**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 | IDISSO609 |
| Year of study (semester) | III (VI) |
| Number of hours | 84 |
| Number of credits | 5 |
| Professor | Prof., Ph.D. MORARU Roland |

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| **No.** | **Topic** |
|  | Introductions – What is Risk?, What is safe? Internal Responsibility System and Roles/Responsibilities of Workplace Parties. Joint Health & Safety Committees. |
|  | Hazard and risk definitions, examples for hazards and the understanding of Risk. Movies and videos about example hazards and risks. |
|  | The sources of hazards and examples. Risk evaluation legislation and regulations |
|  | Determination and assessment of risks. |
|  | Risk assessment methods. INCDPM Bucharest method. Faul Tree Analysis. Event Tree Analysis. FMECA method. |
|  | Risk assessment methods. LEST. REBA. RULA. SDQ. SDF. MORT technique. |
|  | Comparison of risk assessment methods |
|  | Psychosocial risk assessment methods |
|  | Chemical, Biological and Ergonomic Hazards. |
|  | Musculoskeletal hazards and risk control |
|  | Mechanical and non-mechanical hazards of machinery. Manual handling hazards and control measures. Manually operated load handling equipment. Powered load handling equipment |
|  | Principles, hazards and risks associated with the use of  electricity at work |
|  | Incident Investigations and Root Cause Analysis. |
|  | Safety Behavior and Organizational Safety Culture. |