Anan College	Advanced Course of Creative Technology System Engineering	Year	2024

## Department Goals

			·											-	•				
	irc					Class	s Hours p	ber Weel	<						Divisio				
e	IS	Course Title	Cours	Credit	Credit	Adv.	1st Y			Adv.	2nd Y			Instru	n in				
Cat	eg		Code	Туре	S	1st		2nd		1st		2nd		ctor	Learni				
						1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		ng				
	Со													Christ					
Ge	m	English	5116A	Acade	2	2			1		1			opher					
ral	lso	Communication	01	Credit	2									Prowa					
	ry																		
6	Co			Acado															
ne	pu	Engineering Ethics	5116B	mic	2	2								Fujii					
ral	lso			Credit				•				•	•						
	iy ⊑i																		
Ge	ec	Biological Science	5196B	Acade	2			2						Ota					
ral	tiv	biological Science	03	Credit	2		I	2						mo					
Sn	0				1									+					
eci	m	Safety and Health	5916F	Acade		Acade	F Acade	Acade						_				Taga ∃lmi	
ali	pu	Engineering	01	mic Credit	2	2								Takan					
d	ry	_		Credit										ori					
Sp	Co																		
ali	m pu	Environmental Policy	5916F	Acade	2	2								Hirovu					
ze	lso		02	Credit	-	<u> </u>	2				Į		_	ki					
d	ry																		
Sp	Со													ori					
eci	m		5916F	Acade mic Credit										Yasuhi					
ali ze	pu Iso	Mathematical Analysis	03		2	2								hida					
d	ry													Masah					
														Zhong					
Sn	6													Tao,Y					
eci	m	Creative Technology	50160	Acade				-		-		-	-	asuno					
ali	pu	System Eng. Special	01	mic Credit	6	6		6						Okam					
d	ry			Credit										oto					
														ki					
														Nishin					
														0 Seiichi					
														,Koma					
														Minoru					
														,Fujiha					
														ra Takes					
														hi,Fuk					
														Koji,F					
Cn.	<b>C</b>													ukumi Y					
eci	m	Practice for Croative	50167	Acade										oshida					
ali	pu	Design Technology	01	mic Crodit	2	4													
d	ry			Cieuit										ng					
														Tao,Y					
														ura					
														Hirosh					
														Takas					
														Ini,Ued					
														Kohei,					
														oto					
														Hiroyu					
														KI					

Sp eci ali ze d	Co m pu Iso ry	複合領域ゼミナール	5916T 02	Acade mic Credit	2	2	Okam oto Hiroyu ki,Nak amura Yuichi, Nishim oto Koji,Y asuno Emiko, Zheng Tao,In oue Takafu mi
Sp eci ali ze d	Co m pu Iso ry	Information Processing Exercise	5916T 03	Acade mic Credit	1	2	Tanak a Tatsuji
Sp eci ali ze d	El ec tiv e	Theory of Linear Algebra	5996F 01	Acade mic Credit	2	2	Sugino Ryuza buro
Sp eci ali ze d	El ec tiv e	Statistical Thermodynamics	5996F 02	Acade mic Credit	2	2	Matsu o Toshih iro
Sp eci ali ze d	El ec tiv e	Advanced Environmental Technology	5996F 04	Acade mic Credit	2	2	Kage masa Shuka ,Osad a Kengo
Sp eci ali ze d	El ec tiv e	Internship 1	5996K 01	Acade mic Credit	1		Yasun o Emiko, Zheng Tao
Sp eci ali ze d	El ec tiv e	Internship 2	5996K 02	Acade mic Credit	2	2 2	Yasun o Emiko, Zheng Tao
Sp eci ali ze d	El ec tiv e	Internship 3	5996K 03	Acade mic Credit	3	3 3	Yasun o Emiko, Zheng Tao
Sp eci ali ze d	El ec tiv e	Internship 4	5996K 04	Acade mic Credit	4	4 4	Yasun o Emiko, Zheng Tao
Ge ne ral	Co m pu Iso ry	English Reading	5117A 02	Acade mic Credit	2	2	Christ opher Prowa nt
Ge ne ral	Co m pu Iso ry	Comparative Cultuology	5117B 02	Acade mic Credit	2	2	Fujii Taketo
Ge ne ral	El ec tiv e	Language and Literature	5197A 03	Acade mic Credit	2		Nishik ori Hirofu mi
Sp eci ali ze d	Co m pu Iso ry	Creative Technology System Eng. Special Research 2	5917G 01	Acade mic Credit	10	5 5	Okam oto Hiroyu ki,Nak amura Yuichi, Nishim oto Koji,Y asuno Emiko, Zheng Tao,In oue Takafu mi

Sp eci ali ze d	Co m pu Iso ry	Creative Technology Seminar	5917T 01	Acade mic Credit	1	2	Okam oto Hiroyu ki,Nish Koji,K ozai Takan ori,Ka mano Masar u,Ota Kengo ,Naka Mura Atsu,K ozai Takan oti,Ka Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Takan ozai Taka Takan ozai Taka Takan ozai Taka Taka Takan ozai Takan ozai Taka Taka Takan ozai Takan ozai Taka Taka Taka Taka Taka Taka Taka Ta	
Sp eci ali ze d	Co m pu Iso ry	Practice for Creative Technology	5917T 02	Acade mic Credit	2		Naka mura Yuichi, Nishim oto Koji,O kamot o Hiroyu ki	
Sp eci ali ze d	El ec tiv e	Advanced Physics	5997F 05	Acade mic Credit	2	2	Sonod a Akihik o	
Sp eci ali ze d	El ec tiv e	Applied Analysis	5997F 06	Acade mic Credit	2		Sugino Ryuza buro	

	Anan Co	llege	Year	2024		Cou	urse tle	English Communication	
Course	Informa	tion					•		
Course Co	ode	5116A01			Course Catego	ry G	eneral /	Compulsory	
Class Forr	mat	Lecture			Credits	A	cademic	Credit: 2	
Departme	ent	Advanced System Ei	Course of Creat	ive Technology	Student Grade	A	dv. 1st		
Term		First Sem	ester		Classes per We	eek 前	)期:2		
Textbook Teaching	and/or Materials	Presentati	ons Textbook						
Instructor	r	Christoph	er Prowant						
Course	Objectiv	es							
This cours ended lec comprehe	se focuses ture forma ension activ	on Presenta at. Knowledg vities are als	tions and provid e of English voca o utilized in orde	es critical thinking abulary, expressio r to continue deve	opportunities w ns and gramma eloping conversa	vhich ena ir is applie ation fluei	ble stud ed to rea ncy.	ents to practice using an open- al life situations. Composition and	
Rubric			Γ		1				
			Ideal Level of A (Very Good)	Achievement	Standard Level (Good)	l of Achie	vement	Unacceptable Level of Achievement (Fail)	
Evaluation	n 1		Students are a smoothly with the native teac	ble to converse one another and her.	Students can a or make a com words and spe- group.	inswer a o iment in a ak freely	question a few in a	Students cannot understand the majority of exercises and activities and cannot speak easily.	
Evaluation 2			Students speak directly and uti thinking skills i	their opinions lize critical n English.	Students can a majority of que attentively and clearly.	inswer the estions, lis l write the	e sten eir ideas	Students remain passive, do not express themselves and cannot comprehend the lecture	
Evaluation 3 Assigned Department O			Students can ta in English and ideas clearly ar	ake notes entirely can present their nd concisely.	Students can ta Japanese and o idea of the lect details.	ake notes grasp the cure but n	s in main not the	Students can take notes in Japanese and do not understand the majority of the lecture.	
Assigne	d Depar	tment Obj	ectives						
Teachin	Teaching Method								
Outline	Dutline This course focuses on listening and speaking skills for giving presentations in English. Critical thinking opportunities aid students in processing new information and the application of that knowledge is related to real life situations through dialogue practice. Composition and comprehension activities are also utilized to make the most of their skills.								
Style		1. Develo 2. Gain co 3. Improv 4. Engage	o listening skills nfidence in spea e communicatio in cultural awar	and communication king and listening n skills in order to reness and open-r	on strategies usi and perfect cor smoothly engag nindedness to o	ing native mposition ge in conv thers usir	e English writing versation ng cultur	conversation. and critical reading skills. ns with foreign people. ral comparisons.	
Notice		Students Students Students Students	will come to clas using a cellphone will not sleep in t will be enthusias	s prepared. e in class equals o the class. tic and eniov ther	ne tardiness on nselves.	the first	warning		
Charact	eristics of	of Class / I	Division in Le	arning					
				T	Applicable t	o Domoto	Class	☑ Instructor Professionally	
⊠ Active	Learning			1		o Remote	Class	Experienced	
Course	Plan								
			heme			Goals			
		1st C	ourse introduction	on		ideas	ang skill	s, writing key words and main	
		2nd G	reetings to peer oliteness	s in a professional	setting;	Job Hunt for repet	ting exe tition / c	rcise; It's + adj. + infinite; asking larification	
		3rd P	aced and timed	dictation		Forms of	f presen	t tense / review of past tenses	
	1st Quarter	4th R	eading skills: ke	y word recognition	n, main idea;	Distingui	ishing be	etween words with similar	
	Quarter	Eth V	ic. Acabulany quiz b	acad an oversises		Mecabula	js nu Word	d list roviow	
		6th C	ultural Identity (	of foreign countrie	5 5	Purnose	of inter	a list review	
		7th I	ternational area	etinas exercise	5	Listening	1 for ma	in ideas and more nuanced details	
1 of		8th M	lid-Term Exam				<u>, iei iiia</u>		
Semeste		9th T	alking about you	ır skills comprehei	nsion	Understa	anding n	umbers and dates; discussion	
		10th M	letric versus Nor	n-Metric measurer	nents	How to c	convert l	arge numbers or decimal	
2nd Quarter		11th H	obbies and Spor	ts		Modals,	, preposit	ions, discussion topics	
	2nd	12th S	ociology; Presen	tation on club act	ivities /	Suffixes;	Reduct	ion of "be going to" into "gonna"	
	Quarter	13th V	ocabulary Quiz; nd activity	The Science of Sp	orts Discussion	Making r	notes us	ing a word web; synonyms	
		14th S	imple present fo	r informal narrativ	ves; Participle	Simple present-tense third person -s/-es; using			
	1	15th S	ports in our lives	s Grammar activit	ý	Relative Infinitive	, clauses,	Gerunds as subjects or objects /	

	16th I	Final Exam							
Evaluation Method and Weight (%)									
	Examination	Quiz	Assighnments	Presentation	Other		Total		
Subtotal	50	10	25	10	5	0	100		
Basic Ability	50	10	25	10	5	0	100		
Technical Ability	0	0	0	0	0	0	0		
Interdisciplinar y Ability	0	0	0	0	0	0	0		

	Anan Co	llege	Year	2024		Co	ourse Title	Engineering Ethics		
Course	Informa	tion		·		•		•		
Course Co	ode	5116B01			Course Categor	y (	General	/ Compulsory		
Class For	mat	Lecture			Credits	/	Academi	c Credit: 2		
Departme	ent	Advanced System E	d Course of Crea	ative Technology	Student Grade	/	Adv. 1st			
Term		First Serr	nester		Classes per We	ek ī	前期:2			
Textbook Teaching	and/or Materials	[Textboo Universit	ks] Engineering y Press)	Ethics for Beginne	rs, 4th Edition. [	Referen	ce book	] Be a Proud Engineer (Nagoya		
Instructor	r	Fujii Take	eto							
Course	Objectiv	res								
1. Cultiva 2. Able to solutions 3. Able to future.	te a sense deepen o to those p practice t	e of ethics to ne's awarer roblems. the basics of	contribute to s less of the prob how to continu	ociety as an engine lems demanded by Iously learn special	eer and be aware society through ized knowledge a	e of one' case str as an en	's own re udies an Igineer e	esponsibilities. d discussions, and think of engaged in "manufacturing" in the		
Rubric										
			Ideal Level		Standard Level			Minimum Level		
Achievem	nent 1		Able to be ful responsibilitie in society, an about one's o ethics.	ly aware of one's is as an engineer d explain in detail wn sense of	Able to be aware of one's responsibilities as an engineer in society, and explain in detail about one's own sense of ethics.			Able to be aware of one's responsibilities as an engineer in society, and explain to some extent about one's own sense of ethics.		
Achievem	ient 2		Able to come unique solutio demanded by beneficial.	up with one's own ons to problems v society that are	Able to come u solutions to pro demanded by s	p with u blems society.	useful	Able to understand general beneficial solutions to problems demanded by society.		
Achievem	ient 3		Able to practi methods of co professional k as a engineer	ce different ontinuing knowledge learning	Able to practice continuing profi knowledge lear engineer.	e one me essional ning as	ethod fo l a	r Able to understand the general methods for continuing professional learning as an engineer.		
Assigne	Assigned Department Objectives									
Teachin	Teaching Method									
Outline		Ethics is order to engineers engineers	not something t determine the li s. In this lecture s in the future b	that can be impose the between right a e, we aim to cultiva by examining ethica	d by others, but ind wrong. The s ite the sense of e il issues raised by	somethi ame is t ethics ne y specifi	ing that true for ecessary ic cases.	one must consider for oneself in those of you who aspire to become to contribute to society as		
Style		The case and discu Since this post-lear [Class tin	study reports v ission will be co s course is a cre ning activities. ne: 30 hours +	vill be assigned to s inducted for each c edit course, student Self-study: 60 hou	students who will ase study. s will be required rs]	l be cho d to writ	sen in a te report	dvance. In addition, a small report ts and impressions as pre- and		
Notice		The orde	r of the syllabus studies and dis	s may change back cussions will be co	and forth depen nducted online.	ding on	the ord	er of the case study reports.		
Charact	eristics	of Class /	Division in L	earning						
☑ Active	Learning		Aided by I	ICT	☑ Applicable to	o Remot	te Class	Instructor Professionally Experienced		
								· ·		
Course	Plan									
		-	Theme			Goals				
		1st I	Engineers and E	thics		Able to ethics r	summa necessar	rize one's opinion on the outline of y as an engineer in society.		
		2nd I	Engineers and E	thics		Able to ethics r	summa necessar	rize one's opinion on the outline of y as an engineer in society.		
		3rd I	Engineers and E	thics		Able to ethics r	summa necessar	rize one's opinion on the outline of y as an engineer in society.		
	1st	4th I	Engineers and C	Code of Ethics		Able to regardi	discuss ng engir	the outline of a code of ethics neers, through case studies.		
	Quarter	5th I	Engineers and C	Code of Ethics		Able to regardi	discuss ng engir	the outline of a code of ethics neers, through case studies.		
1st Semeste		6th I	Engineers and S	Safety		Able to enginee	explain ers, thro	safety considerations for ugh case studies.		
r		7th I	Engineers and S	Safety		Able to enginee	explain ers, thro	safety considerations for ugh case studies.		
		8th I	Engineers and t	he Environment		Able to that en case stu	conside gineers udies on	r the environmental considerations should take into account, through environmental pollution accidents.		
	and	9th I	Engineers and t	he Environment		Able to that en case stu	conside gineers udies on	r the environmental considerations should take into account, through environmental pollution accidents.		
	Quarter	10th I	Engineers and C	Consumers		Able to consum	e to consider engineer's responsibility to sumers, through case studies.			
		11th I	Engineers and C	Consumers		Able to consum	conside ners, thr	r engineer's responsibility to ough case studies.		

