

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	Transitional team work, PG_00057330							
Field of study	Power Engineering							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits		2.0			
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Piotr Szczeciński					
	Teachers		dr inż. Piotr Szczeciński					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		2.0		18.0		50
Subject objectives	Proseminar where stu designedto character general objectives of work and learning ne content and correct in	ize the problem transitional wo cessary to solv	n being solved rk are: preparii eselected issu	or the issue dis ng the student t es alone, acqui	scussed for indep iring the	in as n benden ability	nuch detail as t methodical	s possible.The and systematic

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U01] is able to acquire information from literature, databases and other sources, has the ability of self-education in order to improve his/her professional competence (also in English), is able to prepare a simple scientific paper and its summary in English, as well as an oral presentation	Student presents the effects of work, discusses existing problems and remains open to suggestions from people in the group, exchanges experiences with other listeners. He shares his own previous experience, observations and gathered knowledge. Encountered design problems are discussed in the general forum. Thematic issues developed by each of the participants are coordinated in relation to the work performed by the team members.	[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
	[K7_U04] is able to plan and perform experiments using measurements and computer simulations, together with interpretation of results, is able to present and evaluate the course and results of work in a team realizing an advanced engineering project, is able to use technical documentation and to create it independently	Based on the analysis of literature, technological solutions used and introduced technologies in the issues described, the student performs simplified technical and economic analyses, additionally determining the impact of the technologies used and introduced impacts on technological processes, the power system, including the transmission and distribution network, as well as the internal installation.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
	[K7_K01] is aware of the necessity of self-education and self- improvement within the scope of his/her occupation as a power engineer and possibilities of further education	Student presents the effects of work, discusses existing problems and remains open to suggestions from people in the group, exchanges experiences with other listeners. He shares his own previous experience, observations and gathered knowledge. Encountered design problems are discussed in the general forum. Thematic issues developed by each of the participants are coordinated in relation to the work performed by the team members.	[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills
	[K7_K02] is able to work in a group and take on different roles	Project groups distribute tasks to each member of the group, the work is coordinated by people who develop thematic issues that make up the whole work. Development of the schedule. The process of obtaining information, analyzing information, adapting technological solutions	[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills
	[K7_K03] is able to think and act creatively and entrepreneurially, is aware of the responsibility for his/ her own work and takes responsibility for teamwork	Project groups distribute tasks to each member of the group, the work is coordinated by people who develop thematic issues that make up the whole work. Development of the schedule. The process of obtaining information, analyzing information, adapting technological solutions.	[SK3] Assessment of ability to organize work [SK2] Assessment of progress of work
	Writing a transitional thesis is carried introduction, containing a brief overv of the work, consistent with its scope solved, list of source literature used, requirements of the work, requireme assumed that both the number of pa the discussed issue or the problem b have is 15 to 20 standard pages	iew of the subject, purpose and scop and topic, conclusions along with th attachments: tables, drawings, etc.D nts for references, etc.There is no fix ges and its form should bestrictly ad	e of the work, substantive content e assessment of the problem being betermining the editorial ted size of transition work. It is apted to the substantive scope of

Prerequisites and co-requisites	Course content: preparing the student for independent methodical and systematic work and learning necessary to solveselected issues alone and in a group, acquiring the ability to formulate scientific content and correct inference, as well as the ability to conductdiscussions, gaining experience by the student enabling independent implementation of the later diploma thesis of a specific substantive scope discussed in class, divided and consisting of issues to besolved by particular people, or problems solved by particular people, a work consisting of a written text and apresentation presenting the achieved results of the task will be prepared. The definition of the subject results from the interests of students. The tasks adopted for implementation require an analysis of the current state and the state that can beobtained after the introduction of new technologies allowing for the introduction of changes in the existingtechnological, functional, ecological and economic processes. The scope of the analyzes is limited to theexisting state and to the state with a possible technical and technological change defined as a possibility bystudents and modified depending on the technologies learned and the possibility of their use. The analyzedchanges to the existing solutions result mainly from reducing the impact on the environment, reducing pertering better management of raw materials while maintaining the climate strategies adopted bythe EU. Form of classes Determining the tasks to be performed in a group and individually by each student. Division and assignmentof small tasks dedicated to individual people combined into thematic groups, During the classes, the progress of individual students' work is discussed, problems are identified andsolutions are sought for the implementation of thematic objectives is possible to use, e.g. is cheager orintroduces other economic, ecological effects, etc. What additional benefits can be achieved after the use of the analyzed technologies.			
A () ()	presentation for evaluation.		-	
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	Works	60.0%	10.0%	
	Based on the written study	60.0%	80.0%	
	Based on the presentation	60.0%	10.0%	
Recommended reading	Basic literature	ofliterature concern: 1. Electric energy storage techniques 2. Generation of thermal energy 3. Generation of electricity 4. Transmission of electricity. 5. Energy Law (after amendment) 6. Polish Energy Policy until 2040		
	Supplementary literature	1. Automation systems		
	 Control systems in power engineering DSM Mechanisms DSR mechanisms Electricity market6. Heating techniques 			
	eResources addresses	Adresy na platformie eNauczanie:		
	eResources addresses			

Example issues/ example questions/ tasks being completed	Thematic issues depend on the assigned topic pursued by students
Work placement	Not applicable