

Periodical Report
24 Months of project
implementation
15.05.-16.11.2020

New and Innovative Courses for Precision



PERIODICAL REPORT - S. SEIFULLIN KAZAKH AGROTECHNICAL UNIVERSITY

MSc/SARA KITAIBEKOVA

Joint Project: Capacity Building in
the Field of Higher Education
ERASMUS+ 2018

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



WP2 Development

It was updated 6 and developed 5 courses within 10 Educational Programs which had been accredited for 5 years by :

1. "Geodesy and Cartography";
2. "Agroecology";
3. "Soil Science and Agrochemistry";
4. "Precision farming";
5. "Animal feed and feeding";
6. "Applied Geodesy";
7. "Agroecology";
8. "Selection and reproduction of agricultural animals";
9. "Land management";
10. "Agroengineering"



WP2 Development

Updated courses:

1. «Physics and soils" – 5 ECTS - 60 % in relation to the preexisting course (MSc);
2. "Remote sensing of the Earth" – 5 ECTS - 40 % (BSc);
3. "Feed production with the basics of agronomy and botany"- 5 ECTS- 40% (BSc);
4. Precision farming basics – 5 ECTS- 40% (BSc);
5. Agrosoil science- 5 ECTS- 40% (BSc);
6. State control over the use and protection of land- 5 ECTS-50% (BSc)

$\Sigma(\text{Total number of updated courses}) = 6$

$\Sigma(\text{Total number of ECTS}) = 30$



WP2 Development

WP2 Development

New courses:

1. “Precision agriculture”- 4 ECTS- PhD;
- 2.”Precision Agriculture”- 4 ECTS- MSc;
3. “Innovative technologies for production of livestock products” – 10 ECTS- MSc;
4. Management and decision making in precision agriculture”- 5 ECTS- MSc;
5. Agroecosystems – a component of the biosphere”- 5 ECTS- MSc

$\Sigma(\text{Total number of new courses}) = 5$

$\Sigma(\text{Total number of ECTS}) = 30$



WP3 Quality control

1. Educational programs (10) were passed specialized internal initial accreditation(Ex-Ante) by IAAR (Independent Agency for Accreditation and Rating) registered on the European Quality Assurance Register in Higher Education (EQAR), Full member of the European Association for Quality Assurance in Higher Education (ENQA);
2. Educational programs are accredited in accordance with the current university regulations at the Academic Council of the University, Minute №15 from 30.05.2019 , №15 from 28.05.2020. Syllabuses and Educational methodological complex of disciplines were approved by the Deans of Technical and Agronomy Faculties;



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WP3 Quality Control



WP3 Quality Control



WP3 Quality Control



WP3 Quality Control



WP3 Quality control

3. Feedback and recommendations were received from 16 universities of the Republic of Kazakhstan and employers: Gorbunov B.N., associate Professor of “Technical Mechanics” Department of S. Seifullin KATU; Yegimbayeva A.E., the Head of “Physical and Economic Geography” Department of L.N. Guymilev Eurasian National University, Akhmetova N.Z., the Head of “Geodesy and cartography” of L.N. Guymilev Eurasian National University, Bayazitova K.N. , the Head of “Food Security” Department of M.Kozybayev North Kazakhstan University, Koitanova A.N., the Head of Students’ Department, Astana IT University; Sabelfeld V.K., Director of “AgromashHolding”; Kuranbayev A.A., the Head of “Ecological Biotechnology” of the National Biotechnological Center;



WP3 Quality control

Sauer I.A., General Director of AgroFirm “Rodina”, graduate of S. Seifullin KATU; Kovaleva L.F., LLP “Logos Grain”; Kazhgaliyev N.Zh., Kazakh “Akbas” Cattle Breeding Chamber Deputy Director; Toishibekov O., Deputy Director of “Remote Data” Department of JSC National Space Center “Garysh Sapary” ; Kabylkanov K.P., Director of LLP agricultural holding “Dulat”; Sabyrov M.M., Director of LLP “Zharkyn, Aiyrtau District of North Kazakhstan Region; Andreev V.I., Chairman of the Technical Committee 102 “Waste of production and consumption”; Zvyagin G.A., the Head of the Department of Survey, Monitoring of Lands and Laboratory Research of the NC JSC Branch of the state corporation "Government for Citizens", Nur-Sultan.



