



Course title	Problem Solving
Institute/Division	Faculty of Computer Science and Mathematics/ Department of Computer Science
Course code	F-1.PS1
Erasmus subject code*	11.3 Informatics, Computer Science
Number of contact hours**	30 lecture hours (30h)
Course duration	1 semester (spring or fall)
ECTS credits	4
Course description (max 100 words)	The students learn how to define the problems to solve and select the proper methods. They will try to formulate basic global optimization problems and implement heuristic search methods to solve them. They will work on individual projects.
Literature	All available materials on global optimization and heuristics.
Course type/organization	Projects (30h)
Assessment method	Realizing all project steps and presenting the results with the prepared report.
Prerequisites	Basic knowledge of object-oriented programming (any language). No prior mobile development or Dart experience required.
Primary target group	Computer science students: 2nd or 3rd-year Bachelor's students with good programming skills.
Contact person	Mateusz Nawrocki, M.Sc. Eng.
Remarks	N/A

*please insert one of the following codes:

- 11.0 Mathematics, Informatics
- 11.1 Mathematics
- 11.2 Statistics
- 11.3 Informatics, Computer Science
- 11.4 Artificial Intelligence
- 11.5 Actuarial Science
- 11.9 Others Mathematics, Informatics

**1 lecture hour=45 minutes