

Evaluation Method and Weight (%)				
	Examination	Exercise	Task	Total
Subtotal	70	15	15	100
Basic Proficiency	0	0	0	0
Specialized Proficiency	70	15	15	100
Cross Area Proficiency	0	0	0	0

Akashi College		Year	2023		Course Title	Microcomputer	
Course Information							
Course Code	5232			Course Category	Specialized / Compulsory		
Class Format	Lecture			Credits	Academic Credit: 2		
Department	Electrical and Computer Engineering			Student Grade	2nd		
Term	First Semester			Classes per Week	2		
Textbook and/or Teaching Materials	Keitaro HORI, Illustrated PIC Microcomputer Practice 2nd Edition, Morikita Publishing Co., Ltd.						
Instructor							
Course Objectives							
(1) Understand the configuration and operating principles of computers. (2) Understand the basics of the assembler language and can perform basic programming. (3) Can create a control program using assembler language.							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1	Fully understand the configuration and operating principles of computers.		Understand the configuration and operating principles of computers.		Do not understand the configuration and operating principles of computers.		
Achievement 2	Fully understand the basics of assembler language and can fully perform basic programming.		Understand the basics of assembler language and can perform basic programming.		Do not understand the basics of assembler language and cannot perform basic programming.		
Achievement 3	Can create an efficient control program using assembler language.		Can create a control program using assembler language.		Cannot create a control program using assembler language.		
Assigned Department Objectives							
Teaching Method							
Outline	Students will understand the basics of computer architecture and learn assembler programming techniques using microcomputers.						
Style	The class will be taught by explaining basic matters in accordance with the textbook. Programming using assembler language will involve exercises using actual devices in addition to lectures.						
Notice	This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. Students who miss 1/3 or more of classes will not be eligible for a passing grade.						
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	Microcomputer basics		Can explain microcomputer basics.		
		2nd	How to do radix conversions		Can explain how to do a radix conversion.		
		3rd	The basics of logical operations		Can explain the basics of logical operations.		
		4th	Hardware configuration of a PIC microcomputer		Can explain the hardware configuration of a PIC microcomputer.		
		5th	Assembler language basics, flowchart basics		Can explain the assembler language basics and flowchart basics.		
		6th	Assembler programming exercise 1 (how to create a program)		Can explain how to create a program using the assembler language.		
		7th	How to create a timer program		Can explain how to create a timer program.		
		8th	Midterm exam				
	2nd Quarter	9th	Behaviors of subroutines		Can explain the behaviors of subroutines.		
		10th	Assembler programming exercise 2 (I/O control)		Can create I/O control programs.		
		11th	Assembler programming exercise 3 (timer program basics)		Can create a timer program.		
		12th	Pulse motor basics		Can explain the pulse motor basics.		
		13th	Assembler programming exercise 4 (application of timer programs)		Can create an applied timer program.		
		14th	Assembler programming exercise 5 (pulse motors)		Can create a pulse motor.		
		15th	Assembler programming exercise 6 (advanced program)		Can create an advanced program.		
		16th	No final exam				
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Exercises	Total
Subtotal	50	0	0	0	0	50	100

Basic Proficiency	10	0	0	0	0	10	20
Specialized Proficiency	40	0	0	0	0	40	80
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2023	Course Title	Experiments of Electrical and Computer Engineering I
Course Information					
Course Code	5233		Course Category	Specialized / Compulsory	
Class Format	Experiment		Credits	School Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	2nd	
Term	Second Semester		Classes per Week	4	
Textbook and/or Teaching Materials	Distribute materials in class				
Instructor	KAJIMURA Yoshihiro,SUYAMA Taikei,HOSOKAWA Atsuishi,ENOMOTO Ryuji,				
Course Objectives					
Evaluation point 1: Can explain how to handle the necessary instruments for learning electrical information engineering.					
Evaluation point 2: Can write an experiment report.					
Evaluation point 3: Can use the necessary instruments for an experiment safely, and conduct an experiment in cooperation with team members.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can explain how to handle the necessary instruments for learning electrical information engineering, and examine an experiment.		Can explain how to handle the necessary instruments for learning electrical information engineering.		Cannot explain how to handle the necessary instruments for learning electrical information engineering.
Achievement 2	Can write an experiment report with sufficient information.		Can write an experiment report.		Cannot write an experiment report.
Achievement 3	Can use the necessary instruments for an experiment safely, and actively conduct an experiment in cooperation with team members.		Can use the necessary instruments for an experiment safely, and conduct an experiment in cooperation with the team members.		Cannot use the necessary instruments for an experiment safely, and conduct an experiment in cooperation with team members.
Assigned Department Objectives					
Teaching Method					
Outline	The aim of this course is to learn how to handle the necessary instruments for learning electrical information engineering, and how to write reports. Several instructors will teach different experiment themes, and students will form groups of three to five people to conduct experiments on each theme. Suyama will teach matters related to measuring equipment, Enomoto matters related to electrical circuits, Kajimura sequencing, and Hosokawa DC bridges.				
Style	Students will form groups of three to five people to conduct experiments on each theme. The themes are provided in Contents and Method of Course. After completing experiments on each theme, students must write up a report on the experiment and submit it the instructor teaching that theme. They will have to revise it until they pass. This will help students learn the basics of writing up a report.				
Notice	Students will not be graded unless they have participated in all experiments. The overall evaluations will be based on the report submission and content (80%), and attitude toward the experiments (20%). The minimum score for a pass will be 60%. As this is an experiment course, submitting all reports is a prerequisite for evaluations. In addition, if all reports have not been received by the due date, students will not receive a passing grade. Students must clean the lab and put away the equipment. Precautions regarding the experiments will be given during the first week. Students will not be graded unless they have participated in all experiments.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	Experiment guidance	Understand the outline of experiments and how to write up a report.	
		2nd	Impedance measurement	Impedance measurement experiment: create a circuit, conduct a lab, and write up a report.	
		3rd	Potentiometer	Potentiometer experiment: create a circuit, conduct a lab, and write up a report.	
		4th	Report organization	Can write up a report on engineering experiments.	
		5th	Fall-of-potential method	An experiment of the fall-of-potential method: create a circuit, conduct a lab, and write up a report.	
		6th	Report organization	Can write up a report on engineering experiments.	
		7th	Operational Amplifier	Operational Amplifier experiment: create a OP Amp circuit, confirm the Slew Rate, and write up a report.	
		8th	DC bridges	A DC bridge experiment: create a circuit, conduct a lab, and write up a report.	
	4th Quarter	9th	Report organization	Can write up a report on engineering experiments.	

		10th	Relay sequence control 1	Conduct a sequence control experiment using switches, motors, and relays, and write up a report.
		11th	Relay sequence control 2	Continuing from the previous week, conduct an experiment of sequence control using switches, motors, and relays, and write up a report.
		12th	Digital oscilloscope and digital multimeter	A digital oscilloscope and digital multimeter experiment: create a circuit, conduct a lab, and write up a report.
		13th	Report organization	Can write up a report on engineering experiments.
		14th	Assembling a computer	A computer assembling experiment: create a circuit, conduct a lab, and write up a report.
		15th	Summary of engineering experiments	Can write up a report on engineering experiments.
		16th	No final exam	

#### Evaluation Method and Weight (%)

	Report	Initiatives	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	80	20	0	0	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	80	20	0	0	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2024		Course Title	Japanese III -1		
Course Information								
Course Code		6301		Course Category		General / Compulsory		
Class Format		Lecture		Credits		School Credit: 1		
Department		Electrical and Computer Engineering		Student Grade		3rd		
Term		First Semester		Classes per Week		2		
Textbook and/or Teaching Materials		『精選論理国語』『精選文学国語』『精選古典探究 古文編』（明治書院）、『新訂総合国語便覧』（第一学習社）						
Instructor		TANGE Atsuko						
Course Objectives								
1) 論理的な文章（論説や評論）の構成や展開を的確にとらえ、要約することができる。 2) 文学的な文章（小説や日記）に描かれた人物やものの見方を表現に即して読み取り、自分の意見を述べることができる。 3) 社会生活の中で用いられる漢字や語句について正確に理解し、活用することができる。								
Rubric								
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安		
評価項目1		論理的な文章（論説や評論）の構成や展開を的確にとらえ、要約した上で、その論拠の妥当性について議論することができる。		論理的な文章（論説や評論）の構成や展開をとらえ、おおむね要約することができる。		論理的な文章（論説や評論）の構成や展開を的確にとらえることができない。		
評価項目2		文学的な文章（小説や日記）に描かれた人物やものの見方を表現に即して読み取り、その特質を理解することができる。		文学的な文章（小説や日記）に描かれた人物やものの見方を表現に即して適切に読み取ることができる。		文学的な文章（小説や日記）に描かれた人物やものの見方を十分に読み取ることができない。		
評価項目3		社会生活の中で用いられる漢字や語句について正確に理解し、活用することができる。		社会生活の中で用いられる漢字や語句についておおむね正確に理解し、活用することができる。		辞書など補助的な機器がなければ、社会生活の中で用いられる漢字や語句について正確に理解し、活用することができない。		
Assigned Department Objectives								
Teaching Method								
Outline		近現代の評論文や小説、古典文学など、様々な文章を主体的に読むことを通して、日本語及び日本文化の基本的な知識を習得する。豊かな感性と論理的な思考力を身につけ、的確な読解力と表現力を獲得する。						
Style		講義形式を基本とする。随時、小テストや課題を課す。						
Notice		自主的に予習を行い、授業には集中して意欲的に取り組むこと。 評価の対象としない欠席条件(割合) 1/3以上の欠課						
Characteristics of Class / Division in Learning								
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced		
Course Plan								
			Theme		Goals			
1st Semester	1st Quarter	1st	ガイダンス、「変われ！東京」の読解		授業の進行・準備物について理解することができる			
		2nd	「変われ！東京」の読解		テキストに用いられている語句・表現を適切に理解することができる			
		3rd	「変われ！東京」の読解		テキストの構成をとらえ、内容を適切に理解することができる			
		4th	「変われ！東京」の読解		内容を理解した上で、自分の意見を述べることができる			
		5th	「花山天皇の退位」（大鏡）の読解		歴史的背景を理解し、テキストを読解することができる			
		6th	「花山天皇の退位」（大鏡）の読解		助動詞や尊敬表現など文法事項に注意して、テキストを読解することができる			
		7th	「花山天皇の退位」（大鏡）の読解		作品の主題と特徴を説明することができる			
		8th	「町の小路の女」（蜻蛉日記）の読解		歴史的背景を理解し、テキストを読解することができる			
	2nd Quarter	9th	「町の小路の女」（蜻蛉日記）の読解		助動詞や尊敬表現など文法事項に注意して、テキストを読解することができる			
		10th	「町の小路の女」（蜻蛉日記）の読解		作品の主題と特徴を説明することができる			
		11th	「檸檬」の読解		時代背景や登場人物を正確にとらえ、小説の世界を理解することができる			
		12th	「檸檬」の読解		表現・構成に注意して小説の展開を理解することができる			
		13th	「檸檬」の読解		表現・構成に注意して小説の展開を理解することができる			
		14th	「檸檬」の読解		表現・構成に注意して小説の展開を理解することができる			
		15th	「檸檬」の読解		小説の展開を整理し、全体的な主題を理解することができる			
		16th	期末試験					
Evaluation Method and Weight (%)								
	試験		小テスト		態度		その他	Total

Subtotal	80	10	10	0	100
基礎的能力	80	10	10	0	100
專門的能力	0	0	0	0	0
分野横断的能力	0	0	0	0	0



Akashi College		Year	2024		Course Title	Japanese III -2	
Course Information							
Course Code		6302		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		野田尚史・森口稔『日本語を話すトレーニング』（ひつじ書房）					
Instructor							
Course Objectives							
1) Can write up reports and theses based on organized information, and can devise logical structure and development so that their arguments are conveyed effectively. 2) Can present the content of the reports and theses they wrote up, as well as their thoughts and ideas, orally and accurately. 3) Can discuss on the issue based on rationale.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can create an easy-to-understand, logical, and empirical resume with excellent layout design based on clear conclusions, opinions, and reports.		Can create an easy-to-understand, logical, and empirical resume based on clear conclusions, opinions, and reports.		There are elements that indicate conclusion, opinions, and reports, but the structure and layout design are inadequate.	
Achievement 2		Can give a presentation with excellent gesture, speed, and comprehensibility, and can response to questions accurately.		Can give a rehearsed presentation, but cannot immediately answer questions appropriately.		The presentation is almost like a script reading.	
Achievement 3		Can make a meaningful statement in line with the theme in a concise, logical, and empirical way.		Can make a meaningful statement that's relevant to the theme, but is redundant.		Can make a statement that's relevant to the theme, but is unorganized.	
Assigned Department Objectives							
Teaching Method							
Outline		Students will take up various issues in various situations where Japanese is used, and deepen their understanding of the expressions of Japanese and the characteristics of Japan people's ideas. Group discussions will be held for each theme, and presentation skills will be acquired.					
Style		The course is based on a lecture format, but focuses on group discussions, presentations, and question-and-answer sessions by students.					
Notice		This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. Students should be active in presentations and Q&A sessions, including pre-study, to ensure they learn the knowledge and skills necessary to express in Japanese language. There will be handouts as necessary, and quizzes. Students who miss 1/3 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Orientation Course outline Planning for the presentation		Understand how to create a resume, presentation notes, and the respective evaluation criteria.		
		2nd	Fundamentals of speech Fundamentals of presentation		Understand the skills required for speeches and presentations, can be put into practice.		
		3rd	Make an inquiry Training 1 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		
		4th	Make a request Training 3 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		
		5th	Invite / Decline / Apologize Training 5 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		
		6th	Speech Training 9 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		
		7th	Simple Japanese Training 12 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		
		8th	Speak in a meeting(1) Training 10 presentations and Q&A Insight and organization of the above issues		Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.		

