

Periodical Report  
6 Months of project  
implementation

## New and Innovative Courses for Precision Agriculture



**Sh. Ualikhanov Kokshetau State University,  
S. Sadvakassov Agrarian-Economic Institute**

Local coordinator, Anargul Belgibayeva

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

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



# Work plan



Approve  
 Rector of Shokan Ualikhanov  
 Kokshetau State University  
 M.K.Syrlybaev

15.11.2018

**Project implementation plan**  
**597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP**  
**«New and Innovative Courses for Precision Agriculture (NICOPA)»**  
**Sh.Ualikhanov KSU**

Ref.nr/ Sub-ref nr	Activities Title	Start	End	Responsible
1.1 Prep.	Review of the current curricula for BA/MSc in target area in PC HEIs.	15.11.2018	30.04.2019	A.Belgibayeva, M.Auzhanova, N.Kakabayev
1.2 Prep.	Agreement on instructional strategy and guidelines for BA/MSc curricula design including the use of new Educational Technologies	15.11.2018	31.03.2019	M.Syrlybaev, A.Kakabayev, A.Belgibayeva
2.1 Prep.	a) Prepare a set of new core curricula and transferable modules inclusive innovative teaching/ learning facilities; develop syllabi; b) adopt on institutional level c) accredit on national level	a)01.12.2018 b)01.10.2019 c)01.10.2020	a) 30.03.2020 b) 30.09.2020 c) 31.08.2021	a) A.Belgibayeva, M.Auzhanova, N.Kakabayev b),c) M.Syrlybaev, A.Kakabayev, A.Belgibayeva, M.Auzhanova, N.Kakabayev

	evaluation/reports according to Q Plan			N.Kakabayev
4.1 Diss.	Project DISS& EXP /communication plan using a Set of Promotional Materials; Dissemination Events, Joint WEB based platform, "NICOPA+" Agreement	15.11.2018	14.11.2021	A.Belgibayeva M.Auzhanova, N.Kakabayev, A.Burkitbai
4.2 Diss.	Full media coverage of the project activities inclusive developing and maintenance of Joint WEB based platform	15.11.2018	14.11.2021	A.Belgibayeva M.Auzhanova, N.Kakabayev, A.Burkitbai
4.3 Diss.	Develop a set documentation on PASO with stakeholders support /purchase /install equipment /establish	01.02.2019	30.04.2020	A.Kakabayev
4.4 Diss.	Staff training for PASO, establishing Regional /International PASO network, pilot operation	01.04.2020	30.09.2021	M.Auzhanova, N.Kakabayev, A.Belgibayeva
4.5 Diss.	Refresh training courses for graduates in PASO	01.10.2020	31.08.2021	M.Auzhanova, N.Kakabayev, A.Belgibayeva
4.6. Diss.	International BA/ MSc Summer Schools 1-st.09-10.2020 2-nd.04 08.2021	01.04.2020	31.08.2021	A.Belgibayeva N.Kakabayev
5.1. Manag.	Management of the project including Project management online, daily project administration and coordination	15.11.2018	14.11.2021	A.Belgibayeva N.Kakabayev
5.2. Manag.	Coordination meetings	15.11.2018	14.11.2021	A.Belgibayeva N.Kakabayev

The local coordinator of the project

*Handwritten signature*

Belgibayeva A.S.



# Work group

“Approve”  
 Rector of Shokan Ualikhanov  
 Kokshetau State University  
 M. Syrlybaev  
 «20» 09 2018



Job responsibilities of the project working group members  
 S97985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP  
 «New and Innovative Courses for Precision Agriculture (NICoPA)»  
 Sh. Ualikhanov Kokshetau State University (KokSU)

No	Full name	The position in the project	Official duties
1	Marat Syrlybaev	Head of the project, manager, Rector	Responsible for the coordination and implementation of the project NICoPA in Sh. Ualikhanov KokSU
2	Anargul Belgibayeva	Local coordinator, teacher of the project	Internal communication on the implementation of the project at the University. Periodic presentation of training reports and presentations on project implementation, as well as participation in coordination meetings and Skype coordination meetings. Development of recommendations for the modernization of training modules. Analysis and processing of questionnaires.
3	Anuarbek Kakabayev	Administrative coordinator, teacher of the project	External communication with project management and other consortium organizations. Periodic financial reporting, as well as participation in coordination meetings and Skype coordination meetings, purchase of equipment. Responsibility for dissemination & exploitation of the project results.
4	Maria Auzhanova	Teacher of the project	Analysis, updating and development of training modules at the University; organization and conduct of master classes; implementation of the project results at the University, testing at industrial enterprises and educational institutions of Akmola region; preparation of questionnaires for students, undergraduates, graduates and employers.

