

Syllabus

Course Title: C Programming Introduction
Course Code: 02-06
Product Code: B1

First Creation (Date - Version No.) :

* 20070723-00 (draft from Japanese Expert)

Revision History (Date – Version No.)

1	20070731-01	16	
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Final Version (Date - Version No.) :

Official Approval	Date of Report to PIU

Course Title <Japan-side>	Semester	Day of the week, Period	Credit	Instructor
C Programming Introduction				CAO Tuan-Dung

Course Description

C Programming practice in UNIX environment. The students practice one topic related to [C Programming Language] class week by week. The topics are standard educational topics in C programming language, for example, standard input, standard output, declaring variables, sequential processing, branches, loops, functions, arrays, record structures, pointers, etc. The students must have reports and exam at the end of semester in order to check the accomplishment.

Focus and Goal

Focuses: Methods to write and execute programs in C programming language on UNIX environment. Basic grammar of C programming language and usage of functions in standard libraries. Techniques to create simple programs as lower than about 100 lines in C programming language.

Goals: The students must understand educational topics in C programming language through the quizzes of this class. The students must learn the method to write basic specifications for the programs.

Courses which students are recommended to enroll in, but not required to

Computer literacy

Schedule <Japan-side>

1 st	Theme: Programming environment introduction, code editor
	Keywords: Linux desktop environment, login, account, password, Emacs
2 nd	Theme: Introduction to C programming language
	Keywords: program structures, program syntaxes, keywords, compiling and running programs
3 rd	Theme: Standard output introduction
	Keywords: printf
4 th	Theme: Variables, constant, Standard input
	Keywords: variables, basic data types, constants, scanf
5 th	Theme: Expressions
	Keywords: mathematic operators, boolean operators, conditional expressions
6 th	Theme: Branches
	Keywords: if, switch
7 th	Theme: Loops
	Keywords: for

8 th	Theme: Loops
	Keywords: while, do
9 th	Theme: Functions
	Keywords: arguments, return, prototypes
10 th	Theme: Arrays
	Keywords:
11 th	Theme: Pointers
	Keywords: memory addresses, pointer variables, passing pointers to functions
12 th	Theme: Arrays and pointers
	Keywords: pointer operators, passing arrays to functions
13 th	Theme: Strings
	Keywords: string functions
14 th	Theme: Structures
	Keywords: struct, typedef
15 th	Theme: Final Exam
	Keywords: nothing
Note	Linux and emacs should be introduced in the labs (C Programming Introduction course) Advanced topics such as dynamic memory, file streams, preprocessors will be taught in the C Programming Basic course

Out of class assignment
NO

Grading Criteria and Method of Evaluation		
Kind	Percentage	Evaluation Criteria
Examination	100%	nothing
Report	0%	nothing
Continuous Assessment	0%	nothing
Others	0%	nothing
Note: Continuous Assessment should be covered in the labs course		

Educational advice for enrolled students

The students should participate in all the classes, do exercises at home before the labs.

Textbooks

Title	Author	Publisher	ISBN code	Comment
Note				

Reference books

Title	Author	Publisher	ISBN code	Comment
The C Priver	Leslie Hancock, Morris Krieger	McGraw-Hill Education	0-201-54848-8	
The C Programming Language: ANSI C Version	Brian W. Kernighan	Prentice Hall	0-13-110362-8	
Note:				

Internet Websites related to the Course

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Contact

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Others

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