**Course Syllabus**

Academic year: 2020-2021

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

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| Course | **Mining loading and transportation equipment(part I)** |
| Code | 2MM7OS52 |
| Year of study (semester) | IV (7) |
| Number of hours | 42 |
| Number of credits | 5 |
| Professor | Assoc. prof. PhD eng. Andrei ANDRAȘ |

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| **No.** | **Topic** |
|  | General information on the construction and calculation of loading and transport equipment used in mining |
|  | Transport systems (1. Capacity of transport systems 2. Mathematical models for the study of transport systems 3. Applications of systems theory in the analysis of highly complex transport installations) |
|  | Continuous transport systems. (1. Scraper conveyors 2. Belt conveyors 3. Special construction belt conveyors 4. Elevators 5. Propeller conveyors 6. Vibrating conveyors 7. Hydraulic and pneumatic conveyors) |
|  | Discontinuous transport systems (1. Rail transport 2. Car transport 3. Cable transport) |
|  | Vertical transport systems (mine winding and hoisting for personnel and coal) |