

Title <b>Software engineering (Inżynieria oprogramowania)</b>	Code <b>1010334471010330579</b>
Field <b>Computer Science</b>	Year / Semester <b>4 / 7</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: -    Projects / seminars: <b>14</b>	Number of credits <b>6</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

Obligatory course of software engineering

**Assumptions and objectives of the course:**

Software quality assurance. Agile approach to software development. Human factors in software production. Ethics in software production.

**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:**

Knowledge and skills in software engineering learnt in the sixth semester

**Courses form and teaching methods:**

Exam and project

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

Exam

**Basic Bibliography:**

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**Additional Bibliography:**

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