

**Non-Profit Joint-Stock Company
“Abylkas Saginov Karaganda Technical University”**

APPROVED BY
Member of the Management
Board –Vice-Rector for
educational work

_____ 2022.

WORKING CURRICULUM (SYLLABUS)

Educational Course “Ultka qyzmet”

Discussed and recommended at a meeting of the Council for Spiritual and Moral
Education

Minutes No. _____ from _____ 2022.

Karaganda

1. Information about developers

Course developers: Research Institute of Patriotic Education.

Location: 4 Building (Nursultan Nazarbayev Ave. 58), Auditorium 206

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2. The complexity of the educational course

Form of training	Term	Supervisor hours	Testing	Total, hours
Full-time/shortened	1-7	87	7	94

3. Characteristics of the educational course

The educational course “Ultka qyzmet” is necessary for the general development, formation of intellectual culture, cognitive interest, active life and civic position of students.

As a result of studying the educational course, students should acquire knowledge about the political, economic and social life of the country, about the fundamental rights and duties of a citizen, protection of health and ecology.

The educational course consists of supervisor hours, which are conducted by supervisors in the form of lectures, conversations, discussions (debates), meetings with interesting people, excursions, etc.

The effectiveness of mastering the educational course is determined by testing at the end of each term.

The results of mastering the material of the educational course are a key component of the indicator of social competencies (SCI) of students (50%).

4. Purpose of studying the educational course

The educational course “Ultka qyzmet” aims at the comprehensive, harmonious development of the personality of the future specialist – patriot of the country, with a high spiritual, moral and legal culture, active citizenship, progressive outlook.

5. Objectives of the educational course

5.1. Formation of a positive attitude of students to the university and their chosen profession on the example of the achievements of prominent teachers and scientists of the university.

5.2. Education of citizenship, patriotism, respect for human rights and freedoms.

5.3. Formation of value orientations, attitudes to the surrounding world, events and phenomena occurring in the country and the world.

5.4. Development of the ability to independently seek information, analyze,

construct statements, argue their opinions by creating conditions for the formation and manifestation of the student's individuality, his intellectual and creative abilities.

5.5. Students' assimilation of knowledge about the historical and cultural heritage, socio-economic development of Kazakhstan, the basics of legal culture and healthy lifestyle, the state of ecology, global development trends.

6. Thematic plan of the educational course

Name of section	Supervisor hours
1. Abylkas Saginov Karaganda Technical University	12
2. Fundamentals of legal culture	13
3. Health nation and ecology	12
4. Kazakhstan in the global world - preserving identity	13
5. Contribution of outstanding engineers to the industrialization of the country	12
6. Innovative development of Kazakhstan's industry	13
7. Global development trends	12
TOTAL	87

7. Educational Course Policy

7.1. Master classes are conducted by experienced curators to enhance the effectiveness of the supervisor hours.

7.1.1 Requirements for conducting a master class:

- demonstration of pedagogical techniques and methods, innovative technologies during the supervisors hour;
- participation of other supervisors (at least 3 persons), including beginners for the broadcasting of pedagogical experience;
- preliminary approval of the development of master classes with the Research Institute of Patriotic education.

7.1.2 Criteria for evaluating the master class:

- presentativeness (application of pedagogical techniques and innovative technologies in conducting supervisor hours);
- motivation (activity and involvement of students in the process);
- efficiency (positive feedback from the participants of the master class).

7.1.3 The assessment of the quality of the master class, the effectiveness of the applied pedagogical techniques, methods and technologies for the disclosure of the topic, the activity and involvement of students in the course of the lesson is given based on the opinions of the participants-supervisors, members of the **CC and CSME**.

7.2 When studying the educational course “Ultka Qyzmet”, the following rules must be observed:

7.2.1 Don't be late for class.

7.2.2 Do not miss classes without a valid reason, in case of illness submit a

medical certificate, in other cases - an explanatory note.

7.2.3 From the first day to get involved in serious work on studying the topics of the educational course, to be able to work in a team.

7.2.4 In accordance with the Academic integrity policy, all students must exercise personal integrity, respect the honor, dignity and rights of other students, and help create and maintain an environment in which everyone can succeed through joint efforts.

8. Evaluation criteria and policy

8.1. Rating scale

Grade	Digital equivalent	Points (%)
A	4,0	95-100
A-	3,67	90-94
B+	3,33	85-89
B	3,0	80-84
B-	2,67	75-79
C+	2,33	70-74
C	2,0	65-69
C-	1,67	60-64
D+	1,33	55-59
D	1,0	50-54
FX	0,5	25-49
F	0	0-24

8.2. Evaluation Policy

1, 3, 5, 7 terms

Types of work	Academic period of study, week														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Preparation of materials, presentation, reports	-	Points are assigned by the supervisor once at the end of the term												Testing	0-100
Attendance and activity	-	Points are assigned by the supervisor at the end of each supervising hour. Absence of a student at the supervisor's hour is counted as 0 points													0-100
Results of testing															0-100

2, 4, 6 terms

Types of work	Academic period of study, week														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Preparation of materials, presentations, reports	Points are assigned by the supervisor once at the end of the term and depend on the quality of the performance												Testing	0-100	

Attendance and activity	Points are assigned by the supervisor at the end of each supervising hour. Absence of a student at the supervisor's hour is counted as 0 points		0-100
Test results			0-100

Attendance and activity points are available for the current and previous week. The test score is the percentage of the number of correct answers to 25 test questions.

