**Course Syllabus**

Academic year: 2018-2019

|  |  |
| --- | --- |
| Institution | University of Petroşani |
| Faculty | Mining |
| Field of study | Environmental Engineering |
| Level | Bachelor |
| Program of study | Engineering and environmental protection in industry |

|  |  |
| --- | --- |
| Course | **Chemistry** |
| Code | MDPMSO610 |
| Year of study (semester) | III (VI) |
| Number of hours | 42 |
| Number of credits | 4 |
| Professor | Lecturer, Ph.D. Chem. MOLDOVAN Clementina Sabina |

|  |  |
| --- | --- |
| **No.** | **Topic** |
|  | Introduction to pollution. Control of chemical pollutants through analyzes |
|  | Classical methods for controlling chemical pollutants. Gravimetric methods |
|  | Classical methods of control of chemical pollutants. Volumetric methods |
|  | Control of chemical pollutants by instrumental methods. Electroanalytical methods. Optical methods |
|  | Optical methods based on energy emission |
|  | Chromatographic methods for the determination of pollutants |
|  | Determination of pollutants by biological methods |
|  | Validation of analysis methods |