


















ACTION PLAN 1 OF SATBAYEV UNIVERSITY IN 17 AREAS OF UN SDG 2023-2030.

GOALS	PRIMARY GOAL	SCIENCE	EDUCATION	SOCIAL ISSUES	DEADLINES
01 POVERTY ERADICATION 	To contribute to the elimination of extreme poverty of Kazakhstan by 2030 by providing the continuing education, Adult education by 2030.	Conducting the research on the topic: "The impact of the social entrepreneurship program on improving the lives and economic sustainability of low-income communities: Case study"	Introducing the series of specialized courses and master classes on improving the Kazakhstanis' lives Conducting the educational games and simulations that will help students better understand the complex relationships between economics, ecology and social aspects of sustainability	To elaborate Digital Family Map - an innovative platform that helps to promptly and effectively provide state support to the most vulnerable families To elaborate Digital Map of Student, Teacher - an innovative platform that helps to promptly and effectively provide state support to the most vulnerable students and families Holding a charity fair to raise funds to support the local social projects	2024-2025 2023-2027 2023-2030
02 ELIMINATION OF HUNGER 	For Kazakhstan, the problem of ensuring the food security, improving nutrition and promoting sustainable agricultural development is more urgent	Elaborating the irrigation system for agricultural crops using resource-saving technologies	Conducting the series of specialized courses and workshops on sustainable agricultural development and improving food security	Holding a charity fair to raise funds to support the local social projects Improving and implementing the quality of life of students at University through social packages, due to attracting the investments	2023-2030 2023-2030
03 GOOD HEALTH AND WELL-BEING 	Ensuring a healthy lifestyle and promoting well-being for students, employees of Satbayev University and their families		Together with MSC Kazakhstan company about conducting the business workshop for owners and managers of medical businesses and organizations in healthcare sphere Holding of "Densaulyk-2023-2030" sports contest among students who undergo training practice at the Kapchagai training ground Launch of master classes on Healthy Lifestyle	Promoting the image of University in the global scientific and educational space as a driver of socio-economic and spiritual modernization of society Implementing the social responsibility projects with government agencies, the civil sector and international organizations Holding a day of free admission - open doors - for everyone at University polyclinic	2023 2023-2030 2023-2030
04 QUALITY EDUCATION 	Ensuring the succession and continuity of obtaining a fair quality education, vocational training in accordance with the needs of the economy and regional characteristics throughout life for all	Seminars on professional development of teaching staff and students with the participation of National ESG Club Preparation of textbooks and teaching aids published under the stamp of RK MSHE Defense of Master's and Doctoral PhD theses Stirring up the competitive activities of employees and students, increasing the share of world-class competitive developments aimed at strengthening the potential of Satbayev University as a scientific and cultural outpost of RK	To develop effective multilateral cooperation with technical universities of the world on issues of science and education Improving the existing educational programs and the opening of innovative educational programs, taking into account the Atlas of new professions Introducing the series of specialized courses and DP on UN SDG for all majors in Bachelor: 1. "Fundamentals of Sustainable Development and ESG projects in Kazakhstan" (in Kazakh, Russian and English); 2. "Sustainable Development" (Russian and English) for Master's and Doctoral programs; 3. Implementing "Geo-tourism" minor; 4. Opening of the new DP "Cultural tourism"; 5. Opening of the new DP "Urban Ecology" etc.	To become an authorized member of International Network of Socially Responsible Universities (USRN) along with such leading universities of the world as Cambridge, Beijing, Manchester, Hong Kong Universities, University of Washington and Sao Paulo etc. Holding 'Open Doors Day' at Institutes Conducting Republican and International Olympiads in the profile disciplines of University	2023-2030 2023-2030 2023-2030
05 GENDER EQUALITY 	By 2030, to expand the opportunities of lasses and women and protect their rights in education sphere, ensure equal access to education and vocational training erty		Special course on Gender development and equality in Kazakhstan	Full support of Central Asian Alliance for elimination of gender-based violence	2023-2030