		12th	Engineers and So	ciety		Able to consid engineers and of sexual hara	Able to consider the relationship between engineers and whole society, through case studies of sexual harassment, bribery, and the others.				
		13th	Engineers and So	ciety		Able to consid engineers and of sexual hard	Able to consider the relationship between engineers and whole society, through case studies of sexual harassment, bribery, and the others.				
14th			Engineers as wor	kers in an organi	zation	Able to consid working in org between orga blowing issues	Able to consider the morals that engineers working in organizations should observe, conflicts between organizations and individuals, whistle- blowing issues, etc., through case studies.				
15th			Engineers as wor	kers in an organi	zation	Able to consid working in org between orga blowing issues	Able to consider the morals that engineers working in organizations should observe, conflicts between organizations and individuals, whistle- blowing issues, etc., through case studies.				
		16th	[Time for returning the second	ng answers]							
Evaluati	on M	ethod and	Weight (%)								
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal		60	0	0	0	0	40	100			
Basic Proficiency		50	0	0	0	0	30	80			
Specialized Proficiency		0	0	0	0	0	0	0			
Cross Area Proficiency		10	0	0	0	0	10	20			

A	Anan Co	llege	Year	2024		Cc T	ourse Title	Biological Science
Course 3	Informa	tion						
Course Co	ode	5196B03			Course Catego	ry (	General /	'Elective
Class Forr	mat	Lecture			Credits		Academi	c Credit: 2
Departme	ent	Advanced System Er	Course of Creat igineering	ive Technology	Student Grade	,	Adv. 1st	
Term		Second Se	mester		Classes per We	ek i	後期:2	
Textbook Teaching	and/or Materials	Familiar B	ology, Shigehiro	o Yoshimura, Yodo	osha			
Instructor	-	Ota Naoto	mo					
Course	Objectiv	es						
1. To be a 2. To be a cell cycle,	able to exp able to exp metabolis	lain cells and lain the mec m, immunity	l genes and thei hanisms of grow , and senescend	r expression, tran /th and homeosta: :e.	sduction, and in sis of organisms	teractio , includi	n with th ing cell d	e environment. ifferentiation, signal transduction,
Rubric								- 1
			Ideal Level		Standard Level			Minimum Level
Achievem	ent 1		To be able to e genes and thei transduction, a with the enviro	xplain cells and r expression, nd interaction nment in detail.	To be able to e genes and their transduction, a with the enviro	xplain c r expres nd inter nment.	ells and sion, action	To be able to understand cells and genes and their expression, transduction, and interaction with the environment.
Achievement 2			2. To be able to the mechanism homeostasis of including cell d signal transduc metabolism, in senescence.	o explain in detail organisms, ifferentiation, tion, cell cycle, imunity, and	2. To be able to mechanisms of homeostasis of including cell d signal transduc metabolism, im senescence.	o explain growth organis ifferentia tion, ce nmunity,	n the and sms, ation, Il cycle, , and	2. To be able to understand the mechanisms of growth and homeostasis of organisms, including cell differentiation, signal transduction, cell cycle, metabolism, immunity, and senescence.
Assigned Department Objectives Teaching Method								
Teachin	g metho	Biological	scioncos havo h	norma a part of "	ciontific litoracy	" and k	nowloda	a and information about thom
Outline Biological sciences have become a part have become necessary for social life, a first pandemic in several hundred years night, are sometimes making people thi them as bioethical issues. In this lecture human beings are" and to deal with the of life science"					addition, the top addition, the top bout the exister udents will acqu damental questi	mmon k pics of lince of hi ire the k ion of "h	knowledg fe scienc uman be knowledg now we s	e, especially recently after the e, which are advancing day and ings and sometimes confronting je and judgment to know "what hould respond to the development
Style		A quiz will presentati hours of s	be given on the on by students. elf-study.	e content of the pr Students will subr	eliminary study. mit reports on th	. The cla neir assi	ass will p gnments	roceed with a PowerPoint . 30 hours of class time + 60
Notice			•					
Charact	eristics o	of Class / [	Division in Le	arning				
Active	Learning		□ Aided by IC	Т	Applicable t	o Remo	te Class	<ul> <li>Instructor Professionally Experienced</li> </ul>
Course	Plan							
		Г	neme			Goals		
		1st V Ist Ir	hat it means to	be alive structures that ma	ike up living	Explain and ene	the relater the strue	tionship between the human body
		2nd T	pes and Proper	ties of Sugars		To be a	able to ex	plain types and properties of
		3rd M	echanism of obt	aining energy from	n sugar	To be a	able to ex	plain how sugar is converted into
	3rd Quarter	4th S	ructure and pro	perties of lipids		To be a of lipids	able to ex	plain the structure and properties
		5th T	ransport and me	etabolism of lipids		Be able	e to expla	in the transport and metabolism
		6th V	tamins and min	erals		To be a and mi	able to ex nerals	plain the functions of vitamins
2nd		7th S	ructure and fun	ction of DNA		Can ex	plain the	structure and function of DNA
r		8th F	om DNA to prot	ein		To be a	able to ex	plain how DNA is expressed
		9th H	ow proteins wor	k		To be a	able to ex	plain how proteins work
		10th Ir	tracellular and	extracellular signa	l transduction	To be a extrace	able to ex <u>Ilular sig</u>	plain the intracellular and nal transduction
		11th M	echanism and re	egulation of cell di	vision	To be a	able to ex	plain cell division
	4th	12th C	evelopment and ellular stress res	differentiation ponse mechanism	15	To be a differer	able to ex ntiation a	plain development and nd cellular stress response
	Quarter	13th M	echanisms of th	e immune system		To be a immun	able to ex e system	plain the mechanism of the
		14th E	5 cells and iPS c	ells		To be a	able to ex	plain initialization of cells
		15th R	egenerative med	dicine and aging		Be able apoptos	to expla sis and a	in regenerative medicine, ging
	1	16th						

Evaluation Method and Weight (%)										
	quiz	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal	50	30	0	0	20	0	100			
Basic Proficiency	0	0	0	0	0	0	0			
Specialized Proficiency	50	30	0	0	20	0	100			
Cross Area Proficiency	0	0	0	0	0	0	0			

	Anan Co	llege	Year	2024		C	ourse Title	Safety and Health Engineering
Course	Informa	tion				•		
Course Co	ode	5916F0	L		Course Catego	γ	Specializ	zed / Compulsory
Class Forr	mat	Lecture			Credits		Academ	ic Credit: 2
Departme	ent	Advance System	ed Course of Cre Engineering	ative Technology	Student Grade		Adv. 1st	:
Term		First Ser	nester		Classes per We	ek	前期:2	
Textbook Teaching	and/or Materials	"Class 1	, Class 2 Health	Supervisor Textbo	ook" by Haruhisa	Wago	(Takahas	hi Shoten)
Instructor	-	Tagami	Takanori					
Course	Objectiv	es						
1. Able to 2. Able to 3. Able to organic so	understa understa understa olvent pois	nd and exp nd and exp nd and exp soning.	lain basic issues lain basic issues lain the regulatio	related to labor pl related to labor he ons on prevention	nysiology. ealth. of specific chemic	al sub:	stances, d	oxygen deficiency syndrome, and
Rubric								
			Ideal Level		Standard Level			Minimum Level
Achievem	ent 1		Able to under issues related physiology ar explain speci	rstand the basic d to labor nd be able to fic cases.	Able to underst basic issues rel physiology.	and ar ated to	nd explair 5 labor	Able to understand the basic issues related to labor physiology.
Achievem	ent 2		Able to under issues related and be able t cases.	rstand the basic d to labor health to explain specific	Able to underst basic issues rel health.	and ar ated to	nd explair 5 labor	Able to understand the basic issues related to labor health.
Achievem	ent 3		Able to under regulations of specific chem oxygen deficit and organic st and be able to cases.	rstand the n prevention of nical substances, iency syndrome, solvent poisoning, to explain specific	Able to underst the regulations specific chemic oxygen deficier and organic sol	and ar on pre al subs ncy syn vent p	nd explair evention o stances, ndrome, oisoning.	Able to understand the prevention regulations regarding specific chemical substance hazards, oxygen deficiency diseases, and organic solvent poisoning.
Assigne	d Depar	tment Ol	ojectives					
Teachin	g Metho	d	2					
Outline	2	In this le	ecture, students s well as how to	will learn about po	otential hazards ir ble work environr	n the w	vork envir	conment and how to deal with
Style		Basic kn advance	owledge of sani	tary engineering, e	environmental eng	gineerii	ng, etc. is	s required and should be studied in
Notice								
Charact	eristics of	of Class /	' Division in L	earning				
Active	Learning		□ Aided by	ICT	Applicable t	o Rem	ote Class	Instructor Professionally Experienced
Course	Dlan							
Course			Thome			Goals		
						Ahle to	o underst	and and explain the components
		1st	1. Labor Physio (1) Blood and (	logy circulatory system		of bloc circula	od, struct	l body circulation.
		2nd	(2) Respirator,	digester system		Able to understand and explain the respiratory system, respiratory center, digestive system, and absorption of nutrients.		
		3rd	(3) Urinary and	d sensory system		Able to urinar sensor	o underst y organs, ry organs	and and explain the role of the diseases, and the structure of such as the eyes and ears.
	1st Quarter	4th	(4) Nervous sy	stem		Able to the ne brain a	o underst ervous sys and nerve	and and explain the composition of stem, the relationship between the es, and the structure of neurons.
		5th	(5) Muscle, str	ess and fatigue		Able to	o underst eaning of	and and explain muscle structure, stress, fatigue and its prevention.
Semeste r		6th	2. Labor Health (1) Airborne to	(hazardous work) xic substances		Able to of haz and ro	o underst ardous su outes of e	and and explain the classification ubstances, their characteristics, entry into the body.
2		7th	(2) Poisoning b	by organic solvents		Able to of org sympt	o underst anic solve coms of p	and and explain the classification ents, their characteristics, and oisoning by gases.
		8th	1st Semester M	lidterm Examinatio	n			
		9th	(3) Working er pressure, etc.	vironment such as	s heat, high	Able to heat s the th	o underst troke and ermal and	and and explain the symptoms of how to deal with them, as well as d high-pressure work environment.
	2nd Quarter	10th	(4) Work mana	agement and prote	ctive equipment	Able to manao labor l	o underst gement a health pro	and and explain the need for work nd the types and importance of otective equipment.
		11th	3. Labor Health First Aid	(non-hazardous w	vork)	Able to fractur proced	o underst res, bleec dures.	and and explain how to deal with ding, and primary life-saving

		12th	<ul> <li>4. Related Laws and Regulations (Hazardous Work)</li> <li>(1) Safety and health management system</li> </ul>				Understand and explain the purpose of the labor health and safety law and the role of the health supervisor.			
		13th	(2) Regulations on Prevention of Hazards due to Specified Chemical Substances				Able to understand and explain the definition and classification of specific chemical substances and types of treatment equipment.			
		14th	(3) Regulations for Prevention of Oxygen Deficiency Disorders, etc.				Able to understand and explain the classification of oxygen depletion hazardous areas and the definition of oxygen depletion.			
		15th	(4) Re Poison	(4) Regulations on Prevention of Organic Solvent Poisoning				Able to understand and explain the definition and classification of organic solvents and countermeasures against emission sources of organic solvents.		
		16th	1st Se	t Semester Final Examination						
Evaluatio	on Met	hod and \	Weigh <sup>.</sup>	t (%)						
		midterm/fi exam	nal	quiz	portfolio	prese ude	entation/attit	other	Total	
Subtotal 70		70		0	30	0		0	100	
Basic Proficiency 40			0	20	0		0	60		
Specialized 20 0			0	10	0		0	30		
Cross Area Proficiency 10 0 0				0	0	0 10		10		

ļ	Anan Co	llege	Year	2024		Course Title	Environmental Policy		
Course 2	Informa	tion							
Course Co	ode	5916F02		Course Categor	y Specializ	ed / Compulsory			
Class Forr	nat	Lecture			Credits	Academi	c Credit: 2		
Departme	nt	Advanced System En	Course of Creat gineering	ive Technology	Student Grade	Adv. 1st			
Term		First Seme	ster		Classes per Wee	ek 前期:2			
Textbook Teaching	and/or Materials	Environme	ntal law [2nd e	dition] (Yuhikaku)	)				
Instructor		Imada Hiro	oyuki						
Course	Objectiv	es							
1. Be ab 2. Be ab 3. Be ab	le to expla le to expla le to expla	iin trends in p iin the basic e iin various me	ollution and en environmental la ethods of enviro	vironmental litigat aw system. nmental policy.	tion.				
Rubric									
			Ideal Level		Standard Level		Minimum Level		
Achievem	ent 1		Able to explain pollution and e litigation.	the issues of nvironmental	Able to provide the basic trends environmental	an overview of in pollution an itigation.	Able to explain the main points d of trends in pollution and environmental litigation.		
Achievem	ent 2		Able to explain between enviro the environmen of the Constitu Basic Environm	the relationship onmental ethics, ntal rights theory tion, and the nental Law.	Able to provide the legal system Basic Environm	an overview of based on the ental Law.	Able to explain the main points of the legal system based on the Basic Environmental Law.		
Achievement 3 Achievement 3 Achievement 3 Able to explain the sig and issues of various environmental policy				the significance arious policy methods.	Able to provide various environ methods.	an overview of mental policy	Able to explain the basic points of various environmental policy methods.		
Assigne	d Depar	tment Obje	ectives						
Teachin	Feaching Method								
Outline		The goal o able to und	f this course is t lerstand and ex	o comprehensive	ly learn about po picture.	licy responses t	o environmental issues, and to be		
Style		In the clas the philoso trends in e based on t	s, we will first p phy of environr nvironmental co he Basic Enviro	rovide an overvie nental policy from ourts.Based on thi nmental Law in or	w of the charactent the perspective is, students will e der and acquire	eristics of enviro of environment examine various the ability to ex	onmental policy and learn about tal ethics.Next, understand the methods of environmental policy plain them holistically.		
Notice		Please be i Take this c system. Reference	nterested in va ourse while thir book : Fundame	rious environment nking about enviro entals of local gov	al issues from a onmental conservernment environ	broad perspecti ation and creat mental adminis	ive. ion in relation to the entire social tration(Yuhikaku)		
Charact	eristics (	of Class / D	vivision in Le	arning					
Active	Learning	,	□ Aided by IC	T	☑ Applicable to	Remote Class	Instructor Professionally Experienced		
Course	Plan	,							
		Tł	ieme			Goals			
		1st 1	. Characteristic	s of environmenta	al policy	Able to explain the basic characteristics of environmental law and environmental policy.			
		2nd 2	. environmenta	al ethics		Able to explain policy. Able to e environmental e	the philosophy of environmental explain various theories of ethics.		
		3 3rd	. environmenta	al litigation		Able to explain from legislative	the Minamata disease problem		
		er	vironmental civ	il litigation1-1		political perspec	tives.		
	1st	4th er	vironmental civ	il litigation1-2		Able to explain from legislative political perspec	the Minamata disease problem , administrative, judicial, and ctives.		
Quarter    5th    environmental civil litigat			il litigation2		Able to explain litigation and er litigation.	trends in environmental civil wironmental administrative			
Semeste r 6th		6th er	environmental civil litigation3			Able to explain litigation and er litigation.	trends in environmental civil wironmental administrative		
		7th 4	. environmenta basic	al policy law		Able to explain Environmental I	the structure of the Basic Law.		
8t		8th re	gulation1			Able to explain methods.	command and supervision		
		9th re	gulation2			Able to explain methods.	command and supervision		
	2nd	10th Ci	rculation1			Able to explain	the circulation method.		
	2nd Quarter		rculation2			Able to explain the circulation method.			
		12th In	npact assessme	nt1		Able to explain	impact assessment methods.		
		13th In	npact assessme	nt2		Able to explain	impact assessment methods.		

