



Subject card

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|---|---|--|-------------------------|-------------------------------------|--|------------|-----|
| Subject name and code | Occupational Health and Safety Ergonomics, PG_00041987 | | | | | | |
| Field of study | Power Engineering, Power Engineering | | | | | | |
| Date of commencement of studies | October 2021 | Academic year of realisation of subject | | | 2021/2022 | | |
| Education level | first-cycle studies | Subject group | | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | English | | |
| Semester of study | 1 | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Machine Design and Vehicles -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Ryszard Woźniak | | | | |
| | Teachers | | dr inż. Ryszard Woźniak | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| | E-learning hours included: 0.0 | | | | | | |
| | Adresy na platformie eNauczanie: Occupational Health and Safety Ergonomics - L-15/C-0/L-0/P-0, FMEST, ENERGY TECHNOLOGIES, se 01, (PG_00041987), winter semester 2021/2022 - Moodle ID: 18050 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18050 | | | | | | |
| 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 | 15 | | 3.0 | | 7.0 | 25 |
| Subject objectives | Gaining basic knowledge of ergonomics and occupational health and safety. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_U03] has the preparation necessary to work in an industrial environment, applies the principles of occupational health and safety, can perform diagnostics of the regulation system of a simple energy facility | | | | | | |
| | [K6_K03] is able to react in emergency situations, threats to health and life when using energy devices, is aware of the impact of engineering activities on the environment | | | | | | |
| | [K6_K02] is able to work in a group taking different roles in it, can think and act in an entrepreneurial way, is aware of responsibility for their own work and responsibility for teamwork | | | | | | |
| Subject contents | Definitions of ergonomics, their purposes and application area. Description of man - machine - environment configuration. Conception of balanced development. Environmental management system. Model of man and it's characteristics. Man capabilities versus industrial processes. Environment of working man - circle conditions. Designs principles of environment of working man. Safety and reliable man - machine - environment configuration. Information acquisition of machines. | | | | | | |
| Prerequisites and co-requisites | Knowledge of Physics (High School level). | | | | | | |

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| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | End test | 50.0% | 100.0% |
| Recommended reading | Basic literature | 1. Koradecka D.: "Bezpieczeństwo pracy i ergonomia", tom I i II. CIOP, Warszawa, 1997. 2. Hempel L.: "Człowiek i maszyna - techniczny model współdziałania", materiały własne, 1984. 3. Wykowska M.: "Ergonomia", Wyd Akademii Górniczo-Hutniczej w Krakowie, Kraków, 1994. | |
| | Supplementary literature | No requirements | |
| | eResources addresses | Occupational Health and Safety Ergonomics - L-15/C-0/L-0/P-0, FMEST, ENERGY TECHNOLOGIES, se 01, (PG_00041987), winter semester 2021/2022 - Moodle ID: 18050 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18050 | |
| Example issues/ example questions/ tasks being completed | 1) definitins of ergonomics 2) human models | | |
| Work placement | Not applicable | | |