	4th Quarter	9th	Speak in a meeting(2), Presentation(1) Training 12・13 presentations and Q&A Insight and organization of the above issues	Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.
		10th	Presentation(2) Training 13 presentations and Q&A Insight and organization of the above issues	Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.
		11th	Research Presentation(1) Training 14 presentations and Q&A Insight and organization of the above issues	Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.
		12th	Research Presentation(2), Interview(1) Training 15 presentations and Q&A Insight and organization of the above issues	Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.
		13th	Interview(2) Training 15 presentations and Q&A Insight and organization of the above issues	Understand the subject matter and be able to prepare and present a resume focusing on the necessary skills.
		14th	Fundamentals of academic writing	Understand how to develop a research plan and the basics of writing a thesis
		15th	How to write reports and papers	Understand how to structure sentences, make arguments, and show appropriate examples
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Presentation	Other	Total
Subtotal	50	50	0	100
Basic Proficiency	50	50	0	100
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	0	0	0

Akashi College		Year	2024		Course Title	Mathematics Ⅲ A-1	
Course Information							
Course Code		6305		Course Category		General / Compulsory	
Class Format		Lecture		Credits		Academic Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		高遠節夫他著：新微分積分Ⅱ 大日本図書		高遠節夫他著：新微分積分Ⅱ問題集 大日本図書			
Instructor		MATSUMIYA Atusi					
Course Objectives							
<p>これまでに学習した数学を基礎として、工学技術者として大切な数学的思考と問題解決能力を養う。さらに専門的な応用数学が理解できる能力を習得することを目標とする。</p> <p>(1)まず数列の収束・発散,級数の収束・発散,マクローリン級数を理解する。そして2変数関数を空間における曲面として理解し、偏微分や重積分の計算ができるようになる。</p> <p>(2)理論の忠実な理解と自らも理論的に文章表現できる能力を獲得する。</p> <p>(3)抽象的枠組を具体的問題に適用する能力を獲得する。</p>							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1		数列の収束・発散,級数の収束・発散,マクローリン級数を理解が十分にできる。そして2変数関数を空間における曲面として十分に理解し、偏微分や重積分の計算が十分にできる。		数列の収束・発散,級数の収束・発散,マクローリン級数を理解できる。そして2変数関数を空間における曲面として理解でき、偏微分や重積分の計算ができる。		数列の収束・発散,級数の収束・発散,マクローリン級数を理解できない。そして2変数関数を空間における曲面として理解できず、偏微分や重積分の計算ができない。	
評価項目2		理論の忠実な理解と自らも理論的に文章表現できる能力を十分に獲得している。		理論の忠実な理解と自らも理論的に文章表現できる能力を獲得している。		理論の忠実な理解と自らも理論的に文章表現できる能力を獲得していない。	
評価項目3		抽象的枠組を具体的問題に適用する能力を十分に獲得している。		抽象的枠組を具体的問題に適用する能力を獲得している。		抽象的枠組を具体的問題に適用する能力を獲得していない。	
Assigned Department Objectives							
Teaching Method							
Outline		微分積分の基本概念及びそこから発展したいろいろな計算手法を習得し、専門分野で応用する際のさまざまな事象の解析に必要な素養を獲得する。主に数列の収束と発散,級数の収束と発散,マクローリン展開,2変数関数の偏微分とその応用、2重積分とその応用について講義する。					
Style		予習を前提として教科書に沿って講義する。また問題演習を行う。講義では集中して理解に努め、予習でわからなかったことや講義で理解できなかったことは放置せずに質問するようにして下さい。その日のうちに必ず復習し教科書と問題集にある問題を解くように心がけること。ICTを活用した授業をすることがある。確認のため予告なく小試験を行うことがあります。そのためにも日頃からよく勉強しておくようにしてください。					
Notice		講義時にしっかり理解に努めること。疑問点は必ず質問して、その都度解消するように努めること。またその日のうちに必ず復習し教科書や問題集の問題を解いて問題演習を十分すること。予告なく小試験を行うので日頃からよく勉強しておくこと。試験を50%、課題等の提出物を20%、発表および平素の授業への取り組み状況を30%として総合的に評価し60点以上を合格とする。ただし、この割合で評価点をつけるのは学年末であり、後期中間までの累積評価の割合は暫定的な割合で評価し必ずしも上記の割合にならないことがある。課題等や発表などがよく出来ていれば割合以上の評価を与えることもある。いずれかの週でCBTを行う。合格の対象としない欠席条件(割合) 1/3以上の欠課。本科目は、授業で保証する学習時間と、予習・復習及び課題レポート作成に 必要な標準的な自己学習時間の総計が、180時間に相当する学習内容である。					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	微分方程式		2階微分方程式について理解し、簡単な2階微分方程式の問題を解くことができる。		
		2nd	微分方程式		定数係数非斉次線形微分方程式などいろいろな簡単な2階微分方程式を解くことができる。		
		3rd	関数の展開		多項式による近似を求めることができる。簡単な1変数関数の局所的な1次近似式・2次近似式を求めることができる。		
		4th	関数の展開		多項式による近似を求めることができる。		
		5th	関数の展開		不定形を含むいろいろな数列の極限を求めることができる。		
		6th	関数の展開		無限等比級数等の簡単な級数の収束・発散を調べ、その和を求めることができる。		
		7th	関数の展開		無限等比級数等の簡単な級数の収束・発散を調べ、その和を求めることができる。		
		8th	関数の展開		1変数関数のマクローリン展開を理解し、基本的な関数のマクローリン展開を求めることができる。		
	2nd Quarter	9th	関数の展開		1変数関数のテイラー展開を理解し、基本的な関数のテイラー展開を求めることができる。		
		10th	関数の展開		オイラーの公式を用いて、複素数変数の指数関数について簡単な計算ができる。		
		11th	偏微分法		2変数関数について理解し簡単な曲面を考えることができる。2変数関数の定義域を理解し、不等式やグラフで表すことができる。		

		12th	偏微分法	偏導関数を求めることができる。
		13th	偏微分法	全微分の概念を理解し全微分に関する計算ができる。
		14th	偏微分法	接平面の方程式を求めることができる。
		15th	偏微分法	合成関数の偏微分法を理解し、偏導関数を求めることができる。
		16th	期末試験	

Evaluation Method and Weight (%)				
	試験	課題	平常点（授業への取り組み状況）	Total
Subtotal	50	20	30	100
基礎的能力	50	15	30	95
専門的能力	0	0	0	0
分野横断的能力	0	5	0	5

Akashi College		Year	2024		Course Title	Mathematics Ⅲ A-2	
Course Information							
Course Code	6306			Course Category	General / Compulsory		
Class Format	Lecture			Credits	Academic Credit: 2		
Department	Electrical and Computer Engineering			Student Grade	3rd		
Term	Second Semester			Classes per Week	2		
Textbook and/or Teaching Materials	高遠節夫他著：新微分積分Ⅱ 大日本図書 高遠節夫他著：新微分積分Ⅱ問題集 大日本図書						
Instructor	MATSUMIYA Atusi						
Course Objectives							
<p>これまでに学習した数学を基礎として、工学技術者として大切な数学的思考と問題解決能力を養う。さらに専門的な応用数学が理解できる能力を習得することを目標とする。</p> <p>(1)まず数列の収束・発散,級数の収束・発散,マクローリン級数を理解する。そして2変数関数を空間における曲面として理解し、偏微分や重積分の計算ができるようになる。</p> <p>(2) 理論の忠実な理解と自らも理論的に文章表現できる能力を獲得する。</p> <p>(3) 抽象的枠組を具体的問題に適用する能力を獲得する。</p>							
Rubric							
	理想的な到達レベルの目安			標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	数列の収束・発散,級数の収束・発散,マクローリン級数を理解が十分にできる。そして2変数関数を空間における曲面として十分に理解し、偏微分や重積分の計算が十分にできる。			数列の収束・発散,級数の収束・発散,マクローリン級数を理解できる。そして2変数関数を空間における曲面として理解でき、偏微分や重積分の計算ができる。		数列の収束・発散,級数の収束・発散,マクローリン級数を理解できない。そして2変数関数を空間における曲面として理解できず、偏微分や重積分の計算ができない。	
評価項目2	理論の忠実な理解と自らも理論的に文章表現できる能力を十分に獲得している。			理論の忠実な理解と自らも理論的に文章表現できる能力を獲得している。		理論の忠実な理解と自らも理論的に文章表現できる能力を獲得していない。	
評価項目3	抽象的枠組を具体的問題に適用する能力を十分に獲得している。			抽象的枠組を具体的問題に適用する能力を獲得している。		抽象的枠組を具体的問題に適用する能力を獲得していない。	
Assigned Department Objectives							
Teaching Method							
Outline	微分積分の基本概念及びそこから発展したいろいろな計算手法を習得し、専門分野で応用する際のさまざまな事象の解析に必要な素養を獲得する。主に数列の収束と発散,級数の収束と発散,マクローリン展開,2変数関数の偏微分とその応用、2重積分とその応用について講義する。						
Style	予習を前提として教科書に沿って講義する。また問題演習を行う。講義では集中して理解に努め、予習でわからなかったことや講義で理解できなかったことは放置せずに質問するようにして下さい。その日のうちに必ず復習し教科書と問題集にある問題を解くように心がけること。ICTを活用した授業をすることがある。確認のため予告なく小試験を行うことがあります。そのためにも日頃からよく勉強しておくようにしてください。						
Notice	講義時にしっかり理解に努めること。疑問点は必ず質問して、その都度解消するように努めること。またその日のうちに必ず復習し教科書や問題集の問題を解いて問題演習を十分すること。予告なく小試験を行うので日頃からよく勉強しておくこと。試験を50%、課題等の提出物を20%、発表および平素の授業への取り組み状況を30%として総合的に評価し60点以上を合格とする。ただし、この割合で評価点をつけるのは学年末であり、後期中間までの累積評価の割合は暫定的な割合で評価し必ずしも上記の割合にならないことがある。課題等や発表などがよく出来ていれば割合以上の評価を与えることもある。いずれかの週でCBTを行う。合格の対象としない欠席条件(割合) 1/3以上の欠課。本科目は、授業で保証する学習時間と、予習・復習及び課題レポート作成に 必要な標準的な自己学習時間の総計が、180時間に相当する学習内容である。						
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
2nd Semester	3rd Quarter	1st	偏微分法の応用	簡単な関数について、2次までの偏導関数を求めることができる。簡単な関数について、高次偏導関数を求めることができる。			
		2nd	偏微分法の応用	偏導関数を用いて、基本的な2変数関数の極値を求めることができる。			
		3rd	偏微分法の応用	陰関数の微分法を応用した計算が出来る。			
		4th	偏微分法の応用	条件付き極値の問題を解くことが出来る。			
		5th	偏微分法の応用	包絡線の方程式を求めることが出来る。偏微分に関する応用問題が解ける。			
		6th	2重積分	2重積分の定義を理解できる。			
		7th	2重積分	2重積分の性質を理解できる。			
		8th	2重積分	2重積分の定義を理解し、簡単な2重積分を累次積分に直して求めることができる。			
	4th Quarter	9th	2重積分	2重積分の順序の入れ替えができる。様々な2重積分の計算ができる。			
		10th	2重積分	2重積分を用いて、簡単な立体の体積を求めることができる。			
		11th	変数の変換と重積分	極座標に変換することによって2重積分を求めることができる。			
		12th	変数の変換と重積分	重積分の変数変換が計算できる。			
		13th	変数の変換と重積分	広義積分を求めることが出来る。			

		14th	変数の変換と重積分	重積分を用いて曲面積を求めることが出来る。
		15th	変数の変換と重積分	
		16th	期末試験	
Evaluation Method and Weight (%)				
	試験	課題	平常点（授業への取り組み状況）	Total
Subtotal	50	20	30	100
基礎的能力	50	15	30	95
専門的能力	0	0	0	0
分野横断的能力	0	5	0	5

