ECAM
BRUSSELS ENGINEERING SCHOOL

Winter 2020
Sébastien Combéfis

NC301μ Introduction to Numerical Computing with SciPy

Competencies List

This document provides the list of basic and advanced competencies, with a precise description, that can be acquired through the *NC301μ Introduction to Numerical Computing with SciPy* micro-course.

Basic Competencies

Basic competencies are specific to a teaching unit or activity and a 100% mastery level for all of them is required to succeed the teaching unit or activity (10/20).

Code	The learner is able to...
NC101	understand what is numerical computing.
PP401	use Numpy to represent multidimensional arrays and perform operations with them.
PP411	draw a simple plot representing data with Matplotlib.
NC490	solve a given basic problem with the Scipy ecosystem.

Advanced Competencies

Advanced competencies could be transversal to several teaching units or activities and increasing the mastery level of any of them is global to all the teaching units and activities where it is declared.

Code	The learner is able to...
PP431	select the appropriate algorithm of the Scipy module to solve a problem.
NC401	compare different numerical computing algorithms regarding performance and precision.
PP404	use Numpy to solve linear algebra problems.