WP3 Quality Control

4. The study programs are approved in the following order: reviewed by the quality group of the EU Erasmus + NICOPA project; at a meeting of the department; at the Methodological Bureau of the Faculty; on August 26, 2020 it will be approved by the Scientific and Methodological Council of the University.
5. The accreditation process is carried out in accordance with ESG 2015 (Standards and Guidelines for Quality Assurance in the European Higher Education Area) 100%, because universities of Kazakhstan have been studying in the framework of the Bologna Process since March 2010.



WP3 Quality Control

Quality indicators which have been chosen for the peer review template:

- Thematic content of studying program;
- Learning outcomes'
- Access to adequate learning resources;
- Interdisciplinary modern teaching materials;
- Equipment and facilities for conducting practical works;
- Societal impact and regional development work

WP4 Dissemination

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



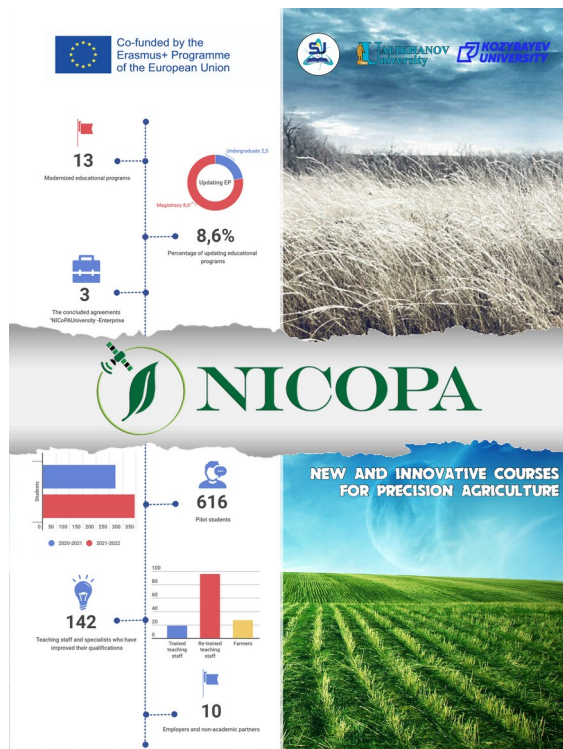

DISSEMINATION

| No | Activities | Deadline |
|----|--|------------------------------|
| 1 | Development of information booklets, brochures, posters, newsletters, roll-ups | May-December, 2019/completed |
| 2 | Regional Seminar "Strategy curriculum design based on European good practice and Bologna principles" | May 2019/ completed |
| 3 | Training "GIS, Precision Agriculture, Remote sensing» at Berlin Technical University | August 2019/ completed |
| 4 | Information Day Erasmus Days "Erasmus for All" | October 2019/ completed |
| 5 | Dissemination of information after training in Berlin | October 2019/ completed |
| 6 | Participation at the International Conference "A new social dimension in mission and higher education" L.N. Guymilev ENU | October 2019/completed |
| 7 | Re-training for faculty members after training in Berlin | December 2019/completed |
| 8 | Zoom, Skype conference with partner universities of Turkmenistan, Uzbekistan, Kazakhstan, EU | February 2020/completed |




7zoom.ru

WP4 Dissemination



WP4 Dissemination (on –line consultations for farmers “Extension-KATU”

NASEC

ОНЛАЙН СЕМИНАР ДЛЯ ФЕРМЕРОВ



| Применение ГИС-технологий и дистанционного зондирования Земли в агропромышленном комплексе | | |
|--|---|---|
| Время | Тема | Лектор |
| 17:00 - 17:30 | Применение ГИС-технологий и данных ДЗЗ в АПК. | Ермеков Фараби Керимбаевич – декан факультета Управления земельными ресурсами, архитектуры и дизайна НАО «КАТУ им. С.Сейфуллина». |
| 17:30 - 18:00 | ГИС-технологий и точное сельское хозяйство. Применение космических снимков для мониторинга роста и развития посевов | Макренова Шолпан Кайыржановна – магистр географических наук, заведующий НОЦ ГИС-технологий НАО «КАТУ им. С.Сейфуллина». |

Дата - 13 мая 2020 года,

Ссылка для входа:

<https://global.gotomeeting.com/join/210772697>

Начало семинара - 17:00 ч.