Akashi College		Year	2024		Course Title	Mathematics III B
Course Information						
Course Code	6307			Course Category	General / Compulsory	
Class Format	Lecture			Credits	Academic Credit: 2	
Department	Electrical and Computer Engineering			Student Grade	3rd	
Term	First Semester			Classes per Week	2	
Textbook and/or Teaching Materials	新線形代数 I 高遠節夫ほか5名共著（大日本図書）					
Instructor						
Course Objectives						
(1) Understand the definition and basic properties of linear transformation by matrix and learn its computational techniques. (2) Understand the definition of matrix eigenvalues and eigenvectors, and learn computational techniques for diagonal matrices.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Learn and can use basic computing techniques for matrices.		Understand the basic computing techniques for matrices.		Do not understand the basic computing techniques for matrices.	
Achievement 2	Learn and can use some advanced computational techniques for matrices and vectors.		Understand some advanced computational techniques for matrices and vectors.		Do not understand the more advanced computing techniques for column vectors.	
Assigned Department Objectives						
Teaching Method						
Outline	Students will learn the application of matrices as the basis of linear algebra.					
Style	Classes will be conducted through lectures and exercises, scheduled assignments and quizzes, etc.					
Notice	The following items are essential for taking this course. New Linear Algebra I (textbook above) Ch. 2: Matrices, Ch. 3: Matrices Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester	1st Quarter	1st	Linear transformation		Understand the definition of a linear transformation.	
		2nd	Linear transformation		Understand and can apply the nature of linear transformations.	
		3rd	Linear transformation		Understand and can calculate synthesis transformations.	
		4th	Linear transformation		Understand and can calculate reverse conversion.	
		5th	Linear transformation		Understand and can calculate the linear transformation representing the rotation.	
		6th	Linear transformation		Understand and can calculate the nature of orthogonal transformations.	
		7th	Summary		Review / development	
		8th	Exercise		Exercise	
	2nd Quarter	9th	Eigenvalues and their applications		Understand the definitions of eigenvalues and eigenvectors.	
		10th	Eigenvalues and their applications		Can calculate eigenvalues and eigenvectors.	
		11th	Eigenvalues and their applications		Understand diagonal matrices.	
		12th	Eigenvalues and their applications		Can calculate for diagonal matrices.	
		13th	Eigenvalues and their applications		Understand and can calculate the probability of diagonals.	
		14th	Eigenvalues and their applications		Understand and can calculate the diagonals of a symmetric matrix by an orthogonal matrix.	
		15th	Exercise		Exercise	
		16th	Exam			
Evaluation Method and Weight (%)						
	Exam		Presentation	Attendance	Total	
Subtotal	40		30	30	100	
Basic Proficiency	40		30	30	100	
Specialized Proficiency	0		0	0	0	
Cross Area Proficiency	0		0	0	0	

Akashi College		Year	2024		Course Title	Science III -1
Course Information						
Course Code	6309			Course Category	General / Compulsory	
Class Format	Lecture			Credits	School Credit: 1	
Department	Electrical and Computer Engineering			Student Grade	3rd	
Term	First Semester			Classes per Week	2	
Textbook and/or Teaching Materials	「新編 化学」（数研出版）、「リードα 化学基礎+化学」（数研出版）、「フォトサイエンス 化学図録」（数研出版）					
Instructor	SAKURAI Yasuhiro					
Course Objectives						
1. 物質の状態に関する基本事項について説明や計算ができる。 2. 化学反応に関する基本事項について説明や計算ができる。 3. 無機物質に関する基本事項について説明や計算ができる。 4. 有機物質に関する基本事項について説明や計算ができる。						
Rubric						
	理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1	物質の状態に関する基本事項についての確な説明や正確な計算が十分にできる。		物質の状態に関する基本事項について説明や計算ができる。		物質の状態に関する基本事項について説明や計算ができない。	
評価項目2	化学反応に関する基本事項についての確な説明や正確な計算が十分にできる。		化学反応に関する基本事項について説明や計算ができる。		化学反応に関する基本事項について説明や計算ができない。	
評価項目3	無機物質に関する基本事項についての確な説明や正確な計算が十分にできる。		無機物質に関する基本事項について説明や計算ができる。		無機物質に関する基本事項について説明や計算ができない。	
評価項目4	有機物質に関する基本事項についての確な説明や正確な計算が十分にできる。		有機物質に関する基本事項について説明や計算ができる。		有機物質に関する基本事項について説明や計算ができない。	
Assigned Department Objectives						
Teaching Method						
Outline	この科目は、企業で化学に関する研究開発を担当していた教員が、その経験を活かし、様々な化合物の性質や反応について講義形式で授業を行うものである。化学基礎(サイエンスIIB)で学習した内容をもとに、様々な化学物質の性質や化学反応について学ぶ。化学を通して科学的思考を養う。					
Style	平素は講義形式で授業を行う。 理解度を確かめるために小テスト等を適宜実施する。					
Notice	日常生活を科学的に考察することによって、「化学」が身近な存在であることを認識して欲しい。 CBTについては、日時を振り替えて行うことがある。 評価の対象としない欠席条件（割合） 1/3以上の欠課					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester r	1st Quarter	1st	物質の状態 1 固体の構造	結晶とアモルファス、金属結晶、イオン結晶に関する基本事項について説明や計算ができる。		
		2nd	物質の状態 2 分子間力、分子結晶、共有結合の結晶	分子間力、分子結晶、共有結合の結晶に関する基本事項について説明や計算ができる。		
		3rd	物質の状態 3 物質の状態変化	粒子の熱運動、物質の三態とエネルギー、気液平衡と蒸気圧に関する基本事項について説明や計算ができる。		
		4th	物質の状態4 気体の体積と状態方程式	気体の体積と状態方程式に関する基本事項について説明や計算ができる。		
		5th	物質の状態5 混合気体の圧力と実在気体	混合気体の圧力と実在気体に関する基本事項について説明や計算ができる。		
		6th	物質の状態 6 溶液、希薄溶液の性質とコロイド溶液	溶解、希薄溶液の性質とコロイド溶液に関する基本事項について説明や計算ができる。		
		7th	物質の状態に関する総括	物質の状態に関する問題を解き、説明できる。		
		8th	反応速度と平衡 1 化学反応と熱、ヘスの法則	化学反応と熱、ヘスの法則に関する基本事項について説明や計算ができる。		
	2nd Quarter	9th	反応速度と平衡 2 化学反応と光	ヘスの法則、化学反応と光に関する基本事項について説明や計算ができる。		
		10th	反応速度と平衡 3 電池と電気分解	電池と電気分解に関する基本事項について説明や計算ができる。		
		11th	反応速度と平衡 4 化学反応の速さと反応条件、化学反応の仕組み	化学反応の速さと反応条件に関する基本事項について説明や計算ができる。		
		12th	反応速度と平衡 5 可逆平衡と化学平衡	可逆平衡、化学平衡に関する基本事項について説明や計算ができる。		
		13th	反応速度と平衡 6 平衡状態の変化	平衡状態の変化に関する基本事項について説明や計算ができる。		
		14th	反応速度と平衡 7 平衡状態、電解質溶液の化学平衡	平衡状態、電解質溶液の化学平衡に関する基本事項について説明や計算ができる。		



	15th	反応速度と平衡 に関する総括	反応速度と平衡に関する問題を解き、説明できる。
	16th	期末試験	
Evaluation Method and Weight (%)			
	定期試験	実験・レポート・小テスト・課題等	Total
Subtotal	60	40	100
基礎的能力	60	40	100
専門的能力	0	0	0
分野横断的能力	0	0	0

Akashi College		Year	2024		Course Title	Science Ⅲ -2
Course Information						
Course Code		6310		Course Category	General / Compulsory	
Class Format		Lecture		Credits	School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade	3rd	
Term		Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials		「新編化学」数研出版、「リードα化学基礎+化学」数研出版、「フォトサイエンス 化学図録」数研出版				
Instructor		SAKURAI Yasuhiro				
Course Objectives						
1. 周期表をもとに、化学物質の性質を理解し、説明できる。 2. 無機物質の性質、反応を理解し説明できる。 3. 有機物質の構造、官能基を理解し、性質や反応を説明できる。 4. 化学についての基礎知識をもち、安全性や環境問題に配慮できる。						
Rubric						
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安
評価項目1		物質の状態に関する基本事項についての確な説明や正確な計算が十分にできる。		物質の状態に関する基本事項について説明や計算ができる。		物質の状態に関する基本事項について説明や計算ができない。
評価項目2		化学反応に関する基本事項についての確な説明や正確な計算が十分にできる。		化学反応に関する基本事項について説明や計算ができる。		化学反応に関する基本事項について説明や計算ができない。
評価項目3		無機物質に関する基本事項についての確な説明や正確な計算が十分にできる。		無機物質に関する基本事項について説明や計算ができる。		無機物質に関する基本事項について説明や計算ができない。
評価項目4		有機物質に関する基本事項についての確な説明や正確な計算が十分にできる。		有機物質に関する基本事項について説明や計算ができる。		有機物質に関する基本事項について説明や計算ができない。
Assigned Department Objectives						
Teaching Method						
Outline		この科目は、企業で化学に関する研究開発を担当していた教員が、その経験を活かし、様々な化合物の性質や反応について講義形式で授業を行うものである。化学基礎(サイエンスIIB)で学習した内容をもとに、様々な化学物質の性質や化学反応について学ぶ。化学を通して科学的思考を養う。				
Style		平素は講義形式で授業を行い、確認テストを適宜実施する。				
Notice		日常生活を科学的に考察することによって、「化学」が身近な存在であることを認識する。 CBTについては、日時を振り替えて行うことがある。 評価の対象としない欠席条件（割合） 1/3以上の欠課				
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	無機物質-1 水素と18族（希ガス）と17族（ハロゲン）	水素や希ガス、ハロゲンの単体や化合物の性質や反応について理解し、説明できる。		
		2nd	無機物質-2 16族（酸素と硫黄）	酸素や硫黄の単体や化合物の性質や反応について理解し、説明できる。		
		3rd	無機物質-3 15族（窒素、リン）14族（炭素・ケイ素）	窒素、リン、炭素やケイ素の単体や化合物の性質や反応について理解し、説明できる。		
		4th	無機物質-4 1族（アルカリ金属）、2族	アルカリ金属、2族元素の単体や化合物の性質や反応について理解し、説明できる。		
		5th	無機物質-5 1・2族以外の典型元素（アルミニウム・亜鉛）	アルミニウム、亜鉛、水銀、スズ、鉛の単体の典型元素の単体や化合物の性質や反応について理解し、説明できる。		
		6th	無機物質-6 遷移元素（3～11族）と金属イオンの分離と確認	遷移元素(鉄、銅、銀クロム、マンガン)の単体および化合物の性質や反応について理解し説明できる。		
		7th	有機物質-1 有機化合物の特徴と構造決定	有機化合物の特徴および構造式の決定手順を理解し、説明できる。		
		8th	有機物質-2 飽和炭化水素（アルカン）、不飽和炭化水素（アルケンとアルキン）	飽和炭化水素、不飽和炭化水素の性質や反応について理解し、説明できる。		
	4th Quarter	9th	有機物質-3 アルコールとエーテル	アルコールとエーテルの性質や反応について理解し、説明できる。		
		10th	有機物質-4アルデヒドとケトン	アルデヒドとケトンの性質や反応について理解し説明できる。		
		11th	有機物質-5 カルボン酸 エステル・油脂・セッケン	カルボン酸、エステルおよび油脂やセッケンの性質や反応について理解し、説明できる。		
		12th	有機物質-6 芳香族炭化水素-1	芳香族炭化水素の性質や反応について理解し説明できる、		
		13th	有機物質-7 芳香族炭化水素-2	芳香族炭化水素の性質や反応について理解し説明できる。		
		14th	有機物質-8 高分子化合物	合成高分子、天然高分子について理解し、説明できる。		

		15th	後期まとめ	無機物質、有機物質の性質、反応について説明できる。
		16th	期末試験	
Evaluation Method and Weight (%)				
		試験	その他	Total
Subtotal		35	65	100
基礎的能力		35	65	100
専門的能力		0	0	0
分野横断的能力		0	0	0

Akashi College		Year	2024	Course Title	Physical Education III-1
Course Information					
Course Code	6311		Course Category	General / Compulsory	
Class Format	Skill		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	GOTOH Takayuki,ISHIDA Masami				
Course Objectives					
<ul style="list-style-type: none"><li>Participate in classes to improve students' own health and physical strength. Also, have some level of self-discipline.</li><li>Can take action to conduct sports safely. Also, recognizes the significance of collaborating and cooperating with the team and can take the necessary action to do so.</li></ul>					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Actively participate in classes to improve their health and physical strength. Have a high level of self-discipline.		Participate in classes to improve their health and physical strength. Have some level of self-discipline.		Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.
Achievement 2	Actively participate in various sport practices and games, and are very competitive. Also have a great influence on games, etc.		Can actively participate in various sport practices and games. And also have the skills for them.		Do not participate in various sport practices and games.
Achievement 3	Understand the role of a leader well, and can help increase teamwork.		Understand and can play or take on the role of a leader.		Do not understand the role of a leader. Also, never play that role.
Assigned Department Objectives					
Teaching Method					
Outline	The goal of this course is for students to learn more about the fun and depth of sports so that they can build the habit of playing sports on a daily basis. This class requires an active and proactive attitude to participate. Students will split into groups and leaders will take the lead to plan, review, and implement the course content. Students can choose from: Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.				
Style	Students are encouraged to improve their skills through games based on the rules, how to play games, and the basic skills they learned in previous years. They are also encouraged to experience the fun of enhancing teamwork while collaborating and cooperating with your team with your leader in the center. Students should take the initiative in creating a safe and welcoming class, and the instructors support their effort.				
Notice	<ul style="list-style-type: none"><li>Wear training wear and athletic shoes. If students fail to wear them, points will be deducted from their grade.</li><li>Do not wear accessories, watches, or any other unnecessary items, as well as chewing gum during class. These are also eligible for grade deduction.</li><li>Use of smartphones or any other unrelated activities during class are subject to point deductions.</li><li>Tardiness will be excused for the first 20 minutes. Students can participate in the class after 20 minutes, but their attendance will be marked as absent.</li><li>If it is discovered that a student left class early without being excused (ditching class), their attendance for that class will be marked as absent, and their grade for previous classes will suffer a deduction equal to an absence.</li><li>Students who miss 1/4 or more of classes will not be eligible for evaluation.</li></ul>				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	
				<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Guidance Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Understand the purposes and objectives of this course. Split into teams in each sport and select a leader.	
		2nd	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		3rd	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		4th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		5th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	

