

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Design and Ergonomics		Code 1011105311011125287
Field of study Engineering Management - Part-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
Elective path/specialty Production and Operations Management	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: 12 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 100 2% 100 2%
Responsible for subject / lecturer: -dr inż. Marcin Butlewski email: marcin.butlewski@put.poznan.pl tel. (61) 6653404 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic Knowledge of ergonomics and product life cycle
2	Skills	-Ability to connect knowledge of ergonomics with knowledge of production management
3	Social competencies	awareness of the importance of the subject
Assumptions and objectives of the course: Understanding the basic problems related to the ergonomics of the product, shaping the form of the product and the relationship between the design and ergonomics.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. One has extended knowledge of the human role in shaping the organizational culture and ethics in management - [K2A_W06]		
2. Knows and understands the basic concepts and principles of the protection of industrial property and copyright law, and the need for management of intellectual property - [K2A_W17]		
Skills:		
1. Student is able to use theoretical knowledge to describe and analyze the causes and processes and social phenomena and is able to formulate their own opinions and choose critical data and analysis - [K2A_U02]		
2. It has the ability to use the acquired knowledge in different areas and forms, extended on a critical analysis of the effectiveness and suitability of applied knowledge - [K2A_U06]		
Social competencies:		
1. S. can contribute to the preparation of substantive social projects and manage projects resulting from these projects - [K2A_K05]		
2. He is aware of interdisciplinary knowledge and skills needed to solve complex problems of organization and the need to create interdisciplinary teams - [S2A_K06]		
Assessment methods of study outcomes		

preparation of the project		
Course description		
Ergonomics of the product life cycle of the product, ergonomic criteria in the life cycle of the product, the concept of the form of the product, the relationship between form and function, determine the function of the product life cycle, ergonomic criteria in the design of the form of the product, the development of industrial design, functionalism as the basic direction of development of design, trends and styles in the development of design		
Basic bibliography:		
1. Jabłoński J. (red.) Ergonomia produktu WPP Poznań 2006		
2. Tjalve E. Projektowanie form wyrobów przemysłowych Arkady Warszawa 1984		
3. Guidot R. Design 1940 - 1990 Wzornictwo i projektowanie Arkady Warszawa 1984		
4. Butlewski M., Projektowanie i ocena wyrobów - wybrane zagadnienia, Politechnika Poznańska 2012		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	30	1
Practical activities	20	1