Контакты: abstakal@mail.ru
Талгат Абсаттар : +7 775 000 5773
Динара Набиева: +7 701 299 7799



NASEC

ОНЛАЙН СЕМИНАР ДЛЯ ФЕРМЕРОВ



| Внедрение элементов цифровых технологий в молочном скотоводстве | | |
|---|---|--|
| Время | Тема | Лектор |
| 11:00 - 11:20 | Искусственное осеменение и использование системы «Smacthes» в скотоводстве | Джакупов Истагат Туусупович – доктор ветеринарных наук, профессор НАО «КАТУ им. С.Сейфуллина». |
| 11:20 - 11:40 | «Smacthes» – как возможный инструмент в профилактике заразных и незаразных болезней КРС | Бейсембаев Канатжан Каиргельдинович – доктор PhD, ассоциированный профессор НАО «КАТУ им. С.Сейфуллина». |
| 11:40 - 12:00 | Вопросы, обсуждение | |

Дата - 19 мая 2020 года,

Ссылка для входа:

<https://global.gotomeeting.com/join/160866005>

Начало семинара - 11:00 ч.



Контакты: abstakal@mail.ru
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Динара Набиева: +7 701 299 7799



NASEC

ОНЛАЙН - СЕМИНАР ДЛЯ ФЕРМЕРОВ



| Применение инновационных технологий на молочных фермах | | |
|--|--|---|
| Время | Тема | Лектор |
| 11:00 - 11:30 | Направленное выращивание телок молочного направления | Бостанова Сауле Куанышпекенова – к.с.х.н., ассоциированный профессор НАО «КАТУ им. С.Сейфуллина». |
| 11:30 - 12:00 | Система идентификации и удаленного контроля живой массы молодняка молочного направления продуктивности | Мирманов Арман Барлыкович – ассоциированный профессор НАО «КАТУ им. С.Сейфуллина». |

в рамках ПЦФ МСХ РК на тему «Трансферт и адаптация инновационных технологий для оптимизации производственных процессов на молочных фермах Северного Казахстана»

Дата – 22 июля 2020 года

Ссылка для входа:

<https://global.gotomeeting.com/join/826929357>

Начало семинара - 11:00 ч.



Контакты: abstakal@mail.ru
Талгат Абсаттар : +7 775 000 5773
Динара Набиева: +7 701 299 7799



ОНЛАЙН - СЕМИНАР ДЛЯ ФЕРМЕРОВ



| Эффективные системы управления молочным стадом | | |
|--|---|---|
| Время | Тема | Лектор |
| 11:00 - 11:30 | Применение цифровых технологий в управлении молочным стадом | Шайкенова Кымбат Хамитовна – к.с.х.н., доцент НАО «КАТУ им. С.Сейфуллина». |
| 11:30 - 12:00 | Программный продукт «Управление стадом» | Третьяков Игорь Игоревич – руководитель подгруппы информационных технологий, НАО «КАТУ им. С.Сейфуллина». |

в рамках ПЦФ МСХ РК на тему «Трансферт и адаптация инновационных технологий для оптимизации производственных процессов на молочных фермах Северного Казахстана»

Дата – 29 июля 2020 года

Ссылка для входа:

<https://global.gotomeeting.com/join/426844197>

Начало семинара - 11:00 ч.



Контакты: abstakal@mail.ru
Талгат Абсаттар : +7 775 000 5773
Динара Набиева: +7 701 299 7799



SÁKEN SEIFÝLLIN
UNIVERSITETI



15.10.2020 Global Event Erasmus Days “Key to success through experience”, on-line round table



ONLINE ROUND TABLE “THE KEY TO SUCCESS THROUGH EXPERIENCE”

Date: October 15, 2020

Venue: Zoom platform, identifier 507 576 5938 ,access code 532462375

Time: 17:00

Organizer: International Cooperation&Multilingual Education Development Center (IC&MEDC), S. Seifullin Kazakh Agrotechnical University

Aim: familiarization with the best practices for the implementation of EU Erasmus + projects, as part of the global event Erasmus Days

Participants: project coordinators, heads of the departments, deans of the faculties, lecturers and students

AGENDA:

1. Participation of S. Seifullin KATU in EU Erasmus + program "Capacity building in higher education"

Kitaibekova S.O., the Head of International Cooperation Department, Institutional Erasmus+ coordinator at S. Seifullin KATU

3. Erasmus+: opportunity of cooperation between HEIs of Europe and Kazakhstan

Gabriele Comodi, Prof. of Energy System, Coordinator of ASLAXIS project, Marche Polytechnic University, Italy,

