

Subject card

	Interreted Manufacturing Customs, calcuted incurs. Mc4005W0								
Subject name and code	Integrated Manufacturing Systems - selected issues, M:31225W0								
Field of study	Mechanical Engineering								
Date of commencement of studies	February 2016		Academic year of realisation of subject			2016/2017			
Education level	second-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Michał Dobrzyński						
of lecturer (lecturers)	Teachers		mgr inż. Karolina Chodnicka-Wszelak						
		dr inż. Michał Dobrzyński							
			Jacek Eremus						
		dr inż. Piotr Waszczur							
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	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes includ				Self-study SUM				
	Number of study hours 30			10.0		35.0		75	
Subject objectives	The aim of the course is to provide with advanced techniques related to integrated manufacturing systems. Possibilities of shaping different part types in such a environment.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K_U16		Student classifies and distinguishes processing techniques in the area of integrated manufacturing system.			[SU1] Assessment of task fulfilment			
	K_W15		Student defines the capabilities concerning methods and means for manufacturing various types of parts in industrial integrated systems.			[SW1] Assessment of factual knowledge			
	K_U12		Select relevant processing methods for manufacturing process realization. Designs, optimise and validates.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools				
Subject contents	LECTURE Integration of activities in the area of technical process planing and computer-aided design of manufacturing proces (CAPP). Integration at the single and multi machine level of manufacturing systems. Manufacturing of internal and external surfaces: maschining of cylindrical, conical, thread shapes. Milling processes. Methods and means of finishing using plastic and abrasive machining. Some advanced methods of manufacturing: high-performance machining, machining of hard materials. Manufacture of prototypes and parts using Rapid Prototyping / Rapid Tooling techniques. Measuring methods in the manufacture of parts.								
Prerequisites and co-requisites	No requirements								
Assessment methods and criteria	Subject passing criteria Colloquium		Passing threshold 60.0%			Percentage of the final grade 100.0%			
Recommended reading	Basic literature		Olszak W.: Obróbka skrawaniem. WNT, Warszawa, 2008. Feld M.: Podstawy projektowania procesów technologicznych typowych części maszyn. WNT, Warszawa, 2003. Technologia obróbki skrawaniem. Poradnik obróbki skrawaniem. Sandvik 2010.						

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	Supplementary literature	Grzesik W.: Podstawy skrawania materiałów metalowych. WNT, Warszawa, 1998. Poradnik inżyniera. Obróbka skrawaniem. T. I-III, WNT, Warszawa 1993. P. Cichosz Narzędzia skrawające WNT.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Characterize main functions of computer integrated manufacturing systems					
	Why are Rapid prototyping processes technologically important?					
	Present a sequence of processes in manufacturing process plan for integrated manufacturing.					
Work placement	Not applicable					

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