

Title Software engineering (Inżynieria oprogramowania)	Code 1010331461010330649
Field Computer Science	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: 1	Number of credits 5
	Language polish

Lecturer:

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Faculty:

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Status of the course in the study program:

Obligatory

Assumptions and objectives of the course:

Engineering approach to software development. Quality aspects of software product.
Agile approach to software development.

Contents of the course (course description):

Software quality criteria and their decomposition according to the ISO standard 9126. Other quality standards related to software. Main principles of quality management. Quality policies related to software production. Quality system. Quality audit and audit of a software product. User satisfaction with information and with a software product. Model EUCS (End User Computing Satisfaction). User profile.

Values and objectives of agile (soft) methodologies. Characteristics of hard methodologies and their comparison with agile ones. Roles of various stakeholders in the software process. Principles expressed in the Agile Manifesto. Agile methodologies: XP (eXtreme Programming), TDD (Test Driven Development), AMDD (Agile Model Driven Development), FDD (Feature Driven Development). Human factors in software development. Customer relationship management in a software factory. Competency profiles required in an agile approach. Ethical and social aspects in software production.

Introductory courses and the required pre-knowledge:

Software engineering methods discussed in the fifth semester.

Courses form and teaching methods:

Lectures and projects

Form and terms of complete the course - requirements and assessment methods:

Exam during the summer examination session (material of both semesters).
Project is assessed separately. The developed set of UML diagrams is required.

Basic Bibliography:

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Additional Bibliography:

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