		SYLL	ABUS
	ystem analysis	in production engine	eering (ZIPAOZ>SM2SAiPE19O)
Name in Polish: Name in English:	<u>System</u>	analysis in production	n engineering
Course offered by depar Course for department:		Informatior ulty of Organization and M sian University of Technol	
Default type of course ex EGZ	xamination repo	rt:	
Language:			
English Course homepage:			
https://platforma2.polsl.pl/u Short description:	roz/course/view.p	hp?id=274	
The aim of the course is the production engineering. The manufacturing and service	he course also ai e enterprises.	ms at the development of	the field of methodology and applications of system analysis in system thinking and acquiring knowledge on process approach in cal skills related to the basics of modeling, analysis, and description of
systems and processes us Description:			
Lecture			
4. Process orientation of the	ems thinking strat nptions of system he organization, p	egies and mental models ns analysis. Methodology a process approach, classific	and applications of systems analysis. cation of processes.
 5. Basics of systems and p 6. Basics of business proc diagrams. 7 Basics of Unified Modeli 	ess modeling us		ams, collaboration diagrams, conversation diagrams, choreography
(identification of process p 2. Modelling the private/pu 3. Proposal to improve a s 3. Application of a decision	participants/perfor ublic process bas selected process n tree and decisio	mers, activities, interaction ed on BPMN. implemented in a production table in solving selected	
Number of hours of classe Contact hours Lecture: 15h Project: 15h	s with the direct	participation of academic t	teachers or other persons teaching courses
Student's own work Preparation for the final ex Preparation for laboratory Preparation of final report:	classes and prep	paration of laboratory repo	rts: 12h
Total workload: 60 Number of ECTS credits: 2 including	2		
			as part of the courses taught with the direct participation of academic
Bibliography:		la Quida, Dalamana Manazi	ller New Verb 2004
Ryszko A., Environmental International Business Info Business Process Model a	oth R.M., System systems analysis ormation Manage and Notation (BP	is analysis and design. Jol s – the diversity of tools an ment Association (IBIMA), MN). Version 2.0.2. Object	Ian, New York 2004 hn Wiley & Sons, Inc., Hoboken, NJ 2012. nd the multi-faceted research field. Proceedings of the 37th , Cordoba, Spain 30-31 May 2021, 10310-10325. t Management Group, December 2013. nent Group, December 2017.
Knowledge			
Student knows and unders K2A_W04 ordered and the in the enterprise and their	eoretically-ground		sis, description and modelling of the conditions and flow of processes cription of systems.
Skills Student is able to: K2A_U02 perform tasks at processes.	s well as formula	te and solve problems usir	ng new knowledge abour description and analysis of systems and

K2A_U03 when identifying and formulating specifications for engineering tasks and solving them, use analytical methods for the description and

modeling systems and processes recognizing their technical and non-technical aspects.

USOSweb: Szczegóły przedmiotu: ZIPAOZ>SM2SAiPE19O, w cyklu: <brak>, jednostka dawcy: <brak>, grupa przedm.: <brak> Strona 1 z 2

K2A_U10 use structured and theoretically-grounded knowledge to analyse and model systems and processes in the enterprise.

Social competences

Student is ready for:

K2A_K05 responsible performance of professional roles, taking account of changing social needs, including developing professional achievements, maintaining the ethos of the profession, observing and developing the principles of professional ethics, as well as promoting compliance with these principles.

Assessment methods and assessment criteria:

Lecture

Passing the lecture is based on a positive grade achieved in the written exam (choice test). It is possible to get additional points for the activity during the lecture. The condition for positive evaluation is receiving more than 50% obtainable points.

It is possible to improve the written test twice, however, it is done orally.

Laboratory classes

To pass the laboratory classes, it is required to send correctly prepared laboratory reports, assessed over 50% of obtainable points. Reports from laboratory classes are assessed in terms of formal and content-related aspects. Reports prepared incorrectly may be corrected twice.

The final grade for the subject takes into account 50% of the lecture grade and 50% of the laboratory class grade. The final grade is the arithmetic mean value of the grades for the lecture and laboratory classes.

Element of course groups in various terms:						
Course group description	First term	Last term				
missing group description in English (ZIPAOZ>SM2-19-O)	2020/2021-L					
Course credits in various terms:						

Management and Production Engineering, full-time master degree studies 3 sem. (ZIPAOZ-SM3)					
Type of credits	Number	First term	Last term		
European Credit Transfer System (ECTS)	2	2020/2021-L			