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| The title of the course | **Management of Health and Safety at Work** |
| Faculty | [Faculty of Mechanical Engineering and Computer Science](http://eng.ath.bielsko.pl/index.php/faculties/gerg) |
| The level of studies | Undergraduate (BA)  Engineer (BSc) |
| Semester | Winter/Summer |
| The form of classes and number of hours | Lecture/Project  15h/15h |
| Classes conducted for Polish students. Erasmus students can join them | No, classes only for Erasmus students |
| Language of instruction | English |
| The number of ECTS | **2 ECTS** |
| Teacher | Maria Baron-Puda, PhD. |
| The aims of the course  (maximum 500 characters) | The objective of the course is to introduce students in chosen problems concerning health and safety at work. There are presented main legal requirements on safety at work, including OHSAS standard, upon which many companies build, maintain and develop their Occupational Health and Safety Management System (OHSMS). The special attention is paid to analysis and assessment of occupational risk, which is the key element of OHSMS, as well as to methods of risk control and ways of protection of employees from hazards and dangerous events. |
| The content of the course: main topics and key ideas | 1. Basic legal requirements on health and safety at work. 2. Occupational Health and Safety Management Systems (OHSMS) based on OHSAS 18001 – main elements of OHSMS, implementation in a company, Deming’s cycle. 3. Man-machine system, hazards at work – categories of hazards, examples. 4. Occupational risk management. Main stages: hazards identification, risk evaluation, risk treatment, risk monitoring and review. 5. Chosen methods of risk assessment: matrix, score, graph. 6. Hierarchy of risk control: elimination/substitution, engineering controls, administrative controls, personal protective equipment. |
| Didactics methods | Presentation, examples of exercises, discussion |
| Course requirements | Attendance, active participation |
| Literature (basic and supplementary) | Basic references:   1. Baron-Puda M.: Human resource management in Production Engineering. Wydawnictwo ATH, Bielsko-Biała 2012   Additional references:   1. Krause T.R. [foreword John L. Henshaw ]: Leading with safety: Wiley-Interscience, Hoboken 2005 |
| The effects of the education   * knowledge * skills * social competences | Knowledge:  -Student knows main legal requirements on health and safety at work.  -Student knows methods of risk assessment and ways of protection from risk.  Skills:  -Student is able to analyze the work process and identify hazards.  -Student is able to apply some methods and assess the occupational risk for hazards, as well as choose protective equipment.  Social competencies:  -Student improves his/her skills in communicating, giving opinion and arguing. |