

General information	Name, code and number of credits	CSM121 ICT in Education, 6 ECTS
	Department	Education
	Program (bachelors, master)	Bachelor
	Semester	Fall 2025
	Subject teacher (s)	Ulkar Bayramova
	E-mail:	ubayramova@khazar.org
	Phone number:	-
	Advice hours	
Prerequisites	-	
Language of instruction	English	
Type of subject (compulsory/ elective)	Compulsory	
Textbooks and course materials	<ol style="list-style-type: none"> 1. G.Celebic, D.I.Rendulic, Basics conspets of information and communication technology, Handbook, 2011 2. D.Moursund, Introduction to Information and Communication Technology in Education 3. N.Balacheff, Technology Enhanced Learning 2009 4. UNESCO, ICT in teacher education, Conference materials 2010 5. R.Donelly & F.McSweeney, Applied E-learning and E-teaching in Higher Education, 2009 6. ICT in Higher Education and Lifelong Learning, SIREM 2013, Conference proceedings; Bari, Italy 7. E-learning in European HEI, M.Gaebel, Y.Kupriyanova and et.a.Belgium-2014 8. A.W. (Tony) Bates, Teaching in a Digital age 9. Ackerman, G.L., Efficacious Technology Management: A Guide for School Leaders. 2018. ISBN 978-1-387-41398-0. pp.18-41 10. Holmes, W., Persson, J., Chounta, I-A., Wasson, B., Dimitrova, V. Artificial Intelligence and Education. 2022. ISBN 978-92-871-9236-3. 11. Woodward, H., Ebooks in Education: Realising the Vision. 2014. SBN (Hardback): 978-1-909188-37-2 ISBN (EPub): 978-1- 	

	909188-38-9 ISBN (PDF): 978-1-909188-39-6 ISBN (Kindle): 978-1-909188-40-2. DOI: http://dx.doi.org/10.5334/bal . 12. Internet resources		
Teaching methods	Case analysis		X
	Group discussion		X
	Lecture		X
	Home Assignment		X
Assessment	Methods	Date/d eadline s	Percentage (%)
	Midterm Exam	November	25
	Individual Assignment	December	10
	Class Participation	Througho ut semester	10
	Creating teaching and learning platform online	Througho ut semester	15
	Final Exam	January	40
	Total		100
Course description	“ICT in Education” course is dealing with issues of information communication technologies, such role of the ICT in the community, its implementation in teaching and learning process, as well as in higher education institutions.		
Course objectives	“ICT in Education” course creates the foundation about usage of ICT in education and teaching and learning process. This course provides the necessary foundation for graduate students to get the knowledges about context of the information communication technologies, technology enhanced learning, usage of ICT in education and as well as in higher education institutions, also how to use ICT for research.		
Learning outcomes	<ul style="list-style-type: none"> • To know the role of ICT in the community • To learn usage of ICT in education • To know the role of ICT in education • To learn implement ICT in education and teaching and learning process 		

	<ul style="list-style-type: none"> • To know how to implement ICT in higher education institutions • To learn to use ICT for research
Rules (Teaching policy and behaviour)	<p><u>Attendance</u> It is important to attend class each day. Lectures and class activities extend your understanding and application of your new skills and knowledge. If you must miss a class meeting, you are responsible for any missed assignments or handouts.</p> <p><u>Classroom Rules</u></p> <ul style="list-style-type: none"> · You are expected to arrive for class on time each day. · All assignments are due on the date indicated. · Plagiarism will not be tolerated. · Please take advantage of the textbook. Web page for extra help with your assignments. · Show respect for all class members and the teacher. <p>COURSE REQUIREMENTS</p> <ol style="list-style-type: none"> 1. Thorough reading of assigned text segments and supplementary materials. 2. Active, informed participation in class discussions and activities and intellectual engagement at all times. 3. Assignments submitted on time and in appropriate format. All work prepared outside of class must be prepared using a word processor. 4. 4. Regular class attendance except in cases of serious illness or emergency. <p>For the best performance you will be assigned several written assignments (e.g group written assignment) and presentation to reflect your understanding of the course and the skills acquired. Those students who desire to accomplish assignments are required to turn them in on their due dates. All out-of-class assignments must be typed. No hand-written submissions will be accepted.</p> <ul style="list-style-type: none"> ➤ Individual Assignments (total 10 points)s: ➤ PPT – 5 points ➤ Individual project (Kahoot, Quizzes) - 5 points. ➤ Creating teaching and learning platform online – 15 points ➤ Class participation – 10 points ➤ Midterm exam – 25 points ➤ Final Exam – 40 points

One midterm and one final exam are scheduled in this course. All exams will be given according to the attached course schedule.
Notification: NO LATE WORK WILL BE ACCEPTED. YOU WILL LOSE 2 POINTS FOR EVERY LATE ASSIGNMENT.

