

Course description:

The aim of the course is to introduce students to the first year of the basic fundamental tools to co-create, compile, run, publishing and documenting their programs and others.

This course is scheduled for 15 hours of lectures, 15 hours and 2 studio credits.

Program of the lecture:

- Working with Files and Directories Linux.
- Basics of Linux - processes, users, creeks and streams.
- Compiling and running programs: streams, gcc, standard inputs and outputs.
- Installing from sources and make command.
- The ssh command and the basics of cryptography.
- Version control systems on the example of a git.
- LaTeX.
- Bash scripts.

Workshop will be mainly consisted of independent exploration of the topics covered in the lecture. In many cases, the task for the workshop will require students to independently find a solution in the documentation or on the Internet.