4. Development of new and innovative courses in precision agriculture

Satybaldiyeva G.K., the Head of "Ecology" Department, academic manager of NICOPA project

Kitaibekova S.O., the Head of international Cooperation Department, manager of NICOPA project, S. Seifullin KATU

5. Disseminating information about literacy knowledge through the DIREKT Online Platform

Orazymbetova Zh.A., the Head of scientific and information resources Department, developer of DIREKT project, S. Seifullin KATU

Meiramova S.A., Director of IC&MEDC

6. Methodological approaches to the development of modules of third-level educational programs at the universities of Kazakhstan and Russia within SAGRIS project

Ismailova A.S., Associate Professor of "Accounting and Audit Department, local coordinator of SAGRIS project, S. Seifullin KATU

7. The significance of the PAWER project results in the development of students' academic mobility

Battelenova A.A., Associate Professor of Agriculture and Crop Production Department, local coordinator of PAWER project, S. Seifullin KATU

8. Development of modules for the development of green skills in the framework of the SUSDEV project



20-21.10.2020 Fair of CBHE projects organized by EACEA, NEO in Kazakhstan, Ministry of Education and Science of the Republic of Kazakhstan



Действие объявлено: 17.10.2020

Международный онлайн-форум
«Глобализация в регионах»: Казахстан в Болонском процессе и проектах ЕС»
20-21 октября 2020
Орлы, ALMT (UTC+4)

Проект программы микроплат

День: 1, 20 октября 2020 г.

| | |
|---------------|--------------|
| 14:30 - 16:00 | ALMT (UTC+4) |
| 16:30 - 14:00 | SEST (UTC+3) |

(координатор – Вице-министр МОН РК – М.М. Дулмаев)

| | |
|---------------|---|
| 14:00 - 14:30 | Тестирование платформы |
| 14:30 - 14:35 | Приветственное слово Министра образования и науки РК - А.С. Алымжанов |
| 14:35 - 14:40 | Приветственное слово Главы Представительства Европейского Союза в Казахстане - Сием Олоу Карлссон |
| 14:40 - 14:45 | Приветственное слово Русоудателя департамента образования Совета Европы - Коринн Шир |
| 14:45 - 14:48 | Приветственное слово представителя Европейской Комиссии - Адрян Вуале |
| 14:48 - 14:51 | Приветственное слово Заместителя председателя Наблюдательной группы Болонского процесса (ВГБП) - Сан Карлос Алонсо |
| 14:51 - 14:54 | Приветственное слово Директора ЕОДМ - Котлин Тек |
| 14:54 - 14:57 | Приветственное слово Генерального секретаря Обсерватории Восточной Азии университетов - Дэвид Лью |
| 14:57 - 15:01 | Приветственное слово Министра образования и науки Кыргызстана - Республика - К.А. Жапаров |
| 15:01 - 15:05 | Приветственное слово Вице-министра высшего и среднего специального образования Республики Узбекистан - Ш.А. Исламов |
| 15:05 - 15:25 | Казахстан 10 лет в Болонском процессе - А.С. Алымжанов |

Глобализация в регионах: Казахстан в Болонском процессе и проектах ЕС





11.09.2020 S. Seifullin Kazakh Agrotechnical University (KATU) the team of NICOPA project jointly with the Asian Development Bank (ADB), organized an online seminar on the topic “Drone and Remote Sensing Technologies for water productivity in agriculture”.

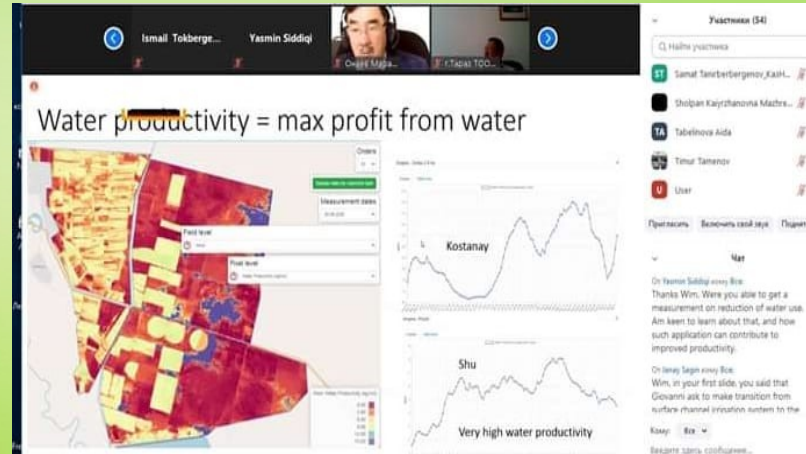
IrriWatch, an operational irrigation scheduling system for all farmers in Kazakhstan Presented by ADB

