POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name			
Transport i magazynowanie paliw ga	izowych		
Course			
Field of study		Year/Semester	
Transport		3/6	
Area of study (specialization)		Profile of study	
Engineering of Pipeline Transport		general academic	
Level of study		Course offered in	
First-cycle studies		Polish	
Form of study		Requirements	
full-time		elective	
Number of hours			
Lecture	Laboratory classes	Other (e.g. online)	
30	15	0	
Tutorials	Projects/seminars		
0	0		
Number of credit points			
2			
Lecturers			
Responsible for the course/lecturer:		Responsible for the course/lecturer:	
dr hab. inż. Rafał Ślefarski			
email: rafalslefarski@put.poznan.pl			
tel.: 616652218			

Piotrowo 3, 60-965 Poznan

Prerequisites

Basic information about thermodynamics, fluid mechanics and heat exchange. Knowledge about the construction of powered energy machines and transport processes. Is able to prepare and present a short presentation of the results of an engineering task by communicating using specialized terminology. Is aware of the need to expand their competences, readiness to cooperate within a team

Course objective

To familiarize students with aspects of the gas fuel transport process, gas fuel storage, and construction of machinery and equipment for gas fuel transport.

Course-related learning outcomes

Knowledge



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The student has extended and in-depth knowledge of physics useful for formulating and solving selected technical tasks, in particular for correct modeling of real problems

The student has knowledge of important development trends and the most important technical achievements and of other related scientific disciplines, in particular transport engineering

Skills

The student has the ability to formulate tasks in the field of transport engineering and their implementation using at least one of the popular tools

The student is able to design elements in the field of transport engineering and construct simple machines

Social competences

The student is aware of the social role of a technical university graduate, in particular, he/she understands the need to formulate and transfer to the society, in an appropriate style, information and opinions on engineering activities, technological achievements, as well as the achievements and traditions of the transport engineer profession

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture - written exam. Obtaining credit from a minimum of 51% of the points possible to get. There is a possibility of an oral question to raise the grade.

Laboratories - positive evaluation of reports on exercises performed

Programme content

resources of conventional and unconventional gas fuels, gaseous fuel purification processes, gas fuel transport, reduction stations, elements of reduction station construction, energy storage, construction of gas fuel transport machinery

Teaching methods

Informative lecture (conventional) (information transfer in a systematic way)

Bibliography

Basic

1. Instalacje gazowe na paliwa gazowe / [aut. komentarzy do "Warunków technicznych" oraz wymagań eksploatacyjnych Ryszard Zajda ; red. Kazimierz Kukulski, Jan Sieczkowski]. Cobo-Profil, 2003.

Paliwa gazowe - Klasyfikacja, oznaczenie i wymagania PN-C-04750 / Polski Komitet Normalizacyjny.
2011

3. Przesyłanie, rozdział i magazynowanie paliw gazowych / Janusz Girzejowski ; Politechnika Poznańska. Wydawnictwo Uczelniane Politechniki Poznańskiej, 1975.

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1. Przesyłanie, rozdział i magazynowanie paliw gazowych / Janusz Girzejowski ; Politechnika Poznańska. Wydawnictwo Politechniki Poznańskiej, 1977.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	45	1,5
Student's own work (literature studies, preparation for	15	0,5
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) ¹		

¹ delete or add other activities as appropriate