**Nazwa przedmiotu:**

IT projects management

**Koordynator przedmiotu:**

Dr hab. Maria Ganzha, prof. PW

**Status przedmiotu:**

Obowiązkowy

**Poziom kształcenia:**

Studia II stopnia

**Program:**

Computer Science and Information Systems

**Grupa przedmiotów:**

Obligatory

**Kod przedmiotu:**

1120-IN000-MSA-0112

**Semestr nominalny:**

2 / rok ak. 2021/2022

**Liczba punktów ECTS:**

4

**Liczba godzin pracy studenta związanych z osiągnięciem efektów uczenia się:**

.

**Liczba punktów ECTS na zajęciach wymagających bezpośredniego udziału nauczycieli akademickich:**

.

**Język prowadzenia zajęć:**

angielski

**Liczba punktów ECTS, którą student uzyskuje w ramach zajęć o charakterze praktycznym:**

.

**Formy zajęć i ich wymiar w semestrze:**

|  |  |
| --- | --- |
| Wykład:  | 30h |
| Ćwiczenia:  | 0h |
| Laboratorium:  | 0h |
| Projekt:  | 30h |
| Lekcje komputerowe:  | 0h |

**Wymagania wstępne:**

Software engineering

**Limit liczby studentów:**

Bez limitu

**Cel przedmiotu:**

The objective of the course is to introduce students to foundations of project management, specifically, management of IT projects. After completing this course students have to know:
- basic principles of management of IT projects,
- the role of the Project Leader in the management process,
- key recommendations of PMBOK and of PRINCE2 based standards for project management,
- main IT project management standards, on the basis of RUP and Scrum
and have to be o be able to apply this knowledge in realization of IT projects.

**Treści kształcenia:**

Project definition. IT projects. Stakeholders.
Preparation of project card. Scope of the project. Decomposition of the scope of the project. Project schedule – suggested methods/techniques.
Controlling progress and budget. Risks management and communication.
Ethical aspects of work of project manager.
Procurement management. Competition among providers and offer selection. Negotiation and selling of IT project: internal and external customers.
IT system support: ITIL.
Overview of different methodologies in practice (PMBOK, PRINCE2, ITIL, IBM RUP, Scrum): where they are applied, how they are applied, advantages and disadvantages.
Concept of organization maturity based on CMMI standards.

**Metody oceny:**

Grade consists of: exam (material covered during the lectures) – 35% and project (planned and realized tasks, as well as unannounced tests) – 65%.
The final grade will be evaluated based on following rules:
- 91%-100% – very good (5.0),
- 81%-90% – above good (4.5),
- 71%-80% – good (4.0),
- 61%-70% – fairly good (3.5),
- 51%-60% – satisfactory (3.0),
- 0-50% – fail (2.0).

**Egzamin:**

nie

**Literatura:**

1. A guide to the project management body of knowledge (PMBOK Guide), 5th edition, Project Management Institute, 2013.
2. Managing Successful Projects with PRINCE2 Manual, Stationery Office, 2009.
3. K. Schwaber, Jeff Sutherland, Scrum Guide, http://www.scrumguides.org/
4. M. B. Chrissis, M. Konrad, S. Shrum, CMMI for Development®: Guidelines for Process Integration and Product Improvement, 2nd Edition, Addison-Wesley, 2007.
5. CMMI Product Team, CMMI® for Development, Version 1.3, CMMI-DEV, V1.3, Software Engineering Institute, November 2010, http://cmmiinstitute.com/resources/cmmi-development-version-13
6. A. Shuja, J. Krebs, IBM Rational Unified Process Reference and Certification Guide. Solution Designer, IBM Press, 2008.

**Witryna www przedmiotu:**

brak

**Uwagi:**

.

## Charakterystyki przedmiotowe

### Profil ogólnoakademicki - wiedza

**Charakterystyka W01:**

Knows the rules of conduct, which the Project Leader should follow and role of the project stakeholders

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_W04

**Powiązane charakterystyki obszarowe:**

**Charakterystyka W02:**

Knows the main methodologies of project management, which are based on PMBOK, RUP, Scrum, PRINCE2

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2AI\_W04, I2\_W03

**Powiązane charakterystyki obszarowe:**

### Profil ogólnoakademicki - umiejętności

**Charakterystyka U01:**

Is able to participate in initialization, planning, implementation and closing of the project and manage/supervise individual tasks, as well as the whole project; understands roles of the key documents, which are created during specific phases of the project

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_U11, I2\_U12

**Powiązane charakterystyki obszarowe:**

**Charakterystyka U02:**

Is able to apply, in practice, IT project management techniques, which are suggested by PMI, PRINCE2, RUP and Scrum methodologies

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_U11

**Powiązane charakterystyki obszarowe:**

**Charakterystyka U03:**

Is able to define of project implementation phases, as well as to manage complex IT project in practice, using of recommendations of the best methodologies and standards

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_U13

**Powiązane charakterystyki obszarowe:**

### Profil ogólnoakademicki - kompetencje społeczne

**Charakterystyka K01:**

Understands the responsibilities of all participants of the project, including those of the project manager, in project implementation

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_K05

**Powiązane charakterystyki obszarowe:**

**Charakterystyka K02:**

Understands importance of professional and ethical behaviour of the project leader, as well as of project participants

Weryfikacja:

results of the exam, tests, individual grades assigned to completed tasks (including the case study)

**Powiązane charakterystyki kierunkowe:** I2\_K06

**Powiązane charakterystyki obszarowe:**