		14th	enviro	nment and econom	Ŋ		Able to expla ISO, etc.	ain economic metho	ods, environmental
		15th environment and international relations A			Able to expla	Able to explain environmental treaties.			
		16th	Final e	xam return					
Evaluati	on Meth	nod and N	Weight	t (%)					
		midterm/fi exam	nal	quiz	portfolio	prese ude	entation/attit	other	Total
Subtotal		60		0	40	0		0	100
Basic Prof	iciency	50		0	30	0		0	80
Specialize Proficienc	red 10 0 10 0			0	20				
Cross Are Proficienc	a y	0		0	0 0			0	0

	Anan Co	llege	Year	-	2024		Co	ourse Fitle	Mathematical Analysis	
Course	Informa	tion					•			
Course Co	ode	5916F03	3			Course Categor	у	Specializ	ed / Compulsory	
Class Forr	mat	Lecture				Credits		Academi	c Credit: 2	
Departme	ent	Advance System	d Course of C Engineering	reat	ive Technology	Student Grade		Adv. 1st		
Term		First Ser	nester			Classes per We	ek	前期:2		
Textbook Teaching	and/or Materials	Applied edition([	Mathematics F Dainippon tosh	Revi: 10),	sed edition(Dainip	pon tosho), Appl	lied Ma	thematic	s Mondaishu Revised	
Instructor	r	Nishimo	ri Yasuhito,Ku	shid	a Masahiro					
Course	Objectiv	es								
1. Able to 2. Able to 3. Able to 4. Able to 5. Able to	perform f differentia compute compute compute	four arithme ate complex complex in complex in complex in	etic operations ( functions. tegrals along ( tegrals using ( tegrals using )	s on curv Caue the	complex numbers es. chy's integral theo residue theorem.	s. rem.				
Rubric										
			Ideal Level			Standard Level			Unacceptable Level	
Achievement 1			Able to per four arithm complex nu	forn netic umb	n complicated operations on ers.	Able to perform arithmetic oper complex number	i basic ations ers.	four on	Able to perform simple four arithmetic operations on complex numbers.	
Achievement 2			Able to diff complex fu	erer	itiate complicated	Able to differen complex functio	tiate ba ons.	asic	Able to differentiate simple complex functions.	
Achievement 3			Able to con integrals al curves of c functions.	npui long comp	e complex complicated licated complex	Able to compute integrals along basic complex f	e comp simple unctior	olex curves o 15.	Able to compute complex integrals along simple curves of simple complex functions.	
Achievement 4			Able to use theorem to complicate	e Ca o cor d int	uchy's integral npute basic ægrals.	Able to use Cau theorem to com complex integra	ichy's i ipute b als.	ntegral basic	Able to use Cauchy's integral theorem to compute simple complex integrals.	
Achievement 5			Students ca theorem to complicate	an u o cor d co	se the residue npute mplex integrals.	Students can use the residue theorem to compute basic complex integrals.		residue basic	Students can use the residue theorem to compute simple complex integrals.	
Assigne	d Depar	tment Ob	jectives							
Teachin	g Metho	d								
Outline		In the fid elucidate operatio integral	eld of science phenomena. ns, differentia theorem and	t of science and technology, complex function theory is a very powerful tool that is often used to phenomena. In this lecture, after learning the basic operations of complex functions (four arithmet differentiation, and integration), students learn how to compute complex integrals using Cauchy eorem and residue theorem.						
Style		Classes Assignm	will be conducted in the form of lectures and exercises. ents will be given to confirm the content.							
Notice		1. Try to mathem 2. Stude attitude.	review previo atics) nts are expec	y learned mathem to prepare for bas	atics (differentia	al and i ne textl	ntegral c book and	alculus, linear algebra, and applied attend lectures with a positive		
Chaveat		3. Stude	nts are expec	to strictly observe	ve the deadline for submission of assignments, etc.					
Charact	eristics (	of Class /	Division in	Le	arning	1				
Active	Learning		□ Aided b	y IC	Т	Applicable to	o Remo	ote Class		
Courso	Dlan									
Course			Theme				Goals			
		1st	Complex num	ber	s and polar forms		Unders numbe differei form.	stand bas ers. To be nces of co	ic terms related to complex a able to calculate sums and omplex numbers. Convert to polar	
2nd		Absolute Valu	ies a	nd Declination		Able to comple argum	calculate ex numbe ents of co	e the product and quotient of ers. Able to find absolute value and omplex numbers.		
31		3rd	Complex func	tion	S		Unders functio	stand exp ns.	onential and trigonometric	
1st Quarter		4th	Holomorphic	func	tion		Able to	differen	tiate basic functions.	
1st Semeste r		5th	Cauchy-Riem	ann	equation		Able to determ holomo	o use the nine whet orphic.	Cauchy-Riemann relation to the complex function is	
ε		6th	Inverse funct	ions			Unders functio	stand loga ns of exp	arithmic functions as inverse ponential functions.	
		7th	Complex inte	gral	I		Able to curves	calculato	e complex integrals along simple	
		8th	Mid-term exa	m						
2nd 9		9th	Complex Inte	gral	II		Able to proper	compute	e complex integrals using the basic mplex integrals.	
	Quarter	10th	Cauchy's inte	gral	theorem		Able to closed	ble to calculate complex integrals along sim osed curves using Cauchy's integral theorer		

		11th	Cauchy	y's integral formula	a		Able to calcu closed curve	llate complex integr s using Cauchy's in	rals along simple tegral formula.	
12th			Expansion of Functions I				Able to calcu	llate Taylor expansi	on.	
	13th Expa			Expansion of Functions II				llate Laurent expan	sion.	
14th Re			Residue				Able to calculate compute residues at isolated singularities of functions.			
		15th	Residue theorem				Able to compute complex integrals along simple closed curves using the residue theorem.			
		16th	Return	of final exam						
Evaluati	on Met	hod and V	Weight	t (%)						
		Regular examination		Quiz	Portfolio	Prese avior	entation/Beh	Other	Total	
Subtotal		70		0	30	0		0	100	
Basic Proficiency		40		0	20	0		0	60	
Specialized Proficiency		20		0	10	0		0	30	
Cross Area Proficiency	a Y	10		0	0	0		0	10	

Anan College				Year	2024			ourse Title	Creative Technology System Eng. Special Research 1	
Course :	Informat	nformation								
Course Co	ode	5916G0	1			Course Categor	у	Specialized	d / Compulsory	
Class Forr	nat					Credits		Academic	Credit: 6	
Departme	nt	Advance System	d Co Engir	ourse of Creati neering	ve Technology	Student Grade		Adv. 1st		
Term		Year-rou	ind			Classes per We	ek	前期:6 後期	月:6	
Textbook Teaching	and/or Materials	Supervis	ors i	introduce you	as necessary.					
Instructor		Zheng T	ao,Ya	asuno Emiko,	Okamoto Hiroyuki					
Course	Objectiv	es								
1. Able to perspectiv 2. Able to 3. Able to 4. Able to	research /es. independe communi be summ	and use lite ently condu cate approp arized as se	eratu uct re oriate cient	re, learn expe esearch on a t ely with super ific and techni	erimental and theo opic. visors and co-rese ical papers about	pretical research earchers and pla the results obtai	metho ny one's ined by	ods, and co s role as a research.	nsider things from multiple member of a team.	
Rubric						I				
			Id	leal Level		Standard Level			Unacceptable Level	
Achievement 1				ecome familia esearch and xperimental/th esearch metho appropriately om multiple p	r with literature neoretical ods, and be able / consider results erspectives.	Able to study lit learn experimen theoretical rese and consider re multiple perspe	terature ntal and arch m sults fr ctives.	e and d lethods, rom	Have acquired the basics of literature research and experimental/theoretical research methods. Able to consider the result from multiple angles.	
Achievement 2			Al w pr th	ble to researcl hat is needed roblems and d neir supervisor	h on their own to solve liscuss it with s.	Able to carry out their research by considering their own opinions while discussing with their supervisors and others			Able to carry out research under instructions from supervisor.	
Achievement 3			Al th cc su	ble to underst ne team and a ommunicate w upervisor and	and their role in ctively vith their other staff.	Able to communicate with supervisors and others and play the necessary role as a member of a team.			Able to have basic communication with your supervisor and play the minimum role as a member of a team.	
Achievem	ent 4		Al cc re	ble to summa ontent logically esearch in Eng	Able to logically so your research of the summarize research of referring to your instructions. Able to summarize ch in English by oneself. Able to summarize research summarize research summarize referring to the in			harize by rvisor's ur English by ctions.	Able to logically summarize research content according to the instructions of the supervisor. Able to create a research outline and English text according to the instructions of the supervisor.	
Assigne	d Depar	tment Ob	oject	tives						
Teachin	g Metho	d	-							
Outline		To dedic attitudes research ability to methods special r	ate r and and real s, obt esea	research in the d methodologie l development lize technical of tained results rch report.	eir respective field es for research, a . In addition, whil concepts and crea and consideratior	ls under the guid nd learn the imp le considering "n tive thinking. Fu ns, and future pr	dance contance nanufac Irtherm ospects	of their res e of having cturing", st hore, the re s will be su	pective supervisors, acquire basic a multifaceted perspective in tudents will develop the design esearch background, objectives, immarized in the form of a	
Style										
Notice		have lea	rned n tho	l in your regul oughts and arc	ar and advanced of guments and carr	course and the course and the course and the course and the course are a course are a course are a course are a	g your courses ctivities	. To solve s independ	problems, be sure to include ently.	
Charact	eristics o	of Class /	Div	ision in Lea	arning	,			/	
Active	Learning			Aided by IC	Т	Applicable to	o Remo	ote Class	<ul> <li>Instructor Professionally</li> <li>Experienced</li> </ul>	
							Coole			
1st 1st			Carr Prep	ying out speci paration of spe	ort	Conduct semina the sup Summa method and fut researc	ct research ars, experir pervision o arize the re ds, obtaine ture prospe ch report (	activities such as surveys, ments, and calculations under f special research supervisors. esearch background, objectives, ed results and considerations, ects in the form of a special approximately 10 A4 pages).		
r Semeste r 2nd F			Carr Prep	ying out speci aration of spe	pecial research1 special research report			Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages)		

	3rd	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	4th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	5th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	6th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	7th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	8th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	9th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	10th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
2nd	11th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
Quar	12th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	13th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	14th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).

		15th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		16th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		1st	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	3rd Quarter	2nd	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		3rd	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		4th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
2nd Semeste		5th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
r		6th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		7th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
		8th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
4	4th	9th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).
	4th Quarter	10th	Carrying out special research1 Preparation of special research report	Conduct research activities such as surveys, seminars, experiments, and calculations under the supervision of special research supervisors. Summarize the research background, objectives, methods, obtained results and considerations, and future prospects in the form of a special research report (approximately 10 A4 pages).

	11th	Carryir Prepar	ng out special resea ation of special res	arch1 earch report		Conduct rese seminars, ex the supervis Summarize t methods, ob and future p research rep	earch activities such operiments, and calor ion of special resear the research backgr trained results and of rospects in the form ort (approximately	as surveys, culations under rch supervisors. round, objectives, considerations, n of a special 10 A4 pages).
	12th	Carryir Prepar	ng out special resea ation of special res	arch1 earch report		Conduct rese seminars, ex the supervis Summarize to methods, ob and future p research rep	earch activities such operiments, and calo ion of special resear the research backgr vitained results and o rospects in the forn out (approximately	as surveys, culations under ch supervisors. ound, objectives, considerations, n of a special 10 A4 pages).
	13th	Carryir Prepar	ng out special resea ation of special res	arch1 earch report		Conduct rese seminars, ex the supervis Summarize to methods, ob and future p research rep	earch activities such operiments, and calor ion of special resear the research backgr trained results and of rospects in the form ort (approximately	as surveys, culations under rch supervisors. round, objectives, considerations, n of a special 10 A4 pages).
	14th	Carryir Prepar	Carrying out special research1 Preparation of special research report				earch activities such operiments, and calor ion of special resear the research backgr trained results and of rospects in the form ort (approximately	as surveys, culations under rch supervisors. ound, objectives, considerations, n of a special 10 A4 pages).
	15th	Carrying out special research1 Preparation of special research report				Conduct rese seminars, ex the supervis Summarize t methods, ob and future p research rep	earch activities such operiments, and calor ion of special research the research backgr vtained results and or rospects in the forn oort (approximately	as surveys, culations under rch supervisors. ound, objectives, considerations, n of a special 10 A4 pages).
	16th		ng out special resea ation of special res	arch1 earch report		Conduct rese seminars, ex the supervis Summarize of methods, ob and future p research rep	earch activities such operiments, and calor ion of special research the research backgr otained results and rospects in the form oort (approximately	as surveys, culations under rch supervisors. ound, objectives, considerations, n of a special 10 A4 pages).
Evaluation Me	thod and	Weigh	t (%)					
	Examination		Quiz	Portfolio	Beha	vior	Others	Total
Subtotal	0		0	0	0		100	100
Basic Proficiency	0		0	0	0		0	0
Specialized Proficiency	0		0	0	0		70	70
Cross Area Proficiency	0		0	0 0 0			30	30

	Anan Co	llege	Ye	ear	2024		C	ourse Title	Practice for Creative Design Technology	
Course	Informa	tion			•					
Course Co	ode	5916T01				Course Catego	rv	Specializ	ed / Compulsory	
Class For	mat					Credits	1	Academi	c Credit: 2	
Departme	ent	Advanced System E	l Course o ngineering	of Creati g	ive Technology	Student Grade		Adv. 1st		
Term		First Sem	ester			Classes per We	ek	前期:4		
Textbook Teaching	and/or Materials	各担当教員	しより紹介			•		•		
Instructor	r	Nishino S Tao,Yoshi	eiichi,Kom imura Hiro	ichi,Komatsu Minoru,Fujihara Takeshi,Fukuda Koji,Fukumi Junji,Yoshida Susumu,Zheng 1ura Hiroshi,Otani Takashi,Ueda Kohei,Okamoto Hiroyuki						
Course	ourse Objectives									
1. 実習内 2. 実習編 3. 実習内 4. 自分の	9容の要素技 詰果について 9容およびま 0専攻コース	な術を説明でき こ技術的考察た €習結果考察を くのときは他□	きる。 ができる。 ミレポート( コースの学	にまとめ 生の演習	つることができる。 客を補助できる。					
Rubric										
			理想的な	到達レ/	ベルの目安	標準的な到達レイ	ベルの目	安	最低限の到達レベル	
到達目標1			実習内容 法則を理 。	の要素打 解し説明	支術の原理, 基本 別, 活用ができる	実習内容の要素 法則を理解し, E できる。	支術の原 自分の言	₹理, 基本 ■葉で説明	実習内容の要素技術に関して一定 の説明ができる。	
到達目標2			実習結果 調査して 的考察が	につい <sup>-</sup> 「得た資料 できる。	てまとめ, 自分で 料などを基に技術	実習結果につい <sup>-</sup> め、与えられた 考察ができる。	て自分な 資料を基	よりにまと 基に技術的	実習結果について技術的考察がで きる。	
到達目標3			実習内容 自分で調 させてレ できる。	および 査して イ ・ポート(	実習結果の考察を 导た資料など関連 こまとめることが	実習内容および えられた資料を 葉でレポートに きる。	実習結果 参照し, まとめる	そ察を与 自分の言 ることがで	実習内容および実習結果考察をレ ポートにまとめることができる。	
到達目標4			自分の専 スの学生 意工夫し	取コーン の演習で て補助	スのときは他コー を主体的に行い創 できる。	自分の専攻コースのときは他 スの学生の演習を主体的に補助 きる。			自分の専攻コースのときは他コー スの学生の演習を教員の指示のも と補助できる。	
Assigned Department Ob			iectives							
Teachin	a Metho	d								
Outline		工学技術の 広い知識と 【オムニ/ ※実務との	)基礎となる と技術を持つ バス方式, )関係:この	る各コー つ実践的 複数教員 の科目は 専門分野	·スの工学演習を行け 技術者としての能: 員担当方式】 ・企業で機械、電気に がにおける基本的な	い、各コースの実 りを養う。 電子、情報、建設	習を通し に関わる て授業	して基本的 る研究・開	な知識・技術を習得することで,幅 発を担当していた教員がその経験を	
Style		それぞれの	演習項目を担当する教員が、受業計画に記された順に実施していく。 などの時間、自営の期時間、20時間に記された順に実施していく。							
		12年時間	<u>160時間+目学目習時間30時間】</u> 引御システム工学専攻および構造設計工学専攻合同で行 <sup>、</sup>					業項目に関	する基礎知識を十分に復習し、これ	
Notice		らの基礎知   評価方法	山識か実際の 気および割合	のものつ合は各二	っくりにどのように約 ース担当演習によ	着ひつくかを体得 って異なる。各回	すること 冒頭です	と。 確認するこ	と。	
Charact	eristics of	of Class /	Division	in Le	arning	1				
Active	Learning		🗆 Aide	d by IC	Т	Applicable t	To Remote Class Z Instructor Professionally Experienced			
Course	Plan	<u> </u>								
		T	heme				Goals			
		1st <sup>税</sup> )	幾械システ.	ムコーフ	《演習:品質工学演》	習(機能性評価	品質工	学における	6機能性評価の概要を説明できる.	
		2nd <sup>梢</sup>	幾械システ. 役計)	ムコース	、演習:品質工学演	習(パラメータ	品質工 コマ実 きる.	学 (パラ <i>&gt;</i> 験キットで	くータ設計)の概要を説明できる. でパラメータ設計による最適設計がで	
		3rd <sup>梢</sup> 計	機械システ. 殳計)	ムコーフ	《演習:品質工学演》	習(パラメータ	品質工 シミュ	学(パラゝ レータを修	メータ設計)の概要を説明できる. 使った最適設計ができる.	
	ust Quarter	4th 雷	<u>電気電子情</u> 調	<u>報コ</u> ーフ	、 <u> 、 演習:オペ</u> アンプ	演習	<u>オペ</u> ア	<u>ンプを</u> 用し	ヽた増幅回路を構築できる。	
	2	5th 冨	電気電子情報	報コース	ス演習:オペアンプ	演習	オペア	ンプを用い	ヽた増幅回路を構築できる。	
		6th 『	電気電子情報	報コース	、演習:オペアンプ	演習	オペア	ンプを用い	ヽた増幅回路を構築できる。	
1st Samasta		7th 冨	電気電子情報	報コース	、演習:情報処理演		Arduin を理解	noマイコン できる。	を用いて電圧を計測するプログラム	
r 8	8th 冨	電気電子情報	報コース	(演習:情報処理演)		Arduin を理解	noマイコン できる。	を用いて電圧を計測するプログラム		
	9th 『	電気電子情報	報コース	(演習:情報処理演)		Arduin を理解	ioマイコン できる。	を用いて電圧を計測するプログラム		
	10th	建設システ.	ム <u>コ</u> ーフ	ス演習:擁壁の設計	土圧演習	擁壁に	作用する土	上圧について理解できる。		
	2nd	11th 爻	建設システ.	ムコーフ	ス演習:擁壁の設計	土圧演習	ある条 。	件下での拶	一種では、「「」」である。	
	Quarter	12th 贤	<u> 建設</u> システ.	ムコース	、演習: 擁壁の設計	土圧演習	擁壁に	作用する認	設計土圧について説明できる。	
		13th 师	応用化学コ	<u>ース</u> 演習	習:物理化学実験		表面張	力に関する	3測定および計算ができる。	
		14th 师	お用化学コ		習:有機化学実験		再結晶	による精製	 とができる。	
	1	15th G			<ol> <li>有機化学実験</li> </ol>		カップ	リング反応	いが説明できる。	

