

Thematic schedule of classes within the School of the Future (30.12.2023-30.01.2024)

№	Session names	Dates	Speakers and presenters
Session # 1.	First organizational meeting of Project organizers and participants of the Horizon 2100 project		
	Meeting participants of the School of the Future in large groups. Explanation of the tasks and action plan Школы of the Future Gateway. Drawing up a schedule of classes for large groups and teams together with participants	07.01.2024	Youth tutors
Session No. 2	Pintrroduction to the topic. Homework – view video lectures on the topic of the future of society, humanity and human health		
2.1.1.	" What will the society of the future look like? Possible trends of development / transformation "	08.01.2024.01.2024-0-09.01.2024.01.2024	Inga Vladislavovna Zheltikova , PhD in Philosophy, Associate Professor of the Department of Philosophy and Cultural Studies of the I. S. Turgenev Orel State University.
2.2.	" Strategy for the development of human health protection systems until the end of this century "		Cherkasov Sergey Nikolaevich , MD, Associate Professor, Chief Researcher of the Trapeznikov Institute of Management Problems of the Russian Academy of Sciences, expert in health economics, former Deputy Minister of Health of one of the constituent entities of the Russian Federation.
2.3.	"Man 2100: forecasts and expectations"		Galkina Ninel Mikhailovna , expert of the Contest of scientific papers "HORIZON 2100", Candidate of Medical Sciences (biochemistry), biophysicist, doctor (medical science), teacher of the Department of Biology named after V. I. Abramovich. Academician V. N. Yarygin Pediatric Faculty of the Pirogov Russian National Research Medical University
2.4.	"The future of medicine: revolution with artificial intelligence and robotics"		Dr. Alvaro Tapia, Ecuador Department of Health and Well-being, Catholic University of Cuenca
Session 3.	Second organizational meeting of Project organizers and participants of the Horizon 2100 project		
	Discussion of topics of video lectures: opinions of participants Identification of team leaders	10.01.2024	Youth tutors

Session # 4	Immersion in the topic. Homework – view thematic video lectures on the future of the global world, Russian / world economy, energy, environment and sustainable development		
4.1.	"The future of the Global World 2100: risks and trends of development and transformation"	11.01. -15.01.2024.01.2024	Alexander Ivanovich Ageev , General Director of the International Research Institute of Management Problems (IMIIPU) and the Institute of Economic Strategies of the Russian Academy of Sciences (INES). Doctor of Economics, Professor, Academician of the Russian and European Academies of Natural Sciences, the Academy of Military Sciences of the Russian Federation and a number of other scientific communities.
4.2.	" Uncertainty management vector: assemblage point-economy 2100"		Evgeny Loginov , Deputy Director of the Institute of Economic Strategies (INES), Doctor of Economics, Senior Professor of the Russian Academy of Sciences, twice winner of the Russian Government Prize in Science and Technology, winner of the Russian Government Prize in Education
4.3.	"The future of the environment and sustainable development"		Sergey N. Bobylev , Head of the Department of Environmental Economics, Faculty of Economics, Lomonosov Moscow State University, Professor, Doctor of Economics, Head of the Center for Bioeconomics and Eco-Innovation at Lomonosov Moscow State University, Honored Scientist of the Russian Federation, Academician of the Russian Academy of Natural Sciences, UN Expert
4.4.	" Biodiversity Ecosystem and Future Challenges: how can digitalization contribute to the conservation of biodiversity for the future?"		Penka Doneva, Bulgaria , graduate of the University of Economics, Varna and the D. A. Tsenov Academy of Economics in Bulgaria, Master's degree from the Peoples 'Friendship University of Russia; Senior Expert of the Department " Investments and European Programs " in the Municipality of Stara Zagora
4.5.	"Green building and energy efficiency-the way to Sustainable development of the future".		Guy Eames, UK , Director of Planet 2030 Ltd, UK, Chairman of the Green Building Council RuGBC, consultant of green building projects and initiatives for many leading Russian corporations.
4.6.	Presentation "The future of Renewable energy in Latin America by 2100"		Javier González Redro, Ecuador , Professor of Engineering, Industry and Construction, Catholic University of Cuenca. Professional interests include energy, energy efficiency, smart grids, and projects.н
Session # 5.	Third Organizational meeting of Project organizers and participants of the Horizon 2100 project		

