**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical And Electrical Engineering Faculty |
| Field of study | Systems Engineering |
| Level | Bachelor's level |
| Program of study | Applied Automation and Information |

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| Course | **Automation in industrial applications** |
| Code | 2SA8AS55 |
| Year of study (semester) | IV (II) |
| Number of hours | 56 |
| Number of credits | 4 |
| Professor | Assoc. prof. dr. eng. Stoicuta Olimpiu-Costinel |

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| **No.** | **Topic** |
|  | Structures of numerical control systems. Discretization of continuous systems. |
|  | Analysis of numerical systems. |
|  | Numerical control algorithms. |
|  | The stages of the control systems design process. |
|  | Distributed control systems. Basic concepts. |
|  | Use of the AL2-24MR-D PLC in industrial automation. |
|  | Use of the SIMATIC S7 -300 in industrial automation. |
|  | Use of the FX3U PLC in industrial automation. |