**Course Syllabus**

Academic year: 2018-2019

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Mechanical Engineering |
| Level | Bachelor |
| Program of study | Machines and Mining Equipment |

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| Course | **Reliability and Maintenance** |
| Code | 2MM5OS41 |
| Year of study (semester) | III (V) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Lecturer Ph.D. eng. FLOREA Vlad Alexandru |

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| **No.** | **Topic** |
|  | Concept of quality and reliability of a technological system |
|  | Mathematical statistical elements operating reliability |
|  | Fundamental expressions or reliability, verification of reliability and concordance tests |
|  | Methods for parameter estimation of reliability |
|  | Reliability of technological system |
|  | Ways and methods to increase the reliability in the design, construction and operation |
|  | Economic aspects of product reliability |
|  | Notion of maintenance, maintainability and availability |
|  | Maintenance systems |
|  | Methods of reconditioning products |
|  | Economic efficiency reconditioning products |