		6th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		7th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		8th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
	2nd Quarter	9th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Split into teams in each sport and select a leader.
		10th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		11th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		12th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		13th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		14th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		15th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		16th	No final exam	

#### Evaluation Method and Weight (%)

	Approach to a class	Practical skill	Leadership	Total
Subtotal	75	15	10	100
Basic Proficiency	75	0	0	75
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	15	10	25

Akashi College		Year	2024	Course Title	Physical Education III-2
Course Information					
Course Code	6312		Course Category	General / Compulsory	
Class Format	Skill		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	ISHIDA Masami,MAEDA Tadanori				
Course Objectives					
<ul style="list-style-type: none"> <li>Participate in classes to improve students' own health and physical strength. Also, have some level of self-discipline.</li> <li>Can take action to conduct sports safely. Also, recognizes the significance of collaborating and cooperating with the team and can take the necessary action to do so.</li> </ul>					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Actively participate in classes to improve their health and physical strength. Have a high level of self-discipline.		Participate in classes to improve their health and physical strength. Have some level of self-discipline.		Do not participate in classes. Do not strive to improve their health and physical strength. Have a poor level of self-discipline.
Achievement 2	Actively participate in various sport practices and games, and are very competitive. Also have a great influence on games, etc.		Can actively participate in various sport practices and games. And also have the skills for them.		Do not participate in various sport practices and games.
Achievement 3	Understand the role of a leader well, and can help increase teamwork.		Understand and can play or take on the role of a leader.		Do not understand the role of a leader. Also, never play that role.
Assigned Department Objectives					
Teaching Method					
Outline	The goal of this course is for students to learn more about the fun and depth of sports so that they can build the habit of playing sports on a daily basis. This class requires an active and proactive attitude to participate. Students will split into groups and leaders will take the lead to plan, review, and implement the course content. Students can choose from: Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.				
Style	Students are encouraged to improve their skills through games based on the rules, how to play games, and the basic skills they learned in previous years. They are also encouraged to experience the fun of enhancing teamwork while collaborating and cooperating with your team with your leader in the center. Students should take the initiative in creating a safe and welcoming class, and the instructors support their effort.				
Notice	<ul style="list-style-type: none"> <li>Wear training wear and athletic shoes. If students fail to wear them, points will be deducted from their grade.</li> <li>Do not wear accessories, watches, or any other unnecessary items, as well as chewing gum during class. These are also eligible for grade deduction.</li> <li>Use of smartphones or any other unrelated activities during class are subject to point deductions.</li> <li>Tardiness will be excused for the first 20 minutes. Students can participate in the class after 20 minutes, but their attendance will be marked as absent.</li> <li>If it is discovered that a student left class early without being excused (ditching class), their attendance for that class will be marked as absent, and their grade for previous classes will suffer a deduction equal to an absence.</li> <li>Students who miss 1/4 or more of classes will not be eligible for evaluation.</li> </ul>				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	Guidance Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Understand the purposes and objectives of this course. Split into teams in each sport and select a leader.	
		2nd	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		3rd	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		4th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	
		5th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.	

		6th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		7th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		8th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
	4th Quarter	9th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Split into teams in each sport and select a leader.
		10th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		11th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		12th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		13th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		14th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		15th	Softball, soccer, futsal, tennis, basketball, volleyball, badminton, table tennis, other sports as determined feasible by teachers while ensuring safety, based on requests from students.	Can do warm-up and practice, play games, and reflect on the class, led by a leader.
		16th	No final exam	

#### Evaluation Method and Weight (%)

	Approach to a class	Practical skill	Leadership	Total
Subtotal	75	15	10	100
Basic Proficiency	75	0	0	75
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	15	10	25

Akashi College		Year	2024		Course Title	English Ⅲ-2
Course Information						
Course Code		6314		Course Category		General / Compulsory
Class Format		Lecture		Credits		School Credit: 1
Department		Electrical and Computer Engineering		Student Grade		3rd
Term		Second Semester		Classes per Week		2
Textbook and/or Teaching Materials		Welcome to the TOEIC® L&R Test -New Edition- / 『データベース4500』（継続） / 『NextStage』 4th Edition（継続）				
Instructor		MORIMOTO Nana				
Course Objectives						
・相手と英語でコミュニケーションを図ろうとする態度や異文化を理解しようとする姿勢を身に付け、実際の場面での英語の使用に役立てることができる。 ・日常生活や自分の身近なことについて、ある程度の的確さ、流暢さ、即応性をもって内容を聴解、読解、伝達できる。 ・社会性のある話題や自分の専門に関する基本的な情報や考えについて、内容の聴解、読解、伝達に加え、簡単な意見交換ができる。						
Rubric						
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安
評価項目1		相手と英語でコミュニケーションを図ろうとする態度や異文化を理解しようとする姿勢を身に付け、実際の場面での英語の使用に応用して役立てることができる。		相手と英語でコミュニケーションを図ろうとする態度や異文化を理解しようとする姿勢を身に付け、実際の場面での英語の使用に役立てることができる。		相手と英語でコミュニケーションを図ろうとする態度や異文化を理解しようとする姿勢を身に付け、実際の場面での英語の使用に役立てることができない。
評価項目2		日常生活や自分の身近なことについて、的確さ、流暢さ、即応性をもって内容を聴解、読解、伝達できる。		日常生活や自分の身近なことについて、ある程度の的確さ、流暢さ、即応性をもって内容を聴解、読解、伝達できる。		日常生活や自分の身近なことについて、ある程度の的確さ、流暢さ、即応性をもって内容を聴解、読解、伝達できない。
評価項目3		社会性のある話題や自分の専門に関する基本的な情報や考えについて、内容の聴解、読解、伝達に加え、意見交換ができる。		社会性のある話題や自分の専門に関する基本的な情報や考えについて、内容の聴解、読解、伝達に加え、簡単な意見交換ができる。		社会性のある話題や自分の専門に関する基本的な情報や考えについて、内容の聴解、読解、伝達に加え、簡単な意見交換ができない。
Assigned Department Objectives						
Teaching Method						
Outline		リスニング、文法、語彙、リーディングなどの個別スキルのレベルアップに加え、TOEICで高得点が狙えるよう英語力の向上を目指す。				
Style		単語の習得を確認する小テストの後、教科書を使った講義と演習を行う。授業で行った内容について復習をする。				
Notice		毎時間の予習、復習をして授業に臨むこと。小テスト、課題をきちんとこなすこと。 評価の対象としない欠席条件（割合）：1/4以上の欠課				
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	授業概要説明	弱点の克服を目指す。 授業内容や課題について理解する。		
		2nd	Unit 1	レッスンの課題として設定されている語彙・文法などを習得する。		
		3rd	Unit 2	レッスンの課題として設定されている語彙・文法などを習得する。		
		4th	Unit 3	レッスンの課題として設定されている語彙・文法などを習得する。		
		5th	Unit 4	レッスンの課題として設定されている語彙・文法などを習得する。		
		6th	Unit 5	レッスンの課題として設定されている語彙・文法などを習得する。		
		7th	Unit 6	レッスンの課題として設定されている語彙・文法などを習得する。		
		8th	中間のまとめ	これまでの学習で理解したことをきちんと成果として表現することができる。		
	4th Quarter	9th	Unit 7	レッスンの課題として設定されている語彙・文法などを習得する。		
		10th	Unit 8	レッスンの課題として設定されている語彙・文法などを習得する。		
		11th	Unit 9	レッスンの課題として設定されている語彙・文法などを習得する。		
		12th	Unit 10	レッスンの課題として設定されている語彙・文法などを習得する。		
		13th	Unit 11	レッスンの課題として設定されている語彙・文法などを習得する。		
		14th	Unit 12	レッスンの課題として設定されている語彙・文法などを習得する。		
		15th	後期総復習	後期の学習内容について復習する。		



		16th	期末試験	これまでの学習で理解したことをきちんと成果として表現することができる。		
Evaluation Method and Weight (%)						
	試験	小テスト	相互評価	その他	Total	
Subtotal	60	20	0	20	100	
基礎的能力	60	20	0	20	100	
専門的能力	0	0	0	0	0	
分野横断的能力	0	0	0	0	0	

Akashi College		Year	2024	Course Title	English Conversation I-1
Course Information					
Course Code	6315		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Smart Choice (4th Edition) Student Book 3 with Online Practice, by Ken Wilson and Alice Savage (2020) Oxford University Press, ISBN: 978-0-19-406129-2.				
Instructor	HERBERT John C.				
Course Objectives					
1) Read aloud or speak considering the basic rhythms, intonations, and sound connections in phrases and sentences in order to convey one's meaning to a listener. 2) Learn the rules of English pronunciation and accents and use them properly in order to speak clearly and convey one's meaning to a listener. 3) Memorize the vocabulary learned in junior high school. Learn new vocabulary in accordance with the curriculum guidelines for high school and technical English terms required for professional education, and use them properly. 4) Learn grammar and sentence structure in accordance with the curriculum guidelines for high school in addition to the grammar and structure learned in junior high school, and use them properly. 5) Listen to and catch the necessary information from the content spoken in a clear pronunciation at a speed of about 100 words a minute, regarding everyday life and familiar topics. 6) Speak one's opinions and impressions in English using basic terms, regarding everyday life and familiar topics. 7) Make explanations and tell stories at a speed of about 100 words a minute in a manner that conveys one's meaning to a listener.					
Rubric					
	Mastery Level		Standard Level		Unacceptable Level
Objective 1 (Pronunciation)	Clear pronunciation and natural intonation		Understandable pronunciation and recognizable intonation		Poor pronunciation using only Japanese katakana to try to speak English and flat intonation
Objective 2 (Pronunciation)	Natural accent, stress, and rhythm		Understandable accent, stress, and rhythm		Incomprehensible accent, stress, rhythm
Objective 3 (Vocabulary)	Mastery of all textbook vocabulary		Mastery of most of the textbook vocabulary which the teacher focused on in class lectures		Mastery of only a few of the textbook vocabulary which the teacher focused on in class lectures
Objective 4 (Vocabulary and Syntax)	Mastery of all the grammar from the textbook and from the teacher's lectures		Mastery of most of the grammar from the textbook and from the teacher's lectures		Mastery of only some of the grammar from the textbook and from the teacher's lectures
Objective 5 (English Communication)	Able to maintain a basic conversation fluently		Able to maintain a basic conversation somewhat fluently		Not able to maintain a basic conversation
Objective 6 (English Communication)	Able to express opinions in English clearly		Able to express opinions in English somewhat clearly		Not able to express opinions in English
Objective 7 (English Communication)	Able to explain ideas fluently in English		Able to explain ideas somewhat fluently in English		Not able to explain ideas in English
Assigned Department Objectives					
Teaching Method					
Outline	This course focuses on English conversation strategies and confidence building. Students will make the English they have learned from previous classes come alive in its spoken form.				
Style	This class will spend two weeks on each textbook unit. English practice in the first week will focus on useful vocabulary and grammar for making English conversations about the unit topic. Then, the students will practice making English conversations. The next week will include a short vocabulary and grammar review, followed by listening activities and more English conversation practice. After 3 units have been taught over six weeks, each seventh week will include a speaking test. Written vocabulary and grammar tests will be given as mid-term and end-term exams.				
Notice	Active participation in English is essential for completing this course successfully. Students who do not stay focused and those who are more than 10 minutes late for class may be counted absent. Students who miss 1/4 or more of classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class <input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Unit 1: Using the present perfect continuous form to talk about hobbies	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.	
		2nd	Unit 1 (continued): Using the present perfect continuous form to talk about hobbies	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.	
		3rd	Unit 2: Using indirect questions to talk about shows and celebrities	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.	
		4th	Unit 2 (continued): Using indirect questions to talk about shows and celebrities	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.	

		5th	Unit 3: Using the passive form to express opinions about art	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		6th	Unit 3 (continued): Using the passive form to express opinions about art	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		7th	First Speaking Test	Speak as naturally, confidently, and fluently as possible with the conversation partner of your choice, using vocabulary and grammar from the textbook.
		8th	Mid-term Exam (first written test)	Master the relevant vocabulary and grammar studied up to this point.
	2nd Quarter	9th	Unit 4: Using relative clauses to describe what people are like	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		10th	Unit 4 (continued): Using relative clauses to describe what people are like	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		11th	Unit 5: Using infinitives and gerunds to talk about technology and products	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		12th	Unit 5 (continued): Using infinitives and gerunds to talk about technology and products	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		13th	Unit 6: Using the past perfect form to describe past events	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		14th	Unit 6 (continued): Using the past perfect form to describe past events	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		15th	Second Speaking Test	Speak as naturally, confidently, and fluently as possible with the conversation partner of your choice, using vocabulary and grammar from the textbook.
		16th	End-term Exam (second written test)	Master the relevant vocabulary and grammar studied up to this point.

