**Course Syllabus**

Academic year: 2018-2019

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

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| Course | **Mechatronics** |
| Code | 2EE6AS46 |
| Year of study (semester) | III (II) |
| Number of hours | 56 |
| Number of credits | 4 |
| Professor | **Lecturer Ph.D. Adriana ZAMORA** |

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| **No.** | **Topic** |
|  | SHORT HISTORY. DEFINITIONS. |
|  | HOMOGENEOUS COORDINATE TRANSFORMATIONS AND DISPLACEMENTS. |
|  | KINEMATIC ANALYSIS OF PLAIN ROBOTS. |
|  | KINEMATIC ANALYSIS OF 3D ROBOTS. |
|  | ORIENTATION MECHANISMS. |
|  | INDUSTRIAL ROBOTS DRIVE SYSTEM. |
|  | SENSORY SYSTEM OF INDUSTRIAL ROBOTS. |