

Subject card

Subject name and code	Information systems of planning and manufacturing control, PG_00040011							
Field of study	Management and Production Engineering, Management and Production Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Stefan Dzionk						
	Teachers		dr inż. Dawid Zieliński					
			dr hab. inż. Stefan Dzionk					
			dr inż. Norber					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	15.0	15.0		0.0	45
	E-learning hours included: 0.0							
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10366							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUN		SUM	
	Number of study 45 hours			7.0		48.0		100
Subject objectives	The aim of the course is to provide with advanced techniques of production planning and control. Possibilities of sequencing and scheduling of orders in in computer integrated environment.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_K02	s able to prepare a cessary in the oduction planning		[SK5] Assessment of ability to solve problems that arise in practice				
Subject contents	LECTURE Computer integrated production planning and control systems. Technical and economic aspects of production control, production flow control essence, the basic principles of control, control norms, scheduling and load production stations, balancing tasks on production capacity, inter-cellular methods of production flow control, intracellular methods of production flow control, documentation associated with the production flow control, record and control of production flow. Other production control techniques. Trends in production planning and control. LABORATORY Products: product attributes, routing options, resources, set-up and operation times, operation attributes. Resources data: resources, secondary constraints, resources groups. PROJECT: Entering the orders. batching methods. calendar states and shift patterns. Sequencing the orders. Standard dispatching rules. Standard algorithmic rules. Schedule analysis. Reports. Gantt Chart. Order Trace Chart. Constraints plots.							
Prerequisites and co-requisites								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Laboratory	50.0%	25.0%			
	Practical excersise	60.0%	25.0%			
	Writtrn Exam	60.0%	25.0%			
	Project	50.0%	25.0%			
Recommended reading	Basic literature	Anil Mital, Anoop Desai, Anand Subramanian, Aashi Mital: Product development, Butterworth-Heinemann is an inprint Elsevier, 30 Corporate Drive, Suite 400, Burlington MA 01803 USA, 2008.				
	Supplementary literature	 Meyer Kutz, Mechanical Engineers' Handbook -Manufacturing and Management, John Wiley &Sons, INC, Hoboken New Jersey, 2006. 				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	31. Discuss ways of balancing material consumption and labour. Not applicable					

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