**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and electrical engineering |
| Field of study | System Engineering |
| Level | Bachelor |
| Program of study | Automation and Applied Informatics |

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| Course | **Linear Algebra, Analytical and Differential Geometry** |
| Code | 2SA1OF01 |
| Year of study (semester) | I (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | lecturer., Ph.D. HELJIU Marius |

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| **No.** | **Topic** |
|  | Vectorial Spaces |
|  | Euclidean Spaces |
|  | Linear Transformation |
|  | Bilinear and Quadratic Forms |
|  | Free Vectors in the Euclidean Affine Space E |
|  | Analytical Geometry in E |
|  | Differential Geometry |