

COURSE SYLLABUS AND COURSE REQUIREMENTS

ACADEMIC YEAR 2023/2024 SEMESTER AUTUMN

<i>Course title</i>	<i>Programming 1.</i>
<i>Course Code</i>	IVB053ANMI
<i>Hours/Week: le/pr/lab</i>	2/0/2
<i>Credits</i>	5
<i>Degree Programme</i>	Computer Science Engineering / BSc
<i>Study Mode</i>	Full time
<i>Requirements</i>	Mid-semester grade
<i>Teaching Period</i>	Autumn
<i>Prerequisites</i>	-
<i>Department(s)</i>	Department of System Software Technology
<i>Course Director</i>	
<i>Teaching Staff</i>	Péter Iványi

COURSE DESCRIPTION

A short description of the course (max. 10 sentences).

Neptun: [Instruction/Subjects/Subject Details/Basic data/Subject description](#)

Basic programming concepts. Programming in C: data types, number representation, control structures, operations, precedence, arrays, pointers, strings, pointer arithmetic, complex data structures, structures, recursive algorithms, file handling.

SYLLABUS

Neptun: [Instruction/Subjects/Subject Details/Syllabus](#)

1. GOALS AND OBJECTIVES

Goals, student learning outcome.

Neptun: [Instruction/Subjects/Subject Details/Syllabus/Goal of Instruction](#)

The course introduces students to the basic concepts of programming, using the C language as a tool to practice data types, control structures, standard I/O and file handling techniques.

2. COURSE CONTENT

Neptun: [Instruction/Subjects/Subject Details/Syllabus/Subject content](#)

TOPICS

LECTURE	TOPICS
	<ol style="list-style-type: none"> 1. Introduction, data entry and printing 2. Control structures 3. Operations, type conversion, functions 4. Pointers, arrays, strings 5. structures, complex data types, pointers 6. Recursive algorithms, file handling
LABORATORY PRACTICE	Practise what you have learned in the lecture

DETAILED SYLLABUS AND COURSE SCHEDULE

ACADEMIC HOLIDAYS INCLUDED

LECTURE

<i>week</i>	Topic	Compulsory reading; page number (from ... to ...)	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	--- Cancelled --- Collision			
2.	Practice			
3.	--- Cancelled --- Collision			
4.	Practice			
5.	--- Cancelled --- Collision			
6.	Practice			
7.	--- Cancelled --- Collision			
8.	Practice			
9.	--- Cancelled --- Holiday			
10.	Practice			
11.			Quiz and Practical programming exercise at different time: 17 th November, 16:00-18:00	
12.			Retake of Quiz at different time: 23 rd November, 15:00-17:00	
13.			Retake of Quiz and Practical programming exercise at different time: 1 st of December, 16:00-18:00	

PRACTICE, LABORATORY PRACTICE

<i>week</i>	Topic	Compulsory reading; page number (from ... to ...)	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	--- Cancelled --- Opening ceremony			
2.	Data entry and printing	[1] – Chap 1, 7		
3.	Control structures	[1] – Chap 1, 3		
4.	Mathematical operators	[1] – Chap 2		
5.	Practice			
6.	Arrays, functions, variable scopes	[1] – Chap 4, 5		
7.	Structures, pointers, types	[1] – Chap 5, 6		
8.	--- Cancelled --- Holiday			
9.	Practice			
10.	Practice			
11.			Quiz and Practical programming exercise at different time	
12.	Consultation			
13.			Retake of Quiz and Practical programming exercise at different time	

3. ASSESSMENT AND EVALUATION

ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance (e.g.: attendance sheet / online test/ register, etc.)

Attendance at 70% of classes is mandatory. The participation rate does not affect the grade, but an absence of more than 30% results in the subject being failed.

Attendance is checked on the basis of an attendance sheet

ASSESSMENT

Cells of the appropriate type of requirement is to be filled out (course-units resulting in mid-term grade or examination). Cells of the other type can be deleted.

Course resulting in mid-term grade (PTE TVSz 40§(3))

Mid-term assessments, performance evaluation and their ratio in the final grade (The samples in the table to be deleted.)

Type	Assessment	Ratio in the final grade
Quiz	Good answer +1 point, Bad or no answer -1 point According to Dean's order if the result of this assessment component is below 40% then it should be retaken	70 %
Practical programming exercise	Prerequisite: successful quiz Min requirements: The program can be compiled The program performs the required task According to Dean's order if the result of this assessment component is below 40% then it should be retaken	30 %

Opportunity and procedure for re-takes (PTE TVSz 47§(4))

The specific regulations for improving grades and resitting tests must be read and applied according to the general Code of Studies and Examinations. E.g.: all tests and assessment tasks can be repeated/improved at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.

The quiz and the practical programming exercise can be retaken on Week 13 and in the first week of the exam period.

Grade calculation as a percentage

based on the aggregate performance according to the following table

Course grade	Performance in %
excellent (5)	85 % ...
good (4)	70 % ... 85 %
satisfactory (3)	55 % ... 70 %
pass (2)	40 % ... 55 %
fail (1)	below 40 %

The lower limit given at each grade belongs to that grade.

4. SPECIFIED LITERATURE

In order of relevance. (In Neptun ES: Instruction/Subject/Subject details/Syllabus/Literature)

COMPULSORY READING AND AVAILABILITY

[1.] BRIAN W KERNIGHAN and DENNIS M. RITCHIE: The C programming language, 2nd edition, Prentice Hall, ISBN 0-13-110370-9