

## Project management at energy sector

Faculty of	<b>Mechanical and Power Engineering</b>
Name in English	<b>Project management at energy sector</b>
Name in Polish	<b>Zarządzanie projektami w energetyce</b>
Main field of study	<b>Power Engineering</b>
Specialization	-
Level of studies	<b>II level</b>
Form of studies	<b>full-time</b>
Kind of subject	<b>optional</b>
Subject code	<b>W08W09-SM1111</b>
Group of courses	<b>NO</b>

	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	Zaliczenie				
For group of courses mark final course with (X)					
Number of ECTS points	3				
including number of ECTS points for practical (P) classes					
including number of ECTS points for direct teacher-student contact (BU) classes	1,28				

### PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1.	No prerequisites
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### 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 LEARNING OUTCOMES

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

Form of classes - lecture		Number of hours
Wy1	Organizational classes. Presentation of the objectives and scope of the course and the conditions for passing. Introduction to project management	2
Wy2	The essence of sustainable development. Sustainable development and projects. PRISM essentials.	4
Wy3	Project - definition, types, components, methodology.	2
Wy4	Modern project management concepts	2

Wy5	The realization of the project. Planning, preparation and organization of the project. Time, budget and project team management.	2
Wy6	Threats in the project implementation process. Types and sources of risk.	4
Wy7	Preparation of a project offer in the energy sector. Action tactics. Relations among: investor - contractor – competition	2
Wy8	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
Wy9	Case studies II. Installation for CO2 capture in a large industrial plant.	2
Wy10	Case studies III. RES investments in the implementation of the "zero emission" program for large industrial companies.	2
Wy11	Summary lecture. Scenarios for the development of the energy sector in Poland - at the base of implemented investment projects.	2
Wy12	Final test	2
Suma godzin		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 EDUCATIONAL EFFECTS ACHIEVEMENT

Evaluation (F– forming (during semester), C– concluding (at semester end))	Educational effect number	Way of evaluating educational effect achievement
F1	PEU_W01 PEU_W02 PEU_K01	Active participation in classes - participation in discussions
F2	PEU_W01 PEU_W02 PEU_K01	Test
P1	P = 04 F1 + 06F2	

#### PRIMARY AND SECONDARY LITERATURE

Primary literature	
1	J. Carboni, W. Duncan, M. Gonzales, P. Milsom. M. Young., Zrównoważone zarządzanie projektami. Podręcznik GPM. Wyd. pm2pm 2020
2	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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