#### Evaluation Method and Weight (%)

	Speaking Tests	Written Tests	Online Homework	Total
Subtotal	40	30	30	100
Basic English Communication	40	30	30	100

Akashi College		Year	2024	Course Title	English Conversation I-2
Course Information					
Course Code	6316		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Smart Choice (4th Edition) Student Book 3 with Online Practice, by Ken Wilson and Alice Savage (2020) Oxford University Press, ISBN: 978-0-19-406129-2.				
Instructor	HERBERT John C.				
Course Objectives					
1) Read aloud or speak considering the basic rhythms, intonations, and sound connections in phrases and sentences in order to convey one's meaning to a listener. 2) Learn the rules of English pronunciation and accents and use them properly in order to speak clearly and convey one's meaning to a listener. 3) Memorize the vocabulary learned in junior high school. Learn new vocabulary in accordance with the curriculum guidelines for high school and technical English terms required for professional education, and use them properly. 4) Learn grammar and sentence structure in accordance with the curriculum guidelines for high school in addition to the grammar and structure learned in junior high school, and use them properly. 5) Listen to and catch the necessary information from the content spoken in a clear pronunciation at a speed of about 100 words a minute, regarding everyday life and familiar topics. 6) Speak one's opinions and impressions in English using basic terms, regarding everyday life and familiar topics. 7) Make explanations and tell stories at a speed of about 100 words a minute in a manner that conveys one's meaning to a listener.					
Rubric					
	Mastery Level		Standard Level		Unacceptable Level
Objective 1 (Pronunciation)	Clear pronunciation and natural intonation		Understandable pronunciation and recognizable intonation		Poor pronunciation using only Japanese katakana to try to speak English and flat intonation
Objective 2 (Pronunciation)	Natural accent, stress, and rhythm		Understandable accent, stress, and rhythm		Incomprehensible accent, stress, rhythm
Objective 3 (Vocabulary)	Mastery of all textbook vocabulary		Mastery of most of the textbook vocabulary which the teacher focused on in class lectures		Mastery of only a few of the textbook vocabulary which the teacher focused on in class lectures
Objective 4 (Vocabulary and Syntax)	Mastery of all the grammar from the textbook and from the teacher's lectures		Mastery of most of the grammar from the textbook and from the teacher's lectures		Mastery of only some of the grammar from the textbook and from the teacher's lectures
Objective 5 (English Communication)	Able to maintain a basic conversation fluently		Able to maintain a basic conversation somewhat fluently		Not able to maintain a basic conversation
Objective 6 (English Communication)	Able to express opinions in English clearly		Able to express opinions in English somewhat clearly		Not able to express opinions in English
Objective 7 (English Communication)	Able to explain ideas fluently in English		Able to explain ideas somewhat fluently in English		Not able to explain ideas in English
Assigned Department Objectives					
Teaching Method					
Outline	This course focuses on English conversation strategies and confidence building. Students will make the English they have learned from previous classes come alive in its spoken form.				
Style	This class will spend two weeks on each textbook unit. English practice in the first week will focus on useful vocabulary and grammar for making English conversations about the unit topic. Then, the students will practice making English conversations. The next week will include a short vocabulary and grammar review, followed by listening activities and more English conversation practice. After 3 units have been taught over six weeks, each seventh week will include a speaking test. Written vocabulary and grammar tests will be given as mid-term and end-term exams.				
Notice	Active participation in English is essential for completing this course successfully. Students who do not stay focused and those who are more than 10 minutes late for class may be counted absent. Students who miss 1/4 or more of classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class <input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	Unit 7: Talking about how to "have" or "get" something done	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.	
		2nd	Unit 7 (continued): Talking about how to "have" or "get" something done	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.	
		3rd	Unit 8: Using the second conditional to talk about potential improvements	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.	
		4th	Unit 8 (continued): Using the second conditional to talk about potential improvements	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.	

		5th	Unit 9: Using should have and would have to talk about regrets and solutions	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		6th	Unit 9 (cont.): Using should have and would have to talk about regrets and solutions	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		7th	First Speaking Test	Speak as naturally, confidently, and fluently as possible with a random partner and a random topic selected by your teacher.
		8th	Mid-term Exam (first written test)	Master the relevant vocabulary and grammar studied up to this point.
	4th Quarter	9th	Unit 10: Using the perfect forms of may, might, could, and must to speculate	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		10th	Unit 10 (cont.): Using the perfect forms of may, might, could, and must to speculate	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		11th	Unit 11: Using the third conditional to discuss life with and without inventions	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		12th	Unit 11(cont.): Using the third conditional to discuss life with and without inventions	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		13th	Unit 12: Using reported speech to talk about news	Learn enough vocabulary and grammar to speak confidently and fluently about the unit topic in English.
		14th	Unit 12 (continued): Using reported speech to talk about news	Listen to and practice using the appropriate intonation, pronunciation, stress, and rhythm of English to speak more naturally about the unit topic in English.
		15th	Final Speaking Test	Speak as naturally, confidently, and fluently as possible with a random partner and a random topic selected by your teacher.
		16th	End-term Exam (second written test)	Master the relevant vocabulary and grammar studied up to this point.

#### Evaluation Method and Weight (%)

	Speaking Tests	Written Tests	Online Homework	Total
Subtotal	40	30	30	100
Basic English Communication	40	30	30	100

Akashi College		Year	2024	Course Title	Mathematics Certification II
Course Information					
Course Code	6320		Course Category	General / Elective	
Class Format	その他		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	Year-round		Classes per Week	1	
Textbook and/or Teaching Materials	None				
Instructor	OMODA Yasuhiro				
Course Objectives					
<p>he goal is to pass a qualifying examination by an external organization with content related to mathematics.          If you pass any of the following qualifications, you will be eligible for credit recognition.          Practical Mathematics Proficiency Test: Level 2          The evaluation shall be 100 in case of passing.</p>					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Practical Mathematics Proficiency Test: Pass Level pre-1.		Practical Mathematics Proficiency Test: Pass Level pre-1.		Practical Mathematics Proficiency Test: Fail to pass Level pre-1.
Assigned Department Objectives					
Teaching Method					
Outline	As a result of learning in the field of mathematics, it is positioned as a subject that gives credits according to the results of qualification examinations sponsored by external organizations. If you pass one of the designated external qualification exams and complete the prescribed procedures by the deadline designated by the Educational Affairs Section of the Student Affairs Division, you will be awarded one credit.				
Style	This is self-study for the qualification exam, and no lectures are given.				
Notice	Certificates of passing the examinations taken in the 1st ~3rd grades or certificates of passing the examinations taken in the first and second years are required for credit transfer. Credits will not be granted if proof is not submitted within this period. Strictly observe the deadline. Absence conditions (percentage) that are not considered for passing No condition				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input type="checkbox"/> Applicable to Remote Class	
				<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Self-directed learning	Voluntary study for qualification exams (no lectures)	
		2nd	same as above	same as above	
		3rd	same as above	same as above	
		4th	same as above	same as above	
		5th	same as above	same as above	
		6th	same as above	same as above	
		7th	same as above	same as above	
		8th	same as above	same as above	
	2nd Quarter	9th	same as above	same as above	
		10th	same as above	same as above	
		11th	same as above	same as above	
		12th	same as above	same as above	
		13th	same as above	same as above	
		14th	same as above	same as above	
		15th	same as above	same as above	
		16th	No final exam		
2nd Semester	3rd Quarter	1st	Self-directed learning	Voluntary study for qualification exams (no lectures)	
		2nd	same as above	same as above	
		3rd	same as above	same as above	
		4th	same as above	same as above	
		5th	same as above	same as above	
		6th	same as above	same as above	
		7th	same as above	same as above	
		8th	same as above	same as above	
	4th Quarter	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	
		13th	same as above	same as above	

		14th	same as above	same as above
		15th	same as above	same as above
		16th	No final exam	
Evaluation Method and Weight (%)				
		Examination	Other	Total
Subtotal		0	100	100
Basic Proficiency		0	100	100
Specialized Proficiency		0	0	0
Cross Area Proficiency		0	0	0

Akashi College		Year	2024	Course Title	Overseas Training I
Course Information					
Course Code	6321		Course Category	General / Elective	
Class Format	Practical training		Credits	School Credit: 1	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	Year-round		Classes per Week	1	
Textbook and/or Teaching Materials					
Instructor	All faculty of the department				
Course Objectives					
Objectives of this training are as follows: (1) Can think of things from various perspectives through a variety of training experiences abroad. (2) Can communicate through a variety of training experiences overseas.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can think of things very well from various perspectives through a variety of training experiences abroad.		Can think of things from various perspectives through a variety of training experiences abroad.		Cannot think of things through various perspectives through a variety of training experiences abroad.
Achievement 2	Can communicate very well through a variety of training experiences overseas.		Can communicate through a variety of training experiences overseas.		Cannot communicate through a variety of training experiences overseas.
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.				
Style	On-site training and debriefing session				
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 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					
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	2nd Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th			
		16th	No final exam		
2nd Semester	3rd Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	4th Quarter	9th			
		10th			
		11th			
		12th			



		13th		
		14th		
		15th		
		16th	No final exam	

Evaluation Method and Weight (%)

	Report	Presentation	Total
Subtotal	50	50	100
Basic Proficiency	0	0	0
Specialized Proficiency	0	0	0
Cross Area Proficiency	50	50	100

Akashi College		Year	2024	Course Title	Japanese III -1
Course Information					
Course Code	6322		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 2	
Department	Electrical and Computer Engineering		Student Grade	3rd	
Term	First Semester		Classes per Week	4	
Textbook and/or Teaching Materials	Japanese for International College/Grauduate Students -reading essays-, ALC / Japanese for International College/Grauduate Students -kanji and vocaburally-, ALC / Natural Science Japanese for International Students by Kazuo Hosoi, 3A Corporation / Short Essays in 12 Steps by Etsuko Tomomatsu, 3A Corporation				
Instructor	KUBOTA Ikumi				
Course Objectives					
1. Can learn about linguistic competence and writing structure to read reports or essays and reading comprehension to read texts in their specialized field by oneself . 2. Can create detailed texts on a wide range of topics and explain your own perspective. 3. Can communicate fluently and naturally, and you can use words according to the other person and the situation.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can read the text to understand the content and explain the content in your own words.		Understand the contents by reading the text, and explain the contents by using the words in the text as they are.		Cannot read the text and can hardly explain the content.
Achievement 2	Can write texts in a detailed and clear structure. Can tell your perspective on a topic.		If there are any hints or advice, can write texts in a detailed and clear structure. and also can tell your perspective on a topic.		Cannot write texts in a detailed and clear structure. Cannot tell your perspective on a topic.
Achievement 3	Can communicate fluently and naturally on various topics. In addition, can use words according to the other party and the situation.		There are some unnatural parts, but can communicate fluently to some extent.		Cannot communicate fluently and naturally on various topics. Cannot use words according to the other party and the situation.
Assigned Department Objectives					
Teaching Method					
Outline	The students have already acquired language knowledge and skills through a wide range of topics. The purpose of this class is to comprehensively improve students' Japanese proficiency through various reading materials, which is more specialized. At the same time, we aim to be able to convey opinions and suggestions on highly specialized topics, focusing on the practice of communicating one's perspective to others.				
Style	The teacher will use textbooks and make and distribute the handout.				
Notice	Students who miss 1/4 or more of classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Orientation	Understand the class objectives and content.	
		2nd	Cross-cultural adaptation	Understand the experience of transitioning to a different culture. Can discover expressions unique to written language.	
		3rd	Cross-cultural adaptation	Can read texts with an awareness of the central sentences and supporting sentences of each paragraph. Can share with others the thoughts they have been feeling since starting KOSEN life.	
		4th	Natural Science Japanese 1	Can read the necessary information from the text about chemistry.	
		5th	Natural Science Japanese 2	Understand the meaning of the words and how to use expressions related to chemistry.	
		6th	Natural Science Japanese 2	Can talk about what you learned from the content of the text.	
		7th	Impulse-buying	Understand the content of the text by comparing it with your own experience.	
		8th	Reflection	Can explain new things you found out in class, how your mind have changed, and how your Japanese abilities and skills have developed.	
	2nd Quarter	9th	Natural Science Japanese 4	Understand the meaning of the words and how to use expressions related to engineering.	
		10th	Natural Science Japanese 4	Can share your thoughts and discuss the contents of the 9th week with others.	
		11th	Educational issues	Learn about topics that are problematic in Japanese schools and be able to understand the content.	
		12th	Food and Japanese	Understand onomatopoeia that expresses texture. Can discover onomatopoeias used in daily life and understand their meaning.	