	16th					
Evaluation Me	ethod and W	eight (%)				
	定期試験	小テスト	ポートフォリオ	発表・取り組み姿 勢	その他	Total
Subtotal	0	0	100	0	0	100
基礎的能力	0	0	20	0	0	20
専門的能力	0	0	60	0	0	60
分野横断的能力	0	0	20	0	0	20

Anan College		llege	Year	2024		C	ourse Title	複合領域ゼミナール		
Course	Course Information			·						
Course Co	ode	5916T02			Course Categor	γ	Specialize	ed / Compulsory		
Class For	mat	30			Credits		Academic	Credit: 2		
Departme	ent	Advance System E	d Course of Creat Engineering	tive Technology	Student Grade		Adv. 1st			
Term		Second S	Semester		Classes per We	ek	後期:2			
Textbook Teaching	and/or Materials	Timely d	istribution of mat	erials						
Instructor	r Objectiv	Okamoto	Hiroyuki,Nakamura Yuichi,Nishimoto Koji,Yasuno Emiko,Zheng Tao,Inoue Takafumi							
1. Able to 2. Unders	understar and resea	nd the typic arch trends	al areas of each t in each field	field						
3. Able to	understar	nd advance	d technologies ar	id advanced initiat	ives in each field	1				
Rubric					1					
			Ideal Level		Standard Level			Minimum achievement level		
Achievement 1			Able to fully un representative field	areas of each	Able to underst areas of each fi	and the	e typical	Able to partially understand representative areas of each field		
Achievement 2			Able to fully un research trend	nderstand Is in each field	Able to underst trends in each f	and rea	search	Able to partially understand research trends in each field		
Achievement 3			Able to fully un edge technologi advanced initia	nderstand cutting- gies and atives in each field	Able to underst technology and initiatives in each	and cu advan ch field	tting-edge ced	e Able to partially understand cutting-edge technologies and advanced initiatives in each field		
Assigne	advanced initiatives in each field initiatives in each field initiatives in aned Department Objectives				•			1		
Teachin	a Metho	d	<b>,</b>							
Outline		First, we Next, eac session. In addition By listen acquire of In the se explanat learning to develo In this co and elect cutting-e We will in	will introduce th ch student will pr -and-answer sess ing to research co cutting-edge know cond half, corpor ions of the indust knowledge, techn op future enginee ourse, instructors cronics, informati idge research in t nvite related corp s of cutting-edge	e contents of typic resent the content s in charge of each ison will be held. ontent in a wide ra- wledge in each field rate engineers rela cry, introduction of hiques, ways of thi res who can see thi who were in char on, and chemistry their respective spo- orate engineers to initiatives.	al areas in each of their special r h course will main ange of fields, ha d and grasp tech ted to each cour advanced techr inking, and speci ings in a comple ge of research a at companies m ecialized fields.	field. researc aving din niques rse will oologies ific exa x manr nd dev nake us the ind	h and the sentations accussions and ways be invited s, and exa mples of i er and cr elopment e of their dustry's cr	re will be a question and answer on their research efforts, and a s, and writing reports, students s of thinking. d to give lectures including imples of advanced initiatives. By initiatives in many fields, we aim reate new ideas. related to machinery, electrical experience and teach about utting-edge technologies and		
Style		The sess Create a The cour	ion will basically report on each c se content is the	consist of a preser ontent to deepen same as described	ntation and a que your understand d in the outline.	estion a ing.	and answe	er session.		
Notice										
Charact	eristics of	of Class /	Division in Le	arning						
🗆 Active	Learning		□ Aided by IC	СТ	□ Applicable to	o Remo	ote Class	<ul> <li>Instructor Professionally Experienced</li> </ul>		
Course	Plan	1								
			I heme			Goals				
		1st	Guidance Introduction to e	ach field		Able to	o understa	and the typical areas of each field		
		2nd	Presentation of re	esearch content by	/ students	Able to Able to thinkin	o understa o understa	and research trends in each field and technologies and ways of r fields		
	3rd Presentation of research content b		/ students	Able to Able to thinkin	o understa o understa og in other	and research trends in each field and technologies and ways of r fields				
2nd		4th	Presentation of re	esearch content by	/ students	Able to Able to thinkin	o understa o understa og in other	and research trends in each field and technologies and ways of r fields		
Semeste Quarter 5t		5th	Presentation of re	esearch content by	/ students	Able to Able to thinkin	o understa o understa og in other	and research trends in each field and technologies and ways of r fields		
-		6th	Presentation of re	esearch content by	/ students	Able to Able to thinkin	o understa o understa og in other	and research trends in each field and technologies and ways of r fields		
		7th	Presentation of re	esearch content by	/ students	Able to Able to thinkin	o understa o understa og in other	and research trends in each field and technologies and ways of r fields		
		8th	Presentation of re	esearch content by	/ students	dents thinking in other fields Able to understand research trend Able to understand technologies a thinking in other fields		and research trends in each field and technologies and ways of r fields		

		9th		Research introductions course	s by instructors of each		Able to understand rese Able to understand tech thinking in other fields Able to understand cutt advanced initiatives in e	arch trends in each field nologies and ways of ing-edge technology and each field	
		10th		Research introductions course	s by instructors of each		Able to understand rese Able to understand tech thinking in other fields Able to understand cutt advanced initiatives in e	arch trends in each field nologies and ways of ing-edge technology and each field	
		11th		Introducing examples technology, and advar companies	of industry, advanced nced initiatives by	Able to understand technologies and ways of thinking in other fields Able to understand cutting-edge technology and advanced initiatives in each field			
	4th Quarter	12th		Introducing examples of industry, advanced technology, and advanced initiatives by companies			Able to understand technologies and ways of thinking in other fields Able to understand cutting-edge technology and advanced initiatives in each field		
		13th		Introducing examples technology, and advar companies	of industry, advanced nced initiatives by		Able to understand tech thinking in other fields Able to understand cutt advanced initiatives in e	nologies and ways of ing-edge technology and each field	
		14th		Introducing examples technology, and advar companies	of industry, advanced nced initiatives by		Able to understand tech thinking in other fields Able to understand cutt advanced initiatives in e	nologies and ways of ing-edge technology and each field	
		15th		Introducing examples technology, and advar companies	of industry, advanced nced initiatives by		Able to understand technologies and ways of thinking in other fields Able to understand cutting-edge technology and advanced initiatives in each field		
	16th								
Evaluat	ation Method and		<u>ا hd</u>	Weight (%)	1				
		Examin		mination	Portfolio	Pr at	resentation / Approach ttitude	Total	
Subtotal	ubtotal		0		80	20	0	100	
Basic Prot	ficiency		0		20	1(	0	30	
Specialized Proficiency		0		60	1(	0	70		
Cross Area Proficiency			0		0	0		0	

	Anan College Year 2024		Co	ourse Title	Theory of Linear Algebra				
Course	Informa	tion		•					
Course Co	ode	5996F01			Course Categor	у	Specialize	ed / Elective	
Class For	mat	Lecture			Credits		Academic	Credit: 2	
Departme	ent	Advanced System E	l Course of Creat ngineering	ive Technology	Student Grade		Adv. 1st		
Term		Second S	emester		Classes per We	ek	後期:2		
Textbook Teaching	and/or Materials	Enshu to	Ouyo Senkei Dai	isu, Saiensu Sha					
Instructor	·	Sugino Ry	/uzaburo						
Course	Objectiv	es							
1. We car 2. We car 3. We car	n understa n understa n understa	nd the conce nd the conce nd the conce	epts of generalize epts of generalize ept of N-dimensi	ed linear space, ar ed linear equation, onal simultaneous	nd compute of its , and compute of equation, and co	s linear f its sol ompute	computa lution sets e of its pro	tion. 5. oblems.	
Rubric									
			Ideal Level		Standard Level			Unacceptable Level	
Achievem	ient 1		We can unders concepts of ge space, and cor computation, a the various pro	stand the neralized linear npute of its linear apply these for oblems.	We can underst concepts of gen space, and com computation.	and th eralize pute o	e d linear f its linear	We can understand the concepts of generalized linear space, and compute of its elementary problems.	
Achievem	ient 2		We can unders concepts of ge equation, and solution sets, a for the various	stand the neralized linear compute of its and apply these problems.	We can underst concepts of gen equation, and c solution sets.	and th eralize omput	e d linear e of its	We can understand the concepts of generalized linear equation, and compute of its solution sets, and compute of its elementary problems.	
Achievem	ient 3	3 We can understand the concept of N-dimensional simultaneous equation, and compute of its problems, apply these for the various problems. We can understand to of N-dimensional sim equation, and compute problems.				and th al simu omput	e concept Iltaneous e of its	We can understand the concept of N-dimensional simultaneous equation, and compute of its elementary problems.	
Assigne	d Depar	tment Ob	iectives						
Teachin	g Metho	d							
Outline	-	We are to mathema	make a concent tics to construct	tration for our clas ion of understandi	s and use the kr ng of the genera	nowled lized lii	ges and to near spac	echniques about basic e and simultaneous equations.	
Style		Our class 1. Review 2. Lecture 3. Short e	is construction of the important for about the new exercises.	of the next three p acts from the prev section.	hases. /ious class.				
Notice		Please ma You will b	ake a good prepa ouild up the good	aration and self-re	view. work of the prev	ious cla	ass.		
Charact	eristics of	of Class /	Division in Le	arning	•				
Active	Learning		□ Aided by IC	CT S	Applicable to	o Remo	ote Class	Instructor Professionally Experienced	
Course	Plan								
		ר	heme			Goals			
		1st li	near space			We car space a	n understa and comp	and N-dimensional Euclidean oute its fundamental problems.	
		2nd li	near space			We car and co	n understa mpute its	and the generalized inner product fundamental problems.	
		3rd li	near space			We car equatio	n understa on and co	and the solution set of linear mpute its fundamental problems.	
	3rd	4th li	near space			We car equatio	n understa on and co	and the solution set of linear mpute its fundamental problems.	
	Quarter	5th r	natrix operation			We car compu	n understa Ite its fund	and the generalized matrix and damental problems.	
and		6th r	natrix operation			We car compu	n understa ite its fund	and the generalized matrix and damental problems.	
Semeste r	2nd Semeste r	7th r	natrix operation			We car genera problei	n understa alized mat ms.	and the determinant of rix and compute its fundamental	
		8th N	1id-term examin	ation					
		9th s	imultaneous equ	uation and the ran	k of matrix	We car simulta fundan	n understa aneous eo nental pro	and the solution set of generalized Juation and compute its bblems.	
4th Ouarter	10th t	asis and dimens	ion of linear space	2	We car the line its fund	n understa ear expres damental	and the linear combination and ssion set of vectors and compute problems.		
		11th s	ubspace and bas	sis		We car subspa	n understate	and the basis and dimension of ompute its fundamental problems.	
		12th li	near mapping a	nd linear space		We can understand the linear mapping of vector space and compute its fundamental problems.			

			13th	linear mapping a	nd linear space		We can understand the change of basis and representation matrix and compute its fundamental problems.				
	14th e		eigen values and	its application		We can understand the generalized eigen polynomial and the eigen space and compute its fundamental problems.					
	15th e		eigen values and	its application		We can understand the generalized eigen values and the diagonalization and compute its fundamental problems.					
	16th Final examination										
Evaluation Method and Weight (%)											
		Exa	mination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		60		0	0	0	40	0	100		
Basic Proficiency	/	30		0	0	0	20	0	50		
Specialized Proficiency	d /	20		0	0	0	15	0	35		
Cross Area Proficiency	a /	10		0	0	0	5	0	15		

	Anan (	Colle	ege	ge Year 2024		Course Title	Statistical Thermodynan	nics	
Course	Inforr	nati	on						
Course Co	ode		5996F02			Course Categor	y Speciali	zed / Elective	
Class Forr	mat		Lecture			Credits	Academ	ic Credit: 2	
Departme	ent		Advanced C System Eng	Course of Creat gineering	ive Technology	Student Grade	Adv. 1s	t	
Term			First Seme	ster		Classes per Wee	ek 前期:2		
Textbook Teaching	and/o Materia	r als							
Instructor	-		Matsuo Tos	hihiro					
Course	Objec	tive	S						
Rubric								-	
				Ideal Level		Standard Level		Unacceptable L	evel
Achievem	ent 1								
Achievem	ient 2								
Achievem	ient 3								
Assigned Department Objectives									
Teachin	g Met	hod	1						
Outline									
Style									
Notice									
Charact	eristic	IS OT		ivision in Le	arning				<b>c</b> : "
Active Learning				Aided by IC	T	□ Applicable to	Remote Class	Experienced	rotessionally
Course	Course Plan								
			Th	eme			Goals		
		1	lst						
		2	2nd						
		5	Brd						
	1st	2	1th						
	Quarte	er j	ōth						
		e	ōth						
1 ct		7	7th						
Semeste		8	Sth						
r		1	JULI LOth						
		H	11th						
	and	F1	12th						
	Quarte	er 1	L3th						
		1	L4th						
		1	L5th						
		1	L6th						
Evaluati	ion Me	etho	d and We	ight (%)					
		Exan	nination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal		0		0	0	0	0	0	0
Basic Proficienc	ciency 0 0 0 0		0	0 0 0		0			
Specialized 0 0 0		0	0	0	0				
Cross Area Proficiency 0			0	0	0	0	0	0	

