**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Transports Engineering |
| Level | Bachelor |
| Program of study | Transports Engineering |

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| Course | **Vehicle Dynamics** |
| Code | 2TT5OS35 |
| Year of study (semester) | III (5) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Assoc. prof. PhD eng. Andrei ANDRAȘ |

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| **No.** | **Topic** |
|  | Introduction, definitions, vehicle classifications |
|  | Dynamics of the vehicle. General principles. |
|  | Tyres. Tire Mechanics |
|  | Braking performance |
|  | Road loads |
|  | Lateral dynamics |
|  | Steady-state cornering |
|  | Analysis of Vehicle Ride |
|  | Ride + Rollover |