**Course Syllabus**

Academic year: **2018-2019**

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| Institution | University of Petroşani |
| Faculty | Mining |
| Field of study | Environmental Protection |
| Level | Bachelor |
| Program of study | Engineering and Environmental Protection in Industry |

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| Course | Mathematical Analysis |
| Code | MDPMFO101 |
| Year of study (semester) | I (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Lecturer Ph.D. Martinescu Camelia Mădălina |

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| **No.** | **Topic** |
|  | Elements of theory sets. Relations Functions. Sequences of real numbers |
|  | Series of real numbers |
|  | Continuity of real functions |
|  | Differential calculus |
|  | Sequences and series of real functions |
|  | Continuity of vector functions in Rn |
|  | Differentiability in Rn |
|  | The Riemann integral |
|  | Improper integrals |
|  | Line integrals |
|  | Multiple integrals |
|  | Surface integrals |