EURASIAN NATIONAL UNIVERSITY

STEM

"STEM-TRAINING AND PRACTICAL TEACHING METHODS"
STEM WEEK

Co-funded by the
Erasmus+ Programme
of the European Union

25 EURASIAN NATIONAL UNIVERSITY

STEM

The program of the STEM Festival and summer school

on the basis of the L.N. Gumilyov Eurasian National University

«STEM in Modern Education: Trends and Strategies»

June 20-30, 2022

Nur-Sultan

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

Time	Name of the event	Meeting place
June 19		
Arrival of the festival participants		Nursultan Nazarbayev International Airport. Railway stations-1. Railway stations-2.
June 20 (online / offline)		
Nur-Sultan time		
13.30-14.15	Registration of participants of the festival and summer school.	2 Satpayev str. Administrative building, conference hall foyer, room 303.
14.15-15.00	Opening of the festival and summer school Welcome speech: Member of the Management Board-Vice-Rector for Academic Affairs Yerkin Ongarbayev. Dean of the Faculty of Information Technology, Professor Shakhmaran Seilov. Director of the Department of International Cooperation Anastasia Karmelyuk. Deputy Dean for Scientific Work of the Faculty of Information Technology Ainur Zhumadillayeva. Project manager, Professor of the Department of Informatics of the Faculty of Information Technology Professor Meruyert Serik.	2 Satpayev str. Administrative building, room 303.

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

	Project Manager, Deputy Chairman of the Board - Vice-Rector for Strategic Development and Scientific Work of the VKU named after S. Amanzholov Rovnyakova Irina. Project manager, associate professor of SKU named after M. Auezov Omashova Gaukhar Shapaevna. Project trainer, Associate Professor of the Department of System Analysis and Management of L.N. L.N. Gumilyov, Ph.D. Sagnaeva Saule Kayrullievna.	
15.00-15.30	The work of an open lecture hall (lecturers from universities participating in the project, online).	2 Satpayev str. Administrative building, conference hall, room 208.
15.30-16.00	Tour of the atrium "Kultegin". Excursion to the University museum.	2 Satpayev str. Administrative building.
16.15-17.00	Exhibition of developments of scientific STEM objects.	11 Munaytpasov str., Educational and laboratory building No. 4.
17.00-17.30	Exhibition of developments of scientific STEM objects.	13 Munaitpasov str., Building No. 3.
17.30-19.30	Business dinner for festival participants.	
June 21 (online / offline)		
10.00-10.15	Gathering of festival participants at the entrance to the Educational and Administrative Building.	2 Satpayev str. Administrative building.
10.15-11.30	Excursion to the Monument "Bayterek".	Monument "Bayterek" NURZHOL Boulevard, 14.
11.30-13.00	Excursion to the International Exhibition Center "EXPO".	International Exhibition Center "EXPO", 53 Mangilik El Avenue.
13.00-14.00	Lunch break.	
14.00-16.00	Visit to the Museum and Memorial Complex. "ALZHIR".	Akmola region, Tselinogradsky district,

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

		Akmol, Linear str., building 2B.
16.00-17.00	Excursion to the National Museum of Kazakhstan.	Tauelsizdik Avenue, 54.
17.00-19.00	Dinner for festival participants.	
19.00-19.30	Passage to the educational and administrative building of the University.	2 Satpayev str. Administrative building.
	June 22	
	Continuation of the summer school	
10.00-11.30	"Adaptation of STEM teaching methods to better influence the planning and design of laboratory work" Balgyn Akhmetova, L.N.Gumilyov ENU, Beibitgul Dyrynbayeva International school of Nur-Nursultan	11 Pushkin Street Building No. 2 "Otyrar library" room 407. online
11.40-13.00	"STEM approach in teaching computer science on the example of "AR Augmented Reality". SKU named after M. Auezov, Zhaydakbayeva Lyazzat Kuandykovna, Yermakhan Nurdaulet.	11 Pushkin Street Building No. 2 "Otyrar library" room 407
14.00-15.30	"Robotics in STEM Education" Symbat Nurgaliyeva, L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
15.40-16.10	"STEM approach in teaching physics", SKU named after M. Auezov, Gauhar Omashova.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
16.20-17.00	"Robotics in STEM Education" Symbat Nurgaliyeva, L.N.Gumilyov ENU. Practical lesson	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
17.10-18.00	STEM education in universities of Kazakhstan. L.N.Gumilyov ENU, Serik Meruyert. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
	June 23	
10.00-11.30	"Methods for creating a private cloud" L.N.Gumilyov ENU, Sadvakassova Aigul, Aitmaganbetov Asset.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.

