WSB University										
Field of study: Production Management and Engineering										
Course: PROBLEM S		<u> </u>								
Educational profile: p	oractical									
Education level: first-										
Number of hours per			2		3		4			
semester			III IV		V	VI	VII			
Full-time studies						4.4				
(L/C/lab/pr/e)*						14				
Part-time studies						10				
(L/C/lab/pr/e)*						12				
LECTURER							•			
FORM	Classes									
COURSE	Familiarizing participants	s with active pro	oblem solvin	g methods in or	ganizations	- practical	problem			
OBJECTIVES	solving									
Field-related	lated Reference to PQF		Description of learning		Method of verification of					
learning outcome			outco	mes	lea	rning outco	omes			
			Knowledge							
			The student							
ZIP_W02	P6S_WG			ed knowledge	Presenta	tion of the c	leveloped			
				ng of Problem	project sl	nowing the l	Problem			
			ing concepts		Solving p	rocess, pre	senting the			
			ish vocabula of the Proble		tools use	d, proces in	put data			
				ulfilling tasks	and resu	Its achieved	l.			
			solving prob							
		prod	uction mana	gement and						
			neering.							
ZIP_W07	P_W07 P6S_WG		Has the advanced knowledge of the ability to solve problems in			Presentation of the developed project showing the Problem				
			•	•	1	0				
			ld of produc		• •	rocess, pre	•			
			•	engineering by		d, proces in				
				ern Problem	and resu	lts achieved				
		Solvin	Solving method							
			Skills The student							
		0.00	ritically an - l		-	nting the de	voloned			
ZIP_U08	P6S_UW, Eng.		Can critically analyze and assess the functioning of existing		By presenting the developed project presenting the Problem					
			cal solutions	-		resenting th process, pre				
			ization of pro		• •	d, input dat	•			
		v	same time p		results a		a anu			
			•	ng methods and	icouito di					
				Problem Solving						
ZIP_U16	P6S_UK		ommunicate	-	discussio	n				
			nment using		0.000000					
				field of problem						
				gyin solving						
			-	o production						
				engineering						
	l	munu			1					

		Social competences				
		The student				
ZIP_K01	P6S_KK	usefulness of Solving met	ritically assess the of the Problem nod in decision- problem solving.	Open discussion during classes enabling the teacher to check the competences of students during the discussion about the presented business cases		
ZIP_K02	P6S_KK	Is ready to use expert opinion in the case of difficulties in solving practical problems, managerial and engineering tasks.		Open discussion during classes enabling the teacher to check the competences of students during the discussion about the presented business cases		
Student's own workloa	d (1h teaching hour=45 minut	tes)**				
Full-time participation in lectures = participation in classes = 14h preparation for classes = 14h preparation for lectures/tutorial = preparation for an end-of-term test/examination = 18h assignm preparation project tasks = e-learning = credit/examination = 2h other = 2h consultation Total:50h ECTS points: 2 Including pratical classes: 2h			Part-time participation in lectures = participation in classes = 12h preparation for classes = 16h preparation for an end-of-term test//examination = 18h end-of-term assignment preparation, literaturę analysis e-learning = credit/examination = 2h other = 2h consultation Total:50h ECTS points: 2 Including pratical classes: 2h			
PREREQUISITES						
COURSE CONTENT	 Contact hours: Classes via the MS Teams platform Acquisition of knowledge by participants of active methods and tools to solve problems in organizations – Practical Problem Solving. The use of the learned methodology in practice 1. Creating Problem Teams and defining a goal 2. The role of communication in the problem-solving process. 3. Increasing the efficiency of problem solving by developing creativity and teamwork. 4. Analysis with economic assessment of the problem presented in the organization 5. Identification and evaluation of submitted ideas within the framework of the Problem Team's work. 6. Therapy together with the evaluation of proposals for solutions presented by participants of the Problem Team. 					
COMPULSORY LITERATURE	Materials developed bythe te	eacher, busine	ss case			
OPTIONAL LITERATURE	M. Prasad – Pragmatism as Problem Solving; Socius Sociological Research for a Dynamic World, Feb 2021 C. Conn, R. McLean – Bulletprrof Problem Solving, 2019					
TEACHING METHODS	Contact hours:					

	Mini lecture, multimedia presentation of teaching material, discussion. Exchange of experience				
	with Students who have experience acquired during the internship, work placement or at work.				
	Using Problem Solving tools in group work, solving prepared case studies.				
TEACHING AIDS	Materials developed bythe teacher, business case. Sheets for the use of active Problem Solving				
	methods, SMART, 5W2H, Ishikawa Diagram, Philips 6-2-3, 8D, A3.				
PROJECT	Development and presentation to the group of a project presenting the use of the Problem				
(if implemented in the	Solving tools, as part of a three-stage approach to problem solving in the organization.				
framework of a classes	1. Presentation of the organization				
module)	2. Selection of the problem and determination of SMART goal.				
	3. Problem analysis by means of the 5W2H method with cost analysis				
	4. Identification and evaluation of submitted ideas using the Ishikawa Diagram				
	Evaluation of sumbitted ideas using the Philips 6-2-3 method.				
	6. Presentation of benefits resulting from solving the problem in the organization.				
FORM AND	Development and presentation of the solution using the Problem Solving method, evaluation of				
CONDITIONS OF	active participation during classes				
ASSESSMENT	Positive substantive assessment of the solution developed and presented using the Problem				
	Solving method.				

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