06 CLEAN WATER AND SANITATION 	By 2030, to minimize water-borne diseases and other infectious diseases as much as possible (AIDS, tuberculosis, malaria and tropical diseases etc.) Ensuring the availability and rational use of water resources and sanitation throughout University		Modernization of the content of degree programs by the component on sustainable development and environmental protection	To support Eco-movement in Kazakhstan through scientific and practical elaborations and their implementation	2023-2030

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07 LOW-COST AND CLEAN ENERGY 	By 2030, to intensify international research and technologies in clean energy field, including renewable energy, improving the energy efficiency of the use of fossil fuels etc.	Forming the modern academic, research infrastructure digital ecosystem	Providing the degree programs with eco-oriented modules, conducting the master classes on SDG	The use of scooters, electric bikes, electric cars and scooters on campus	2023-2030
		Conducting the research within the framework of "Development of a new design of the modular wind power plant with the fixed vertical axis" scientific project	Ensuring the high-quality level of training of highly qualified personnel based on the integration of education and science, generation and transfer of new knowledge and technologies in the field of machinery and equipment operation	Social work, development of ecological education and ecological culture of youth	2023
		Elaboration and research of technology for manufacturing the body parts from stone-cutting waste	Organizing the eco-oriented content of students' practices on the basis of industrial enterprises		2023-2030
		Elaborating and executing the innovative educational content in the field of technological equipment operation using interactive, eco-oriented methods and forms of training			2024
		Elaboration of "Integrated safety management system for railway transport" search research	Involvement of students in creating the media materials and projects dedicated to a healthy lifestyle	Installation of solar panels (batteries) for recharging the electrical appliances	2025-2030
		Elaboration of "Resource saving in transport" search research			2026
08 DECENT WORK AND ECONOMIC GROWTH 	Creating jobs and career opportunities for the young	Annual ACM ICPC Sports Programming Olympiad	Introducing the specialized courses and master classes on sustainable development in the field of social responsibility and topical issues of youth	Student hackathon on social innovations aimed at developing the innovative solutions in the field of sustainability, such as smart use of resources, improving energy efficiency etc.	2023-2030
			Elaborating "Innovative rolling stock" degree program	Opening of the student club devoted to promoting sustainability, organizing educational events and practical projects	2024
			Improving the existing degree programs and opening of innovative degree programs, considering the Atlas of new professions	Creating the social and humanitarian centers together with government agencies (long-term projects of social responsibility to solve the urgent problems of youth)	
09 INDUSTRIALIZATION, INNOVATION AND INFRASTRUCTURE 	Introducing and promoting the new technologies, modernization of infrastructure and re-equipment of industrial enterprises and laboratories, intensification of scientific research will become a sustainable basis for increasing the efficiency of resource use and wider use of clean and environmentally friendly technologies and industrial processes. For achieving the sustainable development, investments in University infrastructure are extremely crucial	Opening of "Diamond drilling tools" scientific and production laboratory	Launching the series of specialized courses and workshops on sustainable development	Participation in the projects of Center for Inclusive Education of our University for the population's benefit	2023
		Conducting the international scientific and practical conference dedicated to 85 th anniversary of V.A. Luganov (metallurgy and ME direction)		Training the professional and civic responsibility of students, their abilities for analytical and team work	2023
		Conducting the seminar on the topic: "Practical use of inductively coupled plasma iCAP atomic emission spectrometers with iTEVA and Qtegra software manufactured by Thermo Scientific (USA)"			
		Conducting the Annual International Scientific and Practical Conference "Modern trends in oil and gas and ore geophysics"	Internships of teaching staff at RK leading enterprises and abroad to increase the innovation potential	International Geological Olympiad among schoolchildren	2023-2030
		Conducting the research within the framework of "Investigation of the efficiency limit of organometallic perovskites based on CH ₃ NH ₃ SnI ₃ and CH ₃ NH ₃ PbI ₃ for photovoltaics" scientific project			2023-2030