Anan College		Year	2024		C	ourse Title	Advanced Environmental Technology			
Course 3	Informa	tion		•						
Course Co	ode	5996F04			Course Catego	ry	Specialize	ed / Elective		
Class Forr	mat	Lecture			Credits		Academic	Credit: 2		
Departme	ent	Advanced System E	l Course of Creat	ive Technology	Student Grade		Adv. 1st			
Term		Second S	emester		Classes per We	ek	後期:2			
Textbook Teaching	and/or Materials	Distribute	e documents as a	ppropriate.						
Instructor	-	Kagemas	a Shuka,Osada K	engo						
Course	Objectiv	es								
1. Unders 2. Unders	tand the f tand the a	initeness of actions need	the earth and en ed to build a sust	vironmental probl ainable society.	ems. Explain the	e meas	sures agair	nst environmental problems.		
Rubric					,					
			Ideal Level		Standard Level			Minimum Level		
Achievement 1			Understand the finiteness of the earth and the relationship between humans and environmental problems, and explain the factors and measures of environmental problems			tors an ivironn	id nental	Understand an overview of global environmental problems.		
Achievement 2			Understand the to build a susta and explain the society. In add skills required o	e way of thinking inable society, e measures in ition, explain the of an engineer.	Understand the to build a susta and explain the society.	e way o inable e meas	of thinking society, ures in	Understand the way of thinking to build a sustainable society.		
Assigne	d Depar	<u>tment Ob</u>	jectives							
Teachin	g Metho	d								
Outline We make use of finite resources to develop and use technology, while these activities are factors that cause environmental problems on a global and regional scale. Through this lecture, students will acquire a correct ethical view and knowledge of global environmental issues and understand the way of thinking percessary to build a sustainable society as engineers								activities are factors that cause dge of global environmental society as engineers.		
Style The first half of the lecture is given in a lecture style. The second half of the lecture is a summary of a report on the role of own research in the construction of a sustainable society and the share through a presentation							lecture is a summary of a report the share through a presentation.			
Notice										
Charact	eristics o	of Class /	Division in Lea	arning						
Active	Learning		□ Aided by IC	Т	Applicable t	o Rem	ote Class	Instructor Professionally Experienced		
Course	Plan									
		-	Theme			Goals				
		1st (	Guidance			Under	stand the	ethical values needed to build a		
			Building a sustain	able society		sustai	nable soci	2 society.		
			Jodal warming (	1)		Explai	n the med	nanism of global warming.		
		3rd (	Global warming (2	2)		warmi	ing and hu	iman activities.		
		4th E	Energy problems			Under	standing t	he energy trilemma.		
	3rd Quarter	5th I	ndustrial waste t	reatment (1)		Under preser treatn	stand the nt situation nent meth	industrial waste problem in the n and explain the appropriate ods.		
		6th 1	ndustrial waste t	reatment (2)		Under preser treatm	stand the nt situation nent meth	industrial waste problem in the n and explain the appropriate ods.		
		7th	Wastewater Treat	ment		Under preser treatn	stand the nt situation nent meth	industrial waste problem in the n and explain the appropriate ods.		
2nd Semeste		8th I	Aidterm examination	tion						
r		9th	Explanation of rep Summarize in a re plays in building a	port assignment eport the role that a sustainable socie	t own research ety (1)	The ro sustai in a re	ole of own nable soci eport.	research plays in building a ety is considered and summarized		
		10th	Summarize in a re plays in building a	eport the role that sustainable socie	t own research ety (2)	The ro sustai in a re	ole of own nable soci eport.	research plays in building a ety is considered and summarized		
	4th Quarter	11th	Summarize in a re plays in building a	eport the role that sustainable socie	t own research ety (3)	The ro sustai	ole of own nable soci eport.	research plays in building a ety is considered and summarized		
	2.301.001	12th	Summarize in a re blays in building a	eport the role that a sustainable socie	t own research ety (4)	The role of own research plays in building a sustainable society is considered and summarized in a report.				
		13th I	Presentation (1)			Understand the role of engineers in building a sustainable society.				
		14th F	Presentation (2)				Understand the role of engineers in building a sustainable society.			

		15th	Presen	tation (3)			Understand sustainable s	the role of engineer society.	s in building a
		16th							
Evaluati	on Metł	nod and N	Weight	t (%)					
		Midterm/Fi exam	nal	Quiz	Portfolio	Prese ude	entation/Attit	Other	Total
Subtotal		30		0	40	30		0	100
Basic Prof	iciency	20		0	20	0		0	40
Specialize Proficiency	d y	10		0	20	20		0	50
Cross Area	a	0		0	0	10		0	10

	Anan College Year 2024		C	ourse Title	Internship 1					
Course	Informa	tion								
Course Co	ode	5996K01			Course Category	Y	Specializ	ed / Elective		
Class Forr	mat				Credits		Academi	c Credit: 1		
Departme	ent	Advanced System E	l Course of Crea ngineering	tive Technology	Student Grade		Adv. 1st			
Term		Year-rour	nd		Classes per Wee	eek 前期:1 後期:1				
Textbook Teaching	and/or Materials	At the dir	ection of the dis	patch training sup	ervisor / At the d	irectio	on of the o	lispatch training supervisor		
Instructor	-	Yasuno E	miko,Zheng Tao	1						
Course	Objectiv	es								
1 Student given task 2. Studen the major	s can und s. ts can dev	erstand the elop a pract	situation of the t	training organizational sense through p	on (company, res ractical training e	earch experie	institute, ences and	university, etc.) and solve the clarify their research objectives in		
Rubric					T					
			Ideal Level		Standard Level			Minimum Level		
Objective	1		Able to find ar issues after so problem.	nd work on related Iving a given	Able to respond and resolve give	appro en issu	opriately t ies.	o Able to respond to and resolve given issues at a minimum.		
Objective 2			Able to develo technical sens research activ	p a practical and e and apply it to ities in the major.	Able to develop technical sense and explain its r research activiti	a prac of the elation es in t	ctical and subject nship to the major	Able to develop a minimum of practical and technical sense and explain the relationship to research activities in the major.		
Assigne	d Depar	tment Ob <sup>.</sup>	ent Objectives							
Teachin	a Metho	d								
Outling	<u> </u>	Undertak	Indertake specialized practical training at domestic and overseas companies, research institutes, universiti							
Outime		etc., to de	etc., to develop an understanding of practical problems and issues and the ability to respond appropri							
Style		45 hours	of class time	C + L - T - 1						
Notice (2) Students must follow the instructions of their special research supervisor and the internship site supervisor, as the internship will be conducted at a company, research institute, etc. In principle, this internship is undertaken during the summer vacation period (internship period) of the first year of the major (3) If practical training is conducted at multiple locations, a presentation and report must be prepared for each internship site.								r and the internship site tute, etc. In principle, this iod) of the first year of the major. d report must be prepared for ial research		
Charact	oristics (	$\frac{1(4)}{100}$	Division in Le	arning	period muse be t					
						_		Instructor Professionally		
□ Active	Learning				Applicable to	Rem	ote Class	Experienced		
Course	Plan	, ,								
		1	Гheme		(	Goals				
		1st								
		2nd								
		3rd								
		4th								
	1.04	5th C	Coordination of t	he recipient	( i	Coordi and ot nterns	nating ho her docu ship sites.	st families and preparing resumes ments to be submitted to the		
	Quarter	6th C	Coordination of t	he recipient	(	Coordi and ot	her docu	st families and preparing resumes ments to be submitted to the		
		7th C	Coordination of t	he recipient	(	Coordi and ot	inating ho her docui ship sites.	st families and preparing resumes ments to be submitted to the		
1st Semeste r		8th C	Coordination of t	he recipient	(	Coordi and ot	inating ho her docui ship sites.	st families and preparing resumes ments to be submitted to the		
		9th C	Guidance and pro	eliminary meeting		(1) Un advan meetir etc. (2 countr	iderstand ce throug ngs, and t ?) Undersi y and the	the purpose of the training in h guidance and pre-conference be prepared to learn social rules, cand the outline of the destination e content of the practical training.		
2nd Quarter		10th F	Practical training	at the host institu	- ition i t	Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropr to issues under the supervision of the trainin supervisor at the destination country.				
		11th F	Practical training	l training at the host institution			Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriat to issues under the supervision of the training supervisor at the destination country.			

		12th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	pmestic and institutes, spond appropriately of the training puntry.	
		13th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	mestic and institutes, spond appropriately of the training puntry.	
		14th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		15th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		16th								
	1st 2nd		Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
			Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the en report and oral	
3rc Ou		3rd	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
	3rd Quarter	4th	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
		5th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writi	esults of the ten report and oral	
2nd Semeste r		6th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to summarize the results of the internship in the form of a written report and oral presentation.			
		7th	Intern	ship debriefing			Internship debriefing presentations will provide an overview of the issues, solutions to those issues, and a summary of the internship.			
		8th								
		9th								
		10th								
		11th								
	4th	12th								
	Quarter	13th								
		14th								
		15th								
		16th								
Evaluati	ion Met	hod and	Weigh	t (%)	1			1	1	
		Examinatio	on	Quiz	Portfolio	Prese Attitu	entation and ude	Other	Total	
Subtotal	0 0 80 20		20		0	100				
Basic Prof	ficiency 0 0 20 10		10		U	30				
Proficienc	alized 0 0 60 10		10		0	70				
Cross Area Proficiency		0		0	0	0		0	0	

	Anan Co	llege	Year	2024		C	ourse Title	Internship 2	
Course	Informa	tion							
Course Co	ode	5996K02			Course Categor	y	Specializ	ed / Elective	
Class Forr	nat				Credits		Academi	c Credit: 2	
Departme	ent	Advanced System Ei	Course of Creat	ive Technology	Student Grade		Adv. 1st		
Term		Year-roun	d		Classes per Wee	/eek 前期:2 後期:2			
Textbook Teaching	and/or Materials	At the dire	ection of the disp	patch training sup	ervisor / At the d	irectio	on of the o	dispatch training supervisor	
Instructor	-	Yasuno Er	miko,Zheng Tao						
Course	Objectiv	es							
1 Student given task 2. Studen the major	s can und ks. ts can dev	erstand the s velop a pract	situation of the t	raining organization I sense through p	on (company, res ractical training e	search experie	institute, ences anc	, university, etc.) and solve the I clarify their research objectives in	
Rubric			1		T				
			Ideal Level		Standard Level			Minimum Level	
Objective 1 Able to fin- issues after problem.				d work on related ving a given	Able to respond and resolve give	appro en issu	opriately t Jes.	o Able to respond to and resolve given issues at a minimum.	
Objective	Able to develop a practical and technical sense and apply it to research activities in the major. Able to develop a practical and technical sense and apply it to research activities in the major.				Able to develop technical sense and explain its r research activiti	a pra of the elatio es in t	ctical and subject nship to the major	Able to develop a minimum of practical and technical sense and explain the relationship to research activities in the major.	
<u>Assign</u> e	<u>d Depa</u> r	<u>tment Obj</u>	ectives						
Teachin	g Metho	od							
Outline		Undertake	e specialized pra	ctical training at d	lomestic and over	rseas	companie	s, research institutes, universities,	
Chulo		etc., to de	evelop an unders	standing of practic	al problems and	issues	and the	ability to respond appropriately.	
Style		90 nours	00 hours of class time						
Notice		internship (2) Stude superviso internship (3) If prac each inter (4) Any ex	nts must follow a r, as the internsl is undertaken o ctical training is mship site. xtra time outside	the instructions of hip will be conduc luring the summe conducted at mult e of the internship	their special rest ted at a company r vacation period iple locations, a p period must be	earch (, rese (inter oreser devote	supervisc arch insti nship per Itation an ed to spec	or and the internship site tute, etc. In principle, this iod) of the first year of the major. d report must be prepared for cial research.	
Charact	eristics of	of Class / I	Division in Le	arning					
Active	Learning		□ Aided by IC	т	Applicable to	Rem	ote Class	Instructor Professionally Experienced	
Course	Plan	1 1							
		Т	heme			Goals			
		1st							
		2nd							
		3rd							
		4th							
	1-1	5th C	coordination of th	ne recipient		Coordi and ot intern	inating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
	Quarter	6th C	coordination of th	ne recipient		Coord and ot intern	inating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
		7th C	coordination of th	ne recipient		Coordi and ot	inating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
1st Semeste r		8th C	coordination of th	ne recipient		Coordi and ot	inating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
		9th G	Guidance and pre	liminary meeting		(1) Ur advan meetin etc. (2 countr	nderstand ce throug ngs, and l 2) Unders ry and the	the purpose of the training in h guidance and pre-conference be prepared to learn social rules, tand the outline of the destination e content of the practical training.	
	2nd Quarter	10th P	ractical training	at the host institu	tion	Through practical training at domestic overseas companies, research instituti universities, etc., be able to respond a to issues under the supervision of the supervisor at the destination country		cal training at domestic and anies, research institutes, c., be able to respond appropriately the supervision of the training te destination country.	
	11th Practical training at the host institution					ution Through practical training at domestic overseas companies, research institute universities, etc., be able to respond a to issues under the supervision of the supervisor at the destination country			

		12th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	pmestic and institutes, spond appropriately of the training puntry.	
		13th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	mestic and institutes, spond appropriately of the training puntry.	
		14th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		15th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		16th								
	1st 2nd		Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
			Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the en report and oral	
3rc Ou		3rd	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
	3rd Quarter	4th	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
		5th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writi	esults of the ten report and oral	
2nd Semeste r		6th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to summarize the results of the internship in the form of a written report and oral presentation.			
		7th	Intern	ship debriefing			Internship debriefing presentations will provide an overview of the issues, solutions to those issues, and a summary of the internship.			
		8th								
		9th								
		10th								
		11th								
	4th	12th								
	Quarter	13th								
		14th								
		15th								
		16th								
Evaluati	ion Met	hod and	Weigh	t (%)	1			1	1	
		Examinatio	on	Quiz	Portfolio	Prese Attitu	entation and ude	Other	Total	
Subtotal	0 0 80 20		20		0	100				
Basic Prof	ficiency 0 0 20 10		10		U	30				
Proficienc	alized 0 0 60 10		10		0	70				
Cross Area Proficiency		0		0	0	0		0	0	

	Anan Co	llege	Year	2024		C	ourse Title	Internship 3	
Course	Informa	tion							
Course Co	ode	5996K03			Course Categor	y	Specializ	ed / Elective	
Class For	mat				Credits		Academi	c Credit: 3	
Departme	ent	Advanced System E	Course of Creat	ive Technology	Student Grade		Adv. 1st		
Term		Year-rour	nd		Classes per Wee	/eek  前期:3 後期:3			
Textbook Teaching	and/or Materials	At the dir	ection of the dis	patch training sup	ervisor / At the d	direction of the dispatch training supervisor			
Instructor	-	Yasuno Ei	miko,Zheng Tao						
Course	Objectiv	es							
1 Student given task 2. Studen the major	s can und ks. its can dev	erstand the s velop a pract	situation of the t ical and technica	raining organization Il sense through p	on (company, res ractical training e	earch experie	institute, ences and	university, etc.) and solve the l clarify their research objectives in	
Rubric									
			Ideal Level		Standard Level			Minimum Level	
Objective 1 Able to find and we issues after solving problem.				d work on related lving a given	Able to respond and resolve give	appro en issu	opriately t les.	b Able to respond to and resolve given issues at a minimum.	
Objective	Objective 2     Able to develop a practical and technical sense and apply it to research activities in the major.     Able to develop a practical and technical sense and apply it to research activities in the major.				Able to develop technical sense and explain its r research activiti	a prac of the elation es in t	ctical and subject nship to the major	Able to develop a minimum of practical and technical sense and explain the relationship to research activities in the major.	
Assigne	d Depar	tment Obj	ectives						
Teachin	g Metho	d							
Outline		Undertake	e specialized pra	ctical training at d	lomestic and over	rseas (	companie	s, research institutes, universities,	
Stylo		135 hours	evelop an unders	standing of practic	ai problems and	issues	and the	ability to respond appropriately.	
Style		(1) Studo	nte must coloct (	one of the Interne	hins 1 through 4	dono	ndina on	the total duration of the	
Notice		internship (2) Stude superviso internship (3) If prad each inter (4) Any e	). nts must follow f r, as the internsl o is undertaken o ctical training is f rnship site. xtra time outside	the instructions of hip will be conduc luring the summe conducted at mult e of the internship	f their special rest ted at a company r vacation period tiple locations, a p period must be o	earch /, rese (inter preser devote	superviso arch insti nship per Itation an ed to spec	r and the internship site tute, etc. In principle, this iod) of the first year of the major. d report must be prepared for cial research.	
Charact	eristics of	of Class /	Division in Le	arning					
Active	Learning	•	□ Aided by IC	л Т	Applicable to	Rem	ote Class	Instructor Professionally Experienced	
Course	Plan	. <u> </u>							
		Т	heme			Goals			
		1st							
		2nd							
		3rd							
		4th							
	1+	5th C	Coordination of th	ne recipient		Coordi and ot interns	her docu ship sites	ost families and preparing resumes ments to be submitted to the	
	Quarter	6th C	Coordination of th	ne recipient	(	Coordi and ot interns	her docu	ost families and preparing resumes ments to be submitted to the	
		7th C	Coordination of th	ne recipient	(	Coordi and ot interns	nating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
1st Semeste r		8th C	Coordination of th	ne recipient	(	Coordi and ot interns	nating ho her docu ship sites	ost families and preparing resumes ments to be submitted to the	
		9th G	Guidance and pre	liminary meeting		(1) Un advan meetir etc. (2 countr	iderstand ce throug ngs, and l ?) Unders y and the	the purpose of the training in h guidance and pre-conference be prepared to learn social rules, tand the outline of the destination e content of the practical training.	
	2nd Quarter	10th P	ractical training	at the host institu	ition i	Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropria to issues under the supervision of the training supervisor at the destination country			
11th Practical training at the host institution					tion universion		gh practical training at domestic and eas companies, research institutes, rsities, etc., be able to respond appropriately ues under the supervision of the training visor at the destination country.		

