

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Design and Ergonomics | | Code 1011102311011005287 |
| Field of study Engineering Management - Full-time studies - | Profile of study (general academic, practical) (brak) | Year /Semester 1 / 1 |
| Elective path/specialty Quality Systems and Ergonomics | Subject offered in: Polish | Course (compulsory, elective) elective |
| Cycle of study: Second-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: 15 Classes: 15 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 | | |

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| 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) | |
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| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 50 | 2 |
| Contact hours | 30 | 1 |
| Practical activities | 20 | 1 |