**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 studies |
| Program of study | Automation and Applied Informatics |

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| Course | **Numerical Methods** |
| Code | 2SA3AF16 |
| Year of study (semester) | II (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Professor., Ph.D. Kecs Wilhelm |

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| **No.** | **Topic** |
|  | Notions of error theory |
|  | Solving algebraic and transcendental equations |
|  | Solving systems of linear equations |
|  | Solving systems of nonlinear equations |
|  | Approximation of functions by polynomials |
|  | Numerical integration |
|  | Numerical solution of differential equations |