		12th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	pmestic and institutes, spond appropriately of the training puntry.	
		13th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	mestic and institutes, spond appropriately of the training puntry.	
		14th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		15th	Practic	al training at the h	ost institution		Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriately to issues under the supervision of the training supervisor at the destination country.			
		16th								
	1st 2nd		Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
			Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the en report and oral	
3rc Ou		3rd	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
	3rd Quarter	4th	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral	
		5th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writi	esults of the ten report and oral	
2nd Semeste r		6th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to summarize the results of the internship in the form of a written report and oral presentation.			
		7th	Intern	ship debriefing			Internship debriefing presentations will provide an overview of the issues, solutions to those issues, and a summary of the internship.			
		8th								
		9th								
		10th								
		11th								
	4th	12th								
	Quarter	13th								
		14th								
		15th								
		16th								
Evaluati	ion Met	hod and	Weigh	t (%)	1			1	1	
		Examinatio	on	Quiz	Portfolio	Prese Attitu	entation and ude	Other	Total	
Subtotal	0 0 80 20		20		0	100				
Basic Prof	ficiency 0 0 20 10		10		U	30				
Proficienc	alized 0 0 60 10		10		0	70				
Cross Area Proficiency		0		0	0	0		0	0	

Anan College Year 2024		Co	ourse Fitle	Internship 4						
Course	Informa	tion								
Course Co	ode	5996K04			Course Category	/	Specializ	ed / Elective		
Class Forr	mat				Credits		Academi	c Credit: 4		
Departme	ent	Advanced System E	l Course of Crea	tive Technology	Student Grade		Adv. 1st			
Term		Year-rour	nd		Classes per Wee	ek	前期:4 後	期:4		
Textbook Teaching	and/or Materials	At the dir	ection of the dis	patch training sup	ervisor / At the d	direction of the dispatch training supervisor				
Instructor	-	Yasuno E	miko,Zheng Tao	)						
Course	Objectiv	es								
1 Student given task 2. Studen the major	s can und s. ts can dev	erstand the elop a pract	situation of the situat	training organizational sense through p	on (company, res ractical training e	earch xperie	institute, nces and	university, etc.) and solve the clarify their research objectives in		
Rubric					1					
			Ideal Level		Standard Level			Minimum Level		
Objective	1		Able to find ar issues after so problem.	nd work on related Iving a given	Able to respond and resolve give	appro en issu	priately t es.	o Able to respond to and resolve given issues at a minimum.		
Objective 2			Able to develo technical sens research activ	p a practical and e and apply it to ities in the major.	Able to develop technical sense and explain its r research activiti	a prac of the elatior es in tl	tical and subject ship to he major	Able to develop a minimum of practical and technical sense and explain the relationship to research activities in the major.		
Assigne	d Depar	tment Ob <sup>.</sup>	ent Objectives							
Teachin	a Metho	d								
Outling	<u> </u>	Undertak	Indertake specialized practical training at domestic and overseas companies, research institutes, universiti							
Outime		etc., to de	evelop an under	standing of practic	al problems and i	issues	and the	ability to respond appropriately.		
Style		180 hours	s of class time	C + L - T - L						
Notice (3) If practical training is conducted at multiple locations, a presentation and report must be prepared for each internship site.							r and the internship site tute, etc. In principle, this iod) of the first year of the major. d report must be prepared for ial research			
Charact	eristics (	$\int (1/\pi) dx$	Division in Le	arning						
□ Active	Learning		Aided by I	CT	Applicable to	Remo	ote Class	Instructor Professionally Experienced		
			1		1					
Course	Plan									
		1	Theme			Goals				
		1st								
		2nd								
		3rd								
		4th								
		5th C	Coordination of t	he recipient	(	Coordii and oth	nating ho her docui	st families and preparing resumes ments to be submitted to the		
	1st Quarter	6th C	Coordination of t	he recipient	( [ [	Coordinand other	nating ho her docu	st families and preparing resumes ments to be submitted to the		
		7th C	Coordination of t	he recipient		Coordinand other	nating ho her docui	st families and preparing resumes ments to be submitted to the		
1st Semeste r		8th C	Coordination of t	he recipient	( ( ;	Coordii and otl nterns	nating ho her docui	st families and preparing resumes ments to be submitted to the		
		9th C	Guidance and pr	eliminary meeting	( a r e c	(1) Un advanc meetin etc. (2 country	derstand ce throug gs, and t ) Underst y and the	the purpose of the training in h guidance and pre-conference be prepared to learn social rules, cand the outline of the destination e content of the practical training.		
2nd Quarter		10th F	Practical training	at the host institu	- ition i t	Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appr to issues under the supervision of the trai supervisor at the destination country.				
		11th F	Practical training	aining at the host institution			Through practical training at domestic and overseas companies, research institutes, universities, etc., be able to respond appropriat to issues under the supervision of the training supervisor at the destination country			
								· ·		

		12th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	pmestic and institutes, spond appropriately of the training puntry.		
		13th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research i etc., be able to res der the supervision t the destination co	mestic and institutes, spond appropriately of the training puntry.		
		14th	Practic	al training at the h	ost institution		Through pra overseas cor universities, to issues und supervisor a	hrough practical training at domestic and werseas companies, research institutes, iniversities, etc., be able to respond appropriately o issues under the supervision of the training upervisor at the destination country.			
		15th	Practic	al training at the h	ost institution	Through pra overseas cor universities, to issues und supervisor a	ctical training at do mpanies, research etc., be able to res der the supervision t the destination co	omestic and institutes, spond appropriately of the training ountry.			
		16th									
		1st	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral		
		2nd	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the en report and oral		
	3rd Quarter	3rd	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral		
		4th	Prepar presen	ation of internship tation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writt	esults of the ten report and oral		
		5th	Prepar presen	ation of internship Itation	report, preparation	for	To be able to internship in presentation	o summarize the re the form of a writi	esults of the ten report and oral		
2nd Semeste r		6th	Prepar presen	ation of internship Itation	report, preparation	To be able to summarize the results of the internship in the form of a written report and oral presentation.					
		7th	Intern	ship debriefing		Internship debriefing presentations will provide an overview of the issues, solutions to those issues, and a summary of the internship.					
		8th									
		9th									
		10th									
		11th									
	4th	12th									
	Quarter	13th									
		14th									
		15th									
		16th									
Evaluati	ion Met	hod and	Weigh	t (%)	1			1	1		
		Examinatio	on	Quiz	Portfolio	Prese Attitu	entation and ude	Other	Total		
Subtotal	- ·	U		0	80	20		0	100		
Basic Prof	iciency	U		0	20	10		U	30		
Specialized Proficiency 0		0		0	60	10		0	70		
Proficienc	d Y	0		0	0	0	0 0				

	Anan Co	llege		Year	2024		Co	ourse Fitle	Comparative Cultuology	
Course	Informa	tion							•	
Course Co	ode	5117B0	2			Course Categor	ry	General	/ Compulsory	
Class For	mat	Lecture				Credits		Academi	c Credit: 2	
Departme	ent	Advance System	ed Co Engi	ourse of Creat ineering	ive Technology	Student Grade		Adv. 2nd	1	
Term		First Se	mest	ter		Classes per We	ek	前期:2		
Textbook Teaching	and/or Materials	[Textbo the Swo (Jikkyou	oks] ord (ł i shu	None used. P Koudansha), E Jppan)	rinted materials d Engineering Ethics	istributed as nee Cross-cultural (	eded. [F underst	Reference anding f	e book] The Chrysanthemum and or success in a global society	
Instructor	r	Fujii Tal	keto							
Course	Objectiv	es								
1. Able to contempo 2. Able to compariso 3. Able to	deepen u brary) with increase on of Japa deepen o	nderstandi a focus or awareness nese and C ne's own ii	ng o Eas as a Chine	of surrounding st Asia. a Japanese, an ese cultures. est in different	cultures through d explain the simi cultures from a li	study of the hist larities and diffe nguistic perspec	ory of i rences tive by	nternatio between practicin	onal society (especially modern and the two cultures, through g Chinese conversation.	
Rubric										
			I	deal Level		Standard Level			Minimum Level	
Achievem	Achievement 1			Able to give a of the history of nternational co ncluding the E especially in m contemporary	detailed account of the ommunity, ast Asian region, odern and periods.	Able to give an history of the ir community, inc Asian region, e modern and co periods.	overvie nternati cluding speciall ntempo	ew of the ional the East y in the orary	Able to explain the main points of the history of international society, including the East Asian region, especially in modern and contemporary periods.	
Achievement 2			A s b C	Able to explain similarities and between Japan Chinese culture	in detail the differences ese culture and e.	Able to give an similarities and between Japan Chinese culture	overvie differe ese cult e.	ew of the nces ture and	Able to explain the main points of similarities and differences between Japanese culture and Chinese culture.	
Achievement 3			A 0 (!	Able to fully pro of general Chin speaking and	actice the basics lese conversation listening).	Able to practice basics of gener conversation (s listening).	e at leas al Chine speaking	st the ese g and	Able to practice at least the basics of general Chinese conversation (speaking and listening).	
Assigne	d Depar	tment Ol	bjec	ctives						
Teachin	ig Metho	d								
Outline Detween Dutline Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detween Detwee		n con e cu n Jap ar, cu an i	mparison with Ilture. In this lo panese culture urrent events International so	other cultures, st ecture, we will foc and the cultures will be discussed a ociety.	udents will incre cus on several iss of East Asian co as much as poss	ase the sues re untries sible to	ir aware lated to t other the raise stu	ness of their own underlying che similarities and differences an Japan (China, Korea etc.). In dents' awareness as engineers		
Style		General Since th pre- and [Class ti	ly a l is co d pos ime:	/ a lecture format, but we would like to set themes for discussion at each hour. s course is an Academic credit course, students will be required to write reports and impressions a post-learning activities. ne: 30 hours + Self-study: 60 hours]						
Notice		Student be inter	s are spers	are expected to prepare for and review each lesson thoroughly. Chinese conversation practice will persed throughout the lecture time as needed.						
Charact	eristics	of Class /	<u>/ Div</u>	<u>vision in Le</u>	arning					
☑ Active	Learning			Aided by IC	Т	☑ Applicable to	o Remo	te Class	<ul> <li>Instructor Professionally</li> <li>Experienced</li> </ul>	
	-									
Course	Plan	1					0			
			Ine	eme			Goals	ovelain	the persection and points to keep in	
		1st	The	e significance c	of comparing differ	rent cultures	mind fo		al comparisons.	
		2nd	The	e significance c	of comparing differ	rent cultures	mind fo		al comparisons.	
		3rd	The	e significance c	of comparing diffe	rent cultures	culture examp	and Chi les.	nese culture with specific	
	1+	4th	Chir	na and Taiwar	1		Able to and co on the	give an ntempor People's	overview of the flow of modern ary East Asian history with a focus Republic of China.	
1st Semeste	Quarter	5th	Chir	na and Taiwar	1		Able to and co on Taiv	o give an ntempor wan.	overview of the flow of modern ary East Asian history, with a focus	
		6th	Јара	anese and Chi	nese		Able to betwee regard	explain en Japan to Chine	similarities and differences ese and Chinese, mainly with ese characters.	
		7th	Јара	anese and Chi	nese		Able to betwee regard	explain en Japan to Chine	similarities and differences ese and Chinese, mainly with ese characters.	
		8th	Chir	na, Korea and	Confucian Culture	e	Able to influen	explain ces, usin	the traditional Confucian cultural g China and Korea as examples.	
	2nd Quarter	9th	Јара	anese Culture	and Chinese Cult	ure	Able to give an overview of the influe Chinese culture on Japanese culture, specific examples			

	10th	Japanese Culture	and Chinese Cul	ture	Able to give an Chinese cultur specific examp	Able to give an overview of the influence of Chinese culture on Japanese culture, using specific examples.			
	11th	Japanese Culture	and Chinese Cul	ture	Able to carry of through basic	Able to carry out elementary conversation through basic practice of Chinese conversation.			
	12th	Japanese Culture	and Chinese Cul	ture	Able to carry of through basic	Able to carry out elementary conversation through basic practice of Chinese conversation.			
	13th	Japanese Culture	and Chinese Cul	ture	Able to carry of through basic	Able to carry out elementary conversation through basic practice of Chinese conversation.			
	14th	Japanese Culture	and Chinese Cul	ture	Able to carry of through basic	Able to carry out elementary conversation through basic practice of Chinese conversation.			
	15th	Japanese Culture	and Chinese Cul	ture	Able to carry of through basic	Able to carry out elementary conversation through basic practice of Chinese conversation.			
	16th	[Time for returnir	ng answers]						
Evaluation N	Method and N	Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal	60	0	0	0	0	40	100		
Basic Proficiency 50		0	0	0	0	30	80		
Specialized Proficiency	0	0	0	0	0	0	0		
Cross Area Proficiency	10	0	0	0	0	10	20		

