Title of Course		Energy systems in industry - project		
Semester		Spring/Summer		
Teaching		Total	- Lectures:	- Project:
Hours per Course:		15		15
ECTS Credits		1		
The content of education				
Aims of	Basic knowledge on energy systems in the industrial applications.			
Course	Presentation of process flow diagrams, discussion of the principle of			
	operation and mathematical descriptions of the typical systems.			
	Characteristics of apparatus and devices used in the systems. Methods of			
	reducing the energy consumption of the systems.			
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Program	P1 - Selection of industrial thermal system and preliminary design assumptions.; P2 - Selection of system structure and type of apparatuses and devices.; P3 - Selection of operating parameters.; P3 - Mass and thermal balances.; P4 - Selection of measuring and automatic control systems.; P5 - Project credit.			
Conditions of completion	Project submission			
Teacher	Mariusz Markowski, Sc.D.			