



Subject card

Subject name and code	Management, PG_00038881						
Field of study	Mechatronics, Mechatronics						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Humanistic-social subject group		
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			1.0		
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 of lecturer (lecturers)	Subject supervisor	dr hab. inż. Dariusz Fydrych					
	Teachers	dr hab. inż. Dariusz Fydrych					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	9.0	0.0	0.0	0.0	0.0	9
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	9	3.0		13.0		25
Subject objectives	The basic principles of organization and management of industrial enterprises.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W13		The student knows the methods of research and improvement of work processes. The student knows the methods of analyzing the state and development prospects of the enterprise. The student is able to identify the elements of the strategic policy of the company and connect them with long and short-term planning.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	K6_W12		The student knows the principles of organization functioning and organization management. The student is able to indicate management areas related to technical and non-technical conditions in the production system.		[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	K6_U02		The student is able to identify the scientific and technical elements of production preparation and the product development cycle and its structure.		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		

Subject contents	<p>The program of lectures Management as science. A review of the principles of organization and management. The Company and the production system (1). General principles of operation of enterprises. Production system as an object of management. Elements of the production system. The environment of the production system. Manufacturing system, its components and parameters. Types of production systems and their characteristics. (2) Design of manufacturing systems. Selection criteria production system, the criteria for evaluation of production systems. Productivity and indicators of productivity. Organizational and technical criteria of modern production systems. Manufacturing costs. Production losses (2). Design principles of business organization. Design of the management structure, organizational structure and patterns of organization. Design responsibilities of managers and staff qualifications. Designing the structure of production and administrative (2). The scientific and technological preparation of production. Technological forecasting methods. The cycle of product development and its structure. Technical preparation of production. Testing and improvement of work processes. Marketing in the processes of production preparation. Strategic company policy (2).</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Colloquium	60.0%	85.0%
	Presentation	60.0%	15.0%
Recommended reading	Basic literature	1. Brzezinski M. (ed.): Organization and production control. Placet Publishing Agency.2. Durlik I.: Engineering Management. Vol. 1 and II. Placet Publishing Agency.3. Durlik I.: Restructuring business processes. Placet Publishing Agency.4. Pająk E.: Management of production. Publishers PWN.	
	Supplementary literature	Not specified	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Basic principles of management in enterprises. 2. Productivity as a measure of industrial evaluation of investment projects. 3. Characteristics of the hybrid structure of the organization of the company. 4. Ethical leadership styles of managers. 		
Work placement	Not applicable		