		13th	Food and Japanese	Understand the sentence structure of an essay. Can use directive expressions appropriately.
		14th	Japanese society through food	Can read columns on food and education issues, food and gender, understand the content, and share their own opinions on the topics within the group.
		15th	Japanese society through food	Can explain researched information and their own opinions through comparing some cases in their own countries.
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Assignments	Portfolio	Total
Subtotal	50	40	10	100
Basic Proficiency	50	20	0	70
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	20	10	30

Akashi College		Year	2024		Course Title	Japanese III-2	
Course Information							
Course Code		6323		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		Japanese for International College/Grauduate Students -reading essays-, ALC / Japanese for International College/Grauduate Students -kanji and vocaburally-, ALC / Natural Science Japanese for International Students by Kazuo Hosoi, 3A Corporation / Short Essays in 12 Steps by Etsuko Tomomatsu, 3A Corporation					
Instructor		KUBOTA Ikumi					
Course Objectives							
1. Can learn about linguistic competence and writing structure to read reports or essays and reading comprehension to read texts in their specialized field by oneself . 2. Can create detailed texts on a wide range of topics and explain your own perspective. 3. Can communicate fluently and naturally, and you can use words according to the other person and the situation.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can read the text to understand the content and explain the content in your own words.		Understand the contents by reading the text, and explain the contents by using the words in the text as they are.		Cannot read the text and can hardly explain the content.	
Achievement 2		Can write texts in a detailed and clear structure. Can tell your perspective on a topic.		If there are any hints or advice, can write texts in a detailed and clear structure. and also can tell your perspective on a topic.		Cannot write texts in a detailed and clear structure. Cannot tell your perspective on a topic.	
Achievement 3		Can communicate fluently and naturally on various topics. In addition, can use words according to the other party and the situation.		There are some unnatural parts, but can communicate fluently to some extent.		Cannot communicate fluently and naturally on various topics. Cannot use words according to the other party and the situation.	
Assigned Department Objectives							
Teaching Method							
Outline		The students have already acquired language knowledge and skills through a wide range of topics. The purpose of this class is to comprehensively improve students' Japanese proficiency through various reading materials, which is more specialized. At the same time, we aim to be able to convey opinions and suggestions on highly specialized topics, focusing on the practice of communicating one's perspective to others.					
Style		The teacher will use textbooks and make and distribute the handout.					
Notice		Students who miss 1/4 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Changes in society		Understand the relationship between changes in society and labor issues.		
		2nd	Changes in society		Can research the labor issues facing your country, share the information with others, and exchange opinions.		
		3rd	Natural Science Japanese 6		Can grasp the contents of the text from various angles and search for related or developed contents that you are interested in.		
		4th	Natural Science Japanese 6		Can explain the characteristics of something clearly while comparing the contents of the 3th week with others.		
		5th	Idiom		Understand Japanese idioms and compare them with similar idioms in your language to discover the differences between the two languages.		
		6th	Proverb		Understand the meanings and situations in which proverbs are used frequently in daily life.		
		7th	Proverb		Can create a skit that express the message learned from a proverb and express it physically.		
		8th	Reflection		Can explain new things you found out in class, how your mind have changed, and how your Japanese abilities and skills have developed.		
	4th Quarter	9th	Tap water		Understand technological developments and people's awareness related to the topic.		
		10th	Tap water		Can use effective grammatical expressions when expressing opinions.		
		11th	Natural Science Japanese 10		Can read the meaning of the text about space science.		
		12th	Natural Science Japanese 10		Can get the information you need by reading articles on topics covered in the text.		

		13th	Earthquakes and disaster prevention	Can explain what you thought about earthquakes which occurred recently and what actions you should be careful about.
		14th	Language use and social change	Understand the background behind the creation of teen slangs and changes in people's values.
		15th	Language use and social change	Can pick up a teen slangs you're interested in and share information. Can think about the background behind the birth of these words and changes in people's values.
		16th	Final exam	

#### Evaluation Method and Weight (%)

	Examination	Assignments	Portfolio	Total
Subtotal	50	40	10	100
Basic Proficiency	50	20	0	70
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	0	20	10	30

Akashi College		Year	2024		Course Title	Japanese Practice II	
Course Information							
Course Code		6324		Course Category		General / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		The teacher will make and distribute the handout. (Teaching materials: 浜田麻里ほか著『大学生と留学生のための論文ワークブック』（くろしお出版）、The Way to Become an Advanced Speaker of Japanese Techniques and Expressions for Effective Communication by Chikako Ogiwara)					
Instructor		KUBOTA Ikumi					
Course Objectives							
1. Can write logical sentences on familiar topics, and speak in clear structure and appropriate Japanese.							
2. Can review your Japanese ability and way of thinking by sharing ideas and exchanging opinions with your classmates.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can write sentences logically. Can speak in clear structure and appropriate Japanese.		Can write sentences logically. If there is advance preparation, can speak in clear structure and appropriate Japanese.		Cannot write sentences logically. Cannot speak in clear structure and appropriate Japanese.	
Achievement 2		Can participate in activities with your classmates and not only review your Japanese and ideas, but also give comments and advice to the other person.		Can participate in activities with classmates and review your Japanese and ideas.		Cannot participate much in activities with classmates. Can participate, but cannot review your Japanese or your thoughts.	
Assigned Department Objectives							
Teaching Method							
Outline		The purpose of this class is to develop the Japanese ability to write and speak logically through various communication activities.					
Style		We will engage in various communication activities in a joint class with JapaneseIV. We hope that the students will improve their Japanese and thinking skills through the various activities.					
Notice		Students who miss 1/4 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester r	3rd Quarter	1st	Orientation		Understand the class objectives and content.		
		2nd	Sentence structure		Understand how to compose a paper to make it easy to understand.		
		3rd	Sentence type		Understand the characteristics of each sentence that states facts, opinions, and action.		
		4th	INTRODUCTION		Can read the paper and notice the structure of the introduction and characteristic Japanese expressions.		
		5th	INTRODUCTION		Understand how to explain the background of the paper and can write about a given theme.		
		6th	INTRODUCTION		Can find the problem from a reading material. Can also show a plan of how to solve the problem.		
		7th	BODY		Understand the difference between facts and opinions and write them separately.		
		8th	BODY		Can explain facts by using objective expressions.		
	4th Quarter	9th	BODY		Can write a body of the paper.		
		10th	BODY		Can write an opinion logically.		
		11th	BODY		Can read sentences written by classmates, notice good points and the points which need improvement, and comment on them.		
		12th	CONCLUSION		Understand how to write a summary of the paper. Can add an evaluation to the paper, and also can write the prospects for the future that can be considered from the conclusion.		
		13th	Present reasons and arguments		Can list issues in your daily life and summarize opinions and proposals for a more fulfilling life.		
		14th	Present reasons and arguments		Can explain your opinions and suggestions to others, and also can think about how to effectively convey a variety of opinions and suggestions in groups and summarize them.		
		15th	Present reasons and arguments		Can convey opinions and suggestions summarized through activities in the 13th and 14th weeks to others, and also can state your own ideas in response to the opinions and suggestions of others.		

		16th	Reflection	Can explain new things you found out in class, things that changed their minds, and how your Japanese abilities and skills have developed.		
Evaluation Method and Weight (%)						
			Presentation, Production work	Submission of assignments	Behavior	Total
Subtotal			70	10	20	100
Basic Proficiency			20	10	0	30
Specialized Proficiency			20	0	0	20
Cross Area Proficiency			30	0	20	50

Akashi College		Year	2024		Course Title	Electromagnetics I	
Course Information							
Course Code		6325		Course Category		Specialized / Compulsory	
Class Format		Lecture		Credits		Academic Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		教科書) 岩田 真著、「電磁気学」森北出版 演習書) 松森徳衛編著、「エレクトロニクスのための電磁気学例題演習」コロナ社					
Instructor		OHMUKAI Masato					
Course Objectives							
評価項目 1 静電界における電荷、電界、電位等を説明でき、それらを計算できる。 評価項目 2 ガウスの定理、ポアソン方程式、電気双極子を説明でき、それらを用いて電界を計算できる。 評価項目 3 導体、誘電体、電束密度を説明でき、電束密度を計算できる。 評価項目 4 静電容量及び誘導係数、容量係数を説明でき、それらを計算できる。 評価項目 5 仮想変位の法および電気映像法を説明でき、これらを用いた計算ができる。 評価項目 6 電流の定義を説明でき、電流を3種類の方法で計算できる。							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1		静電界における電荷、電界、電位等を説明でき、それらの応用計算ができる。		静電界における電荷、電界、電位等を説明でき、それらを計算できる。		静電界における電荷、電界、電位等を説明できず、それらを計算できない。	
評価項目2		ガウスの定理、ポアソン方程式、電気双極子を説明でき、各種法則を用いて電場の応用計算ができる。		ガウスの定理、ポアソン方程式、電気双極子を説明でき、各種法則を用いて電場の計算ができる。		ガウスの定理、ポアソン方程式、電気双極子を説明できず、各種法則を用いて電場の計算ができない。	
評価項目3		導体、誘電体、電束密度を説明でき、電束密度の応用計算ができる。		導体、誘電体、電束密度を説明でき、電束密度の計算ができる。		導体、誘電体、電束密度を説明できず、電束密度の計算ができない。	
評価項目4		静電容量及び誘導係数、容量係数を説明でき、それらの応用計算ができる。		静電容量及び誘導係数、容量係数を説明でき、それらの計算ができる。		静電容量及び誘導係数、容量係数を説明できず、それらの計算ができない。	
評価項目 5		仮想変位の法および電気映像法を説明でき、これらを用いた応用計算ができる。		仮想変位の法および電気映像法を説明でき、これらを用いた計算ができる。		仮想変位の法および電気映像法を説明できず、これらを用いた計算ができない。	
評価項目 6		電流の定義を説明でき、電流を3種類の方法で応用計算ができる。		電流の定義を説明でき、電流を3種類の方法で計算できる。		電流の定義を説明できず、電流を3種類の方法で計算できない。	
Assigned Department Objectives							
Teaching Method							
Outline		電気回路IIと並んで非常に重要で、電気電子分野の基礎である電気磁気学のうち静電気学に関する部分を学ぶ。予習復習のための課題が課せられる。					
Style		講義形式により重要な概念の解説を行い、より深く理解するために、周囲とのコミュニケーションを交えた自習をおこなう。最後には小テストを行い理解度チェックを実施する。宿題は自力で調べながら学習するもので、試験範囲にも入る。					
Notice		本科目は、授業で保証する学習時間と、予習・復習及び宿題作成に必要な標準的な自己学習時間の総計が、90時間に相当する学習内容である。毎回出される宿題は必ず期限までに提出すること。評価の対象としない欠席条件（割合）>1/3以上					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester r	3rd Quarter	1st	電荷とクーロンの法則と電界		電荷とクーロンの法則と電界の概念を理解し、電界を計算することができる。		
		2nd	電気力線と電位		電気力線と電位の概念を理解し、電界と電位の関係式を示すことができる。		
		3rd	ガウスの法則の積分形と微分形		ガウスの法則の積分形の概念を理解し微分形を導出できる。また電界の発散を計算できる。		
		4th	ラプラス及びポアソンの方程式		ポアソンの方程式とラプラスの方程式の概念を理解して記述することができる。導体に関連してガウスの法則から電位を求めることができる。		
		5th	確認テスト		60点以上を取ることができる。		
		6th	電気双極子と電気二重層		電気双極子における電位の計算ができる。		
		7th	コンデンサと静電容量		コンデンサの静電容量の性質について理解し、電荷、静電容量、電圧を用いた計算ができるようになる。		
		8th	分極現象と誘電率、電束密度		分極した誘電体中の電界について理解し、誘電率と電束密度の概念を理解する。		
	4th Quarter	9th	境界条件とコンデンサの静電容量		誘電体の境界における条件を知り、複数種類の誘電体を用いたコンデンサの静電容量を計算できる。		
		10th	確認テスト		60点以上取ることができる。		
		11th	静電エネルギー		静電エネルギーの概念を理解し、計算できる。		
		12th	仮想変位の考え方		仮想変位の考え方を用いてコンデンサにおける力の計算ができる。		



		13th	鏡像法	鏡像法によって電荷にかかる力と導体における電荷密度を計算できる。
		14th	電流	電流の基礎概念を理解する。
		15th	確認テスト	6 0 点以上を取ることができる。
		16th		
Evaluation Method and Weight (%)				
		試験	平常点	Total
Subtotal		50	50	100
基礎的能力		0	0	0
専門的能力		50	50	100
分野横断的能力		0	0	0

