Akashi College		Year 2022			Course Title	Mathematical Concepts		
Course	Informa	tion						
Course Co	ode	4409			Course Category	y General ,	' Elective	
Class Forr	mat	Lecture			Credits	School C	redit: 1	
Departme	ent	Architectu	architecture		Student Grade	4th	4th	
Term		Second S	cond Semester		Classes per Wee	ek 2	2	
Textbook Teaching								
Instructor		OMODA Y	'asuhiro					
	Objective stand the		linear algebra a	and can solve variou	us problems by a	cquiring calcula	tion skills on matrices and vectors	
(2) Under (3) Acquir	stand the re the abil	concepts of ity to apply a	calculus, can so	olve various question nework to specific is	ns by acquiring o			
Students'	level of a	chievement o	on each objectiv	ve above will be exa	amined through t	ests and the fir	nal exam.	
Rubric								
			Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Fully understand the various concepts of linear algebra, and can fully solve various questions by acquiring sufficient calculation skills on matrices and vectors.		Understand the various concepts of linear algebra, and can solve various questions by acquiring sufficient calculation skills on matrices and vectors.		Do not understand the various concepts of linear algebra, and cannot solve various questions by acquiring sufficient calculation skills on matrices and vectors.		
Achievement 2		Fully understand the concepts of calculus, can fully solve various questions by acquiring sufficient calculation skills.		Understand the concepts of calculus, and can solve various questions by acquiring calculation skills.		Do not understand the concepts of calculus, and cannot solve various questions as calculation skills is not acquired.		
Achievement 3		Fully have the ability to apply an abstract framework to specific issues.		Have the ability to apply an abstract framework to specific issues.		Do not have the ability to apply an abstract framework to specific issues.		
<u>Assigne</u>	d Depar	tment Ob	jectives					
Teachin	g Metho	d						
Outline		This cours develop n	se will review ar nathematical ab addition, it shou	nd do exercises on illities by solving nu lld be a revision for	the mathematics imerous of quest students who is	learned at KOS ions and to dev preparing for the	SEN. The goal of this course is to elop more advanced mathematics ne university entrance exam.	
Style				e lectures and prac			,	
Notice		not be be Students	neficial as prepa who miss 1/3 o	aration for a transform more of classes v	er examination.		to need, research them, and sive attitude towards the class will rade.	
<u>Charact</u>	eristics	of Class /	<u>Division in Le</u>	earning				
☑ Active	Learning		☐ Aided by I	СТ	☑ Applicable to	Remote Class	☐ Instructor Professionally Experienced	
Course	Plan							
			heme			Goals		
	3rd Quarter		inear algebra 1				sing elementary transformation.	
			inear algebra 2 inear algebra 3		ı	Can compute eigenvalues and eigenvectors.  Understand and can determine primary		
						independence.		
			inear algebra 4			Understand and can compute basis.		
			inear algebra 5.					
		l6th IL	inear algebra 6		ı	Can compute m Understand the	concepts of linear algebra and ca	
			inear algebra 6		l	Understand the compute linear	concepts of linear algebra and cal algebra.	
		7th	/arious question		 	Understand the compute linear Learn how to w	concepts of linear algebra and cal algebra. rite exams appropriately.	
2nd		7th \\ 8th \		ns		Understand the compute linear Learn how to we Learn how to we Understand the	concepts of linear algebra and cal algebra.	
2nd Semeste r		7th N 8th N	/arious question /lidterm exam One-variable cal	ns		Understand the compute linear Learn how to w Learn how to w Understand the functions.	concepts of linear algebra and car algebra. rite exams appropriately. rite exams appropriately.	
Semeste		7th N 8th N 9th C	/arious question /lidterm exam One-variable cal Calculus of multi	culus		Understand the compute linear Learn how to w Learn how to w Understand the functions. Understand the functions. Understand the functions.	concepts of linear algebra and car algebra. rite exams appropriately. rite exams appropriately. integration of one-variable	
Semeste	4th	7th N 8th N 9th C 10th C 11th C	/arious question /lidterm exam One-variable cal Calculus of multi Calculus of multi	culus ivariable functions		Understand the compute linear Learn how to w Learn how to w Understand the functions. Understand the functions. Understand the functions. Understand the functions.	concepts of linear algebra and ca algebra.  rite exams appropriately.  rite exams appropriately.  integration of one-variable  differential of multivariable  integration of multivariable	
Semeste	4th Quarter	7th N 8th N 9th C 10th C 11th C 12th C	/arious question /idterm exam One-variable cal Calculus of multi Calculus of multi	culus ivariable functions		Understand the compute linear Learn how to w Learn how to w Understand the functions.  Understand the functions.  Understand the functions.  Can solve quest multivariable fu	concepts of linear algebra and caralgebra.  rite exams appropriately.  rite exams appropriately.  integration of one-variable  differential of multivariable  integration of multivariable  ions with the calculus of one-variable  ions with the calculus of one-variable	
Semeste		7th	/arious question /idterm exam One-variable cal Calculus of multi Calculus of multi	culus ivariable functions ivariable functions ivariable functions	1 1 1 2 3 4	Understand the compute linear Learn how to we Learn how to we Understand the functions. Understand the functions. Understand the functions. Can solve quest multivariable furcan solve quest multivariable furcan solve simple.	concepts of linear algebra and caralgebra.  rite exams appropriately.  rite exams appropriately.  integration of one-variable  differential of multivariable  integration of multivariable  ions with the calculus of one-variable  ions with the calculus of one-variable	

16th Final	exam						
Evaluation Method and Weight (%)							
	Examination	Total					
Subtotal	100	100					
Basic Proficiency	100	100					
Specialized Proficiency	0	0					
Cross Area Proficiency	0	0					