



Memorandum
about the creation of a STEM network in partner universities of the Republic of Kazakhstan
within the framework of the project "Integrated approach to the training of teachers in the
STEM direction"

Astana

Non-Profit Limited Company «The L.N. Gumilyov Eurasian National University» represented by the Chairman of the Board-Rector Sydykov Yerlan Battashevich, acting on the basis of the Charter, on the one side, the **Non-Profit Limited Company «Sarsen Amanzholov East Kazakhstan University»** represented by the Chairman of the Board-Rector, Professor Tolegen Mukhtar Adilbekuly, acting on the basis of the Charter on the other side and the **Non-Profit Limited Company «Mukhtar Auezov South Kazakhstan University»**, represented by the Chairman of the Board-Rector Kozhamzharova Dariya Perneshovna, acting on the basis of the Charter, on the third side, hereinafter collectively referred to as the "Parties", have concluded this Memorandum of mutual cooperation in the implementation of the network form of the educational program using online courses (hereinafter also referred to as the "Memorandum") on the following:

1. Subject of the Memorandum

1. The subject of this Memorandum is the effective and constructive interaction of the Parties in the framework of the implementation of the network form of the educational program 7M01513 "Stem Education" using online courses.

2. The Parties jointly determined areas for further cooperation, the implementation of which will be carried out in the manner prescribed by the national legislation of the Parties and this Memorandum.

2. Purpose of the Memorandum

2. This Memorandum is concluded in order to unite the Parties in conducting joint public events, contests, scientific and technical camps, hackathons and festivals among young people in the framework of promoting STEM education, including online forms and the use of online courses.

3. Principles of cooperation

4. The following principles are intended to govern the relationship between the Parties. Each Party intends:

- 1) always act in good faith towards the other Party;
- 2) be available for communication with the other Party and carry it out openly and honestly;
- 3) work in a constructive and consistent manner;
- 4) accept obligations to maintain their own accounts and accept the accounts of the other Party.

4. Areas of joint activity

4. In accordance with the purpose of the Memorandum, the Parties intend to cooperate in the following areas:

4.1. Conducting joint events, contests, scientific and technical projects, hackathons and festivals among young people in order to introduce innovative solutions in the educational sphere.

4.2. Conducting an assessment of the work of STEM centers of the Parties, in which students and schoolchildren can perform research using modern digital equipment.

4.3. Designing a new educational experience for teaching teachers, teachers using equipment: digital sensors (Einstein), robotic devices (Lego, Arduino, MakeBlock, Raspberry pi, VEX, Qbit); CNC and laser machines, 3D printers and virtual laboratories.

4.4. Independently develop and approve educational programs in the areas of training specified in clause 1. of this Memorandum with online courses included in them.

4.4.1. Provide a list of a group of students who will master the online course no later than 5 days before the start date of training in online courses in accordance with the curriculum schedules. The list of a group of students is drawn up as an Appendix to this Memorandum.

4.4.2. Provide support for the training of a group of students in online courses in the following forms:

- coordination of curricula for the implemented educational programs specified in clause 4.3. of this Memorandum with the online courses included in them;

- approval of the Schedule for the development of online courses in the implementation of educational programs;

- conducting individual and group consultations;

- organizing and conducting activities of intermediate and final control of knowledge.

4.4.3 based on the results of the control of knowledge of students in online courses, send certificates of mastering online courses in electronic form and a summary sheet containing the final result of each student (differentiated assessment / passed / not passed).

4.4.4 A student who has received unsatisfactory results as a result of knowledge control in online courses may be given the opportunity to re-pass one form of knowledge control once within the terms of mastering the online course.

4.4.5 On the basis of the documents submitted in accordance with clause 4.4.3 of the Agreement, credit the results of mastering online courses by students within the framework of the Educational Program.

4.4.6 In case of successful completion of the Educational Program in full, including online courses, issue the student with a diploma depending on the Educational Program he has mastered.

4.4.7 As part of the implementation of the Educational Program on the basis of this Memorandum, only virtual academic mobility is carried out without the actual movement of students between universities.

5. Coordination of joint activities

5.1 In order to fulfill the provisions of this Memorandum, each of the Parties determines a responsible person whose competence includes the exchange of information on the implementation and results of activities in accordance with this Memorandum, and coordination of the actions of the Parties.

6. Privacy

6.1 When implementing this Memorandum, the Parties guarantee the confidentiality of information transmitted to each other and undertake not to disclose or transfer the information they receive to third parties.

7. Validity

7.1. This Memorandum comes into force from the date of its signing by the Parties and is valid for 3 (three) years and is automatically extended for subsequent three-year periods, unless either Party notifies the other Party of its intention to terminate the application of this Memorandum.

7.2. Either Party may terminate this Memorandum. In this case, the Memorandum is considered terminated after 15 calendar days from the date of sending the notice of termination.

8. Final provisions

8.1.. This Memorandum does not impose any financial obligations on the Parties, it is made in triplicate, having equal legal force, one copy for each of the Parties.

8.2. Changes and additions to the Memorandum are made by mutual agreement of the Parties in writing signed by authorized persons of the Parties and will be an integral part of this Memorandum.

8.3. Disputes and disagreements between the Parties on issues related to the scope of this memorandum will be resolved through negotiations between the Parties.

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