

KAK0146 - Advanced Processes of Environmental Technology

ASSESSMENT METHOD	ASSESSMENT CRITERIA
<p>Written mid-term exams and final exam (assesses learning outcomes 1-7).</p> <p>There are two mid-term exams. The first one covers air pollution prevention methods, water treatment, and advanced oxidation technologies and related practical assignments. The second mid-term covers wastewater treatment, solid waste management and soil remediation technologies and related practical assignments.</p> <p>The final exam covers all topics listed above.</p>	<p>Evaluation criteria of mid-term and final exams:</p> <ul style="list-style-type: none"> • Familiarity with current strategies and trends in contemporary environmental technology as well as with key research and technological centres, and companies. • Knowledge of fundamentals of contemporary environmental technologies and their practical application by type, properties of pollutant, and required elimination degree; • Ability to compose treatment schemes and design equipment of given efficacy on the basis of cost/benefit analysis and evaluate possible consequences. <p><u>Explanation of numeric grades (mid-term and final exam)</u></p> <p>Excellent (5) - Student's answers excellently describe contemporary environmental technologies and cover the material in its entirety. The answers are clear and detailed. The student is able to compose/analyse technological schemes and design the equipment. The student demonstrates mastery of trends in contemporary environmental technology.</p> <p>Very good (4) - Student's answers describe contemporary environmental technologies and cover the material in its entirety. The answers are clear and detailed. The student is able to analyse technological schemes but does not demonstrate creativity when composing technological schemes and designing the equipment. The student is familiar with trends in contemporary environmental technology.</p> <p>Good (3) - Student's answers describe contemporary environmental technologies and mostly cover the material. The answers are clear and specific. There are minor mistakes. The student gets into difficulties when composing/analysing technological schemes;</p> <p>Satisfactory (2) - Student's answers describe contemporary environmental technologies, yet some answers are neither specific nor detailed. There are minor mistakes. The student gets into difficulties when composing/analysing technological schemes and sizing of equipment.</p>

	<p>Poor (1) - Student's answers are only partly cover the material. There are major mistakes. The student is not familiar with all contemporary environmental technologies, is not able to to carry out their cost/benefit analysis. The skills of composing technological schemes and designing the equipment are poor.</p> <p>Homework Students are given homework at 1st or 2nd week, which is presented as an oral presentation in the classroom (8th week).</p> <p>For the homework, the factors to be assessed are:</p> <ul style="list-style-type: none"> • Knowledge of the problem and ability analyse it. • Ability to pass on knowledge to other students and answer questions from listeners. • Quality of the illustrative part of the presentation, linguistic correctness and adherence to the given time.
<p>PREREQUISITES FOR THE FINAL GRADE</p>	<p>The mid-term exams are strongly recommended but not mandatory. Participation in exercises and presentation of the homework is mandatory, and its share in the overall rating is 20%.</p>
<p>FORMATIN OF THE FINAL GRADE</p>	<p>The preliminary grade consists of the sum of two mid-term scores + the score for homework (40 + 40 + 20 %). If both mid-term exams are graded "satisfactory" or higher, the preliminary grade may become final. Students who are not satisfied with the preliminary result or received mid-term grades below "satisfactory" are required to take a written final exam that covers entire course and includes theoretical questions and exercises. In this case, the final exam will contribute 80% to the final grade.</p>