

Subject Area: Chemical engineering and advanced materials

M.Sc. Program: Modern spectroscopic and chromatographic analytical methods

1. Educational objectives:

Theoretical and practical training in modern Analytical chemistry, with an emphasis on modern instrumental techniques, in accordance with the current level of knowledge, experience and facilities.

2. Professional Qualifications

Qualified experts in Analytical chemistry: instrumental analytical methods (Analytical atomic spectroscopy, Chromatography, Molecular spectroscopy, EPR, NMR).

3. Professional Realization

The graduates of this MSc program could pursue career as experts in analytical chemistry, scientific research, control, arbitration, technological research & development; fundamental and applied research on modern instrumental techniques for analysis and control; development, improvement, adaptation, optimization and application of new and existing methods, procedures and hyphenated techniques for industry, chemistry, biology, ecology, environmental protection and sustainable development; technological and innovative activities. They could find also professional realization as researchers in academic and research institutes or continue their education as PhD students.

4. Admission requirements

The candidates must hold a BSc or MSc degree in either chemistry or biology, biotechnology, ecochemistry, biology and chemistry, physics and chemistry, chemistry and informatics from the University of Sofia or another university as well as from all departments of chemical engineering. Candidates have to pass a test in chemistry.