Computer Programming and Programming Languages



Lecturer, Phd, Eng. TEODORA SANISLAV

October 2024

Who teaches

- Teodora Sanislav lectures and laboratory sessions
 - □ Personal website: http://users.utcluj.ro/~tsanislav/
 - □ Contact information
 - Email: Teodora.Sanislav@aut.utcluj.ro
 - Office address: 2 Observatorului Street, Room 301
 - Microsoft Teams chat whenever needed (but at reasonable hours)

When is taught

- Lectures: 2 hours/week, 14 weeks with all students every Monday, between 2:00 P.M. - 4:00 P.M., 26-28 George Baritiu Street, Amphitheatre D21
- Laboratory sessions: 2 hours/week, 14 weeks with each half-group

 every Tuesday and Wednesday as scheduled, 8 George Baritiu

 Street, Room BT6.03
- Consultation sessions: 1 hour/week, 8 George Baritiu Street, Room BT6.03 (if needed)
- Self-study: 69 hours during the entire semester
- Worth 5 credits

Where are the classrooms

 26-28 George Baritiu Street, Amphitheatre D21

8 George Baritiu Street, 6th floor, Room BT6.03





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

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	Lectures
	□ CP introduction. C programming language history. Tokens
	□ Data representation. Data types. Variables and expressions.
	Statements
	□ Arrays. Preprocessor directives. Programming style
	□ Pointers
	□ Functions
	□ Memory management. Modular programming. Debugging
	□ 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.

□ C programming books available on CPPL, 2024 - 2025 Team 6 of 9 (team code: nn5vo6d)

□ Access password: CJCPPL

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
- Strings in C
- □ Structures, Unions, Enumerations in C
- □ Files in C
- □ Embedded Systems Programming Case Study

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)(them)self - Code::Blocks Introduction	Lab1	 Lab 9	Recovery	Evaluation (Laboratory test)

- 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)
 - $2 \le \text{No. of absents} \le 4 \Rightarrow \text{Recovery fee}$
 - https://www.utcluj.ro/media/page_document/157/ECTS_2023.pdf - articles 6.4, 6.5
 - □ Study and learn
- Grading
 - \square 40% laboratory test (LT), LT \geqslant 5
 - \Box 60% written exam (WE), WE \geqslant 5
 - \Box Final = 0.40 * LT + 0.60 * WE

Very important!!!

Please do not be late!