Dr. Wim Bastiaanssen
ADB Consultant



Giovanni Capannella

→



Water productivity = max profit from water

Kostanay

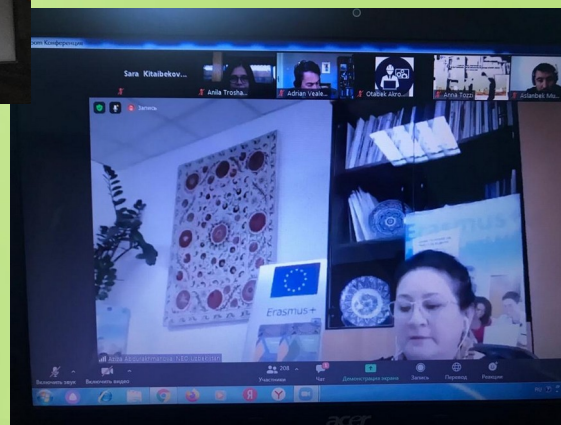
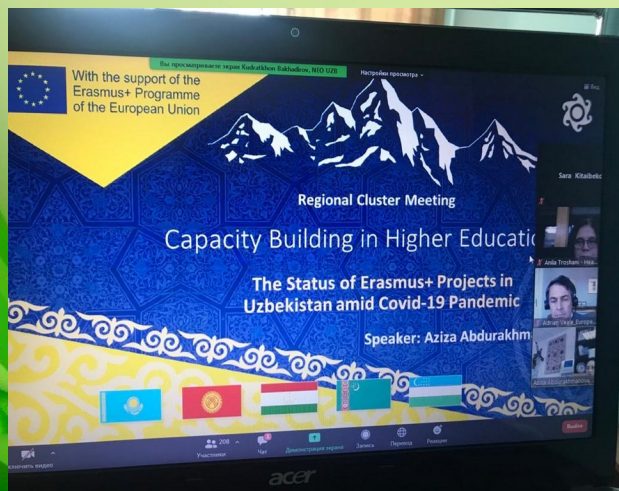
Stu

Very high water productivity

Chat messages:

- On Yasmin Siddiqi every five: Thanks Wim. Were you able to get a measurement on reduction of water use. Am keen to learn about that, and how such application can contribute to improved productivity.
- On Ismay Sagun every five: Wim, in your first slide, you said that Giovanni ask to make transition from surface rchanal irrigation system to the

19-20.11.2020 the Education Audiovisual and Culture Executive Agency (EACEA) of the European Commission organized an online Regional Cluster Meeting on CBHE Projects Impact in Central Asia. 5 members of EU Erasmus+ NICOPA project took part at cluster Meeting on-line.





• 13.01.2021 Local conference within EU Erasmus+ NICOPA project “Transfer and adaptation of precision agriculture technologies in the production of crop production”



АНАЛИЗ ПО ГОДАМ
PSSRo моделі №2 и №3 второго этапа за 2018, 2019 и 2020 год (коса, сенокоса)

| № | Год | Урожайность, т/га |
|---|------|-------------------|
| 1 | 2018 | 22,2/21,5 |
| 2 | 2019 | 9,5 |
| 3 | 2020 | 13,29 |

Для расчета урожайности стресс, был не только по времени, но и по площади. В 2018 году площадь стресса 1 млн с косой и сенокосом. В 2019 году площадь стресса, уменьшилась в 2 раза. В 2020 году площадь стресса, увеличилась по сравнению с 2019 годом, но по сравнению с 2018 годом, она уменьшилась в 2 раза. В 2020 году площадь стресса, увеличилась по сравнению с 2019 годом, но по сравнению с 2018 годом, она уменьшилась в 2 раза.

