**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 | **Modelling, identification and simulation** |
| Code | 2SA5OD35 |
| Year of study (semester) | III (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Assoc. prof. dr. eng. Stoicuta Olimpiu-Costinel |

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| **No.** | **Topic** |
|  | Introduction to systems identification. |
|  | Classification of signals used in systems identification. |
|  | Nonparametric methods of systems identification. |
|  | Parametric identification methods. |
|  | Recursive identification methods. |
|  | Identification of closed loop systems. |
|  | Model validation and model structure determination. |
|  | Parameter and state estimation. |