

<b>STUDY PROGRAMME</b>	<b>CHEMICAL ANALYSIS, 653F18001</b>
<b>SUBJECT TITLE</b>	Quality of Chemical Analysis
<b>NUMBER OF CREDITS</b>	3
<b>DURATION OF SUBJECT</b>	Total: 80 hours (48 contact hours, 32 self-study hours)
<b>TEACHING PERIOD</b>	Autumn Semester
<b>SUBJECT CONTENT</b>	<p><b>Subject objective</b> Provide students with the knowledge of the chemical analysis quality management in the laboratory, the necessity of chemical analysis, advantages, and basic quality support components, which is essential for a qualified chemical analysis specialist.</p> <p><b>Learning outcomes</b></p> <p><b>Content (topics)</b></p> <ol style="list-style-type: none"> <li>1. Quality assurance of chemical analysis: the necessity and advantages</li> <li>2. Normative documents regulating the quality of the laboratory activity</li> <li>3. Metrology in chemistry</li> <li>4. Qualitative analysis: analyte, matrix. Measurement of material quantity: the detection and determination limit</li> <li>5. Standard materials. verification and calibration of measuring instruments</li> <li>6. Measurement uncertainty</li> <li>7. External relation aspects of a research laboratory</li> <li>8. The process of chemical analysis: plan, execution, description of phases, research report, and adjustment</li> <li>9. Quality of chemical analysis results, internal and external quality control</li> <li>10. The legal element of analysis. Quality policy. Laboratory archive. Assurance principles of measurement quality. Quality guide</li> </ol>
<b>ASSESSMENT</b>	Cumulative assessment (intermediate settlements, practical classes, self-study, examination)
<b>SUBJECT COORDINATOR</b>	<p>Sigita Švedienė Vilniaus kolegija/University of Applied Sciences, Faculty of Agrotechnologies, Chemistry Department 2A Beržų str., Buivydiškės, Vilnius district, LT-14160, Lithuania Tel. +370 5 2 19 16 59 E-mail: chemija@atf.viko.lt</p>