



Course title	Software Engineering
Institute/Division	Faculty of Computer Science and Telecommunication/ Department of Computer Science
Course code	F-1.SE
Erasmus subject code	11.3
Number of contact hours**	45h
Course duration	1 semester (Fall)
ECTS credits	6
Course description (max 100	The course is divided into two parts:
words)	1) Theoretical part that includes – UML, Design Patterns;
	2) Practical part – work in groups methodologies, automatic
	compiling with Make, version-control systems in git, automatic
	documentation with doxygen, refactotring, testing.
	You will learn all necessary methods to fit yourself well in a group
	realizing real-world computer projects.
Literature	The Scrum guide https://www.scrum.org/resources/scrum-guide
	R. Miles, K. Hamilton, 'Learning UML', O'Reilly 2006
	Gang of Four, 'Design Patterns: Elements of Reusable Object-Oriented
	Software' AW 1996
	M. Fowler, 'Refactoring: Improving the Design of Existing Code', AW
	2018
Course type/organization	Lectures + Computer laboratory
Assessment method	Group projects
Prerequisites	Programming in C/C++ and Python. Other programming
	languages will be advantage.
Primary target group	Engineers and computer scientists who are interested in practical use of
	computers and how to work in large IT/scientific projects.
Contact person	Radosław Kycia
Remarks	Nauosiaw Nyoid
Nemai No	

\*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
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