

# Computer Programming and Programming Languages



Lecturer, Phd, Eng.  
TEODORA SANISLAV

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# Who teaches

- Teodora Sanislav - lectures and laboratory sessions
  - Personal website: <http://users.utcluj.ro/~tsanislav/>
  - Email: [Teodora.Sanislav@aut.utcluj.ro](mailto:Teodora.Sanislav@aut.utcluj.ro)
  - Office address: 2 Observatorului Street, Room 301

## When is taught

- Lectures: 2 hours/week, 14 weeks with all students – every Monday, between 5:00 P.M. - 7:00 P.M., 26-28 Baritiu Street, Amphitheatre D21
- Laboratory sessions: 2 hours/week, 14 weeks with each half-group – every Wednesday and Friday as scheduled, 2 Observatorului Street, Rooms 310 and 309
- Self-study: 69 hours during the entire semester
- Worth 5 credits

## **CPPL, 2023 - 2024 Team, General chanel link:**

[https://teams.microsoft.com/l/team/19%3azZWn04u4Tl2qRp\\_cBE3sdTQPXTx0-k7j7JBtNmsC6081%40thread.tacv2/conversations?groupId=299fb250-67de-4ac4-b472-44f5b3a02a0d&tenantId=a6eb79fa-c4a9-4cce-818d-b85274d153055](https://teams.microsoft.com/l/team/19%3azZWn04u4Tl2qRp_cBE3sdTQPXTx0-k7j7JBtNmsC6081%40thread.tacv2/conversations?groupId=299fb250-67de-4ac4-b472-44f5b3a02a0d&tenantId=a6eb79fa-c4a9-4cce-818d-b85274d153055)

**CPPL, 2023 - 2024 Team code:** irvgx0r

# Where are the classrooms

- 26-28 Baritiu Street,  
Amphitheatre D21
- 2 Observatorului Street, 3th  
floor, Rooms 310 and 309



## What is taught

- To design and implement computer programs in the C programming language using the structured/modular approach
- To assimilate a programming style
- To determine the causes of programming errors and to correct them

# Means of teaching

## ■ Lectures

- CP introduction. C programming language history. Tokens
- Data representation. Data types. Variables and expressions. Statements. Programming style
- Arrays. Preprocessor directives
- Pointers
- Functions
- Memory management. Structured/Modular programming
- Strings. Command-line arguments
- Structures. Unions. Enumerations
- Files.

## ■ Lectures resources

- Slides available at <http://users.utcluj.ro/~tsanislav/teaching.html#cp>. The slides are made available in time for each lecture.
- Access password: CJCPPL
- C programming books available on CPPL, 2023 - 2024 Team

# Means of teaching

## ■ Laboratories

- Interactive Development Environments (IDEs) for C. Setting up and using Codeblocks IDE
- C Input/Output (I/O)
- Data Types and Expressions in C
- Statements in C
- Pointers in C
- Functions in C
- Dynamic Memory Allocation and Modular Programming
- Structures, Unions, Enumerations in C
- Files in C
- Strings in C

# Means of teaching

## ■ Laboratories structure by weeks

1st Week	2nd Week	...	12th Week	13th Week	14th Week
- Labor Protection - A short presentation of each student about him(her)self - Code::Blocks Introduction	Lab1	...	Lab 8	Recovery	Evaluation

## ■ Laboratory sessions resources

- ☐ Pdf documents available at <http://users.utcluj.ro/~tsanislav/teaching.html#cp>.
- ☐ Access password: CJCPPL
- ☐ PCs or laptops equipped with gcc compiler and Code::Blocks IDE



# Rules

- To pass the exam
  - Attend the laboratory sessions
    - Maximum 2 laboratory absents are allowed and they will be recovered at the end of the semester (13th week)
    - $2 \leq \text{No. of absents} \leq 4 \Rightarrow \text{Recovery fee}$
    - [https://www.utcluj.ro/media/decisions/2022/06/24/Regulamentul\\_ECTS.pdf](https://www.utcluj.ro/media/decisions/2022/06/24/Regulamentul_ECTS.pdf) - articles 6.4, 6.5
  - Study and learn
- Grading
  - 40% laboratory test (LT),  $LT \geq 5$
  - 60% written exam (WE),  $WE \geq 5$
  - $\text{Final} = 0.40 \cdot \text{LT} + 0.60 \cdot \text{WE}$

Very important!!!

Please do not be late!