# NPRG065: PROGAMMING IN PYTHON

# **PRACTICALS 1**





### **COURSE ORGANIZATION**



To pass the course and get the credits, you need to create a home project in Python:

- it does not need to be too large or complex
- similar to projects in other programming courses (Java, C#)
- minimum size: around 1 kloc (1000 lines of code)

The evaluation will be determined by the quality of the project:

- application design
- code structure
- code comments
- tests
- code quality in general

The topic can be arbitrary – games, utilities, libraries, data processing, ...

Programming in Python

# **COURSE ORGANIZATION – TIMELINE**



- The topic selection and approval: March 31, 2025
- Project submission deadline: June 27, 2025

Those are final dates, please keep them in mind!

# **ASSIGNMENTS**



- 1. Implement a Hello world program
- 2. Implement a function that computes the factorial of its argument
- 3. Implement a function that returns maximum of two values given via arguments
- 4. Implement a program that prints out its command line arguments in the reverse order

### **ASSIGNMENTS**



- 5. Implement a program that prints out the multiplication table for a number given as its command line argument
  - warning the command line arguments are strings
  - we need to convert it to integer via int(value)
- 6. Implement a program that returns maximum, minimum and average of non-negative numbers given via command line arguments

Programming in Python

# **ASSIGNMENTS**



7. Implement a program that prints out a "pine tree" made of stars:

- the height of the tree is given by the command line argument
- how to print without a new line: print(value, end='')



The slides are licensed under Creative Commons Attribution-NonCommercial 4.0 International License

https://creativecommons.org/licenses/by-nc/4.0



Programming in Python