		Conducting the research on "Improving the gas cleaning and dust collecting equipment and installations of mining and metallurgical complexes of the Republic of Kazakhstan"			
		Hackathon on gamification of "SU Game Jam 2023-2030" business processes. Cyber Hackathon "SUCTF".	Annual Open Subject Olympiad in Robotics		2023-2030
		Hackathon on block chain technologies "Decentrathon"	Elaborating the additional education programs (minor) "Sustainable development of transport", "Transport and Logistics", "Environmental management in transport"		2023-2030
		Modernization of technological equipment using the achievements of science and technology			
		Elaborating "Evaluation of the effectiveness and efficiency of the safety management system in railway transport" research project	Elaborating "Evaluation of the effectiveness and efficiency of the safety management system in railway transport"; "Transport safety management system"; "Development of safety in transport culture" advanced training courses		2023-2030
Elaborating "Development of safety in transport culture" search research project					

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<p>10</p> <p>REDUCING THE INEQUALITY</p> 	<p>To contribute to reducing the inequality for vulnerable groups of the population (refugees and migrants, the elderly, the disabled and children) within countries, as well as between states and peoples</p>	<p>Conducting "Social innovative interaction of University and Society for Sustainable Development" seminar</p>	<p>Conducting the specialized courses and master classes on providing the comprehensive assistance to vulnerable segments of the population</p> <p>Organizing the Summer School with an in-depth study of Sustainable Development Goals, which will allow students to gain deeper knowledge and skills</p>	<p>Executing the social responsibility projects with government agencies, the civil sector and international organizations;</p> <p>Execution and further improvement of the social infrastructure of university students, including medical and food services within the campus</p> <p>Increasing the number of international students from undeveloped countries in Asia and Africa</p> <p>To create Charitable foundation that carries out its activities with the purpose to prevent social orphan hood and reduce the number of children entering orphanages every year (or to take patronage of an orphanage)</p> <p>To intensify efforts to attract social urban and university programs to support students from orphaned children or disadvantaged families</p>	<p>2023-2030</p> <p>2023</p> <p>2023-2030</p> <p>2023-2030</p>
<p>11</p> <p>SUSTAINABLE CITIES AND SETTLEMENTS</p> 	<p>By 2030, to expand the scope of Smart city, as well as open to all and environmentally sustainable urbanization, paying special attention to the needs of vulnerable segments of the population: women, children, the disabled and the elderly. At the same time, to intensify state and public efforts to protect and preserve the world cultural and natural heritage in Kazakhstan</p>	<p>Creation of Stroytech Technopark</p> <p>Participation in PTF 46 program in subsection 8 "Elaboration of model of sustainable development of a million-plus city based on the integration of digital twin cities, digital urbanism and design (GIS&BIM) technologies"</p> <p>Implementing the projects in the direction of "25 engineering projects on the campus of Satbayev University - projects "Modular house"</p> <p>Preparation of textbooks and teaching aids published under the stamp of RK MSHE</p> <p>The use of technological achievements and data from other sciences (BIM technologies etc.) - cooperation with KazRDICA, RK Union of Architects, Union of Designers and other RK leading organizations</p>	<p>TEACHING SDG - MOOC "Cultural and Natural heritage in Kazakhstan: Ways of strengthening the protection"</p> <p>Massive online educational course is closely related to SDG 11, 11.4.1 – Protecting the cultural heritage</p> <p>Master classes of RK leading architects and builders - "Archive meetings at Polytech"</p> <p>Opening of Academy of Design at "Architecture" Department</p> <p>Opening of subsidiaries of "Architecture" Department at the following enterprises: "3-A Engineering" LLP (Republic of Kazakhstan, 050036, Almaty, Auezov district, micro district 12, house 22/2); "Grado" LLP design firm (Almaty, 86 Gogol and Nauryzbai Batyr str. - office 700).</p> <p>Implementing the double-degree education program: conclusion of agreements on double-degree education with partner universities from among Top-700 of QS rating</p> <p>Involvement of practitioners and members of RK Union of Architects and other representatives from production to conduct training sessions, reading the elective subjects</p>	<p>Conducting the public discussion on measures to preserve Almaty's historical center</p> <p>Identifying the gifted children in the field of architecture and design at school age: pre-professional training of students in "Architecture" and "Design" areas</p> <p>Project work of "Polyarch" working group, obtaining a license for 2nd category</p> <p>Large-scale work on the development and popularization of "Architecture" Department among the general public</p>	<p>2023</p> <p>2023-2030</p> <p>2023-2024</p> <p>2023-2030</p> <p>2023-2030</p>