Akashi College		Year	2024		Course Title	Circuit Theory A
Course Information						
Course Code	6326		Course Category	Specialized / Compulsory		
Class Format	Lecture		Credits	School Credit: 1		
Department	Electrical and Computer Engineering		Student Grade	3rd		
Term	First Semester		Classes per Week	2		
Textbook and/or Teaching Materials	Although textbooks are not used, it is recommended to bring a reference book on electric circuits. In addition, materials will be distributed as necessary.					
Instructor	HOSOKAWA Atsuishi					
Course Objectives						
1) Understand and can use various theorems related to circuit analysis to analyze AC circuits. 2) Understand resonant circuits and mutual inductance circuits and can analyze them. 3) Understand reactance one-port circuits and can design the Foster circuit and Cauer circuit.						
Rubric						
		Ideal Level	Standard Level		Unacceptable Level	
Achievement 1		Understand and can use various theorems related to circuit analysis to analyze various AC circuits.	Understand and can use various theorems related to circuit analysis to analyze AC circuits.		Do not understand various theorems related to circuit analysis.	
Achievement 2		Can analyze various resonant circuits and mutual inductance circuits.	Understand resonant circuits and mutual inductance circuits and can analyze them.		Do not understand resonant circuits and mutual inductance circuits.	
Achievement 3		Understand reactance one-port circuits and can design the Foster circuit and Cauer circuit.	Understand reactance one-port circuits and can design the Foster circuit and Cauer circuit.		Do not understand reactance one-port circuits.	
Assigned Department Objectives						
Teaching Method						
Outline	Following Electric Circuits II in the second year, the aim of this course is to make sure students thoroughly master the basics of electrical circuits through lectures and problem exercises. The course is also intended to make sure students learn the basic ways of thinking as an electrical and electronics technician.					
Style	The class will be carried out using slides and explaining the content. Students will do exercises every two or three classes, and in the week when they do not, they will be given a report assignment to improve their understanding.					
Notice	Students should review after the weekly lessons, and ask questions during the next class. Also, they should solve a lot of exercise problems. Students who miss 1/4 or more of classes will not be eligible for a grade evaluation.					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	AC circuits	Can analyze ACs circuit using the vector notation.		
		2nd	Loop analysis and nodal analysis	Can analyze circuits using the loop analysis and nodal analysis.		
		3rd	Phasor diagrams	Can draw phasor diagrams for impedance and admittance.		
		4th	Problem exercise	Understand the content of weeks 1 to 3 of the first semester, and can analyze AC circuits and draw phasor diagrams.		
		5th	Superposition theorem, Millman's theorem, compensation theorem	Can use the superposition theorem, Millman's theorem, compensation theorem, etc. to analyze circuits.		
		6th	Thévenin's theorem and Norton's theorem	Can use the Thévenin's theorem and Norton's theorem to analyze circuits.		
		7th	Problem exercise	Understand the content of weeks 5 and 6 of the first semester, and can analyze AC circuits using various theorems.		
		8th	Midterm exam	Understand the content of weeks 1 to 7 of the first semester, and can analyze various AC circuits.		
	2nd Quarter	9th	Resonant circuits	Understand the resonance phenomena and series and parallel resonant circuits.		
		10th	Mutual inductance circuits	Understand the coupling of circuits using mutual inductance and mutual inductance circuits.		
		11th	Problem exercise	Understand the content of weeks 9 and 10 of the first semester, and can analyze resonant circuits and mutual inductance circuits.		
		12th	Reactance one-port circuits	Understand reactance one-port circuits composed of inductance and capacitance.		
		13th	Foster circuits	Can design a Foster circuit composed of resonant circuits.		

		14th	Cauer circuits	Can design a Cauer circuit composed of ladder circuits.
		15th	Problem exercise	Understand the content of weeks 12 to 14 of the first semester, and can analyze reactance circuits.
		16th	Final exam	Understand the content of weeks 9 and 15 of the first semester, and can analyze resonant circuits, mutual inductance circuits, and reactance one-port circuits.

Evaluation Method and Weight (%)			
	Examination	Exercise and Task	Total
Subtotal	70	30	100
Basic Proficiency	0	0	0
Specialized Proficiency	70	30	100
Cross Area Proficiency	0	0	0

Akashi College		Year	2024		Course Title	Circuit Theory B	
Course Information							
Course Code		6327		Course Category		Specialized / Compulsory	
Class Format		Lecture		Credits		School Credit: 1	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		SUYAMA Taikei					
Course Objectives							
1) Can calculate the parameters for a four-terminal network. 2) Understand the Bartlett's bisection theorem and bridge T circuits and can find them. 3) Understand the definition of filters and various constant K filters and can find them.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can calculate the parameters for a four-terminal network.		Can use the parameters for a four-terminal network.		Cannot use the parameters for a four-terminal network.	
Achievement 2		Understand the Bartlett's bisection theorem and bridge T circuits and can design them.		Understand the Bartlett's bisection theorem and bridge T circuits and can use them.		Do not understand the Bartlett's bisection theorem and bridge T circuits.	
Achievement 3		Understand the definition of filters and various constant K filters and can design them.		Understand the definition of filters and various constant K filters and can use them.		Do not understand the definition of filters and various constant K filters.	
Assigned Department Objectives							
Teaching Method							
Outline		Following Electric Circuits II in the second year, the aim of this course is to make sure students thoroughly master the basics of electrical circuits through lectures and problem exercises. The course is also intended to make sure students learn the basic ways of thinking as an electrical and electronics technician. The first semester will be taught by Hosokawa, and second semester by Suyama.					
Style		The class will be carried out by the instructor writing notes on the blackboard and explaining the content. In the first semester, students will do exercises every two or three classes, and in the week when they do not, they will be given a report assignment to improve their understanding. In the second semester, there will be two problem exercises on the class content of the first half of the semester and the second half to deepen their understanding of the content of the lessons.					
Notice		Students should review after the weekly lessons, and ask questions during the next class. Also, they should solve a lot of exercise problems. Students who miss 1/3 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester r	3rd Quarter	1st	Introduction of a four-terminal network, impedance parameters, and admittance parameters		Understand the definition of a four-terminal network, and find the impedance parameters and admittance parameters.		
		2nd	Four-terminal constants		Can find a four-terminal constant.		
		3rd	H parameters and G parameters		Can find the H parameters and G parameters.		
		4th	Shadow parameters		Can find the shadow parameters.		
		5th	Various connections of a four-terminal network		Can find various connections of a four-terminal network.		
		6th	Basic four-terminal circuits and bridge T circuits		Understand basic four-terminal circuits and bridge T circuits and can find them.		
		7th	Problem exercise		Understand the content of weeks 1 to 6, and can find the four-terminal network parameters		
		8th	Bartlett's bisection theorem		Understand the Bartlett's bisection theorem and can find it.		
	4th Quarter	9th	Reactance four-terminal networks		Understand the reactance four-terminal networks.		
		10th	Definition of filters and constant K filters		Understand the definition of filters and constant k filters and can design them.		
		11th	Constant K low pass filters		Understand and can design constant K low pass filters.		
		12th	Constant K high pass filters and SPIECE		Understand and can design constant K high pass filters and SPIECE.		
		13th	Constant K band pass filters		Understand and can design constant K band pass filters.		
		14th	Problem exercise		Understand the content of weeks 9 to 14, and can analyze/design the Bartlett's bisection theorem, reactance four-terminal networks, and filters.		
		15th	Total review		Total review		
		16th	Final exam		Final exam		

Evaluation Method and Weight (%)		
	Examination (prophase) 100%	Total
Subtotal	100	100
Basic Proficiency	20	20
Specialized Proficiency	80	80
Cross Area Proficiency	0	0

Akashi College		Year	2024		Course Title	Introduction to Electrical Engineering	
Course Information							
Course Code	6328			Course Category	Specialized / Compulsory		
Class Format	Lecture			Credits	Academic Credit: 2		
Department	Electrical and Computer Engineering			Student Grade	3rd		
Term	First Semester			Classes per Week	2		
Textbook and/or Teaching Materials							
Instructor	HIROTA Atsushi						
Course Objectives							
1) Ensure understanding of electrical and electronic circuits through review 2) Understand the outline of power generation to power consumption 3) Understand the basics of power conversion circuits							
Rubric							
	Ideal Level			Standard Level		Unacceptable Level	
Achievement 1	Can fully ensure understanding of electrical and electronic circuits through review.			Can ensure understanding of electrical and electronic circuits through review.		Cannot ensure understanding of electrical and electronic circuits through review.	
Achievement 2	Fully understand the power generation to power consumption outline.			Can understand the power generation to power consumption outline.		Do not understand the power generation to power consumption outline.	
Achievement 3	Fully understand the basics of power conversion circuits.			Can understand the basics of power conversion circuits.		Do not understand the basics of power conversion circuits.	
Assigned Department Objectives							
Teaching Method							
Outline	The course will review the electrical subjects learned so far and give introduction for future professional courses. Explanations and introductions of related fields may be made as necessary.						
Style	The classes will mainly be conducted as lectures.						
Notice	Self-study, including pre-study and review is essential for the course, and all assignments are required to be submitted. Makeup exams, etc. may be held for students with outstanding efforts on a daily basis. This course's content will amount to 90 hours of study in total. These hours include class hours, and the standard self-study time required for pre-study / review, and completing assignments. Students who miss 1/3 or more of classes will not be eligible for evaluation.						
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	DC circuits (1)		Can solve basic practice questions of a DC circuit.		
		2nd	DC circuits (2)		Can solve practice questions of a DC circuit.		
		3rd	DC circuits (3)		Can solve practice questions of a DC circuit using directed method.		
		4th	AC circuits (1)		Can solve basic practice questions on an AC circuit.		
		5th	AC circuits (2)		Can solve practice questions on an AC circuit.		
		6th	AC circuits (3)		Understand three-phase interaction.		
		7th	Resonant circuits		Understand resonance phenomena.		
		8th	Review		Understand the contents of the first half through exams or exercises		
	2nd Quarter	9th	Electrical equipment (1)		Understand the basics of transformers.		
		10th	Electrical equipment (2)		Understand the basics of inducers and synchronizer.		
		11th	Semiconductor devices		Understand the basic characteristics of semiconductor switch elements.		
		12th	Power conversion circuits (1)		Understand the basic power conversion circuitry.		
		13th	Power conversion circuits (2)		Understand the characteristics of basic power conversion circuits.		
		14th	Electric Power		Understand the basics of substations and the basics of power systems.		
		15th	Summary		Can summarize and organize what they have learned.		
		16th	Final exam				
Evaluation Method and Weight (%)							
	Examination	Exercise, Report	Mutual Evaluations between students	Efforts	Portfolio	Other	Total
Subtotal	40	40	0	20	0	0	100

Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	40	40	0	20	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2024		Course Title	Introduction to Computer Engineering	
Course Information							
Course Code		6329		Course Category		Specialized / Compulsory	
Class Format		Lecture		Credits		Academic Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials							
Instructor		TSUCHIDA Takayuki					
Course Objectives							
1) Understand the concept of protocol layering in information and communication networks. Understand basic and standard technologies and can put them into practice. 2) Understand threats people encounter in engineering and daily activities specific to the information society and the countermeasures against them.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Fully understand the concept of hierarchy, and practice basic and standard techniques regarding the communication networks.		Understand the concept of hierarchy, and practice basic and standard techniques regarding the communication networks.		Cannot understand the concept of hierarchy, and practice basic and standard techniques regarding the communication networks.	
Achievement 2		Fully understand the concept of digital images, fully understand basic image processing technology, and practice it.		Understand the concept of digital images, understand basic image processing technology, and practice it.		Cannot understand the concept of digital images, cannot understand basic image processing technology, and practice it.	
Assigned Department Objectives							
Teaching Method							
Outline		Lectures will be given on networks and security, which are important positions in information engineering among various fields of information engineering. The lectures will be conducted by a teacher who engaged in the research and development of middleware (database) at Hitachi, Ltd. Research & Development Headquarters for five years.					
Style		Classes will be held in a lecture style. Exercises will be given to deepen understanding.					
Notice		This course will provide the basics of advanced information-based subjects, therefore students must work it on actively. This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review. Students who miss 1/3 or more of classes will not be eligible for a passing grade.					
Characteristics of Class / Division in Learning							
<input checked="" type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input checked="" type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Class guidance, Internet history, OSI Basic Reference Model and TCP/IP		Can explain the OSI Basic Reference Model.		
		2nd	Network Interface Layer (Data Link), and LAN		Can explain the Network Interface Layer (Data Link), and LAN		
		3rd	Internet Layer (Network), and IPv4/v6		Can explain the Internet Layer (Network), and IPv4/v6		
		4th	L3 Routing		Can explain the L3 Routing		
		5th	L4 Transport Layer, and TCP/UDP		Can explain the L4 Transport Layer, and TCP/UDP		
		6th	L7 Application Layer		Can explain the L7 Application Layer		
		7th	Explanation of the midterm exam, information security(concept)		Can explain the concept of information security. Can explain the major threats to information security.		
		8th	Midterm exam.		Midterm exam.		
	4th Quarter	9th	Cryptography (1)		Can explain the history of cryptography and current ciphers.		
		10th	Cryptography (2)		Can explain digital signatures, PKI, SSL, etc. as applications using cryptography and hash functions.		
		11th	Deep learning(1)		Can explain the basic concept of deep learning.		
		12th	Deep learning(2)		Can explain the concept of deep learning.		
		13th	Deep learning(3)		Learn about implementing deep learning through the use of sample codes		
		14th	Machine learning(1)		Can explain the basic concept of machine learning.		
		15th	Machine learning(2)		Can explain the concept of machine learning.		
		16th	Final exam.		Final exam.		
Evaluation Method and Weight (%)							



