Tsuyama Co	Tsuyama College Year 2022			Course Title	Basic Programming		
Course Information							
Course Code	0036			Course Category	Specializ	Specialized / Compulsory	
Class Format	Lecture			Credits	School C	School Credit: 2	
Department	Department of Integrated Science and Technology Communication and Informations System Program			Student Grade	2nd	2nd	
Term	Year-round			Classes per Week	2	2	
Textbook and/or Teaching Materials	Textbook:"Kurushinde oboeru C language" (Syuwa System)						
Instructor	KAWANAMI Hiromichi						
Course Objectives							

Learning purpose: To learn basic programming in C language, and to acquire the skill to read and write simple programs.

Course Objective:
1. To understand concept of variable and data type
2. To understand concept of assignment and operator, and to be able to program the expression
3. To understand concept of control structure, and to be able to program the conditional branching and the iterative processing
4. To understand concept of function, and to be able to program the source code involving the function

## Rubric

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	Excellent	Good	Acceptable	Not acceptable		
Achievement 1	The student can explain about concept of variable and data type adequately, and can apply them.	The student can explain about concept of variable and data type adequately.	The student can explain aspects of variable and data type.	The student can explain few aspects of variable and data type.		
Achievement 2	The student can explain about concept of assignment and operator adequately, and can apply them.	The student can explain about concept of assignment and operator adequately.	The student can explain about concept of assignment and operator.	The student can't explain about concept of assignment and operator.		
Achievement 3	The student can understand about concept of control structure, can explain about it adequately, and can apply it.	The student can understand about concept of control structure, can utilize it accordingly.	The student can understand about concept of control structure, can explain about it.	The student can't explain about concept of control structure.		
Achievement 4	The student can understand about concept of function, and can program the source code involving the various functions.	The student can understand about concept of function, and can program the source code involving the normal functions.	The student can understand about concept of function, and can program the source code involving the easy functions.	The student can't understand about concept of function.		
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## Assigned Department Objectives

Assigned Department Objectives					
Teaching Method					
Outline	General or Specialized: Specialized				
	Field of learning: Information system • Programming • Network				
	Foundational academic disciplines: Informatics/Information science, Computer engineering, and related fields/Software-related				
	Relationship with Educational Objectives: This class is equivalent to "(3) Acquire deep foundation knowledge of the major subject area".				
	Course outline: Learn the rules of grammar required for C language, and learn how to read and write simple program. Also, learn how to programing readable source code. Classes with understanding the process of the program, while incorporating as many exercises as possible.				
Style	Course method: Classes presentation lectures and programming exercises. There are reports for deepening understanding				
	For each quarter, evaluation is given by a exam (75%) + exercises (25%).  A cumlative score of each quarter is caluculated using an average of the evaluation up to the quarter.  Although a retaking exam is not planned, it may be performed depending on the situation. When It conducted, the total score of the quarter limits to 60 points.				

		Student	Precautions on the enrollment: Students must take this class (no more than one-third of the required number of class hours missed) in order to complete the 2nd year course.						
Notice		PDF files	Course advice: PDF files of this lecture slides are available. You are encouraged to input sample programs in the textbook yourself and understand the source code step by step against compilation errors.						
		Foundat Fundam	Foundational subjects: Fundamentals of Integrated Science and Technology (1st year), Information Literacy (1st)						
		Algorith	elated subjects: Igorithms and Data Structures (3rd year), Advanced Programming (4th), System Programming (5th), iraduation Thesis (5th)						
		Program Hope th	nce advice: nming skill can be acquired by self-directed learning. at the student has the programming environment in their homes. ework yourself. late to class is by half the class time, arriving late of two times will be treated as one time absence.						
Charact	eristics o	•	Division in Learning	, , , , , , , , , , , , , , , , , , ,					
☐ Active			☐ Aided by ICT	☐ Applicable	to Remote Class	☐ Instructor Professionally Experienced			
Must	compl	ete s	ubjects						
Course	Plan								
			Theme		Goals				
		1st	Guidance						
		2nd	Improvement of the programming and review programming of 1th year	environment, ar	Understand about basic format of C language				
		3rd	How to write program, and display	to the monitor	Display character	string using "printf" function			
	1st	4th	Display of the value, and calculation	า	Display character string and value using "printf" function				
	Quarter	5th	Memory of the value, and calculation	n	Understand how to use basic variable				
		6th	Input from the keyboard		Understand how to input from the keyboard using "scanf" function				
1st		7th	Conditional branching ("if" sentence sentence)	e and "switch"	Understand about "if" sentence and "switch" sentence				
Semeste		8th	1st semester mid-term exam						
		9th	Return and commentary of exam a	nswers	Review about incompetent learning content				
		10th	Repetition processing (1)		Understand about "while" sentence				
		11th	Repetition processing (2)		Understand about "for" sentence				
		12th	Repetition processing (3)			t "do-while" sentence			
	2nd Ouarter	13th	Function (1)		Understand about	t the concept of function			
	Quarter	14th	Function (2)		Understand about	Understand about the function definition and function declaration			
		15th	(1st semester final exam)						
		16th	Return and commentary of exam a	nswers	Review about incompetent learning content				
		1st	Guidance of 2nd semester						
		2nd	Function (3)		Understand about the self-build function				
		3rd	Treatment of variable (1)		Understand about treatment of the character				
			Treatment of variable (1)		variable and the character string				
	3rd Quarter	4th	Treatment of variable (2)			t the various variable type			
		5th	Array and string		Understand about	•			
		6th	Pointer variable (1)		Understand about the concept of the pointer				
		7th	Pointer variable (2)		Understand about the pointer variable				
2nd		8th	2nd semester mid-term exam		Review about incompetent learning content				
Semeste		9th	Return and commentary of exam a	nswers	Review about incompetent learning content				
r		10th	Structure (1)		Understand about the concept of the structure Understand about the program using the				
		11th	Structure (2)		structure  Understand about the loading file and the writing				
	4th Quarter	12th	Treatment of file		file  Understand about the loading file and the writing file				
		13th	Macro function		function				
		14th	Programming exercises		Solve exercise problem				
		15th	(2nd semester final exam)		Doview shout income that I am it				
16th   Return and commentary of exam answers   Review about incompetent learning conte						ompetent learning content			
Evaluati	on Meth	od and \	Veight (%)	I_					
			Examination			Total			
Subtotal			75	25		100			
Basic Proficiency			0	0		0			
Specialized Proficiency			75	25		100			

Cross Area Proficiency 0 0 0