**Course Syllabus**

Academic year: **2018-2019**

|  |  |
| --- | --- |
| Institution | University of Petroşani |
| Faculty | Mining |
| Field of study | Industrial Engineering |
| Level | Bachelor |
| Program of study | Engineering and Quality Management |

|  |  |
| --- | --- |
| Course | Mathematical Analysis |
| Code | IDMCFO101 |
| Year of study (semester) | I (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Lecturer Ph.D. Martinescu Camelia Mădălina |

|  |  |
| --- | --- |
| **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 |