New and Innovative Courses for Precision Agriculture

Новые и инновационные курсы по точному сельскому хозяйству (NICOPA)

ЛОКАЛЬНАЯ НАУЧНО-МЕТОДИЧЕСКАЯ КОНФЕРЕНЦИЯ «Трансферт и адаптация технологий точного сельского хозяйства при производстве продукции растениеводства»

Local coordinator: ISMAIL TOKBERGENOV

СОЗДАНИЕ ЭЛЕКТРОННЫХ ГРАНИЦ ПОЛЕЙ

The slide displays three images: a person using a surveying instrument in a field, a drone flying over a field, and a computer screen showing a map with field boundaries.

13-22.01.2021 Master classes conducted by EU HEIs: TUB, EXOLAUNCH, CULS, AUP

current position

Zoom Meeting

Czech University of Life Sciences Prague

The idea of yield mapping was born in the US in the 1980s.

The GPS positioning system, developed by the US Army, started to be available also for civilian applications.

Someone thought that combining information about the machine's current position and immediate yield would result a yield map.

Yield mapping systems first appeared in combine harvesters because of two main reasons:

1. Combine harvester is an expensive machine, and the yield mapping system increases its price relatively little
2. Cleaned grain is very uniform material, which is very advantageous for the work of yield sensors

What are soft skills?

TEMPUS

Press release

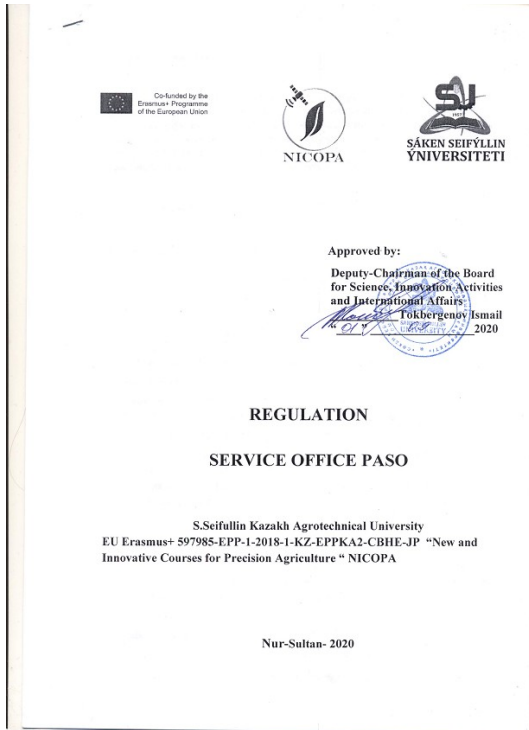
From the period of January 13 till 22, 2021 it was organized On-line Master Classes for EU Erasmus+ TEMPUS project members of 24 universities, 11 disciplines and 3 professional fields. These classes were supported by EU partners: the Czech National University, ERDF, MŠMT (Ministry, Agricultural University in Přelouč (Přelouč), Czech University of Life Sciences in Brno (Brno), and the Ministry of Education, Youth and Sports of the Czech Republic.

It was given Master Classes with the following topics by Prof. Dr. Štěpán Antonín (Brno): "Modern Development of Modern Agriculture and Food", "The First Czech Republic (Czech Republic) "Old System for Precision Agriculture" and "New Vision (Brno)", "Smart Irrigation: Intelligent Irrigation System (CULS)", "CULS", and "The New Erasmus (Czech) "Soft Skills for Engineers". Dr. Jitka Škudlová (Czech Republic) gave three classes: "Application and Planning Principles of Precision Irrigation".

All materials will be used by the members of TEMPUS project in their classes.

Manager of the project: Jana Křehlová

Office PASO



Office PASO





NICOPA+ AGREEMENTS



СОГЛАШЕНИЕ NICOPA University-Enterprise

Соглашение "NICOPAUniversity-Enterprise"

"Новые и инновационные программы по точному сельскому хозяйству"

Стороны Соглашения

Настоящее Соглашение заключено между Университетом "Нур-Султан" (далее - университет) и инновационным предприятием "Enterprise" с одной стороны.

ИАО "Казахский агроинженерный университет им. С. Сейфуллина, проспект Железа, 62, г. Нур-Султан, 010011, Казахстан
(указать название и адрес университета)

и неакадемической организации

ТОО "Исследовательский центр аграрных исследований им. А.Н. Букилкина" Аламолинский район, г. Шумное, ул. Байана, 1, Казахстан
(указать наименование и адрес организации)

и/или инновационное предприятие "Enterprise", являющееся членом группы компаний "NICOPA", осуществляющее и развитие результатов проекта ЕС Erasmus+ ERFP-2018-1-KZ-ERPFKA2-CBHE-JP. New and innovative courses for precision agriculture" as well as creating opportunities for employment of students of University on the basis of the cooperation between University and Partner within the framework of this Agreement.

