

Graduate profile and study plan for a new professionally oriented study program “Chemical Laboratory Technician – specialist”

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Abstract

The current professional community in the field of the chemical industry and public institutions has recently turned to educational institutions in the field of chemistry with the demand for high-quality education of graduates. Based on this, The Institute of Chemistry at PF UPJŠ in Košice, in cooperation with experts from practice, is preparing a mentioned professionally oriented study program.

The study plan was developed in cooperation between practice and school and is aimed at the profile of graduates who will have chemical and physical knowledge about the properties of elements, their compounds and structures, molecular and macroscopic transformations and other phenomena that take place during chemical reactions, processes and production. They will have theoretical and practical knowledge of the basic scientific areas of the field of chemistry - inorganic, analytical, physical, organic chemistry and biochemistry, and of the areas of environmental and pharmaceutical chemistry, ecology. During their studies, they will also acquire IT skills in individual areas. In practice, graduates can orientate themselves in the applications of modern instrumental techniques used in analytical laboratories in the commercial and non-commercial sphere (chemical production, biotechnology, healthcare, agriculture, environment, forensics, etc.) and will gain practical experience during a long-term internship in the last semester of their studies. The contribution will present the study plan as well as selected topics of students' final theses.

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Keywords

education for practice, cooperation, practical skills, practically oriented final theses