Akashi College			Year	2023		Course Title	Computer Programming I			
Course	Informa	tion			-					
Course Co	ode	5129			Course Catego	ry Specialized / Compulsory				
Class Format Lecture					Credits	Academi	c Credit: 2			
Department Electrical a			and Computer Engineering		Student Grade	1st				
Term		Second Se	mester	ester		ek 2				
Teaching	and/or Materials									
Instructor HIRANO Masatsugu										
Course Objectives										
[1] Can p [2] Can w [3] Can w [4] Can w	erform bas vrite progra vrite progra vrite progra	sic Linux ope ams that con ams that con ams that con	rations. tain conditional tain iterations ir tain arrays in C.	branches in C. n C.						
Rubric										
			Ideal Level		Standard Level		Unacceptable Level			
Achievem	Achievement 1			Can perform basic Linux		asic Linux	Cannot perform basic Linux			
			operations accurately. operations		operations.	venee thet	operations.			
Achievem	ient 2		contain comple branches in C.	ex conditional	contain conditional branches in C.		contain conditional branches in C.			
Achievem	ient 3		Can write prog contain iteratio multiple ways.	vrite programs that in iterations in C in ple ways.		rams that ns in C.	Cannot write programs that contain iterations in C			
			Can write programs that use arrays and two-dimensional arrays in C.		Can write prog arrays in C.	rams that use	Cannot write programs that use arrays in C.			
Assigne	d Depar	tment Obi	ectives		•		·			
Teachin	a Metho	d								
Outline	<u>j</u>	The cours solving an	e will provide leo d programming	ctures and exercis skills.	es on programm	ning in C to esta	blish a foundation for problem			
Style The first week will be in the classroom, and the from second week, the class will be in the Information Basics Lab., the class will alternate between explanations about the conte learn for the week and doing programming exercises. Students are required to complete ten programming exercises.										
Notice		This cours in classes reports. Ir with the a assignmer Students	se's content will amount to 90 hours of study in total. These hours include learning time guaranteed s and the standard self-study time required for pre-study / review, and completing assignment in addition to the lecture hours, students should visit the Information Basics Lab frequently and learn attitude, "practice makes perfect." Students who have submitted fewer than six programming ents will not be eligible for a passing grade. who miss 1/3 or more of classes will not be eligible for a passing grade.							
Charact	eristics of	of Class / I	Division in Le	arning	-					
Active Learning			☑ Aided by IC	.CT I Applicable t		Remote Class Z Instructor Professionally Experienced				
							· ·			
Course	Plan									
		Т	neme			Goals				
2nd Semeste r	3rd Quarter	1st B	asic knowledge rocessing	of programming a	and information	Can list the components of a computer. Can use binary digits (integer and decimal), complement on 2, and 32-bit floating point numbers				
		2nd Li	nux, Emacs, cor	mpile, and run		Can perform basic Linux operations. Can write, compile, and run programs in C.				
		3rd V	ariables, types,	outputs, inputs, b	asic operations	Can use variables, arithmetic operators, and simple assignment operators. Can use the basic types accordingly. Can write programs that contain data inputs and outputs.				
		4th C	haracters, hexad ss of trailing dig	decimal numbers, jits	exponents,	Can use characters, hexadecimal numbers, and exponents. Can explain what the loss of trailing digits mean.				
		5th O	perators, logical	operations, casts	5	Can use assignment operators. Can perform logical operations and casts.				
		6th S	uctured programming, conditional branches 1 2			Can explain what the structure theorem is. Can write if statements.				
		7th C	onditional branc	ditional branches 2 of 2			Can write switch statements.			
		8th M	idterm exam							
		9th M	idterm exam co	mments, iteratio	n 1 of 3	Understand wh midterm exam.	ere you made mistakes on the Can write do statements.			
	4th Quarter	10th It	eration 2 of 3	eration 2 of 3			Can write while and for statements.			
		11th It	eration 3 of 3			Can write nested iterative statements.				
		12th A	rrays			Can explain sets and columns. Can scan, initialize,				
		13th A	gorithms and flo	owcharts		Can explain algorithms. Can write flowcharts.				

		14th	М	latrices and a two	o-dimensional arı	rays 1 of 2	Can add and subtract in matrices. Can add and subtract matrices using two-dimensional arrays.					
		15th	Μ	latrices and two-	dimensional arra	ys 2 of 2	Can multiply matrices. Can multiply matrices using two-dimensional arrays.					
		16th	Fi	inal exam								
Evaluation Method and Weight (%)												
		Examinatior	I	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal 7		70		30	0	0	0	0	100			
Basic Proficiency 0		0		0	0	0	0	0	0			
Specialized Proficiency 70		70		30	0	0	0	0	100			
Cross Area Proficiency 0		0		0	0	0	0	0	0			