Предмет Соглашения и цели

Стороны решили объединить свои усилия с целью внедрения, распространения и развития результатов проекта "NICOPA" в частности, в сфере совершенствования подготовки студентов, повышения квалификации преподавателей и проведения совместных мероприятий, технологических, научных и др. работ.

С одной стороны настоящего Соглашения договорятся в следующих областях:

1. University.

1. University.

Cooperation Agreement "NICOPAUniversity-Enterprise"

Cooperation Agreement "NICOPAUniversity-Enterprise"

"New and Innovative Courses for Precision Agriculture"

Parties to the Agreement

This is cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand

NC JSC "S. Seifullin Kazakh Agricultural University", 62, Zhelta Avenue, Nur-Sultan, 010011, Kazakhstan
(name and address of university)

and a non-academic organization

LLP "A.I. Burygin Research and Production Center of Grain Economy" Burygin Str. 1, Nachny settlement, Shortandy district, Almaty region, Kazakhstan
(name and address of non-academic organization)

hereinafter referred to as "Partner", aiming implementation, dissemination and development of the results of EU Erasmus+ NICOPA ERFP-2018-1-KZ-ERPFKA2-CBHE-JP. New and innovative courses for precision agriculture" as well as creating opportunities for employment of students of University on the basis of the cooperation between University and Partner within the framework of this Agreement.

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СОГЛАШЕНИЕ NICOPA University-Enterprise

Соглашение "NICOPAUniversity-Enterprise"

"Новые и инновационные программы по точному сельскому хозяйству"

Стороны Соглашения

Настоящее Соглашение заключено между Университетом "Нур-Султан" (далее - университет) и инновационным предприятием "Enterprise" с одной стороны.

ИАО "Казахский агроинженерный университет им. С. Сейфуллина, проспект Железа, 62, г. Нур-Султан, 010011, Казахстан
(указать название и адрес университета)

и неакадемической организации

ТОО "Казахский научно-исследовательский институт лесного хозяйства" Алматы город, ул. Буржуйкина, 102/170А, г. Чулымск, ул. Корова, 88 (указать наименование и адрес организации)

и/или инновационное предприятие "Enterprise", являющееся членом группы компаний "NICOPA", осуществляющее и развитие результатов проекта ЕС Erasmus+ ERFP-2018-1-KZ-ERPFKA2-CBHE-JP. New and innovative courses for precision agriculture" as well as creating opportunities for employment of students of University on the basis of the cooperation between University and Partner within the framework of this Agreement.

Предмет Соглашения и цели

Стороны решили объединить свои усилия с целью внедрения, распространения и развития результатов проекта "NICOPA" в частности, в сфере совершенствования подготовки студентов, повышения квалификации преподавателей и проведения совместных мероприятий, технологических, научных и др. работ.

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Cooperation Agreement "NICOPAUniversity-Enterprise"

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"New and Innovative Courses for Precision Agriculture"

Parties to the Agreement

This is cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand

NC JSC "S. Seifullin Kazakh Agricultural University", 62, Zhelta Avenue, Nur-Sultan, 010011, Kazakhstan
(name and address of university)

and a non-academic organization

LLP "A.N. Buielkin Kazakh Research Institute of Forestry and Agroforestry" 102/170A, Chulumy str., Korova St. Almaty region, 021704, Kazakhstan
(name and address of non-academic organization)

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и неакадемической организации

ТОО "Северо-Казахстанская сельскохозяйственная опытная станция" Северо-Казахстанская область, Аксайский р.с. Чапык, ул. Центральная, 19, Казахстан
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and a non-academic organization

LLP "North Kazakhstan Agricultral and Agricultural Experiment Station" North-Kazakhstan region, Akkainy district, Chagy settlement, Central Str. 19, Kazakhstan
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и неакадемической организации

ТОО "Исследовательский центр аграрных исследований им. А.Н. Букилкина" Аламолинский район, г. Шумное, ул. Байана, 1, Казахстан
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and a non-academic organization

LLP "Nadobay-Akoyev Kazakh village study and scientific organization" Nadobay-Akoyev village, Shymkent district, Akoyev village, name and address of non-academic organization)

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Thank you for you attention!



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