



Subject card

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| Subject name and code | SAFETY AND HEALTH AT WORK, PG_00049192 | | | | | | |
| Field of study | Chemistry | | | | | | |
| Date of commencement of studies | October 2022 | Academic year of realisation of subject | | | 2022/2023 | | |
| Education level | first-cycle studies | Subject group | | | Obligatory subject group in the field of study | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | Polish | | |
| Semester of study | 1 | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Analytical Chemistry -> Faculty of Chemistry | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | prof. dr hab. inż. Żaneta Polkowska | | | | | |
| | Teachers | prof. dr hab. inż. Żaneta Polkowska | | | | | |
| 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 | | | | | | |
| 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 | 5.0 | | 5.0 | | 25 |
| Subject objectives | Preparing to work in the chemical laboratory. Preparing to work in the chemical industry. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_K07] is aware of his social role as a graduate of a Technical University, especially in presenting information and opinion to the public about the risks and opportunities posed by chemical sciences; undertakes actions to communicate such information in a comprehensible manner | The student is aware of the dangers and opportunities created by the chemical sciences; It shall take steps to provide such information in a comprehensible manner | | | [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice | | |
| | [K6_U09] can recognize the danger, counteract and work with chemical reagents and basic technical apparatus in accordance with the safety regulations | Student can work with chemical reagents and basic technical equipment in accordance with the principles of safety and health | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information | | |
| | [K6_W09] has knowledge on chemical management and the concept of sustainable development necessary to conduct the management of chemicals (including dangerous substances) in the industrial plant, knows health and safety issues and ergonomics. | Objectives: To acquire the necessary knowledge of occupational safety and health, environmental protection, safety management systems and ergonomics. To improve skills in: - the use of work organization principles to ensure safe and hygienic working conditions and ergonomics and physiology; - occupational health and safety management. | | | [SK1] Assessment of group work skills [SU3] Assessment of ability to use knowledge gained from the subject [SK3] Assessment of ability to organize work | | |
| Subject contents | Lecture The range of responsibilities and eligibilities of employers, employees and people, who control employees in the area of occupational safety and hygiene. Verification of the conditions at work and certification. Preventive health protection. Hazardous factors for health in the working environment. Harmful and oppressive factors for health in the working environment. Occupations particularly dangerous. Training of the employees in the area of occupational safety and hygiene. Accidents at work and occupational diseases. Personal protective equipment, protective clothing, working clothing. Emergency first aid. National and international rules and regulations governing occupational safety and hygiene. Safety standards. Safety signs. Occupational safety and risk management. Ergonomics in the occupational safety and hygiene management. | | | | | | |

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| Prerequisites and co-requisites | No requirements | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | tests during lectures | 60.0% | 100.0% |
| Recommended reading | Basic literature | Wykaz literatury podstawowej: 1. Rączkowski B., BHP w praktyce, oddk Gdańsk, 2008 2. Kubasiak S., BHP w przemyśle chemicznym nieorganicznym, Instytut Wydawniczy CRZZ, 1974 3. Górská E., Ergonomia, Oficyna Wydawnicza Politechniki Warszawskiej, 2007 4. Pawłowska Z., Rzepecki J., Zarządzanie bezpieczeństwem pracy i ryzykiem, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2008 | |
| | Supplementary literature | Literatura uzupełniająca: 3. Skowroń J., Zapór L., Pośniak M., Szewczyńska M., Lisowski A., Czynniki chemiczne w środowisku pracy, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2006 4. Michalik J. S., Poważne awarie chemiczne, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2007 5. Michalik J. S., Zapobieganie poważnym awariom przemysłowym, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2005 6. Norma PN ISO 18000:2004 | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | <p>Duties and powers of employers, employees and persons managing employees in safety and health at work.</p> <p>Preventative health care.</p> <p>Characteristics of selected hazard.</p> <p>Characteristics of selected factors harmful and disruptive.</p> <p>Accidents at work and occupational diseases.</p> <p>. First aid in emergencies.</p> <p>Signs of safety.</p> <p>Safety management and risk management.</p> | | |
| Work placement | Not applicable | | |