**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Systems Engineering |
| Level | Master |
| Program of study | Systems and Information Technology |

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| Course | **Advanced control in robotics** |
| Code | 2STI3AS13 |
| Year of study (semester) | II (I) |
| Number of hours | 84 |
| Number of credits | 7 |
| Professor | Prof., Habil., Ph.D. Monica LEBA |

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| **No.** | **Topic** |
|  | Robots. Concepts, Application |
|  | Sensors |
|  | Modelling and simulation |
|  | Classical control algorithms |
|  | Artificial intelligence control algorithms |
|  | Cooperating robots |
|  | Autonomous navigation of mobile robots |