Course: Programming 4 Elective OO — credits: 5

Course code	BFVM24PROGRAM4OO
Name	Programming 4 Elective OO
Study year	2025-2026
ECTS credits	5
Language	English
Coordinator	-
Modes of delivery	Assignment Lecture Tutorial
Assessments	Programming 4 Elective OO - Assignment

Learning outcomes

1. Design parallel solutions for computational problems.
1. Apply SOLID principles to software design.
1. Manage object life-cycle and multiple class interaction.
1. Use list comprehensions, generators, and map-reduce to design efficient parallel solutions.
1. Apply the Divide and Conquer mindset and algorithm to develop effective parallel solutions.
1. Deliver organized and responsible solutions to computational problems.

Content

In this module, we look some more into object life-cycle and multiple class interactions. After this, we look into the Divide and Conquer and Map Reduce algorithms, which provides us with the mindset of separating our unit of work into several sub-problems, that can be easily distributed over several machines.

Included in programme(s)

Master Data Sciences for the Life Science

School(s)

Institute for Life Science & Technology

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