Tentative Schedule

Week	Date	Topics to be covered	Textbook/Assignments
1		<p>Syllabus – Focus of class, objectives, grading policies etc. The role of ICT in education. Basic concepts of ICT: Hardware and Software</p> <p>Information Technology, Society and Schools</p>	<p>1. Course Syllabus 2. G.Celebic, D.I.Rendulic, Basics concepts of information and communication technology, Handbook, 2011, pp.2-17</p> <p>1. Ackerman, G.L., Efficacious Technology Management: A Guide for School Leaders. 2018. ISBN 978-1-387-41398-0. pp.18-41.</p>
2		<p>Understanding technology in education</p> <p>Seminar</p>	<p>1. A.W. (Tony) Bates, Teaching in a Digital age, pp.189-221</p> <p>1. UNESCO, Technologies for Education: potentials, parameters, and prospects, 2002, pp.42-58</p>
3		<p>ICT in everyday life. Influence on health. Environmental impact.</p> <p>Digital Natives in a Knowledge Society: New Challenges for Education and for Teachers</p>	<p>1. G.Celebic, D.I.Rendulic, Basics conspets of information and communication technology, Handbook, 2011, pp. 17-26</p> <p>1. ICT in Teacher Education: Policy, Open Educational Resources and Partnership, Proceedings of International Conference, Russia, St.Petersburg, November 15-16, 2010, pp. 12- 18</p>

4		Seminar class Implementing Technology-Enhanced Learning	Quiz and discussions 1. N.Balacheff, Technology Enhanced Learning, 2009, pp.289-305
5		Technology Navigators: An Innovative Role in Pedagogy, Design and Instructional Support Seminar class	1. P.Redmond, J.Lock, P.A.Danaher, Educational Innovations and Contemporary Technologies, pp.21-36 Quiz and discussions
6		Web Generation 1.0 and 2.0. Web Generation 3.0 and 4.0. Teens and communication in the age of Facebook IT Networks	1. ICT in Higher Education and Lifelong learning, SIREM 2013, Conference proceedings; Bari, Italy, pp.53-62 1. Ackerman, G.L., Efficacious Technology Management: A Guide for School Leaders. 2018. ISBN 978-1-387-41398-0. pp.91-113
7		Mobile Learning. Protection when using ICT. Legal regulation	1. N.Balacheff, Technology Enhanced Learning, 2009, pp.233-251. 1. G.Celebic, D.I.Rendulic, Basics conspets of information and communication technology, Handbook, 2011, pp.26-35
8		Seminar and consultation for midterm exam	Quiz and discussions
Mid-term exam			

9		<p>Assessment in e-Learning for Higher Education</p> <p>AI in Education. The How: Promises and Implications of AI for Teaching and Learning</p>	<p>1. K.Steer, L.Garg, C.Layfield, J.Borg, Assessment in e-Learning for Higher Education, December 2016. Conference: The International Conference on Computers and Management (ICCM-2016) At: Kota, India</p> <p>1. W. Holmes, M.Bialik, C.Fadel (2019). Artificial Intelligence in Education. Promise and Implications for Teaching and Learning. ISBN-13: 978-1-794-29370-0 ISBN-10: 1-794-29370-0. Pp.82-102</p>
10		<p>The Connections Between AI and Education</p> <p>Seminar class</p>	<p>1. Holmes, W., et al., Artificial Intelligence and Education. 2022. ISBN 978-92-871- 9236-3. pp.15-33.</p>
11		<p>Gamification and Advanced Technology to Enhance Motivation in Education.</p> <p>E-learning, distance learning and blended learning in higher education</p>	<p>1. Llorens-Largo, F., Molina-Carmona, R., Gamification and Advanced Technology to Enhance Motivation in Education. 2020. ISBN 978-3-03936-970-6 (Hbk) ISBN 978-3-03936-971-3 (PDF). pp.1-7</p> <p>2. M.Gaebel, Y.Kupriyanova and et.al. E-learning in European HEI, Belgium-2014</p> <p>3. A study into effects of e-learning on HE, G.Singh et.a.</p>

12		<p>Search engines and online libraries for teaching and learning and the research Ebooks: the learning and teaching perspective</p> <p>Seminar class</p>	<p>Internet resources</p> <p>1. Woodward, H., Ebooks in Education: Realising the Vision. 2014. SBN (Hardback): 978-1-909188-37-2 ISBN (EPub): 978-1-909188-38-9 ISBN (PDF): 978-1-909188-39-6 ISBN (Kindle): 978-1-909188-40-2. DOI: http://dx.doi.org/10.5334/bal. pp.21-35</p> <p>Quiz and discussions</p>
13		Transformation of Universities in Developing Countries	
14		<p>Understanding Change Learning Management Systems. MOOCs, MS TEAMS and others</p>	<p>1. Ackerman, G.L., Efficacious Technology Management: A Guide for School Leaders. 2018. ISBN 978-1-387-41398-0. pp.175-197</p> <p>1. A.W. (Tony) Bates, Teaching in a Digital age, pp. 151-185;</p> <p>2. Internet resources</p>
15		<p>Teacher Professional Development in the Use of Technology</p> <p>Presentation of student works' and finalizing the course</p>	<p>1. UNESCO, Technologies for Education: potentials, parameters and prospects, 2002, pp.118-134</p>
Final exam			