**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 | **Systems Theory I** |
| Code | 2SA4OD26 |
| Year of study (semester) | II (II) |
| Number of hours | 70 |
| Number of credits | 5 |
| Professor |  Prof., Ph.D. POP Emil |

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| **No.** | **Topic** |
|  | THE CONCEPT OF SYSTEM AND STATE |
|  | STRUCTURAL PROPERTIES OF SYSTEMS |
|  | CHARACTERISTIC MATRIX OF LINEAR SYSTEMS |
|  | EQUIVALENCE OF LINEAR AND STATIONARY SYSTEMS |
|  | STANDARD ACHIEVEMENTS FOR SISO SYSTEMS |
|  | STANDARD ACHIEVEMENTS FOR MIMO SYSTEMS |
|  | AUTOMATIC SYSTEMS, CONCEPTS, STRUCTURE, PERFORMANCE |
|  | ANALYSIS OF SISO AUTOMATIC SYSTEMS |
|  | STABILITY OF SISO LINEAR SYSTEMS |