**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 | **Electrical and electronic automation equipment** |
| Code | 2SA8AS52 |
| Year of study (semester) | IV (II) |
| Number of hours | 70 |
| Number of credits | 5 |
| Professor | Assoc. prof. dr. eng. Stoicuta Olimpiu-Costinel |

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| **No.** | **Topic** |
|  | General notions. The structure of a numerical control system. The numerical PI and PID algorithm. |
|  | Programmable controllers. Presentation of FX3U and SIMATIC S7-300 controllers. |
|  | Presentation of the main extension modules of the FX3U PLC. |
|  | Presentation of the main extension modules of the SIMATIC S7-300 PLC. |
|  | HMI interfaces. |
|  | DC / DC converters. |
|  | Static frequency converters. |
|  | Industrial routers and modems. |