Programming 6

Basic Course Information				
Course Number	02005100	Subject Category	Compulsory (C)	
Class Format	Lecture	Credit Type and Number of Credits	1	
Department	Computer	Student Category	Year 3	
Period of Study	Semester 2	Classes per Week	1	
Required Materials			_	
Instructor	Yuki Yoshikawa	Saunghninpwint Oo		

Course Objective

The occurse builds on the knowledge and understanding introduced in the previous subject, and provides students with basic involvables of C language. Students practice programming in C language, Data structure and algorithm are also content.

Evaluation(Rubric)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)		
Understanding programming for basic data	Able to explain programming for basic data structure	Able to explain programming for some of basic data structure	Unable to explain programming for basic data structure		
Understanding programming for tree data structure	Able to explain programming for tree data structure	Able to explain programming for some of tree data structure	Unable to explain programming for tree data structure		
Understanding programming for basic algorithms such as search and sort	Able to explain programming for basic algorithms such as search and sort	Able to explain programming for some of basic algorithms such as search and sort	Unable to explain programming for basic algorithms such as search and sort		
Understanding programming for advanced algorithms such as Backtracking method and Dynamic programming	Able to explain programming for advanced algorithms such as Backtracking method and Dynamic programming	Able to explain programming for some of advanced algorithms such as Backtracking method and Dynamic programming	Unable to explain programming for advanced algorithms such as Backtracking method and Dynamic programming		

Plastonaho with Learning Outcomes O(1) Ability to operate and administer the computer software and hardware O(2) Ability to understand the operating system and to develop software to solve specific problems. Please change

Teaching Method

Outline:	Lecture and practice, group work
Class Format:	
Please Note :	

urse Plan Semester 2	Contents and Method of Course	Goels	Related MCC		
Semester 2	Contents and Method of Course	GORIB	V-D 3 46		
		Ro able to understand and	V-D 5 (
Week 1	Introduction to C programming and algorithm	Be able to understand and explain what is algorithm and its complexity			
		and its complexity			
			V-D 3 -		
Week 2		Be able to understand and	V-D 3 -		
	C programming for Basic data structures Array, list, stack, queue	implement basic data structures such as Array and List in C			
	7 4 1007 1000 0 1000 0 100000	such as Array and List in C			
			V-D 3		
Week 3			V-D 3 -		
	C programming for Linked lists Circular list, Bidirectional list, Multiple list structure	Be able to understand and implement linked lists in C			
	Circular list. Bidirectional list. Multiple list structure	implement linked lists in C			
			V-D 3 -		
Week 4	C programming for Tree structures	Be able to understand and			
Week 4	C programming for Tree structures Binary trees, tree traversal, formula trees	Be able to understand and implement tree structures in C			
			V-D 3		
	C programming for Tree etc. etc. etc.	Be able to understand and implement tree structures in C	V-D 3		
Week 5	C programming for Tree structures Binary trees, tree traversal, formula trees	implement tree structures in C	10 5 .		

			V-D 3 -		
	C programming for Search	Be able to understand and			
Week 6	C programming for Search Linear search and binary search Hash method	implement search algorithms and hash method in C			
	Hash method	method in C			
	1		W.D		
		Be able to understand and	V-D 3		
Week 7	C programming for Search Linear search and binary search	implement search			
ALDRE L	C programming for Search Linear search and binary search Hash method	implement search algorithms and hash method in C			
		III III III III III III III III III II	1		
			IV-D 3 ⋅		
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Week 8	Midterm Report				
Week 9	Midterm Report				
			V-D 3		
			V-D 3 -		
Week 10	C programming for Sort Simple sorting algorithms	Be able to understand and implement simple sorting			
	Simple sorting algorithms	implement simple sorting algorithms inC			
			V-D 3 -		
Week 11	C programming for Sort Quick sort, heap sort	Be able to understand and			
THOUSE I I	Quick sort, heap sort	Be able to understand and implement advanced sorting algorithms in C			
			V-D 3 -		
		Re able to understand and			
Week 12	C programming for String search	Be able to understand and implement string search in C			
			V-D 4		
	C programming for Regular expressions and	Be able to understand and	V-D 3 :		
Week 13	C programming for Hegular expressions and automata		V-D 3		
		expressions and automata in C	V-D 3		
			V-D 3		
		Be able to understand and	V-D 3		
Week 14	C programming for various algorithms	implement Backtracking	V-D 3 -		
		Be able to understand and implement Backtracking method. Dynamic programming, etc.	V-D 3		
	1		W.D. 0		
		Be able to understand and implement Static and dynamic allocation Garbage collector	V-D 3 -		
Week 15	C programming for Memory management algorithms		V-D 3 -		
Week 10	Comment of the mental mental and the management of the control of	dynamic allocation Garbage collector	V-D 3 -		
			V-D 3 ·		
		Be able to understand and implement Static and dynamic allocation	V-D 3 -		
Week 16	C programming for Memory management algorithms	dynamic allocation	V-D 3 -		
		Garbage collector	V-D 3 !		
	1		V-D 3		
			V-D 3 4		
Week 17	Final Report		V-D 3 4		
			V-D 3		
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Week 18	Final Report				

Week 19					
	Review and conclusion				
	+	 			
	1				
Week 20					
Week 20					

	Examination	Qutz	Mutual Evaluations between student	Recort	Portfolio	Other
Basic Ability		20		20		
Technical Ability		20		20		
Interdisciplinary Ability		10		10		