

<b>University:</b> Zhetusy University named after I. Zhansugurov	
<b>Faculty:</b> Natural Sciences and Technical	
<b>Course code:</b> TM 2.4	<b>Course title:</b> New approaches in teaching biology
<b>Type, range and method of training activities:</b> The format is a mixture of about 45 hrs lectures/seminars/discussions on methodological topics. -15hrs lectures + 30hrs exercises per semester The teaching is divided into modules in three separate weeks with intensive all-day coursework in the autumn semester. A day starts with a lecture over one main topic. The lectures will whenever possible seek to be concrete and problem oriented using relevant examples. The follow-up exercises are based on problem-solving of real examples. It is a must that the students are active during lectures and work with exercises, and also in presenting their own graduate work.	
<b>Number of credits:</b>	
<b>Recommended semester of study:</b> 2 <sup>nd</sup> year 1 <sup>st</sup> semester	
<b>Level of study:</b> Master	
<b>Prerequisites:</b> Methods of teaching biology	
<b>Conditions for completing the course:</b> Grades will be given for two part-exams: submitted exercises count collectively for 40% and a written 3-hour final examination will count for 60% of the final grade. Both elements must receive a passing grade.	
<b>Learning outcomes:</b> Development of undergraduates system of methodological knowledge and skills that ensure the willingness to effectively carry out the educational process in biology, independence and creativity in their teaching activities. Summary of the main sections: Biological education in modern school. Methods of teaching biology. Education of students in teaching biology. Extracurricular work in biology.	
<b>Detailed description of lectures:</b> The material base of teaching biology. Methods of teaching biology. Tasks of educational work in biology. The content, system and basic principles of the modern school course in biology. Methods of organization of biological excursions. Non-standard lessons. New pedagogical technologies of teaching biology. Material base of teaching biology. Optional classes in biology.	
<b>Recommended literature:</b> Antipov E.V., Kiseleva O.N., Pervova Yu.V., Starikova T.V., Fedorova M.A. Basic abstract on biology. A textbook for self-training and self-control of students of medical specialties of higher educational institutions. Samara: Medical University "REAVIZ", 2022. Arbuzova E.N. Designing educational and cognitive tasks in biology for different typological groups of schoolchildren. Moscow, 2023. Arbuzova E.N. Methods of teaching biology. Ser. 76 Higher education. Moscow, 2023. Bakai Yu.I. Structure of parasite communities and features of population biology of seabass of the genus <i>sebastes</i> of the Atlantic and Arctic oceans. Murmansk, 2022. Biology: Guidelines for writing individual design works. The level of education is secondary vocational education (SPE). Voronezh, 2022.	
<b>Language of instructions:</b> English	
<b>Comments:</b> The course will be teach at Zhetusy University named after I. Zhansugurov – Kazakhstan	
<b>Course assessment:</b>	

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<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>FX</b>

**Lecturers:** candidate of biological sciences, Oxikbayev Berikzhan

**Date of the last revision:**

**Approved by:**