Schedule of the course

Programming Concepts in Scientific Programming

EPFL, Master class

September 23, 2019

Program by day

- Friday 20-th Sep:
  - Presentation of the class
  - What is a program ?
  - Compilation process
  - Exercises: on Linux and manual compilation
- Monday 23-th Sep: Using GIT and CLion
- Friday 27-th Sep: Exercises on GIT and CLion
- Monday 30-th Sep: Chapter 2&3 - Flow control, File Input and Output
- Friday 04-th Oct: Exercises on Chapter 2 and 3

Program by day

- Monday 07-th Oct: Chapter 4: pointers + GDB
- Friday 11-th Oct: Chapter 4 exercises + GDB exercises
- Monday 14-th Oct: Chapter 5: blocks functions and reference variables + start exercises
- Friday 18-th Oct: Chapter 5: exercises
- Monday 21-th Oct: Chapter 6: An introduction to classes: Presentation about code organization and interface (animation) + exercises
- Friday 25-th Oct: Chapter 6: exercises
- Monday 28-th Oct: Chapter 7: Inheritance and derived classes: Animation about code reuse
- Friday 01-th Nov: Chapter 7: exercises
- Monday 04-th Nov: Chapter 8: classes of Templates
- Friday 08-th Nov: Chapter 8: exercises

Program by day

- Monday 11-th Nov: Chapter 9 (Errors and exceptions) + STL
- Friday 15-th Nov: Chapter 9 & STL exercises
- Monday 18-th Nov: Chapter 10 & 12: Design of code and projects presentations
- Friday 22-th Nov: Assignment of the projects
- Monday 25-th Nov: CMake, Doxygen and start of the project developments
- Friday 29-th Nov: Session dedicated to work on the projects
- Monday 02-th Dec: Session dedicated to work on the projects
- Friday 06-th Dec: Session dedicated to work on the projects
- Monday 09-th Dec: Session dedicated to work on the projects
- Friday 13-th Dec: Deadline for projects