**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 | Bachelor |
| Program of study | Automation and Applied Informatics |

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| Course | **Robot Control Systems** |
| Code | 2SA7OS47 |
| Year of study (semester) | IV (I) |
| Number of hours | 84 |
| Number of credits | 6 |
| Professor | Prof., Habil., Ph.D. Monica LEBA |

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| **No.** | **Topic** |
|  | Humanoid operations. Definitions. Classifications |
|  | Mechanical system of the robot |
|  | Control system of the robot |
|  | Denavit-Hartenber formalism |
|  | Direct model kinematic control |
|  | Inverted model kinematic control |
|  | SCARA robots |