

Study program: Geoinformation Technologies

Qualification: PhD

General Information	
University	Armenian National Agrarian University (ANAU)
Course title	New teaching methods
The responsible lecturer	Professor Gurgen Yeghiazaryan yeghiazaryangurgen@gmail.com Associate Professor Arusyak Gharibyan ar.a.ghyan@gmail.com
Course type	Compulsory
Course Goal	<p>The "Innovative Teaching Methods for 21st Century Education" course aims to equip educators with the skills and knowledge essential for thriving in today's educational landscape. Participants will deepen their understanding of 21st-century education principles, aligning with the evolving needs of digital-age learners. Through the mastery of active learning strategies, educators will create dynamic and participatory learning environments, fostering critical thinking and collaboration. The course also focuses on effective integration of technology, fostering a shift towards student-centered instruction, and revitalizing assessment practices. By promoting diversity, equity, and inclusion, educators will develop culturally responsive classrooms, and through reflective teaching, they will adapt to evolving student needs and the changing educational landscape.</p> <p>PhD student should learn this course to study new methods of teaching, goals, tasks, ways and forms of their implementation.</p>
Prerequisites and co-	-

requisites (if applicable):			
Duration and ECTS Credits	In credits (ECTS)	In hours	Semester
	3	90 (24 auditorium + 66 individual)	Spring
Learning Outcomes	<p>The students should be able to:</p> <ul style="list-style-type: none"> ➤ Demonstrate a profound grasp of contemporary educational systems, enabling critical analysis and active contribution to ongoing educational discussions. ➤ Implement student-centered pedagogy, creating inclusive learning environments that prioritize individual needs and foster engagement and success. ➤ Employ dynamic, participatory teaching methods, emphasizing activities that promote critical thinking and collaboration beyond traditional lecture formats. ➤ Utilize interactive teaching methods, enhancing learning through engaging activities like discussions and hands-on exercises, fostering practical application of theoretical concepts. 		
Syllabus (List of lessons)	Module 1	Passive teaching methods	
		Lecture	
		Research	
		Report	
		Scientific article	
	Module 2	Active teaching methods 1	
		Laboratory method	
		Exercises	
		A conversation	
		Group discussions	

	<p>Photograph</p> <p>Watching videos</p> <p>Extracurricular work</p> <p>Guided learning</p> <p>Integrated seminar</p>
Assignment #1	Each researcher presents the technology of teaching the same material with active and passive methods
Module 3	Active teaching methods 2
	<p>Master's thesis</p> <p>Microteaching</p> <p>Seminar</p> <p>Online discussions</p> <p>Design method</p> <p>Colloquium</p>
Assignment #2	Organize and implement a trial lesson with a choice of active methods
Module 4	Interactive teaching methods
	<p>Creative work</p> <p>A debate</p> <p>Case method</p> <p>Training</p> <p>Brainstorming</p>
Assignment #3	Present the use of interactive teaching methods with concrete examples

	Module 5	Learning methods
		Study of textbooks, sources Listening Cluster Exercises Modeling Trial teaching Debate
	Assignment #4	Present the content and application of learning methods in concrete examples
Short description	Content of passive, active, interactive teaching methods, ways of implementation	
Recommended textbooks and links (in order of relevance):	<p>Required text and materials</p> <ol style="list-style-type: none"> 1. Берденникова Н. Г., Меденцев В. И., Панов Н. И. Организационное и методическое обеспечение учебного процесса в вузе: учебное пособие. Серия: Новое в высшем профессиональном образовании. - СПб.: Д.А.Р.К., 2006. - 208 с. 2. Беспалько В. П. Педагогика и прогрессивные технологии обучения. - М.: Изд-во ИРПО МО РФ, 1995. - 336 с. 3. Наумкин Н. И. Методическая система формирования у студентов технических вузов способностей к инновационной инженерной деятельности: монография / под ред. П. В. Сенина, Л. В. Масленниковой, Д. Я. Тамарчака; Моск.пед. гос. ун-т. - Саранск: Изд-во Мордов.ун-та, 2008. - 172 с. 4. Наумкин Н. И., Грошева Е. П., Купряшкин В. Ф. Подготовка студентов национальных исследовательских университетов к инновационной деятельности в процессе обучения техническому творчеству / под ред. П. В. Сенина, Ю. Л. Хотунцева; Моск.пед. гос. ун-т. - Саранск: Изд-во Мордов. ун-та, 2010. - 120 с. 	

	5. Наумкин Н. И., Грошева Е. П., Фролова Н. Н. Подготовка студентов национальных исследовательских университетов к инновационной деятельности на основе компетентного подхода // Интеграция образования. - 2010. - № 4 (61). - С. 28-33.												
Assessment methods and criteria	<p>Final exam with 100% and 20-point grade.</p> <p>To successfully complete this course, students must achieve a passing grade of 50% or higher on the overall course and on the mandatory final project (individual work).</p> <p>Under final project students should develop a research proposal.</p> <p>Evaluation factors (%) and their actual score on a 100-point scale</p> <table border="1"> <thead> <tr> <th>№</th> <th>Factor:</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Attendance</td> <td>15</td> </tr> <tr> <td>2</td> <td>Individual work</td> <td>40</td> </tr> <tr> <td>3</td> <td>Final exam</td> <td>45</td> </tr> </tbody> </table>	№	Factor:	%	1	Attendance	15	2	Individual work	40	3	Final exam	45
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1	Attendance	15											
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Course evaluation scale according to the ECTS evaluation system

Evaluation	Accumulated points (%)	ECTS/ATC Grade	20 point scale	ANAU Grade
Pass	90-100	A	18-20	5
	80-89	B	16-17	4
	70-79	C	14-15	4
	60-69	D	11-13	3
	50-59	E	8-10	3
Fail	0-49	F/FX*	0-7	2