Title of Course		Materials Science			
Semester		Autumn/Spring			
Teaching		Total	Lectures	Tutorials	
Hours per Course:		15	15	0	
ECTS Credits		1.0			
The content of education					
Aims of	Acqui	Acquiring basic knowledge in the field of construction and types of sanitary			
Course	instal	stallation materials, their tooling and welding processes. Understanding of			
	developing trends in this area, acquiring the ability to obtain information from				
	various sources and the ability to cooperate in a team.				
Program	W1 - Structure of metals and alloys. W2 - Physical and mechanical properties of				
	materials. W3 - Iron allotropic transformations and the iron-carbon system. W4 -				
	thermo-chemical and plastic tooling of iron metals. W6 - Non-iron metals and the				
	allovs and their structure, properties and application, W7 - Rolled, forged, dra				
	and cast products. W8 - Metal corrosion and corrosion protection. W9 - Types,				
	prope	properties and use of plastics. W10 - Installation materials in sanitary engineering			
	for fittings and equipment. W11 - Sealing and insulation materials. W12 - Ceramic				
	and concrete products. W13 - Processing of materials by welding processes and				
	machining. W14 - Basic testing on the structure and properties of materials. W15 -				
	Select	ction of materials for the construction and repair of sanitary installations and			
Conditions of	Cro	Trading Standard:			
completion	The prerequisite for passing is limited by: Passing colloquium Final grade of the				
completion	course	urse is the grade with the colloquium			
	Grad	ade			
	2.0; 3	3.0; 3.5; 4.0; 4.5; 5.0			
Teacher	Ph.D. Jacek Szpetulski				