11.40-13.00	STEM training in the content of the laboratory complex "Desktop simulator IT-ALEM" Marzhan Kali, L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 412.
14.00-14.30	STEM training in the content of the laboratory complex "Desktop simulator IT-ALEM" Marzhan Kali, L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 412.
14.40-16.00	"Using the Case-study method in the preparation of competitive specialists", L.N.Gumilyov ENU Kintonova Aliya Zheksembaevna.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
16.10-17.00	The use of Case-study at the South Kazakhstan University named after M. Auezov, SKU named after. M. Auezova, Nyshanbaeva Zhanar. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
June 24		
10.00-11.30	STEM training in the content of the laboratory complex "Desktop simulator IT-ALEM" Marzhan Kali, L.N.Gumilyov ENU. Practical lesson.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
11.40-13.00	High-performance computing on the PARAM-BILIM University supercomputer and on the IBM QUANTUM quantum computer, ENU named after L.N. Gumilyov, Yerlanova Gulmira.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
14.00-15.30	"Visualization of computer neural network technologies and Stem elements" Gulmira Balgozhina, L.N.Gumilyov ENU. Practical lesson.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
15.40-16.10	"Visualization of computer neural network technologies and Stem elements" Gulmira Balgozhina, L.N.Gumilyov ENU. Master class.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
16.20-17.00	"Visualization of computer neural network technologies and Stem elements" Gulmira Balgozhina, L.N.Gumilyov ENU. Practical lesson.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

17.10-18.00	STEM education at the East Kazakhstan University named after S. Amanzholov, SKU im. M. Auezov. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
June 27		
10.00-11.30	"Integration of engineering practices in education". Gultekin Cakmakci - Professor of Natural Science Education, Hacettepe University, Turkey.	Online. https://us04web.zoom.us/j/76989843550?pwd=EXleP u0ijv85fpVQWpzFPUCE-cb hWg.1
11.40-13.00	"Software development for certification using machine learning algorithms". Nazarbayev Intellectual School, Nasipzhan Duisegalieva. Master-class.	11 Pushkin Street Building No. 2 "Otyrar library" room 407
14.00-15.30	"Software development for certification using machine learning algorithms". Nazarbayev Intellectual School, Nasipzhan Duisegalieva. Master-class.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
15.40-16.10	"Virtual reality in Education". L.N.Gumilyov ENU, Kalkabayeva Zukhra.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
16.20-17.00	"Virtual reality in Education". L.N.Gumilyov ENU, Kalkabayeva Zukhra.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
17.10-18.00	Virtual reality training at Yu. M. Auezov and VKU im.S. Amanzholov. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
June 28		
10.00-10.50	The use of STEM in the training of future specialists, L.N.Gumilyov ENU, Shyndalyev Nurzhan.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
11.00-11.50	Development of a digital lighting module on the Arduino Uno platform. University "Yesil", Khasenova Leyla Galimbekovna.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
12.00-12.50	3D printer, steps from modeling to prototyping. Master-class, L.N.Gumilyov ENU, Toleubekov Talant.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

14.00-16.00	"Smart House", Akerke Dildabek, L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 407. https://us04web.zoom.us/j/78275643817?pwd=hJwiMwK6A8kDaZqyKi3ZScz-kCNPZk.1
16.10-17.00	Elements of artificial intelligence in the universities of Kazakhstan. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
17.10-18.00	STEM elements in robotics: determination of soil moisture, YUKU im. M. Auezov, Agibaeva Karlygash	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
June 29		
10.00-11.30	"Blockchain technologies in education", L.N. Gumilyov ENU, Sakhipov Aivar.	Online.
11.40-13.00	Setting up and implementation of the parallel computing cluster. Karelkhan Nursaule L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
14.00-15.50	Data processing in STEM learning: theoretical aspects. Kh.Dosmukhamedov Atyrau University, PhD Mukhambetova Meiramgul.	Online. https://us04web.zoom.us/j/77437814418?pwd=J9MRtZPG9NJmDw2150Xe3aChi4sFJZ.1
16.00-16.50	Teaching distributed data technologies at L.N. Gumilyov, SKU im. M. Auezov and VKU them. S. Amanzholova. Discussion. Application of STEM in databases. Discussion.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
17.00-18.00	Teaching distributed data technologies at L.N. Gumilyov, Serik Meruyert.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
June 30		
10.00-11.30	"STEM elements and Big Data processing" Gulmira Nurbekova, L.N.Gumilyov ENU.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.

Co-funded by the
Erasmus+ Programme
of the European Union

EURASIAN
NATIONAL
UNIVERSITY

STEM

11.40-13.00	"Blockchain and the use of STEM elements" Yerzhan Zhalelov, L.N.Gumilyov ENU.	Online. https://us04web.zoom.us/j/74897989200?pwd=ilsBh-9tVqN7vnCX2NSwx3WpKzpuEl.1
14.00-14.50	Data processing in STEM learning: practical approaches. Kh.Dosmukhamedov Atyrau University, PhD Mukhambetova Meiramgul.	Online. https://us04web.zoom.us/j/76742070450?pwd=TUIMW96JBrE74fuCUG44CGYSJKrbV_.1
15.00-15.50	Machine learning. Mathematical foundations. Practical implementation. L.N.Gumilyov ENU. Serik Meruyert.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.
16.00-17.00	Closing ceremony of the summer school.	11 Pushkin Street Building No. 2 "Otyrar library" room 407.