8.3. Formula for calculating term grade point average

$$Total = \frac{\text{Total points for supervisor hours}}{\text{Total number of supervisor hours}} \times 0,3 + \text{report grade} \times 0,3 + \text{test score} \times 0,4$$

9. Schedule of classes for the course

Name of the topic	Неделя
1 TERM. ABYLKAS SAGINOV KARAGANDA TECHNICAL UNIVERSITY	
Message of the President of the country to the people of Kazakhstan. Rules of Internal Regulations, Rules of residence in hostels, Code of Honour of students at Abylkas Saginov Karaganda Technical University	2
Scholarship programs. About the work of student clubs, sports sections	3
Volunteer movement. Youth charity organization “Akniiyet”	4
Military Department	5
Karaganda – the mining capital	6
Main stages of creation and development of KTU: yesterday, today, tomorrow	7
Academician A. Saginov - scientist and organizer of higher technical education in Kazakhstan, founder of Karaganda Technical University	8
History of faculties and graduate departments (according to the profile of the EP)	9
My profession is a step into an innovative future. Successful people of our time who have made their profession interesting and in demand	10
The first Kazakh professor of mathematics A.A. Ermekov	11
Contributions of eminent scientists and educators to the development of KTU: 1) Lebedev S.A. - Honorary Architect of Kazakhstan, Nemen V.N. - scientist, mentor, teacher (ACF); 2) Popov I.I. - founder of the surveyor scientific school in Central Kazakhstan. Kvon S.S. - scientist-educator, founder of the scientific school of mine design. Life and creative path of Professor of mine surveying R.P. Okatov (MF); 3) Shevtsov E.I. - metallurgist, scientist, teacher (MEF); 4) Outstanding teacher, scientist and head of scientific school of mining transportation of Kazakhstan Daniyarov A.N. (RTF); 5) Kogai L.I. - scientist-educator, poet (ITF) 6) Kashik Sh.K. - mentor, scientist-economist (EE&MF); 7) Byrka V.F. - scientist-organizer, teacher (PEA&TF)	12
Contribution of outstanding scientists and educators to the development of KTU: 1) Bakirov Zh. B., Battakov S.B. – scientists, pedagogues of KTU (ACF); 2) Grashchenkov N.F. and Akimbekov A.K. – organizers of the Kazakhstan scientific school of occupational safety. Corresponding Member of the Academy of Sciences of the Kazakh SSR, Professor, Doctor of Geological and Mineralogical Sciences Ermekov M.A. (MF); 3) Piven G.G. - Professor, Doctor of Technical Sciences, Rector of KSTU from 1994 to 2008 (MEF);	13

4) I.A. Yantsen - founder of the scientific school of construction and road building machines (RTF);	
5) Baitleuov I.S. – founder of the specialty of automation and telemechanics of KTU. (ITF);	
6) Togaybaev K.B. and Kim Yu.M. - scientists-economists, mentors, teachers (EE&MF);	
7) I.V. Breido – Professor, Doctor of Technical Sciences, Academician of KazNAES, from 1994 to 2021 Head of the Department of Automation of Production Processes (PEA&TF)	
Testing	14
2 TERM. FUNDAMENTALS OF LEGAL CULTURE	
Human and citizen rights and obligations	1
Respect for the symbols of the state	2
The Right to Education. National Project “Quality Education "Educated Nation”	3
Defence of the Motherland is a sacred duty	4
Fighting corruption is one of the key priorities of the state policy	5
Religious extremism and pseudo-terrorism	6
Regulation of labor relations	7
Financial pyramid scheme, fraud, internet fraud	8
Protection of sexual integrity. Early marriage and domestic violence	9
Illicit trafficking in narcotic drugs and psychotropic substances	10
Human trafficking	11
Deviant behaviour and anti-social behaviour. Extortion and hooliganism	12
Insult - humiliation of honour and dignity, bullying and cyberbullying	13
Testing	14
3 TERM. HEALTH OF THE NATION AND ECOLOGY	
Message of the President of the country to the people of Kazakhstan	2
Healthy lifestyle. Prevention of alcoholism and smoking	3
Correct and rational nutrition - the basis of health	4
Healthy family - healthy nation. HIV prevention	5
Ecological situation in Kazakhstan	6
In the context of indivisible security: anti-nuclear initiatives of Kazakhstan	7
Ecological problems of mining and metallurgical complex and oil and gas industry of Kazakhstan	8
Problems of Lake Balkhash	9
The Aral Sea is a global environmental problem	10

