**Course Syllabus**

Academic year: 2018-2019

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

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| Course | **Chemistry** |
| Code | MDPMDI304 |
| Year of study (semester) | II (III) |
| Number of hours | 42 |
| Number of credits | 4 |
| Professor | Lecturer, Ph.D. Chem. MOLDOVAN Clementina Sabina |

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| **No.** | **Topic** |
|  | Organic pollutants. Introduction |
|  | Hydrocarbons. Halogenated compounds. Hydroxyl compounds |
|  | Carbonyl and Carboxylic Compounds |
|  | Organic nitrogen compounds. Sulphur organic compounds |
|  | Organo-metallic compounds. Food additives. Detergents |
|  | Atmospheric air and organic pollutants. The impact of organic pollutants on the environment |
|  | Air protection and depollution. Methods of controlling air pollution |
|  | Water polution. Organic Pollutants and Pollution Sources |
|  | Effects of surface water pollution |
|  | Water protection and depollution. Methods of controlling water contamination |
|  | Soil pollution. Soil properties |
|  | Soil pollution sources. Chemical reactions in soil |
|  | Soil protection and depollution |
|  | Determination of organic compounds from soil |