The aim of this course is to teach and develop basic skills in programming one of the most common imperative languages - C language course is illustrated with many examples and accompanying classes in the studios of learning (through many small tasks and the final draft) good programming practice. It does not require participants in any previous programming skills, but students from starting zero will have to devote more work at home, to quickly level out. components language are introduced gradually, starting with the basic design and ending with the more advanced topics as indicators

and dynamic data structure. operations on files or recursive functions. Recent lectures are devoted to object C ++ components.

The procession lasts programming languages since the dawn of computing. Study languages C and C ++ makes it easy Start in their natural continuation, which currently include important from a commercial point view languages and environment: Java (Sun) and C # (Microsoft .NET).

Program:

- Basic language constructs: instructions and statements.
- Standard data types, expressions.
- Standard input / output filters.
- The functions, modules and program structure.
- Methods of aggregation arrays, structures and unions.
- Indicators.
- Dynamic memory management, the standard C library
- Sequential processing of files and free.
- Classes, objects, and streams in C ++.

Literature:

- Kernighan BW, Ritchie DM: ANSI C language series "Classics of Computer Science". Warsaw, Scientific-Technical Publishing, 2003. Reference Manual.
- Schildt B, C: The Complete Reference: covers C ++ and ANSI C, Osborne McGraw-Hill,
- ISO / IEC 9899 - Programming languages - C (the current standard ISO 1999).