



MODULE DESCRIPTION

Module code	
Module name	Programowanie w języku C 1
Module name in English	Programming in the C Language 1
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	2nd semester
Subject realisation in the academic year	Summer semester <i>(winter / summer)</i>
Initial requirements	The Fundamentals of Programming <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	4

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



TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The fundamentals of programming in the C language using Linux operating system. The aim of the module is to familiarize students with basic data types, conditional instructions, and loop commands. Functions and recurrence. Indicators, arrays, structures, and unions. Dynamic data structures. Constants and macros (macro definitions). Files.
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Effect symbol	Teaching results	Teaching methods (l/c/lp/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student can list and characterise simple, complex, and dynamic data types in the C language.	l	K_W06	T1A_W03
W_02	A student knows the fundamentals of creating programs in the C language using control instructions, functions, constants, and macro definitions.	l	K_W06	T1A_W03, T1A_W07
U_01	The ability of creating programs in the C language using various data types, control instructions, and functions.	l	K_U12	T1A_U09, T1A_U16
U_02	A student is able to implement the selected algorithm with the C language instruction.	l	K_U01, K_U12	T1A_U01, T1A_U09, T1A_U16
K_01	A student can divide a programming issue into elements and co-operate in a team while implementing it.	l	K_K03	T1A_K03

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1-5	The fundamentals of handling the Linux system, simple and complex data types of the C language.	W_01
6-10	Basic conditional and controlling instructions of the C language; functions and recursion.	W_01, W_02
11-15	Indicators and a dynamic memory allocation, dynamic data structures, constants and macro definitions. Files.	W_01, W_02

Teaching contents as regards laboratory classes

Laboratory class number	Teaching contents	Reference to teaching results for a module
1	The basics of handling the Linux system using the C language compiler.	U_01
2-5	Basic data types and control constructions of the C language.	U_01, U_02, K_01
6-7	Functions and files.	U_01, U_02, K_01

The methods of assessing teaching results



Effect symbol	Methods of assessing teaching results <i>(assessment method, including skills – reference to a particular project, laboratory assignments, etc.)</i>
W_01	A final test on the lectures.
W_02	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.
K_01	Assessing laboratory class assignments.

STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	30
2	Participation in classes	-
3	Participation in laboratories	15
4	Participation in tutorials (2-3 times per semester)	8
5	Participation in project classes	-
6	Project tutorials	-
7	Participation in an examination	-
8		
9	Number of hours requiring a lecturer's assistance	53 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	2
11	Unassisted study of lecture subjects	10
12	Unassisted preparation for classes	-
13	Unassisted preparation for tests	10
14	Unassisted preparation for laboratories	15
15	Preparing reports	-
16	Preparing for a final laboratory test	12
17	Preparing a project or documentation	-
18	Preparing for an examination	-
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	47 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS credit point=25-30 hours)</i>	2
22	Total number of hours of a student's work	100
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	4
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	50
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	2