	Discussion of the topics of video lectures: opinions of participants Organizational issues	16.01.2024.01.2024	Youth tutors
Session # 6	Immersion in the topic. Homework – view thematic video lectures on the future of science, industrial technologies, artificial and natural intelligence		
6.1.	"Is it possible to predict science?"	17.01- 19.01.2024.01.2024	Yuri Valentinovich Sidelnikov , Chief Researcher of the Institute of Control Problems of the Russian Academy of Sciences, Doctor of Technical Sciences, Professor of the Moscow Institute of Physics and Technology, First Vice-President of the MOO "Academy of Forecasting", full member of the Russian Academy of Cosmonautics named after K. E. Tsiolkovsky
6.2.	"Industrial technologies by 2100"		Istomina Natalia Leonidovna , Deputy Academic Secretary for Scientific and Organizational Work of the Russian Academy of Sciences; Professor of the Department of Innovation Management of the Moscow Aviation Institute (National Research University); Doctor of Physical and Mathematical Sciences (Moscow, Russian Federation).
6.3.	"AI and meaning recognition"		Daryana Vladimirovna Lemtyuzhnikova , Candidate of Physical and Mathematical Sciences, Senior Researcher at the Institute of Control Problems of the Russian Academy of Sciences, Chairman of the Council of Young Scientists of IPU RAS.
6.4.	"The future of human intelligence"		Augusto Cabrera-Duffaut, Ecuador , Catholic University of Cuenca (UCACUE), Master of Technology, Innovation and Entrepreneurship
Session # 7.	Fourth Organizational Meeting of Project Organizers and participants of the Horizon 2100 Project		
	Discussion of video lectures: participants ' opinions Organizational issues	20.01.2024.01.2024	Youth tutors
Session # 8.	Dive into the topic. Homework – view thematic video lectures on the future of the human environment		
8.1.	"Evolution of architectural structures for the future of the human environment"	21.01-23.01.2024.01.2024	Architect Marco Avila Calle , project coordinator from Ecuador, Master of Architecture and Urban Planning, Director of Public Relations at the Catholic University of Cuenca. He holds a Master's degree in architecture, graduated from the Catholic University of Cuenca with honors and the National University of Piura (Peru), architectural design.

8.2.	"The future of the human environment in outer space: space projects of the Moscow Architectural Institute (State Academy) of the Moscow Institute of Architecture"		Elena Vladimirovna Malaya , Candidate of Architecture, Associate Professor of the Moscow Architectural Institute (State Academy) of the Moscow Institute of Architecture, Member of the Union of Moscow Architects, Member of the International Council for the Preservation of Monuments and Places of Interest, Corresponding Member of the Academy of Architectural Heritage.
8.3.	" Industrial Revolutions and prospects for space exploration by 2100 "		Vladislav A. Leonov , Candidate of Physical and Mathematical Sciences, Researcher at the Institute of Astronomy of the Russian Academy of Sciences, Senior Researcher at VINITI RAS, Professor of the Russian Academy of Natural Sciences, Corresponding member of the Russian Academy of Cosmonautics named after K. E. Tsiolkovsky, member of the Russian Geographical Society. Author of more than 100 scientific publications and patents in the field of space exploration.
8.4.	"Global trends in improving human potential: timeline of key events in human evolution for the next 100 years"		Alexander A. Chulok , Director of the Center for Scientific and Technological Forecasting of the Institute for Statistical Research and Knowledge Economics of the National Research University "Higher School of Economics", Doctor of Economics.
Session 9	Discussion of video-lectures: participants 'opinions Organizational issues	24.01-25.01.2024.01.2024	Youth Tutors
Session # 10	Two-day educational Foresight session "Immersion in the challenges of the Future" Session with simultaneous translation in Russian, English and Spanish. All participants participate at the same time Horizon 2100 project		
Day 1	What is Foresight? Definition of the website, a brief description of its evolution Goals and objectives of the Website, basic principles.Форсайта, краткая характеристика его эволюции Website goals and objectives, basic principles.Форсайта, основные принципы. Levels of application of the Website (national, industry, corporate), examples.Форсайта (национальный, отраслевой, корпоративный), примеры. Methods used for conducting the website, including quantitative, qualitative, and big data analysis. Examples of using different methods.	26.01.2024 4 hours Moscow: 16:00-20:00 Latin America, Ecuador: 08:00 – 12:00; All participants from other countries need to determine when the Foresight Session will start local time	Alexander A. Chulok , Director of the Center for Scientific and Technological Development Head of the Institute of Statistical Research and Knowledge Economics of the National Research University "Higher School of Economics", Doctor of Sciences, Candidate of Economic Sciences.

	Typical errors in foresight research		
Day 2	<p>Definition of the foresight session, goals, tasks, possible formats, examples</p> <p>Typical structure (scenario) of the foresight session</p> <p>Introductory statement-description of global trends</p> <p>Division into groups-principles and approaches to their selection</p> <p>Working in groups.</p> <p>Step 1. "Trends" - identification of various trends (social, scientific and technological, environmental, etc.) that affect the chosen topic.</p> <p>Step 2 "Actions" - defining the set of actions needed to counter threats and take advantage of opportunities created by trends.</p> <p>Step 3. "Presentation" - presentation of the results obtained. Answers to questions. Discussion, exchange of views on the results</p>	<p>of</p> <p>28.01.2024 4 hours</p> <p>Moscow: 16: 00-20: 00</p> <p>Latin America, Ecuador: 08: 00-12: 00;</p> <p>All participants from other countries need to determine when the Foresight session will start local time</p>	<p>Alexander A. Chulok, Director of the Center for Scientific and Technological Forecasting of the Institute National Research University "Higher School of Economics", Doctor of Sciences, Candidate of Economic Sciences.</p>
Session # 11	<p>Discussion of the results of the School of the Future: participants ' opinions, what they liked, what they didn't like, what can be improved</p> <p>Organizational issues before the forum</p>	29.01-01.02.2024	Youth tutors