Anan College		Year	2024		Co	ourse Title	Language and Literature			
Course	Informa	tion								
Course Co	ode	5197A03			Course Categor	γ	General /	Elective		
Class For	mat	Lecture			Credits		Academic	Credit: 2		
Departme	ent	Advanced System Er	Course of Creat igineering	ive Technology	Student Grade		Adv. 2nd			
Term		Second Se	mester		Classes per We	ek	後期:2			
Teaching	and/or Materials	KOSEN Ja	banese Ability I	(ANAN KOSEN)						
Instructor		Nishikori	lirofumi							
1. Able to	Objectiv express c	Pes Opinions on so	ocial themes by	clearly demonstra	ting evidence.	able to	evolain th	ne characteristics of its expression		
and cultu	ral value.									
RUDFIC			Ideal Level		Standard Level			Minimum Level		
Achievem	ent 1		Express opinion power by clear	ns with appealing ly demonstrating	State opinions of	on soci	al themes	State opinions on social themes		
			highly reliable social themes.	evidence on	reliable evidenc		ing	by clearly showing evidence.		
Achievement 2			Understand the background of waka literature appropriately e characteristics and cultural va own ideas.	e historical representative , and be able to xplain the of its expression lue, adding your	Understand the background of i waka literature appropriately ex characteristics of and cultural val	e histori represe and be xplain t of its e lue.	ical entative e able to the xpression	Understand the historical background of representative waka literature and be able to explain the characteristics of its expression and cultural value.		
Assigne	d Depar	tment Obj	ectives							
Teachin	Teaching Method									
Cultivate the ability to make an appropriate plan and with consideration for reliability, and express opinion The course focuses on works and expressions in Japa Subject matter from the perspective of the author, the the expression and structure of the work, and the eff Through the experience of communicating these und logical understanding and ability to communicate, expertion					plan and conduct s opinions with a ns in Japanese li author, the histo nd the effects of these understance nicate, express th	ct resea appeali teratur rical ba expres dings to hemsel	arch on so ng power e, cultivat ackground ssion. o each oth ves indep	ocial themes, present evidence such as presentation skills. ring the ability to understand the in which the work was written, her, students will deepen their endently, and build consensus.		
Style		A report is 30 hours o	required as pre of class time + 6	e- and post-learnir 0 hours of self-st	ng. udy					
Notice		It is desira	ble to have take	en Japanese Comp	prehensive and J	apanes	se Express	sion.		
Charact	eristics (	of Class / I	Division in Le	arning	1					
☑ Active	Learning		□ Aided by IC	T	☑ Applicable to	o Remo	ote Class	Experienced		
Course	Plan									
		Т	heme			Goals				
		1st S	election of socia	l themes	Select social themes using the brainsto method and the KJ method (team).			mes using the brainstorming KJ method (team).		
		2nd R	esearch on socia	al themes		Able to conside opinior	o use the ' eration of ns in a PP	Web, etc., to collect data with reliability and summarize T.		
		3rd R	esearch on socia	al themes		Able to conside opinior	o use the ' eration of ns in a PP	Web, etc., to collect data with reliability and summarize T.		
	3rd Quarter	4th S	haring opinions	on social themes		Share mutua eviden	opinions b lly advise ce, and a	based on the PPT presentation and each other on research methods, ppeal.		
2nd		5th S	haring opinions	on social themes		Share mutua eviden	opinions t Ily advise ce, and a	based on the PPT presentation and each other on research methods, ppeal.		
r		6th E	xpressing Opinic	ons with Clear Evic	lence	Be able throug	e to docur h your stu	ment what you have captured udy.		
		7th E	xpressing Opinic	ons with Clear Evic	lence	Be able throug	e to docur h your stu	ment what you have captured udy.		
		8th n	iidterm examina	tion		Study	Summary			
		9th M	anyoshu (Zouka	a)		Unders Manyo based	stand the shu, and on this ur	characteristics of Zouka in be able to write actual works iderstanding.		
4 Ç	4th Quarter	10th M	anyoshu (Soum	on)		Unders Manyo based	stand the shu, and on this ur	characteristics of Soumon in be able to write actual works iderstanding.		
		11th M	anyoshu (Banka	a)		Unders Manyo based	stand the shu, and on this ur	characteristics of Banka in be able to write actual works Iderstanding.		

		12th	Manyoshu (Azumauta, Sakimorinouta)				Understand the characteristics of Azumauta and Sakimorinouta in Manyoshu, and be able to write actual works based on this understanding.			
		13th	Kokins	hu and Shin-Kokins	shu	Understand Kokinshu an actual works	Understand the characteristics of Tanka in Kokinshu and Shin-Kokinshu, and be able to write actual works based on this understanding.			
		14th	Moder	Nodern and Contemporary Tanka				Understand the characteristics of Modern and Contemporary Tanka, and be able to write actual works based on this understanding.		
		15th	Moder	n and Contemporar	y Haiku	Understand the characteristics of Modern and Contemporary Haiku, and be able to write actual works based on this understanding.				
		16th	Return	of exam paper		Check your l	earning achieveme	nts.		
Evaluati	on Met	hod and	Weigh	t (%)						
		midterm/final exam		quiz	portfolio	prese ude	entation/attit	other	Total	
Subtotal		80		0	20	0		0	100	
Basic Prof	iciency	80		0	10	0		0	90	
Specialized Proficiency		0		0	0	0		0	0	
Cross Area Proficiency		0		0	10	0		0	10	

Anan Colle	ege	Year	2024		Course Title	Creative Technology System Eng. Special Research 2	
Course Informati	on		•		ŀ		
Course Code	5917G01			Course Category	Specialize	d / Compulsory	
Class Format				Credits	Academic	Credit: 10	
Department	Advanced C System Eng	Course of Creati jineering	ive Technology	Student Grade	Adv. 2nd		
Term	Year-round			Classes per Week	5		
Textbook and/or	Supervisors	will make intro	oductions as neces	ssary.			
Instructor	Okamoto H	iroyuki,Nakamu	ura Yuichi,Nishimo	oto Koji,Yasuno Em	iko,Zheng Tac	,Inoue Takafumi	
Course Objective	S						
1. Able to reflect on th 2. Able to conduct lite perspectives. 3. Able to formulate a 4. Able to communica of a team. 5. Able to to logically	ne four years erature revie plan to solva te research summarize 1	of study and e ws and learn ex e a problem an progress, resul :he research co	exploration related experimental and the d execute it on the ts, and own consi entent in a paper a	to specialized sub heoretical research eir own. derations to others and summarize the	jects in the co methods, and , and be able research sum	re major field. I consider results from multiple to fulfill one's role as a member mary in English.	
Rubric			••				
		Ideal Level		Standard Level		Minimum achievement level	
Achievement 1		Able to fully ref years of study a of specialized s core field of stu	flect on their four and exploration ubjects in their idy.	Able to fully reflect years of study and of specialized subj core field of study	t on their four d exploration jects in their	Able to reflect on their four years of study and exploration of specialized subjects in their core field of study.	
Achievement 2		Become familia research and experimental/th research metho to appropriately from multiple p	r with literature neoretical ods, and be able y consider results erspectives.	Able to study liter learn experimenta theoretical researd and consider resu multiple perspecti	ature and I and ch methods, Its from ves.	Have acquired the basics of literature research and experimental/theoretical research methods. Able to consider the result from multiple angles.	
Achievement 3		Able to researc what is needed problems and c their supervisor	h on their own to solve liscuss it with rs.	Able to carry out t by considering the opinions while dise their supervisors a	heir research ar own cussing with and others.	Able to carry out research under instructions from supervisor.	
Achievement 4		Able to underst the team and a communicate w supervisor and	and their role in ctively vith their other staff.	Able to communic supervisors and of the necessary role of a team.	ate with thers and play as a member	Able to have basic communication with your supervisor and play the minimum role as a member of a team.	
Achievement 5		Able to summa content logicall research in Eng	rize research y and summarize lish by oneself.	Able to logically su your research con referring to your s instructions. Able to summarize research summari referring to the in	ummarize tent by supervisor's e your y in English by structions.	Able to logically summarize research content according to the instructions of the supervisor. Able to create a research outline and English text according to the instructions of the supervisor.	
Assigned Departr	nent Obie	ctives		•			
Teaching Method							
Outline	This course reflect on their related sub- literature re- special resist supervisors design abili- conferences ethical thin	consists of a c ne content of th first and secor jects that form search, prepar arch, students . Through this ties for problem s, etc. to develo king skills.	omprehensive exe neir major field that nd years of major the basis of speci e English summar work on individua process, students n discovery and pr op presentation sk	ercise and special r at they have studie study, as well as d al research. In add ries, and write repo al research topics u will deepen their k oblem solving. The ills, and will be cor	esearch. In th d in their four eepen their st ition, students orts, and acqui nder the supe earning conter e results will b npiled into a s	e summary exercise, students th and fifth years of regular study udy of specialized subjects and swill learn how to conduct re basic research techniques. In rvision of their respective tregarding research and develop e presented at special research pecial research paper to develop	
Style	Style       How to proceed will be explained in the first week based on the general table and individual table of the ``Implementation Plan for Lessons in Summary Subjects'' and this syllabus. Evaluation will be performed by combining the evaluation of the summary exercise and special research. Special research will be evaluated based on special research papers, interim presentations, final presentations, the status of research efforts, etc. In the summary exercise, evaluation will be based on literature research, study reflection report, etc. The viewpoints and criteria for evaluation will be in accordance with the "Perspectives and standards for evaluating grades for learning/inquiry and their results (papers) in the 'Study Summary Subjects''' which will						
Notice	The summa addition, pla it is based of When solvin independen	ary exercise will ease communic on the courses ng problems, be tly.	I be held for one p tate thoroughly wi you have learned e sure to include y	period (90 minutes ith your academic in your regular cou your own ideas and	) every week, advisor to dete urse or the cou l arguments a	so please be sure to attend. In ermine your research topic so that Irses you will take in your major. Ind carry out research activities	
Characteristics of	Class / D	ivision in Lea	arning				
Active Learning		□ Aided by IC	T	□ Applicable to R	emote Class	□ Instructor Professionally Experienced	
Course Plan							
	Th	eme		Go	als		

		1st	Summary exercise	Literature survey related to the special research topic and summarize the research status in Japan and abroad.
		2nd	Summary exercise	Literature survey related to the special research topic and summarize the research status in Japan and abroad.
		3rd	Summary exercise	Literature survey related to the special research topic and summarize the research status in Japan and abroad.
		4th	Summary exercise	Literature survey related to the special research topic and summarize the research status in Japan and abroad.
	1st	5th	Summary exercise	Literature survey related to the special research topic and summarize the research status in Japan and abroad.
	Quarter	6th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
		7th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
1st Semeste r		8th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
		9th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
		10th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
	2nd Quarter	11th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
		12th	Summary exercise	Reflect on their learning of specialized mechanical engineering subjects, specialized subjects that form the basis of special research, and related subjects that have been studied in the regular and major courses.
		13th	Summary exercise	Create a study summary course plan.
		14th	Summary exercise	Create a study summary course plan.
		15th	Summary exercise	Create a study summary course plan.
		16th		
		1st	Summary exercise	A study summary course study plan presentation will be held.
		2nd	Summary exercise	Exercises will be provided on how to write academic papers and how to make presentations.
		3rd	Summary exercise	Exercises will be provided on how to write academic papers and how to make presentations.
		4th	Summary exercise	Exercises will be provided on how to write academic papers and how to make presentations.
		5th	Summary exercise	Exercises will be provided on how to write academic papers and how to make presentations.
2nd Semeste	Quarter	6th	Summary exercise	Create an English summary for the special research interim presentation and receive correction guidance from your supervisor and English instructor.
r		7th	Summary exercise	Create an English summary for the special research interim presentation and receive correction guidance from your supervisor and English instructor.
		8th	Summary exercise	Create an English summary for the special research interim presentation and receive correction guidance from your supervisor and English instructor.
	4th Quarter	9th	Summary exercise	Create an English summary for the special research interim presentation and receive correction guidance from your supervisor and English instructor.
		10th	Summary exercise	Create a summary of the summary subject results and a special research paper.

		11th	Summary ex	ercise		Create a summary of the summary subject results and a special research paper.				
		12th	Summary ex	ercise		Create and a	Create a summary of the summary subject results and a special research paper.			
		13th	Summary ex	mmary exercise			Create a summary of the summary subject results and a special research paper.			
		14th	Summary ex	Summary exercise			Create a summary of the summary subject results and a special research paper.			
		15th	Summary ex	ımary exercise			Create a summary of the summary subject results and a special research paper.			
		16th								
Evaluati	on Meth	od and V	Weight (%)							
		Examin	ation	Portfolio	Presentation / Approach attit	ude	Others	Total		
Subtotal		0		15	15		70	100		
Basic Prof	iciency	0		0	0		0	0		
Specialize Proficienc	pecialized 0			10	10		45	65		
Cross Are Proficienc	a y	0		5	5		25	35		

	Anan Co	llege	Year	2024		C	ourse Title	Creative Technology Seminar	
Course	Informa	tion							
Course Co	ode	5917T01			Course Catego	ry	Specializ	ed / Compulsory	
Class Forr	nat				Credits		Academi	c Credit: 1	
Departme	ent	System En	Course of Creat gineering	ive lechnology	Student Grade		Adv. 2nd	I	
Term		First Seme	ster		Classes per We	eek	前期:2		
Textbook Teaching	and/or Materials	Textbook a	nd/or Teaching	ı materials introdu	iced by each ins	tructor			
Instructor	-	Okamoto H Takanori,k	liroyuki,Nishimo adono Takuma	oto Koji,Kozai Taka	anori,Kamano M	lasaru,(	Ota Keng	o,Nakamura Atsunobu,Kozai	
Course	Objectiv	es							
1. Able to 2. Able to	understar understar	nd scientific a nd social dem	and technical literature in various fields, and explain nands and issues in each field, and explain their co				ontents. S.		
Rubric					1				
Ideal Level					Standard Leve			Unacceptable Level	
Achievement 1			Able to undersi of scientific and literature in ea to summarize i including one's considerations.	tand the content d technical ch field and able t in a report, own	Able to unders of scientific and literature in ea to summarize to report.	tand th d techn ch field the con	e content ical and able tent in a	Able to understand the basic matters of scientific and technical literature in each field and able to summarize the matters in a report.	
Achievement 2			Able to undersi demands and i field and able t solutions.	tand social ssues in each o propose	Able to unders social demands each field.	tand ar s and is	nd explain ssues in	Able to explain basic matters regarding social demands and issues in each field.	
Assigne	d Depar	tment Obje	ectives						
Teachin	g Metho	d							
Outline The aim of the course is to increase students' research and learning motivation and broaden their technical									
Style		Each instru	ictor brings a di	ifferent topic and i	introduces the la	atest te	chnologic	al information.	
Notice		Students s	hould not only l	isten to what thei	r instructors exp	blain, b	ut also alv	ways keep in mind the types of	
Charact	eristics (	of Class / F	ivision in Le	arning	neering problem	15 0330			
□ Active	Learning		□ Aided by IC	<u>аннид</u> Т	□ Applicable t	o Rem	ote Class	☐ Instructor Professionally	
					1				
Course	Plan								
		TI	heme						
		1st L	aser welding			Able to laser v	o read an velding.	d understand literature related to	
		2nd L	aser welding			Able to read and understand literature related to laser welding.			
		3rd Ex	amples of using chnology	g the latest inform	nation	Able to inform of soci techno	ble to learn about examples of the use of formation technology and understand the needs society and the evolution of information chnology.		
	1st Ouarter	4th Ex	amples of using chnology	g the latest inform	nation	Able to inform of soci techno	Able to learn about examples of the use o information technology and understand th of society and the evolution of information technology and summarize them in a report		
		5th LE	D usage examp	les and advanced	l technology	Able to applica utilize	o learn ab ation exar it.	out LED technology and explore mples and product examples that	
1st		6th LE	D usage examp	oles and advanced	l technology	Able to society	o Investig y demand	ate latest research on LEDs that Is and understand its contents.	
Semeste r		7th Fu	Indamentals and Indusing on Chat	d applications of d GPT ~	leep learning ~	Able to learnir	o underst ng, includ	and the basic principles of deep ing neural networks.	
		8th Fi	indamentals an ocusing on Chat	d applications of d GPT ~	leep learning ~	Able to examp systen	o researcl bles of de ns and su	n literature on application ep learning such as dialogue mmarize them in a report.	
		9th m	id term exam						
		10th Fu	Illerene and car	bon nanotubes		Able to fullere	o explain ne and ca	the structure and characteristics of arbon nanotubes.	
	2nd	11th Fu	Illerene and car	bon nanotubes		Able to examp them	o researcl ples of car in a repor	n literature on application bon nanotubes and summarize t.	
	Quarter	12th Ft	indamentals and emtosecond lase	d applications of c er technology and	ptics research)	Able to and at	o learn te ble to exp	chnology related to light and lasers lain its contents.	
		13th Fi	indamentals an emtosecond las	d applications of c er technology and	ptics research)	Able to examp and su	o researcl ples and r ummarize	n literature on application esearch related to light and lasers them in a report.	
		14th Q	uality control in	public works		Able to	o explain	quality control in public works.	

