

FACULTY OF MECHANICAL AND POWER ENGINEERING

SUBJECT CARD

Name of subject in Polish: Zarządzanie projektami w energetyce

Name of subject in English: Project management at energy sector

Main field of study (if applicable):

Specialization (if applicable):

Profile: academic

Level and form of studies: 2nd level, full-time

Kind of subject: optional

Subject code W08W09-SM0112W

Group of courses: NO

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)	30				
Number of hours of total student workload (CNPS)	75				
Form of crediting	Crediting with grade*				
For group of courses mark (X) final course					
Number of ECTS points	3				
including number of ECTS points for practical classes (P)					
including number of ECTS points corresponding to classes that require direct participation of lecturers and other academics (BU)	1,5				

*delete as not necessary

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

No prerequisites

SUBJECT OBJECTIVES

C1: Provide students with knowledge about project management

C2: Providing students with knowledge about the implementation of projects in the energy sector

SUBJECT EDUCATIONAL EFFECTS

Relating to knowledge:

PEU_W01 Has knowledge of projects, knows the basic components of the project and knows how to manage them.

PEU_W02 Knows and understands the basic conditions related to the implementation of projects in the energy sector....

Relating to social competences:

PEU_K01 He is ready to think and act in a project team.

PROGRAMME CONTENT

Lecture		Number of hours
Lec 1	Organizational classes. Presentation of the objectives and scope of the course and the conditions for passing. Introduction to project management	2
Lec 2	Project - definition, types, components, methodology.	2
Lec 3	Planning, preparation and organization of the project.	2
Lec 4	The realization of the project. Time, budget and project team management.	2
Lec 5	Threats in the project implementation process. Types and sources of risk.	2
Lec 6	Preparation of a project offer in the energy sector. Action tactics. Relations among: investor - contractor – competition.	4
Lec 7	Case studies I. Repairs of electrostatic precipitators filters in large power plants and combined heat plants in Poland. Case reports, photographic documentation, reflections and conclusions.	4
Lec 8	Case studies II. Repairs of gas block turbines in the European Union and in the Persian Gulf countries. Case reports, photographic documentation, reflections and conclusions.	4
Lec 9	Case studies III. Installation for CO2 capture in a large industrial plant.	2
Lec 10	Case studies IV. RES investments in the implementation of the "zero emission" program for large industrial companies.	2
Lec 11	Summary lecture. Scenarios for the development of the energy sector in Poland - at the base of implemented investment projects.	2
Lec 12	Final test	2
	Total hours	30

TEACHING TOOLS USED

N1. Presentation of knowledge in the form of direct transmission (lecture) - audiovisual means (slides, computer projector).
N2. Lecture materials available in electronic form.
N3. Case studies.
N4. Test.

EVALUATION OF SUBJECT LEARNING OUTCOMES ACHIEVEMENT

Evaluation (F – forming during semester), P – concluding (at semester end)	Learning outcomes code	Way of evaluating learning outcomes achievement
F1	PEU_W01 PEU_W02 PEU_K01	Active participation in classes - participation in discussions
F2	PEU_W01 PEU_W02 PEU_K01	Test

P = 04 F1 + 06F2

PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] P. J. Fielding., *Zarządzanie projektami. Realizuj zadania w terminie nie przekraczając budżetu*, Wyd. Lingea 2021

SECONDARY LITERATURE:

- [1] E. M. Goldratt, *Cel I. Doskonałość w produkcji*. Wyd. Mintbooks 2008

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

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