	Examination	Little test	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	80	0	0	0	20	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	80	0	0	0	20	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2024		Course Title	Digital Circuits A
Course Information						
Course Code	6330		Course Category	Specialized / Compulsory		
Class Format	Lecture		Credits	School Credit: 1		
Department	Electrical and Computer Engineering		Student Grade	3rd		
Term	First Semester		Classes per Week	2		
Textbook and/or Teaching Materials	Keitaro Hori: 「Zukai Ronrikairo Nyuumon」 , Morikita-Shuppan					
Instructor	HOSOKAWA Atsuishi					
Course Objectives						
(1) Understand the basic matters of logic circuits. (2) Understand combination circuits. (3) Understand basic of sequential circuits.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Fully understand the basic matters of logic circuits.		Understand the basic matters of logic circuits.		Do not understand the basic matters of logic circuits.	
Achievement 2	Fully understand combination circuits.		Understand combination circuits.		Do not understand combination circuits.	
Achievement 3	Fully understand basic of sequential circuits.		Understand basic of sequential circuits.		Do not understand basic of sequential circuits.	
Assigned Department Objectives						
Teaching Method						
Outline	The aim of this course is to understand the basic configuration and operating principles of arithmetic circuits, flip-flop circuits, counter circuits, etc., based on the Boolean algebra. Classes also involve exercises so that students can design appropriate circuits on their own.					
Style	Classes will be held in a lecture style, mainly by explaining content following the textbook. As necessary, students will work on exercises and design assignments. Nakajima will teach in the first semester, and Hoshino in the second. Tsuchida is the liaison.					
Notice	Students are required to learn in an active manner so they can design circuits themselves. If possible, they should construct the circuit they designed and study its operation. Students who miss 1/4 or more of classes will not be eligible for a grade evaluation.					
Characteristics of Class / Division in Learning						
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester	1st Quarter	1st	Binary numbers and Basics for radix conversions		Can explain binary numbers and Basics for radix conversions.	
		2nd	Radix conversions and Basics for Logical operations		Can explain radix conversions and Basics for logical operations.	
		3rd	Logical operations and Venn diagrams		Can explain logical operations and Venn diagrams.	
		4th	Basics for the Boolean algebra		Can explain the basics of Boolean algebra.	
		5th	Logical expressions and the Karnaugh map		Can explain logical expressions and the Karnaugh map.	
		6th	Karnaugh map exercises		Can simplify a logical expression using the Karnaugh map.	
		7th	Quine–McCluskey algorithm		Can explain the Quine–McCluskey algorithm	
		8th	Basics of logic circuit design		Can explain the basics of logic circuit design.	
	2nd Quarter	9th	Midterm exam		Midterm exam	
		10th	Basics of gate circuits		Can explain the basics of gate circuits.	
		11th	Basics of digital ICs		Can explain the basics of digital ICs.	
		12th	Combination circuits 1 (e.g. how to design an adder circuit)		Can explain combination circuits (e.g. how to design an adder circuit).	
		13th	Combination circuits 2 (e.g. how to design a data converter circuit)		Can explain combination circuits (e.g. how to design a data converter circuit).	
		14th	Combination circuits 3 (e.g. how to design a data selector circuit)		Can explain combination circuits (e.g. how to design a data selector circuit).	
		15th	Flip-flops 1 (e.g. basic of FFs, operating principles and characteristic equation of RS-FF and JK-FF)		Can explain flip-flops (e.g. basic of FFs, operating principles and characteristic equation of RS-FF and JK-FF).	
		16th	Final exam			
Evaluation Method and Weight (%)						
	Examination		Exercise and Task		Total	
Subtotal	70		30		100	
Basic Proficiency	0		0		0	
Specialized Proficiency	70		30		100	

Cross Area Proficiency	0	0	0
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Akashi College		Year	2024		Course Title	Digital Circuits B
Course Information						
Course Code	6331			Course Category	Specialized / Compulsory	
Class Format	Lecture			Credits	School Credit: 1	
Department	Electrical and Computer Engineering			Student Grade	3rd	
Term	Second Semester			Classes per Week	2	
Textbook and/or Teaching Materials	堀桂太郎：「図解論理回路入門」森北出版					
Instructor	OHMUKAI Masato					
Course Objectives						
フリップフロップ回路の動作を理解し、それを用いた各種回路の動作についてタイミングチャートを用いて確認することができる。順序回路の設計ができる。AD変換回路とDA変換回路の原理と特徴を理解できる。						
Rubric						
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安
評価項目1		フリップフロップ回路の動作を十分に理解できる		フリップフロップ回路の動作を理解できる		フリップフロップ回路の動作を理解できない
評価項目2		順序回路の概念を十分に理解できる		順序回路の概念を理解できる		順序回路の概念を理解できない
評価項目3		DA変換回路とAD変換回路の各種類の原理と特徴を十分理解できる		DA変換回路とAD変換回路の各種類の原理と特徴を理解できる		DA変換回路とAD変換回路の各種類の原理と特徴を理解できない
Assigned Department Objectives						
Teaching Method						
Outline	論理回路の知識を基礎とし、各種フリップフロップ回路を解説し、これとロジックを用いて順序回路を設計する手法を身に着ける。さらに、ロジックを用いた3種のマルチバイブレータの回路、シュミット回路の動作を解説し、DA変換回路とAD変換回路の各種を紹介する。					
Style	講義形式により重要な概念の解説を行い、より深く理解するために、周囲とのコミュニケーションを交えた自習をおこなう。最後には小テストを行い理解度チェックを実施する。					
Notice	評価の対象としない欠席条件（割合）>1/3以上					
Characteristics of Class / Division in Learning						
<input checked="" type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester	3rd Quarter	1st	論理素子（ロジック）の基礎	基礎のロジックの動作を理解する		
		2nd	組み合わせ回路の設計法とRSFF、JKFF	組み合わせ回路の設計ができ、RSFFとJKFFの動作と種類を理解する		
		3rd	NANDで構成したDFFの動作	DFFの特性表を書くことができ、タイミングチャートで動作を記述できる。		
		4th	シフトレジスタとリングカウンタ、TFFと分周回路、ジョンソンカウンタ	JKFFの特性表を書くことができ、TFF、シフトレジスタ、分周回路、ジョンソンカウンタのタイミングチャートで動作を記述できる。		
		5th	確認テスト	60点以上を取得する。		
		6th	FFの補足事項と機能変換	励起表を書くことによりあるFFを別のFFで構成する回路を設計することができる。		
		7th	非同期式カウンタと同期式カウンタ	TFFを用いて非同期式カウンタと同期式カウンタの動作原理を理解し、カウンタの設計できる。		
		8th	順序回路の設計法	順序回路の概念を理解し、状態遷移図と状態遷移表を作り、順序回路が設計できるようになる。		
	4th Quarter	9th	順序回路の設計法の実例	順序回路の設計を重ねて、順序回路が設計できるようになる。		
		10th	確認テスト	60点以上を取得する。		
		11th	ロジックによる非安定マルチバイブレータの動作と双安定マルチバイブレータ	非安定マルチバイブレータの動作が理解できる。		
		12th	単安定マルチバイブレータとシュミット回路の動作原理	単安定マルチバイブレータとシュミット回路の動作が理解できる。		
		13th	OPアンプの基礎、重み抵抗型DA変換回路、はしご型DA変換回路	2種類のDA変換回路についてその回路を判別することができ、その動作を理解する。		
		14th	AD変換回路の各種ー並列比較型、逐次比較型、追従比較型、2重積分型の原理と特徴	4種類のAD変換回路の原理と特徴を説明できる。		
		15th	確認テスト	60点以上を取得する。		
		16th				
Evaluation Method and Weight (%)						
		試験		平常点		Total
Subtotal		50		50		100
基礎的能力		0		0		0
専門的能力		50		50		100
分野横断的能力		0		0		0

Akashi College		Year	2024		Course Title	Experiments of Electrical and Computer Engineering II A	
Course Information							
Course Code		6332		Course Category		Specialized / Compulsory	
Class Format		Experiment		Credits		School Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		First Semester		Classes per Week		4	
Textbook and/or Teaching Materials		For each experiment theme, materials will be distributed in print and explained.					
Instructor		SUYAMA Taikei,HOSOKAWA Atsuishi,HIROTA Atsushi,					
Course Objectives							
1) Can conduct experiments using experimental equipment. 2) Can organize the results of experiments and analyze them so they can be understood from an engineering perspective. 3) Can write up reports about experiments and submit them on time.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can carry out experiments efficiently and accurately.		Can carry out experiments.		Cannot carry out experiments.	
Achievement 2		Can organize the experimental results and analyze them in depth.		Can organize and analyze experimental results.		Cannot organize and analyze experimental results.	
Achievement 3		Can write up detailed experimental reports and submit them on time.		Can write up experimental reports and submit them on time.		Cannot write up experimental reports and submit them on time.	
Assigned Department Objectives							
Teaching Method							
Outline		The aim of this course is to gain a better understanding of electrical information engineering experiments and the ability to learn actively through experiments. Students are expected to develop a habit of using the equipment correctly and organizing the laboratory. Several faculty members will be in charge of multiple experimental themes.					
Style		Students will split into groups of 3-5 people, and each group will perform experiments on each theme, and organize and analyze the obtained data. Also, they will write up reports and receive individual guidance.					
Notice		If all reports have not been received by the due date, students will not receive a passing grade. Students must clean the lab and put away the equipment properly. Precautions regarding the experiments will be given during the first week of the first and second semesters. Students who do not perform all experiments will not be eligible for a grade evaluation. In addition, students who fail to submit reports will not achieve a passing grade.					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	Experiment guidance		Understand the outline and precautions regarding the previous experiment.		
		2nd	Logic trainers I		Can identify the operation of basic logic circuits using a logic trainer.		
		3rd	Report organization		Can write up reports based on experimental data.		
		4th	Thermocouples		Can measure thermal power in experiments.		
		5th	Report organization		Can write up reports based on experimental data.		
		6th	Measuring techniques for AC circuits		Can correctly measure an AC circuit.		
		7th	Report organization		Can write up reports based on experimental data.		
		8th	Series resonance		Can measure the voltage of each element of the RLC series and experimentally examine resonance phenomena.		
	2nd Quarter	9th	Report organization		Can write up reports based on experimental data.		
		10th	Digital Oscilloscopes and Waveform Processing		Can perform waveform observation and Fourier series deployment calculations using a digital oscilloscope.		
		11th	Report organization		Can write up reports based on experimental data.		
		12th	Phototransistor		Can understand the properties of phototransistors.		
		13th	Report organization		Can write up reports based on experimental data.		
		14th	Raspberry Pi		Can use the Raspberry Pi for a project.		
		15th	Organizing and organizing experiments		All reports from the previous quarter can be submitted together.		
		16th	No final exam		None		
Evaluation Method and Weight (%)							

	Examination	Report	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	80	0	20	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	80	0	20	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Akashi College		Year	2024		Course Title	Experiments of Electrical and Computer Engineering II B	
Course Information							
Course Code		6333		Course Category		Specialized / Compulsory	
Class Format		Experiment		Credits		School Credit: 2	
Department		Electrical and Computer Engineering		Student Grade		3rd	
Term		Second Semester		Classes per Week		4	
Textbook and/or Teaching Materials							
Instructor		SUYAMA Taikei,HIROTA Atsushi,					
Course Objectives							
1) Can conduct experiments using experimental equipment. 2) Can organize the results of experiments and analyze them so they can be understood from an engineering perspective. 3) Can write up reports about experiments and submit them on time.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Can carry out experiments efficiently and accurately.		Can carry out experiments.		Cannot carry out experiments.	
Achievement 2		Can organize the experimental results and analyze them in depth.		Can organize and analyze experimental results.		Cannot organize and analyze experimental results.	
Achievement 3		Can write up detailed experimental reports and submit them on time.		Can write up experimental reports and submit them on time.		Cannot write up experimental reports and submit them on time.	
Assigned Department Objectives							
Teaching Method							
Outline		The aim of this course is to gain a better understanding of electrical information engineering experiments and the ability to learn actively through experiments. Students are expected to develop a habit of using the equipment correctly and organizing the laboratory. Several faculty members will be in charge of multiple experimental themes with Suyama,Hirota, and Enomoto in the second semester. The experiments for weeks 13 and 14 of the second semester will be conducted by a faculty member who engaged in the research and development of middleware (database) at Hitachi, Ltd. Research & Development Headquarters for five years.					
Style		Students will split into groups of 4 or 5 people, and each group will perform experiments on each theme, and organize and analyze the obtained data. Also, they will write up reports and receive individual guidance.					
Notice		If all reports have not been received by the due date, students will not receive a passing grade. Students must clean the lab and put away the equipment properly. Precautions regarding the experiments will be given during the first week of the first and second semesters. Students who fail to submit reports will not receive a passing grade.					
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input checked="" type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Experiment guidance		Can understand the outline and precautions for second semester experiments.		
		2nd	Characteristics of FETs		Can measure the basic characteristics of FETs.		
		3rd	Dynamic characteristics of FETs		Can measure the dynamic characteristics of a FET amplifier circuit.		
		4th	Report organization		Can write up reports based on experimental data by the due date.		
		5th	Characteristics of natural energy generation		Can experimentally examine current voltage and output characteristics of natural energy generation .		
		6th	Report organization		Can write up reports based on experimental data.		
		7th	No load test of a direct current electric motor		Can test the unloaded characteristics of a direct current electric motor.		
		8th	Report organization		Can write up reports based on experimental data.		
	4th Quarter	9th	Direct current generator load test		Can examine the load characteristics of a direct current generator.		
		10th	Report organization		Can write up reports based on experimental data.		
		11th	Basic characteristics of an operational amplifier		Can examine the frequency characteristics of an inverted amplifier using an oscilloscope.		
		12th	Report organization		Can write up reports based on experimental data.		
		13th	The efficiency of sorting algorithms (1)		Can examine the efficiency of the sorting algorithms.		
		14th	The efficiency of the sorting algorithms (2)		Can examine the efficiency of the sorting algorithms.		
		15th	Experiment Summary and Organization		Can submit all reports all together at once.		
		16th	No final exam		None		
Evaluation Method and Weight (%)							

	Examination	Report	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	80	0	20	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	80	0	20	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0