Caspian Sea - the largest closed water body in the world	11
Problems of transboundary rivers in Kazakhstan	12
Waste-free production as a factor in solving environmental problems	13
Testing	14
4 TERM. KAZAKHSTAN IN THE GLOBAL WORLD - PRESERVING IDENTITY	
Outstanding statesman and politician D.A. Kunayev	1
Independence above all	2
Kazakhstan in the system of world politics	3
Modernization of the political system of Kazakhstan	4
Concord and unity are the basis of our development. Assembly of the People of Kazakhstan	5
The program “Ruhani zhangyru”: main directions, special projects. National Project “Ulttyk rukhani zhangyru”	6
The role of upbringing and education in the formation of personality in the works of Abai	7
The Alash movement is an example of statehood and selfless service to the Motherland. A. Baitursynov, A. Bukeikhanov, M. Dulatov	8
Geography of sacral sites in Kazakhstan	9
Monuments of history and culture of medieval Kazakhstan	10
Culture, traditions and identity of the Kazakh people	11
Oral folk art and traditional musical art	12
Science - the engine of progress	13
Testing	14
5 TERM. CONTRIBUTION OF OUTSTANDING ENGINEERS TO THE INDUSTRIALIZATION OF THE COUNTRY	
Message of the President of the country to the people of Kazakhstan	2
Satpayev K.I. - statesman, scientist and organizer of science	3
Tynyshbaev M.T. - the first Kazakh railway engineer	4
Gapeev A.A. - scientist-geologist and organizer of geological researches of Karaganda coal basin. Zyryanov G.G. - discoverer of the Zyryanovskoye deposit.	5
Basenov T.K. - architect, founder of Kazakh architectural school.	6
Chokin Sh.Ch. - scientist-energetic and organizer of energy complex of Kazakhstan. Berdus I.V. - power engineer, organizer of Leninogorsk HPP cascade	7
Baikonurov O.A. - Mining engineer, creator of innovative technologies for extraction of non-ferrous metal ores, chemical raw materials and non-metallic materials in Kazakhstan. Gurba V.V. - mining organizer and outstanding mining engineer	8

Bitny M.A. is one of the founders of the Almaty Heavy Machinery Plant	9
Zhunosov T.Zh. – civil engineer, founder of earthquake-resistant construction in Kazakhstan	10
Utebaev S.U. is the organizer of the oil industry of Kazakhstan. Sagingaliev B.S. – Honored Oilman of the Kazakh SSR, discoverer of Tengiz	11
U.A. Dzholdasbekov – mechanical engineer, founder of the Kazakhstan scientific school in the field of theory of machines and mechanisms	12
Takezhanov S.T. – metallurgist scientist, organizer of non-ferrous metallurgy of Kazakhstan	13
Testing	14
6 TERM – INNOVATIVE DEVELOPMENT OF KAZAKHSTAN'S INDUSTRY	
Economic Strategy of Kazakhstan. National project “Sustainable economic growth aimed at improving the welfare of Kazakhstanis”	1
Development of mining and metallurgical complex - a key sector of Kazakhstan's economy	2
Current state and prospects of development of mining and mining-processing industries of Kazakhstan	3
Current state and prospects of development of machine-building complex of Kazakhstan.	4
Transportation and logistics systems in the development of Kazakhstan	5
Development of fuel and energy and oil and gas complex of the Republic of Kazakhstan	6
Current state and prospects of development of construction industry of the Republic of Kazakhstan.	7
Digital Transformation of Kazakhstan. National project "Technological breakthrough through digitalization, science and innovation".	8
Infrastructure development in Kazakhstan. National project “Strong regions - a driver of the country's development”.	9
Prospects for the development of alternative energy sources in Kazakhstan. National project “Green Kazakhstan”	10
Modernization of agriculture in Kazakhstan. National project on the development of agro-industrial complex.	11
Entrepreneurship - the leading force of the national economy. National project on the development of entrepreneurship	12
Career prospects at Abylkas Saginov Karaganda Technical University. Master's and doctoral studies	13
Testing	14
7 TERM – GLOBAL DEVELOPMENT TRENDS	
Message of the President of the country to the people of Kazakhstan	2
Nanotechnologies: world tendencies of development. The role of nanomaterials in the development of the 6th technological mode	3

The world market and trends in the development of robotics. Unmanned transportation of the future	4
Trends of global and applied space programs development.	5
IT technology trends in “Industry 4.0”. Bill Gates - creator of Microsoft	6
Main trends in the development of the solar energy market. Wind power - energy of the future	7
Global trend - biofuel production	8
Eco-technologies - global trend of total industrialization and industrial growth	9
“Green” construction - the main trend in the world market	10
World trends in biotechnology development. Industrial biopreparations	11
History, status and prospects of automation development. Henry Ford - the founder of scientific organization of work	12
Modern trends in the development of cyber-physical systems and artificial intelligence. Steve Jobs - founder of Apple Corporation	13
Testing	14

