

Technology of mineral substances and materials
Assessment

Learning outcome	Method of assessment	Assessment criteria
<p>Learning outcome 1. Knows manufacturing processes of inorganic matters and materials specified by the syllabus: raw materials, chemism, theoretical fundamentals, flow chart diagrams, main apparatuses, risks and hazards, environmental problems, fields of application.</p> <p>Learning outcome 2. Can conduct comparative analysis of different technologies used for one and the same inorganic matter/material production.</p>	<p>Structured written tests.</p> <p>Include the questions with multi-choice, matching and short answers.</p> <p>The number of tests and content are determined by the lecturer at the beginning of a semester.</p>	<p>The grade is formed by the following:</p> <p>Grade "1". Student has obtained 51-60 p. Grade "2". Student has obtained 61-70 p. Grade „3“. Student has obtained 71-80 p. Grade „4“. Student has obtained 81-90 p. Grade „5“. Student has obtained 91-100 p.</p>
<p>Learning outcome 3. Can implement technological calculations of production processes of inorganic substances (material balances compiling, calculation of discharge coefficients, yield etc.).</p>	<p>Homeworks.</p> <p>Number of homeworks and content are determined by the lecturer at the beginning of a semester</p>	<p>Non-distinctive assessment.</p> <p>The works have been passed if the process of solving and answers are correct.</p>

<p>Learning outcome 4. Is able to apply theoretical knowledge when carrying out experimental work.</p> <p>Learning outcome 5. Is able to build up an experiment, to present the results, handle and analyse.</p>	<p>Tests come before the laboratory works. Include questions by the topic of the work Laboratory works: Inorganic matters synthesis and analysis by the choice of the lecturer. Laboratory works are executed as a teamwork.</p> <p>The number of laboratory works is determined by the lecturer at the beginning of a semester.</p>	<p>Test is considered passed, if the proportion of the correct answers is $\geq 80\%$.</p> <p>Non-distinctive assessment. Laboratory works are considered passed, if they have been executed, experiment data have been handled, properly formed. Protocols of the works have been submitted and defended</p>
<p>Learning outcome 6. Can use independently literary sources (including in foreign language) for investigation problems solving.</p>	<p>Essay and presentation (public performance).</p> <p>Essay theme is given by the lecturer at the beginning of a semester.</p>	<p>Non-distinctive assessment.</p> <p>Essay is an independent work of a student.</p> <p>Essay content corresponds to the theme, has coherent, complete and logic construction. Used sources are appropriate, up-to date and scientific. There should be also foreign language sources in the list of the used literature. The work has been correctly formed and the sources are referred by the forming guidelines. Essay has been defended.</p>
<p>Learning outcomes 1-3.</p>	<p>Exam</p> <p>Consists of two parts.</p> <p>Part1. Structured written work. It consists of theoretical questions by all themes studied</p>	<p>The grade is formed by the following:</p> <p>Grade "1". Student shows all learning outcomes at least once and gets 51-60% points of the total sum;</p> <p>Grade "2". 1+ gets 61-70% points of the total</p>

	<p>and calculation tasks.</p> <p>Part 2. Oral conversation to clarify ambiguous answers of the written exam.</p>	<p>sum;</p> <p>Grade „3“. 2+ can explain the main concepts, gets 71-80% points of the total sum;</p> <p>Grade „4“. 3+ can create connections, gets 81-90% points of the total sum;</p> <p>Grade „5“. 4+ shows additional knowledge, adds own comments, gets 91-100% points of the total sum</p>
<p>Admittance to the exam: tests have been passed at least for the grade „1“(poor), homeworks have been passed, laboratory works have been executed, formed and defended; essay has been compiled and defended. The final grade is formed by the following: auditory tests make 45% and exam – 55%.</p>		