SYLLABUS

Name: Name in Daliah	Industry 4.0 (elective course) (ZIPAOZ>SI6I4.019S)						
Name in Polish: Name in English:	<u>lı</u>	ndustry 4.0					
O a sum a stifte sead has also		Information on course:					
Course offered by dep Course for departmer		Faculty of Organization and Management Silesian University of Technology					
Default type of course	e examinati	on report:					
ZAL							
Language:							
English							
Short description:	ouroo io to o	provident at identa with the pat of problems grouped under the lobel of "Industr	n 4 0" (or the f	ourth			
industrial revolution".	ourse is to a	equaint students with the set of problems grouped under the label of "Industr	y 4.0 (or the lo	burth			
	eved by real	ization of the following three sub-goals:					
1/ to develope a view on the Industry 4.0 based on a historical perspective 2/ to describe the most important elements/traits of the Industry 4.0							
3/ to analyze the possible effects (both positive and negative) of this revolution upon human civilization.							
Description:							
During the course the f	ollowin issue	es will ve tackled:					
		e Infustry 4.0/the Fourth Industrial Revolution; some remarks on the world Ed	conomic Forum	1. A			
rpesentation of the course,							
2/ The Industry 4.0/the 4th industrail revolution - in a historical perspective /from the tfirst to the fourth industrial revolution/							
		inking (from SF-literature to the Club of Rome reports)					
		m Stockholm (1973) to Rio de Janeiro (2023					
5/ Automation, robotics	s, 3D, smart	factory					
6/ Internet of Things							
7/ Big Data, Internet , networks							
8/ Artificial Intelligence, cloud computing, cognitive computing							
9/ Augmented reality							
10/ Industry 4.0 and medicine							
11/ Industry 4.0 and ecology /agridulture 12/ debates and controvercies over Industry 4.0 /its both positive and negative consequences. Industry 4.0 in the perspective of							
		industry 4.0 /its both positive and negative consequences. Industry 4.0 in tr	le perspective	01			
Technology Assessment							
13/The fourth industrial revolution from the Polish perspective Bibliography:							
Klaus SCHWAB, The F	ourth induct	rial revolution 2016					
		T; The Great NarrativeŁ For a Better future, 2022					
Learning outcomes:							
knows:							
	sues in the fi	eld of engineering useful for formulating and solving typical engineering task	(S				
		the contemporary civilizaton related to production engineering					
is able to:	P						
-K1A U9 select and us	e appropriat	e techniques and modern engineering tools					
		implement own life;long learning					
is ready to:							
		lge and consult experts in special fields					
Assessment methods	and asses	sment criteria:					
1- Evaluation of studen	itsą activities	during the lectures asking					
		Element of course groups in various terms:					
		Course group description	First term	Last term			
missing group descript	tion in Englis	h (ZIPAOZ>SI-6-19-O)	2022/2023-L				
	3 -						

Course credits in various terms:

<without a="" program="" specific=""></without>						
Type of credits	Number	First term	Last term			
European Credit Transfer System (ECTS)	2	2022/2023-L				