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| **Course 1** | |
| **Compulsory academic subjects** | Fundamentals of analytical chemistry and safety in chemistry (2nd semester) |
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| **Course 2** | |
| **Compulsory academic subjects** | Fundamentals of analytical chemistry and safety in chemistry (3d semester) |
|  | Instrumental methods of analysis |
|  | Crystal chemistry |
| **Courses chosen by students** | History of chemistry |
|  | The history of the development of analytical chemistry |
| **Course 3** | |
| **Courses chosen by students** | Radiochemical analysis |
| Courses of the specialization Analytical chemistry | Introduction to modern analytical chemistry |
|  | Organic reagents in analytical chemistry |
|  | Hybrid methods of analysis |
|  | Analytical concentration |
|  |  |
| Courses of the specialization Methods and objects of chemical expertise | Basics of chemical expertise |
|  | Complex compounds in chemical analysis |
|  | Basics of chromatographic analysis |
|  | Methods of sample preparation and separation |
| **Course 4** | |
| **Courses chosen by students** | Methods of teaching chemistry |
|  | Pharmaceutical chemistry |
| Courses of the specialization Analytical chemistry | Methods of molecular absorption in analysis |
|  | Analytical materials science |
|  | Modern electrochemical methods of analysis |
|  | Mass spectrometry and X-ray fluorescence in analysis |
|  | Spectral analysis |
|  | Methods of molecular emission in analysis |
|  |  |
| Courses of the specialization Methods and objects of chemical expertise | Methods of spectrophotometry in microanalysis |
|  | Non-laboratory analysis |
|  | Indicator electrodes in the analysis |
|  | Methods of determining organic components and elemental composition of substances |
|  | Fluorescent probes in biochemical and medical research |
|  | Methods of determination of inorganic components |

**Bachelor's degree**

**The list of courses taught by the staff of the department**