		15th	Quality	y control in publ	ic worl	ks		Able to research literature on quality control in public works and summarize them in a report.				
		16th	Term-	end exam, retu	exam, return marked exam papers							
Evaluati	on Met	hod and	Weigh	t (%)								
		Examinatio	n	Quiz	Pc	ortfolio	Beha	vior	Other	Total		
Subtotal		40		0	60	0	0		0	100		
Basic Prof	iciency	0		0	0		0		0	0		
Specialize Proficienc	d y	40		0	60	0	0		0	100		
Cross Are Proficienc	a v	0		0	0		0		0	0		

	Anan Col	lege	Year	2024		C	ourse Title	Practice for Creative Technology	
Course	Information	tion							
Course Co	ode	5917T02			Course Categor	γ	Specialize	ed / Compulsory	
Class For	mat				Credits		Academic	c Credit: 2	
Departme	ent	Advanced System E	Course of Creat	ive Technology	Student Grade		Adv. 2nd		
Term		First Sem	ester		Classes per We	ek	前期:4		
Textbook Teaching	and/or Materials	Timely dis	stribution of mat	erials					
Instructo	r	Nakamura	a Yuichi,Nishimot	to Koji,Okamoto H	liroyuki				
Course	Objectiv	es							
1. Able to 2. Able to 3. Able to 4. Able to 5. Able to	o discover, o research o analyze tl o fulfill one o give an e	consider, a the information ne information s role in a te asy-to-unde	nd solve problem ion needed to so on obtained and eam and create a rstand presentat	ns through discuss alve a problem by find solutions to y a cohesive technic ion about progress	sion form teams using various do our own challen al document tog s and final result	with st ocumen ges. ether v s.	udents of its. vith every	different courses. vone.	
Rubric									
			Ideal Level		Standard Level			Minimum achievement level	
Achievement 1			Able to form a students from demonstrate le organize discus	team with different majors, adership, and ssions as a team.	Able to actively discussions, and discussions as a students from c	partici d sumr a team differen	pate in narize the with It majors.	Able to participate in discussions, and summarize the discussions as a team with students from different majors.	
Achievement 2			Able to researce necessary to se using various of using one's ow	the information blve a problem by locuments and n initiative.	Able to research necessary to so collaborating w using various d	h infori lve pro ith othe ocume	mation oblems by ers and nts.	Able to research the information necessary to solve a problem by using various documents and using one's own initiative.	
Achievement 3			Able to compar own ideas with and propose in	re and integrate those of others provements.	Able to come u through discuss made up of stu- in other fields.	up with sions in dents r	solutions a team najoring	Able to come up with solutions in a team made up of students majoring in other fields.	
Achievement 4			Able to actively documents rela and business p leadership.	v create technical ated to inventions roposals with	Able to proactively create technical documents related to inventions and business proposals.		eate elated to ss	Able to create technical documents related to inventions and business proposals.	
Achievement 5			Able to proacting ive presentating status and fina leadership.	vely and clearly ons on progress l results with	Able to give an understand pre progress and fi	easy-t sentati nal res	o- on about ults.	Able to give presentations about progress status and final results.	
Assigne	d Depar	tment Obj	ectives						
Teachin	a Metho								
Outline		Aiming to initiative a compile to The aim is based on	step up from knowledge-understanding to creativity-cultivating engineers, students take the and work together as team members, combining their own ideas and discussing with each other to achnical documents. s to develop comprehensive "manufacturing" skills. This subject is taught in an exercise format design thinking.						
Style		Teams an themes a Through t Since this post-stud	e formed with students from different majors, and they work on everything from determining nd plans, researching prior art, creating plans, and writing invention and business proposals. team activities, students also acquire leadership and membership skills. s subject is an academic unit subject, you will be required to submit a report as part of your pre ly studies. [60 hours of class time + 30 hours of self-study time]						
Notice		Careful co In additio document	nsideration shound shound shound shound shound shound should be a shound shound shound should should should should be a should should should should be a should should should should be a should shoul	Ild be given to stu Id steadily carry o patent contest app	dents within the out everything fro plication docume	e group om dec ents wh	iding on a ile referri	a theme, creating technical ng to comments from instructors.	
Charact	eristics of	of Class /	Division in Le	arning					
Active	Learning	·	□ Aided by IC	T.	Applicable to	o Remo	ote Class	Instructor Professionally Experienced	
Course	Plan								
		Т	heme			Goals			
		1st C	)rientation dea thinking (inc	lividual)		Able to Able to	o understa o think an	and the purpose of the lesson. d come up with ideas.	
		2nd I	dea thinking (inc larket research (	lividual) individual)		Able to Able to	think an search f	d come up with ideas. or related prior art, patents, etc.	
		3rd I	dea thinking (inc larket research (	lividual) individual)		Able to Able to	think an search fo	d come up with ideas. or related prior art, patents, etc.	
1st	1ct	4th I	dea presentation	(individual)		Able to	o explain i	deas.	
Semeste r	Quarter	5th I	dea thinking (gro Iarket research (	oup) group)		Able to	think an	d come up with ideas	
		6th I	dea thinking (gro larket research (	oup) group)		Able to collabo	think an bratively in bratively fi	d come up with ideas n a group. or related prior art patents etc.	
		7th S	Froup presentation haring	on/discussion/info	rmation	Able to search fo Able to explain ic		eas.	

	8th		Idea thinking/mater Market research (gro	ialization (group oup)	)	Able to think and collaboratively in Able to make ide Able to search fo	l come a grou as con or relate	up with ideas ip. crete (diagrams). ed prior art, patents, etc.		
	9th		Idea thinking/mater Market research (gro	ialization (group oup)	Able to think and come up with ideas collaboratively in a group. Able to make ideas concrete (diagrams). Able to search for related prior art, patents, e					
	10th		Idea thinking/mater Market research (gro	ialization (group oup)	)	Able to think and collaboratively in Able to make ide Able to search fo	Able to think and come up with ideas collaboratively in a group. Able to make ideas concrete (diagrams). Able to search for related prior art, patents, etc			
2nd	11th		Presentation of conc research	market	Able to explain the art, patents, etc.	he spec	ific content of ideas, prior			
Quarter	12th		Invention/business	proposal creation	ı	Able to create in on your results.	Able to create invention/business proposals based on your results.			
	13th		Invention/business	ı	Able to create in on your results.	ventior	/business proposals based			
	14th		Presentation of inve	ntion/business p	Able to explain t	he prop	oosal.			
	15th		Submission of invention/business proposal			Able to complete patent contests.	Able to complete invention/case proposals for patent contests.			
	16th									
Evaluation Metl	nod a	٦d ١	Weight (%)							
		Examination		Portfolio		Presentation / App attitude	roach	Total		
Subtotal		0		50		50		100		
Basic Proficiency		0		0		0		0		
Specialized Proficie	ncy	0		25		25		50		
Cross Area Proficie	ncy	0		25		25		50		

Anan College			Year 2024			Cc	ourse Title	Advanced Physics			
Course Information											
Course Code 5997F05						Course Catego	Course Category Spec		alized / Elective		
Class For	mat	Lecture	Lecture					Academi	c Credit: 2		
Departme	ent	Advance System	Advanced Course of Creative Technology System Engineering					Adv. 2nd			
Term		Second	Seme	ester		Classes per We	eek <sup>2</sup>	後期:2			
Textbook Teaching	and/or Materials	10 Lectu	ires c	on Quantum N	lechanics (Shoho	Tanimura, The	Univers	ity of Na	goya Press)		
Instructor	ructor Sonoda Akihiko										
Course Objectives											
Explain the difference between micro and macro using thought experiment. Use Dirac's bra-ket formalism. Explain the Born rule. Explain Hermitian conjugate and Hermitian operators. Calculate the eigenvalues and eigenvectors with a simple example. Compute unitary transformations and matrix diagonalization. Compute the probability of a particle on a circumference or on a straight line. Explain Born's probability formula. Compute Pauli matrices. Derive the expressions of Robertson uncertainty relation and Kennard uncertainty relation. Describe the violation of the CHSH inequality. Solve time evolution equations for two-state systems. Compute the energy eigenvalues of harmonic oscillator using the generation and annihilation operators. Describe the wavefunctions of a harmonic oscillator with Hermite polynomials											
Rubric			•	,							
			Ideal Level			Standard Level			Minimum Level		
State vectors and operators			Able to discuss the necessity of infinite dimensional Hilbert spaces and find continuous spectrum of a particle.			Able to calculate the creation and annihilation operators of harmonic oscillators, and can find the eigenfunctions and energy eigenvalues.		reation tors of nd can s and	Able to caluclate a simple example of state vectors and operators.		
Probabilit quantum	Probability interpretations on quantum mechanics			Able to explain wave packet contraction and interference effects and calculate probabilities		Able to determ probability with example.	ine the a simple		Able to explain the difference between micro and macro using thought experiment.		
Quantum problems	effects an	d the	Ab ar so	ble to explain nd uncertainty blve the applie	entanglement relations and d problems.	Able to solve the standar examples of entangleme uncertainty relationships		lard nent and ps.	Able to compute the simple examples of uncertainty relations.		
Assigne	d Depar	tment Ol	oject	tives							
Teachin	ig Metho	d									
Outline Microscopic objects such as atoms and electrons to p mechanics is also related to engineering, and is funda metals, semiconductors, superconductivity, quantum and so on. In this lecture, we introduce the idea of qu on linear algebra, such as Hilbert space, state vectors matrix representations, and unitary transformations. momentum, quantum effects of noncommutative phy equations of motion, and finally, harmonic oscillator a of mathomatics, if noncorrections					trons to predict d is fundamenta quantum inform idea of quantun te vectors, prob mations. Then, tative physical c oscillator as a co	phenom al to all f nation, c n mecha bability, c the mai quantitie oncrete e	nena in ti fields of i quantum anics and operators in topics es, compo example.	ne microscopic world. Quantum materials properties such as computers, quantum chemistry, l explain abstract concepts based s representing physical quantities, of the course are position and osite systems and entanglement, The course also includes a review			
Style						s that they do not understand or The cycle of y understand their level of					
Notice		It is ass	umed	that the stud	dents understand	the contents of	physics	and mat	hematics studied in the regular		
Charact	eristics	of Class /	′ Div	vision in Lea	arning	ry, the students	Siloulu		hem before taking the course.		
□ Active Learning     □ Aided by ICT     □ Applicable to Remote Class						Instructor Professionally Experienced					
Course	Dlan										
			Thor	ne			Goale				
		1st	Fund	 Jamental cond	cept in quantum n	nechanics Explain the d		the diffe	ifference between micro and macro		
		2nd	State	e vectors	Use Dirac's bra-k		nougnt e ac's bra-	et formalism			
		3rd	Born	Born rule			Explain the Born rule				
		4th	Oper	Operators			Explain Hermitian conjugate and Hermitian operators				
	3rd Quarter	5th	Eigenvalues and Eigenvectors			Calculate the eigenvalues and eigenvectors with a simple example					
2nd Semeste r		6th	Matr diago				Compute unitary transformations and matrix diagonalization				
		7th	Posit	osition and momentum			Compute the probability of a particle on a circumference or on a straight line				
		8th	Midte	Midterm examination							
		9th	Com prob	mutative phy abilities	nd joint	Explain	Explain Born's probability formula				
	4th Quarter	10th	Quar quar	ntum effects o ntities	e physical	Compu	Compute Pauli matrices				
		11th	Unce	Incertainty relation				Derive the expressions of Robertson uncertainty relation and Kennard uncertainty relation			

		12th	Compo	sites systems and	entanglement	Describe the violation of the CHSH inequality			
		13th	Equation	on of motion		Solve time evolution equations for two-state systems			
		14th	Energy	v eigenvalues of a h	narmonic oscillator	Compute the energy eigenvalues of harmonic oscillator using the generation and annihilation operators.			
15th W				unctions of a harm	onic oscillator	Describe the wavefunctions of a harmonic oscillator with Hermite polynomials			
	16th Return of final examination								
Evaluation Method and Weight (%)									
Mid exa		Midterm/final exam		Quiz	Portfolio	Prese ude	entation/attit	Other	Total
Subtotal 50		50		20	30	0		0	100
Basic Proficiency 25			20	15	0		0	60	
Specialized Proficiency	н У	25		0	15	0		0	40
Cross Area Proficiency	a /	0		0	0	0		0	0

Anan College			Year	Year 2024		C	ourse Title	Applied Analysis			
Course Information											
Course Code 5997F0				Course Categor	e Category Specialize		d / Elective				
Class Forr	mat	Lecture				Academic		c Credit: 2			
Department Advance System		Advance System I	d Course of Creat Engineering	Student Grade		Adv. 2nd					
Term		First Sen	nester	ester		ek	前期:2				
Textbook Teaching	and/or Materials	Enshu to	Ouyo Bekutoru	Kaiseki, Saiensu Sł	าล						
Instructor	-	Sugino R	yuzaburo								
Course	Objectiv	es									
1. We car 2. We car 3. We car	<ol> <li>We can understand space vector and its functions, and compute of its fundamental computation.</li> <li>We can understand space curve and its curved surface and compute of its fundamental computation.</li> <li>We can understand scalar field and vector field and compute of its fundamental problems.</li> </ol>										
Rubric											
			Ideal Level		Standard Level			Unacceptable Level			
Achievement 1			We can unders vector and its compute of its computation a for the various	We can understand space vector and its functions, and we compute of its fundamental computation.			We can understand space vector and its functions, and we compute of its elementary computation.				
Achievement 2			We can unders and its surface compute of its computation a for the various	We can understand space curve and its surface, and we compute of its fundamental computation problems.			e We can understand space curve and its surface, and we compute of its elementary computation problems.				
Achievem	Achievement 3		We can unders and vector fiel compute of its computation a for the various	stand scalar field d, and we fundamental nd apply these problems.	We can underst and vector field compute of its f computation.	tand scalar field , and we fundamental		We can understand scalar field and vector field, and we compute of its elementary computation.			
Assigne	d Depart	ment Ob	jectives		•						
Teachin	a Metho	d	3								
Outline	Outline We are to make a concentration for our class and use the knowledges and techniques about basic mathematics to construction of understanding of the vector functions and its various problems made from										
Style		Our class 1. Review 2. Lectur 3. Short	Jur class is construction of the next three phases. 1. Review the important facts from the previous class. 2. Lecture about the new section. 3. Short exercises.								
Notice Please make a good preparation and self-review. You will build up the good style to do homework of the previous class											
Charact	eristics o	of Class /	Division in Le	arning							
Active Learning			□ Aided by I	CT	Applicable to	o Remo	ote Class	<ul> <li>Instructor Professionally Experienced</li> </ul>			
Course Plan											
			Theme		Goals						
		1st	Vector Algebra			We cai and co	n underst mpute its	and the various vector products fundamental problems.			
	1st Quarter	2nd	Vector function a	nd its Calculus		We can understand the derivatives of vector compute its fundamental problems.					
		3rd	Vector function a	nd its Calculus		We car compu	e can understand the integrals of vector ar mpute its fundamental problems.				
1st Semeste r		4th	Space Curves			We cai functio fundar	can understand the representation of vect tion and its curves and compute its damental problems.				
		5th	pace Surface			We can understand the arc length parametric representation of vector function and its curves and compute its fundamental problems.					
		6th	Mechanics and V		We car the fur proble	Ve can understand the relation mechanics and ne functions and compute its fundamental problems.					
		7th	Space Surface		We car and its proble	an understand the parametric representatio its surface and compute its fundamental lems.					
		8th	Mid-term examin								
	2nd	9th	Scalar and Vecto	calar and Vector Field			can understand the characteristic of scala d and Hamiltom operator and compute its damental problems.				
	Quarter	10th	Scalar and Vecto	r Field		We cai and ve problei	an understand the line integrals of scalar ector field and compute its fundamental ems.				

		11th	So	calar and Vector	Field		We can understand the area integrals of scalar and vector and compute its fundamental problems.				
		12th	In	tegral Theorem			We can understand the integral theorems of Gauss, Green, Stokes and compute its fundamental problems.				
		13th	In	tegral Theorem			We can understand laminer vector field and solenoidal one and compute its fundamental problems.				
		14th	O	rthogonal Curve	coordinates		We can understand the characteristic of implicit function and compute its fundamental problems.				
		15th	Orthogonal Curve coordinates				We can understand the calculus with coordinate transformation and compute its fundamental problems.				
	16t		Fi	nal examination							
Evaluati	on M	ethod and	We	eight (%)							
	Examination		ı	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal 60		50		0	0	0	40	0	100		
Basic Proficiency	iency 30			0	0	0	20	0	50		
Specialize Proficiency	d V	20		0	0	0	10	0	30		
Cross Area Proficiency		10		0	0	0	10	0	20		