**Course Syllabus**

Academic year: 2018-2019

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| Institution | University of Petroşani |
| Faculty | of Mines |
| Field of study | Industrial Engineering |
| Level | Bachelor |
| Program of study | Safety Engineering in Industry |

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| Course | **Occupational Risk Assessment** |
| Code | IDISSO610 |
| Year of study (semester) | III (VI) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Prof., Ph.D. MORARU Roland |

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| **No.** | **Topic** |
|  | Physical/Energy Hazards (mechanical, noise, radiation, temperature, light, structures, electrical, fire, explosion) |
|  | Physical Hazards prevention and control - Noise, vibration, temperature, radiation prevention measures and strategies |
|  | Chemical Hazards (vapors, mists, solids, fumes, aerosols) |
|  | Biological Hazards (fungi, molds, virus, bacteria, animals) |
|  | Occupational Exposure Limits |
|  | Indoor Air Quality: preventive measures, diagnosis and control. |
|  | Safety/Risk Management, Performance Metrics |
|  | Stress and other psychosocial risks: occupational harassment, sexual harassment, burnout, physical violence. Consequences. Legal aspects of psychosocial risks: the situation in Romania and Europe. Legislation regarding the different forms of harassment. Protection against harassment. |
|  | Psychosocial management. Detection of situations of risk. Common principles of psychosocial intervention. Levels of intervention. Good practices regarding occupational stress. Psychosocial and environmental factors. Intervention regarding the organization of work and the individual. Specific psychosocial intervention. |
|  | Hazards and preventive measures in specific sectors: mining and automotive sector. |
|  | Musculoskeletal disorders: Overstraining and fatigue. Factors and pathologies. More vulnerable groups. Costs and strategies. Risk assessment and preventive measures. |
|  | Confined spaces. Applicable legislation, case studies. |
|  | Coordination of health and safety at construction sites. Working at heights. Applicable legislation. |
|  | Financial and Business Aspects of Occupational Health |