

Subject card

Subject name and code	Team project, PG_00057403								
Field of study	Mechanical Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			English			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessme	ssment form			assessment		
Conducting unit	Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Michał Klugmann						
	Teachers dr hab. inż. Michał Klugmann								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours included: 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		10.0		60.0		100	
Subject objectives	The aim of the course is to acquire by students the skills of preparation the written work of a scientific nature - by oneself - and to present it in the form of a speech at the forum. The work can be carried out individually or in teams of two students. The topic is chosen by the students or proposed by the teacher, related to the broadly understood power industry in a modern approach or focused on historical research. The work must contain elements such as: aim of the thesis, review of the literature and the state of knowledge, analytical or design part and conclusions.								

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RFZ K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper the knowledge throughout the whole life, is able to select proper the selection of teaching and learning [RFZ K01] as bite to acquire information from specialist literary sources and other sources are greating the construction and inclination of the selected topic. RFZ K01] is able to acquire information from specialist literary solicities are construction and inclination of scientific literature on a solicited topic. RFZ K01] is able to expirate model.	Learning outcomes	Course outcome	Subject outcome	Method of verification				
Information from specialist literary sources and other sources regarding the construction and operation of machines and related disciplines in polish and in a foreign language, its abile to synthesize the information, form conclusions and justify opinions [K7, U8] is able to design a procedural equipment of device compliant with the specifications using a design ad system in the form of a design documentation, selecting the appropriate model, performing ortical analysis with the proper selection of tools and technicologies [K7, K64] is able to establish professional contacts and is able to lead and work in a team assuming various roles in the assuming various roles in the resoluted and resent a presentation of a solution of a construction or technological task and results of performed or construction or technological task and results of performed experiments including the analysis of the results and possible changes in Polish or in a foreign language, is able to organize and manage the work of a team, directing the teaks and co-requisites Subject contents Subject passing criteria Subject passing cr		complementing the knowledge throughout the whole life, is able to select proper methods of	The effect of the work carried out	solve problems that arise in				
Prerequisites and corteria Presentation of device Compliant with the specifications using a design aid system in the form of a design documentation, selecting the appropriate model, performing critical analysis with the proper selection of tools and technologies [KT, KO4] is able to establish professional contacts and is able to lead and work in a team; is able to show resourcefulness and innovation when realizing professional projects [KT_UO4] is able to propare and present a presentation of a construction of a cons		information from specialist literary sources and other sources regarding the construction and operation of machines and related disciplines in polish and in a foreign language, is able to conduct a self-learning process, is able to synthesize the information, form conclusions and justify	review of scientific literature on a	fulfilment [SU4] Assessment of ability to				
brofessional contacts and is able to lead and work in a team assuming various roles in the team; is able to show resourcefulness and innovation when realizing professional projects [K7_U04] is able to prepare and present a presentation of a solution of a construction or technological task and results of performed experiments including the analysis of the results and possible changes in Polish or in a foreign language, is able to organize and manage the work of a team, directing the tasks Subject contents - Organizational meeting, establishing and discussing the topics of work Consultation meetings, individual discussion of progress and emerging questions with students Presentations of partial results of the work Presentation of the final version of the work with discussion and evaluation. Prerquisites and cor-requisites Assessment methods and criteria Subject passing criteria Subject passing criteria Passing threshold Percentage of the final grade Written work Persentation Subject passing criteria Passing threshold Percentage of the final grade Written work Persentation Selected individually to the topic of work. Selected individually to the topic of work. Example issues/ example questions/ tasks being completed		procedural equipment or device compliant with the specifications using a design aid system in the form of a design documentation, selecting the appropriate model, performing critical analysis with the proper selection of tools and	engineering project or to critically discuss and synthesize the	analyse information [SU4] Assessment of ability to				
present a presentation of a solution of a construction or technological task and results of performed experiments including the analysis of the results and possible changes in Polish or in a foreign language, is able to organize and manage the work of a team, directing the tasks Subject contents Organizational meeting, establishing and discussing the topics of work. Consultation meetings, individual discussion of progress and emerging questions with students. Presentations of partial results of the work. Presentation of the final version of the work with discussion and evaluation. Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Written work Presentation Selected individually to the topic of work. Selected individually to the topic of work. Example issues/ example questions/ tasks being completed Presentation of a solution of the final version of work. Selected individually to the topic of work.		professional contacts and is able to lead and work in a team assuming various roles in the team; is able to show resourcefulness and innovation when realizing professional	knowledge in external sources and entities - scientific institutions,					
- Consultation meetings, individual discussion of progress and emerging questions with students Presentations of partial results of the work Presentation of the final version of the work with discussion and evaluation. Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Written work Presrentation Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Example issues/ example questions/ tasks being completed Sometimes and emerging questions with students. Presentation of the work. Subject passing criteria Passing threshold Percentage of the final grade 80.0% Persentation Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Adresy na platformie eNauczanie: Selected individually to the topic of work.		present a presentation of a solution of a construction or technological task and results of performed experiments including the analysis of the results and possible changes in Polish or in a foreign language, is able to organize and manage the work of	the effects of work in a public	fulfilment [SU5] Assessment of ability to				
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Written work 56.0% 80.0% Presrentation 56.0% 20.0% Recommended reading Basic literature Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Example issues/ example questions/ tasks being completed Selected individually to the topic of work. Selected individually to the topic of work.	Subject contents	 Consultation meetings, individual discussion of progress and emerging questions with students. Presentations of partial results of the work. 						
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and criteria Written work Presrentation Selected individually to the topic of work. Supplementary literature Presources addresses Adresy na platformie eNauczanie: Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Selected individually to the topic of work.	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
Recommended reading Basic literature Supplementary literature Selected individually to the topic of work. Supplementary literature Selected individually to the topic of work. Resources addresses Adresy na platformie eNauczanie: Selected individually to the topic of work. Selected individually to the topic of work.		, , ,						
Supplementary literature Selected individually to the topic of work. eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed Selected individually to the topic of work.		Presrentation	56.0%	20.0%				
Supplementary literature Selected individually to the topic of work. eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed Selected individually to the topic of work.	Recommended reading	Basic literature	Selected individually to the topic of work.					
Example issues/ Selected individually to the topic of work. example questions/ tasks being completed		Supplementary literature						
Example issues/ example questions/ tasks being completed Selected individually to the topic of work.								
Work placement Not applicable	example questions/							
	Work placement	Not applicable						

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