Tsuyama C	a College Year 2021			Course Title	Basic Programming			
Course Information								
Course Code	0030			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	SORI Hitoshi,FANG Guanshen							
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

RUDIC					
	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.	

Assigned Department Objectives

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Style

General or Specialized: Specialized

Field of learning: Information system • Programming • Network

Required, Elective, etc: Must complete subjects

Foundational academic disciplines: Informatics/Information science, Computer engineering, and related

fields/Software-related

Outline Relationship with Educational Objectives:

This class is equivalent to "(3) Acquire deep foundation knowledge of the major subject area".

Relationship with JABEE programs: The main goals of learning / education in this class is "(A)".

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.

Course method:

Classes presentation lectures and programming exercises. There are reports for deepening understanding

Exams(80%)+Mini test and reports(20%)

Regular examinations will be conducted 4 times, first semester midterm, first semester final, second semester

midterm, second semester final

Moreover, as a general rule, retaking exams can't performed, but depending on the situation, it can performed. After retaking exams is performed, as a general rule, evaluation of regular exams is not exceed

score 60. Exam retakes are possible.

		Students	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.					
		Course advice: Print out PDF lecture documents. Input the sample programs yourself, understand the source code step by step if a compilation error happens.						
Notice			Foundational subjects: Fundamentals of Integrated Science and Technology (1st year), Information Literacy (1st)					
Notice		Algorithm	Related subjects: Algorithms and Data Structures (3rd year), Advanced Programming (4th), System Programming (5th),					
			on Thesis (5th)					
Progr Hope			nce advice: Iming skill can be acquired by self-directed learning. The student has the programming environment in their homes.					
Do homework yourself. Arriving late to class is by half the class time, arriving late of two times will be treated as one time a					e treated as one time absence.			
Charact	eristics o	of Class /	Division in Learning					
☐ Active	Learning		☐ Aided by ICT	☐ Applicable t	to Remote Class	☐ Instructor Professionally Experienced		
Course	Plan	Γ - I-			I			
		1	Theme		Goals			
		1	Guidance Improvement of the programming	environment				
		2nd	and review programming of 1th year	ar	Understand about basic format of C language			
		3rd I	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 I	Memory of the value, and calculation	n	Understand how to use basic variable			
			input from the keyboard		Understand how to input from the keyboard using			
			Conditional branching ("if" sentence	and "switch"	"scanf" function Understand about "if" sentence and "switch"			
1st Semeste			sentence)	e and switch	sentence			
r			Lst semester mid-term exam					
			Return and commentary of exam a	nswers	Review about incompetent learning content			
			Repetition processing (1)		Understand about "while" sentence Understand about "for" sentence			
			Repetition processing (2) Repetition processing (3)			t "do-while" sentence		
	2nd Quarter		Function (1)			t the concept of function		
	Quarter		Function (2)		Understand abou	t the function definition and		
		_	. ,		function declarati	on		
			(1st semester final exam) Return and commentary of exam a	newere	Review about incompetent learning content			
		<u> </u>	Guidance of 2nd semester	1344613	The state of the s			
			Function (3)		Understand about the self-build function			
		3rd	Freatment of variable (1)		Understand about treatment of the character variable and the character string			
	3rd	4th	Freatment of variable (2)		Understand about the various variable type			
	Quarter		Array and string		Understand about array			
		6th F	Pointer variable (1)		Understand about the concept of the pointer			
			Pointer variable (2)		Understand about the pointer variable			
2nd			2nd semester mid-term exam		Boylow about incompatent leaves a contest			
Semeste r			Return and commentary of exam a Structure (1)	nswers	Review about incompetent learning content Understand about the concept of the structure			
			Structure (2)		Understand about the program using the			
	4th Quarter		Freatment of file		Structure Understand about the loading file and the writing file			
		13th	Macro function		Understand about the program using the macro			
			Programming exercises		function Solve exercise problem			
			nd semester final exam)					
I I F			<u> </u>			Review about incompetent learning content		
Evaluation Method and Weight (%)								
			Examination	Report • Mini te				
			80	20		100		
			0	0		0		
			0	0		0		
Cross Area Proficiency				i				