



MODULE DESCRIPTION

Module code	
Module name	Programowanie w języku C 2
Module name in English	Programming in the C Language 2
Valid from academic year	2012/2013

MODULE PLACEMENT IN THE SYLLABUS

Subject	Computer Science
Level of education	1st degree <i>(1st degree / 2nd degree)</i>
Studies profile	General <i>(general / practical)</i>
Form and method of conducting classes	Full-time <i>(full-time / part-time)</i>
Specialisation	
Unit conducting the module	The Department of Computer Science
Module co-ordinator	Grzegorz Łukawski, PhD, Eng.
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	Major <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	Polish
Module placement in the syllabus - semester	3rd semester
Subject realisation in the academic year	Winter semester <i>(winter / summer)</i>
Initial requirements	Programming in the C Language 1 <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	5

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	15		30	15	



TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	Programming with the use of dynamic structures. Familiarising with the use of external libraries in programs in the C language, e.g. with the CURSES library. Introduction to programming in the C++ language.
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Effect symbol	Teaching results	Teaching methods (l/c/l/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student is familiar with the methods of using external libraries in programs created with the C language.	l	K_W06	T1A_W03, T1A_W07
W_02	A student knows basic functions and possibilities of the CURSES library for UNIX systems.	l	K_W06	T1A_W03, T1A_W07
W_03	A student knows basic differences between C and C++ languages as well as basic assumptions of object-oriented programming.	l	K_W06, K_W11	T1A_W03, T1A_W07
U_01	A student can apply dynamic data structures to solve the posed problem with the use of a program in the C language.	l	K_U12	T1A_U08, T1A_U16
U_02	A student can use an external library in a program created in the C language.	l	K_U01, K_U12	T1A_U16
U_03	A student can use the function of the CURSER library to build a GUI in a program in the C language.	l	K_U01, K_U12	T1A_U16
K_01	A student can divide a programming issue into elements and co-operate in a team while implementing it.	p	K_K03	T1A_K03

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1-4	Using external libraries in programs in the C language based on the example of the CURSES library for UNIX systems.	W_01, W_02
5-7	Basic differences between C and C++ languages, the assumptions of object-oriented programming in C++.	W_03

Teaching contents as regards laboratory classes

Laboratory class number	Teaching contents	Reference to teaching results for a module
1-5	The fundamentals of programming in the C language with the use of dynamic memory allocation and dynamic data structures.	U_01
6-15	Programming with the use of the CURSES library in the C language in the environment of Linux operating system.	U_02, U_03

The characteristics of project assignments



Projekt współfinansowany ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego

A project assignment consists in preparing an application realising a particular functionality which is equipped with GUI (realised with the CURSES library) (U_02, U_03, and K_01).

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results (assessment method, including skills – reference to a particular project, laboratory assignments, etc.)
W_01	A final test on the lectures.
W_02	A final test on the lectures.
W_03	A final test on the lectures.
U_01	Assessing laboratory class assignments, a final test on laboratory classes.
U_02	Assessing laboratory class assignments, a final test on laboratory classes.
U_03	Assessing laboratory class assignments, a final test on laboratory classes. Assessing a project assignment.
K_01	Assessing a project assignment.

STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	15
2	Participation in classes	-
3	Participation in laboratories	30
4	Participation in tutorials (2-3 times per semester)	10
5	Participation in project classes	15
6	Project tutorials	5
7	Participation in an examination	-
8		
9	Number of hours requiring a lecturer's assistance	75 (sum)
10	Number of ECTS credit points which are allocated for assisted work (1 ECTS credit point=25-30 hours)	3
11	Unassisted study of lecture subjects	8
12	Unassisted preparation for classes	-
13	Unassisted preparation for tests	8
14	Unassisted preparation for laboratories	8
15	Preparing reports	8
16	Preparing for a final laboratory test	8
17	Preparing a project or documentation	15
18	Preparing for an examination	-
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	55 (sum)
21	Number of ECTS credit points which a student receives for unassisted work (1 ECTS credit point=25-30 hours)	2
22	Total number of hours of a student's work	130
23	ECTS credit points per module	5



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	<i>1 ECTS credit point=25-30 hours</i>	
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	91
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	3