

## *NC301 $\mu$ Introduction to Numerical Computing with SciPy*

### Project 1: Scipy application

This assessment evaluates the following competencies:

- *NC101 – Understand what is numerical computing* (+1)
- *PP401 – Use Numpy to represent multidimensional arrays and perform operations with them* (+1)

You may also be assessed on the following competencies:

- *PP411 – Draw a simple plot representing data with Matplotlib* (+1)
- *NC490 – Solve a given basic problem with the Scipy ecosystem* (+1)
- *PP431 – Select the appropriate algorithm of the Scipy module to solve a problem* (+1)
- *PP404 – Use Numpy to solve linear algebra problems* (+1)

In this project assessment, you have to write a simple application that uses the Scipy ecosystem. To succeed the assessment, you have to:

1. Write and test your application on your computer.
2. Compile your application in front of your teacher and prepare a short demonstration.
3. Explain to the teacher the structure of your code and answer his/her questions about how your program is working.