WSB University								
Field of study: Production Management and Engineering								
Course: Problem Based Learning								
Educational profile: practical								
Education level: first-c	ycle studies							
Number of hours per	1		2	2	3	3		
semester			III	IV	V	VI	VII	
Full-time studies						14		
(L/C/lab/pr/e)*								
Part-time studies						12		
(L/C/lab/pr/e)*								
LECTURER								
FORM	Classes							
I OKINI	Olasses							
COURSE	Becoming acquainted	Becoming acquainted with and learning to use the Problem Based Learning method in solving						
OBJECTIVES	practical problems related to production management and engineering.							
			•	J	0 0			
Field-related learning	Reference to PQF	Des	Description of learning outcomes			Method of verification of learning		
outcome						outcomes		
		Knowledge						
		The student						
ZIP_W02	P6S-WG		j			Assessment of the student's		
			understanding of Problem Based			answers during classes (teamwork,		
			Learning concepts, knows how to use			participation in group discussions).		
			n in managemer			Assessment of the student's		
			•	ctical application		performance during the end-of-semester presentation.		
		of this knowledge. semester presentation.						
		Skills						
		The student						
ZIP_U06	P6S_UW, Eng.	Can	Can integrate the acquired knowledge		ge Assessme	Assessment of the student's		
ZIP_U08	P6S_UW, Eng.	using the methodology of problem			answers d	answers during classes (teamwork,		
		base	pased learning and		participation	participation in group discussions).		
		can critically analyze and assess				Assessment of the student's		
			tioning of existing solutions,			involvement in the preparation of		
		at the same time proposing the end-of-semester pr		esentation.				
		improvements in the field of production management and						
			-	nent and				
		engli	neering.	Social o	ompetences			
					student			
ZIP_KO1	P6S-KK	The student is aware of his/ her			ent of teamwo	rk durina		
			vledge and is re		classes.			
			agerial decision	-	Assessme	ent of the stud	ent's	
			ount the usefulne	-	performan	ce during the	end-of-	
		meth	nods, procedure	s and best	semester	presentation.		
		practices as well as suggested						
		man	agerial solutions	3.				
	700.101	<u> </u>						
ZIP_KO2	P6S-KK	Is re	ady to use expe	ert opinion in cas	e Assessme	ent of teamwo	rk during	

of difficulties in solving practical problems and while performing	classes.
managerial and engineering task	Assessment of the extent to which the student is able to make use of the knowledge offered during classes by an external supervisor - practitioner with experience in the implementation of industrial projects.

Student's own workload (1h teaching hour=45 minutes)**

Full-time

participation in lectures = participation in classes = 14

preparation for classes = 14 analyzing the literature on the subject, watching online tutorials

preparation for lectures =

preparation for an end-of-semester test/examination = 18 - end-of-semester assignment preparation

project tasks = e-learning =

credit/examination = 2 other = 2 consultation

Total:50h ECTS points: 2

COMPULSORY

LITERATURE

including practical classes: 2

Part-time

participation in lectures = participation in classes = 12

preparation for classes = 16 analyzing the literature on the subject, watching online tutorials

preparation for lectures =

preparation for an end-of-semester test//examination = 18 end-of-semester assignment preparation

project tasks = e-learning =

credit/examination = 2
other = 2h consultation

Total:50h ECTS points: 2

including practical classes: 2h

Effective project management: traditional, agile, extreme, hybrid / Robert K. Wysocki. - 8th ed. -

PREREQUISITES Ability to work in a group. COURSE CONTENT Contact hours (Classes via the MS Teams platform). 1. Classic problem solving methods used in the practice of project management in comparison with the assumptions of using Problem Based Learning as an innovative method of solving problems in the practice of project management. 2. Principles of problem solving using the Problem Based Learning method: defining the problem, collecting data about the problem and using sources, cooperation with owners and stakeholders of the problem, tasks and roles in the group, work schedule and distribution of work, developing a work plan, developing a solution to the problem related to business practice in the field of industrial projects. 3. Solving the problem presented to the group using the Problem Based Learning method. 4. Facilitation of cooperation between members of the group engaged in solving a problem. 5. Knowledge-exchange sessions. 6.Presentation of the solution to the problem which was found by means of the Problem Based Learning method. e-learning: not applicable

Indianapolis, IN: John Wiley & Sons, cop. 2019

OPTIONAL	Aalborg University, Problem based learning. The basic principle of the Aalborg model, 2019				
LITERATURE	Savin-Baden M: Problem-Based Learning in Higher Education: Untold Stories SRHE &				
	Open-University Press, Buckingham 2000				
	Presentations and online tutorials:				
	https://www.en.aau.dk/education/problem-based-learning/				
	https://www.youtube.com/watch?v=hooS7QgZhXo				
	https://www.youtube.com/watch?v=O3-qtvaPtH8				
	https://www.en.aau.dk/education/master/sustainable-design				
	https://www.en.aau.dk/education/master/sustainable-design				
	https://www.youtube.com/watch?v=RGoJIQYGpYk				
	https://www.youtube.com/watch?v=5p3RAkRNLpU				
	Contact hours (Classes via the MS Teams platform).				
TEACHING METHODS					
	teamwork, group discussion, discussing case studies, thematic exercises, knowledge exchange				
	sessions, group facilitation, involvement of an external supervisor - practitioner with experience in				
	the implementation of industrial projects				
	e-learning: not applicable				
TEACHING AIDS	Case study prepared by the lecturer, a Power Point presentation, online tutorials				
PROJECT	not applicable				
(if implemented in the					
framework of the class					
module)					
FORM AND	- Good attendance record (the student has to be present in at least 75% of classes				
CONDITIONS OF	(camera - switched on, active participation required)				
ASSESSMENT	- Oral answers to the lecturer's questions during teamwork – this component constitutes 50% of				
	the final grade (the lecturer's assessment during the exercises done as teamwork)				
	- Participation in group work aimed at solving the problem posed for the group and related to the				
	field of production management and engineering – it constitutes 50% of the final grade				
	(evaluation of the presentation method made by the lecturer and an external stakeholder				
	specializing in the subject of the implemented project).				

^{*} L-lecture, C- classes, lab- laboratory, pr- project, e- e-learning