<p>12</p> <p>RESPONSIBLE CONSUMPTION AND PRODUCTION</p> 	<p>Implementation of sustainable practices at University, separate collection and recycling of waste and garbage, energy efficiency and use of renewable energy sources etc.</p>	<p>Submission of an application for funding the study on: "Assessment of the impact of corporate social responsibility on the financial stability of enterprises in the context of global challenges to environmental sustainability" topic</p>	<p>Annual Subject Olympiad in Electrical Engineering</p>	<p>Creation of special containers for collecting and packing garbage and waste. Organization of events dedicated to environmental education, cleaning of territories, as well as actions to collect recyclable materials</p> <p>The use of energy-saving light bulbs in all rooms of University</p>	<p>2024-2030</p> <p>2024-2030</p>
<p>13</p> <p>COMBATING THE CLIMATE CHANGE</p> 	<p>Unhealthy ecosystems affect the foundations of our economy, livelihoods, food and environmental security, health and quality of life. Therefore, by 2030, it is necessary to ensure the conservation, restoration and rational use of terrestrial and inland freshwater and mountain ecosystems, including their biodiversity</p>	<p>Elaborating "Green" automobile transport" search research project</p>	<p>Annual Subject Olympiad in Electrical Engineering</p>	<p>Transition of University to "green office" model</p>	

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<p>14 CONSERVATION OF MARINE ECOSYSTEMS</p> 					
		The given direction has not been developed in Kazakhstan yet.			
<p>15 CONSERVATION OF TERRESTRIAL ECOSYSTEMS</p> 	Developing the Innovation ecosystem created at University provides it with a high rate of scientific and technological growth	Preparation of textbooks and teaching aids published under the stamp of RK MSHE			2023-2030
<p>16 PEACE, JUSTICE AND EFFECTIVE INSTITUTIONS</p> 	Assistance in building the peaceful and open society in the interests of sustainable development in Kazakhstan, which will ensure the intellectual, spiritual, moral and healthy physical development of students and University staff, as well as introducing the world achievements in academic and educational processes	Conducting the Annual Interdisciplinary Conference on Sustainable Development	Optimization of the combined training format - online and offline, the study of leading international practices in the given field and development of international cooperation on this issue in order to address items related to the challenges and trends in advancing the modern education	Conducting the cultural festival, which will present the traditions and culture of various nationalities and groups, with the purpose to develop tolerance and understanding	2024-2030
<p>17 PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT</p> 	To promote the elaboration, dissemination and development of environmentally sound technologies at the national, regional and international levels. To expand regional and international cooperation in the fields of science, technology and innovation, as well as access to these achievements	<p>To develop effective multilateral cooperation with technical universities of the world on issues related to science and education</p> <p>Active participation in competitions of RK MSHE, RK MES, JSC Science Foundation, Ministries of MINT, MEMR etc. on fundamental and applied research</p> <p>To apply for Grant funding for the project devoted to formation and development of the scout movement in Kazakhstan (RK MSHE, RK MES, RK ME etc.)</p> <p>Integration of University scientists into the world scientific community (internationalization of research and development on the basis of partnership with leading universities and research centers, publications in international high-ranking publications Q1 and Q2).</p>	<p>Annual Subject Olympiad in "Automation and control" direction</p> <p>Informal practical outdoor activities, including the acquisition of survival skills in the forest, hiking, water tourism, sports</p>	<p>To become an authorized member of International Network of Socially Responsible Universities (USRN) along with such leading universities of the world as Cambridge, Beijing, Manchester, Hong Kong Universities, University of Washington and Sao Paulo etc.</p> <p>Conducting the contest of social projects with a call to participate in social activity and make positive changes in society</p> <p>Support and development of the scout movement in Kazakhstan</p>	<p>2023-2030</p> <p>2023-2030</p> <p>2024-2030</p> <p>2023-2030</p>