**Methods of Pharmacopoeial analysis lectures plan**

**2025/26**

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| № | Date | The name of the topics and their summary | Hours |
|  |  | **V semester** |  |
| 1 | 6.09 | Photocolorimetry. Theoretical basis. Application in pharmaceutical analysis. Spectrophotometry. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 2 | 20.09 | Spectrometry in the IR and near IR region. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 3 | 4.10 | Fluorimetry. NMR spectroscopy. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 4 | 18.10 | Raman spectrometry. X-ray powder diffractometry. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 5 | 1.11 | Chromatography on paper, thin layer chromatography, ion exchange chromatography. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 6 | 15.11 | Gas chromatography. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 7 | 29.11 | High performance liquid chromatography. Theoretical basis. Application in pharmaceutical analysis. | 2 |
| 8 | 13.12 | Gravimetry. Thermogravimetry. Differential thermal analysis, differential scanning calorimetry. Thermomicroscopy. Theoretical basis. Application in pharmaceutical analysis. | 2 |