



Subject card

Subject name and code	Engineering diploma project, PG_00055264						
Field of study	Management and Production Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			16.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Technologii Maszyn i Automatyzacji Produkcji -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Daniel Chuchala					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0		25.0		375.0	400
Subject objectives	The main goal of the course is the independent realisation of the diploma project in the form of: design, experimental research or in analytical form. The dissertation is also intended to include the performance of an independent critical review of the current state of knowledge in the subject in question, which will take into account scientific papers, patents, standards, technical documentation, catalogues and popular science reports.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U08] can assess the usefulness of routine methods and tools for solving practical production tasks in measuring in order to supervise processes and analyze the functioning of production systems	The student is able to select the appropriate tool necessary for basic analysis and supervision of production systems.	[SU4] Assessment of ability to use methods and tools
	[K6_U03] is able to communicate using various techniques in the professional environment and other environments, has language skills enabling free communication in the field of technical sciences related thematically to management and production engineering	The student has an adequate grasp of technical nomenclature in areas including manufacturing processes, assembly, or production and material flow management.	[SU2] Assessment of ability to analyse information
	[K6_U07] is able to conduct a preliminary economical analysis of undertaken engineering activities, is able to can conduct a critical analysis and evaluation of existing production processes and courses of selected sections of manufacturing systems, is able to identify the needs of the application of technical solutions for automation and / or robotization production stations and formulate the specifications of the resulting benefits and limitations	The student is able to carry out basic profitability analyses of implemented production activities.	[SU2] Assessment of ability to analyse information
	[K6_W11] knows and understands the basic concepts and principles of the protection of industrial property and copyright law, can use the resources of patent information	The student is proficient in the areas of obtaining information from sources including standards, patent information, etc.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_U09] can use analytical techniques as well as computer simulation and numerical analysis methods in solving specific problems in the field of production engineering, is able to carry out simple engineering tasks related to the production of typical machine parts using widely understood techniques and computer tools, is able to select and apply appropriate methods of project planning and control courses with the use of computer aided means	The student is able to design basic technological processes for selected mechanical parts based on the available knowledge of the machinery used.	[SU3] Assessment of ability to use knowledge gained from the subject
Subject contents	<p>1. To conduct an independent critical review of the state of knowledge in the subject matter under analysis. 2. Definition of the aim, thesis and scope of the activity in the diploma project. 3. Carrying out the assumed activities (design, analytical or experimental). 4. Elaboration and discussion of the obtained results. 5. Draw conclusions from the work carried out and determine further courses of action. Prerequisites and</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Manuscript	56.0%	100.0%
Recommended reading	Basic literature	During the realization of an independent diploma project, the student is obliged to analyse literature sources from library resources and online scientific databases containing access to contemporary scientific publications in reputable scientific journals thematically related to the topic under consideration.	
	Supplementary literature	Additional sources of knowledge can be standards, patents, catalogues and/or industry guides, etc.	
	eResources addresses	Adresy na platformie eNauzanie:	

Example issues/ example questions/ tasks being completed	Wady i zalety obrabiarki CNC.
Work placement	Not applicable

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