5	Nurbol Kakabayev	Teacher of the project	Analysis, updating and development of training modules at the University; organization and conduct of master classes; media presentations; preparation of publications on the project and handouts, information stands.
6	Aislu Burkitbay	Master's student	Explanatory work on the goals and objectives of the project for students and undergraduates; evaluation of the quality of mastering the studied material. Responsibility for dissemination & exploitation of the project results.
7	Sayakhat Bekbulatov	The regional representative of the company "Bayer Kaz"	Practical testing of the results of the project, a qualitative assessment of the educational-methodical documentation on the relevance, novelty and practical significance. Responsibility for dissemination & exploitation of the project results.

Rector's Advisor on  
 International Projects Management



Anuarbek Kakabayev



# Work group

No	Name, Surname, email	Position	Responsibility (WP, tasks according to the work plan)
1	Marat Syrlybaev	Head of the project	Quality
2	Anargul Belgibayeva	Local coordinator	Manag. Quality
3	Anuar Kakabayev	administrative coordinator	Manag
4	Maria Auzhanova	teacher of the project	Prep, Dev.
5	Nurbol Kakabayev	teacher of the project	Prep, Dev.
6	Aislu Burkitbay	1st year master's student	Diss.
7	Sayakhat Bekbulatov	the regional representative of the company "Bayer Kaz", 3st year PhD student	Diss.



# Courses to update

Name of the course to be upgraded	Person/teacher/department/faculty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
Agrolandscape farming system	Maria Auzhanova, Department of "Plant Growing and Soil, S. Sadvakassov Agrarian- Economic Institute	Content of the discipline	2022
Theoretical foundations of land management	Maria Auzhanova, Department of "Plant Growing and Soil, S. Sadvakassov Agrarian- Economic Institute	The content of the discipline, teaching methods	2022
Information technology in the engineering service.	Nurbol Kakabayev, Department of Animal Husbandry Mechanization, S. Sadvakassov Agrarian- Economic Institute	The content of the discipline, teaching methods	2021
Basics of precision agriculture	Maria Auzhanova, Department of "Plant Growing and Soil, S. Sadvakassov Agrarian- Economic Institute	Content of the discipline, literature used	2020
IT technology and operation of agricultural machinery	Nurbol Kakabayev, Department of Animal Husbandry Mechanization, S. Sadvakassov Agrarian- Economic Institute	Content of practical and laboratory classes, teaching methods	2021



# Criteria for teacher selection for trainings

№ п/п	Criteria for selecting teachers in KSU to participate in trainings at EU universities:
1	-Experience in the development of modular educational programs, curricula, teaching materials and syllabuses in special disciplines (in the field of Precision Agriculture is welcome!);
2	- Knowledge of English at the level of "upper-intermediate level" or "B2", according to the EU classification;
3	- The desire to learn and gain new knowledge and competence in the field of Precision Agriculture in order to implement them in the educational process of the University through the modernization or development of new educational programs and training modules;
4	- Availability of appropriate basic education in the field of Precision Agriculture;
5	- Availability of scientific publications, manuals and other publications relevant to the subject of the training.



## Teacher that will develop new courses

<b>№ п/п</b>	<b>Teacher</b>	<b>Project role</b>
1	Maria Auzhanova, Department of "Plant Growing and Soil, S. Sadvakassov Agrarian-Economic Institute	teacher of the project (developer of disciplines:)
2	Nurbol Kakabayev, Department of Animal Husbandry Mechanization, S. Sadvakassov Agrarian- Economic Institute	teacher of the project (developer of disciplines:)
3	Sayakhat Bekbulatov - PhD student	developer of disciplines



# Equipment & Software

<b>Equipment/Software</b>	<b>Name of the person(s) responsible for the equipment/software installation</b>	<b>Occupation of the responsible persons</b>	<b>Contact information of the responsible persons</b>
Equipment	Anuar Kakabayev	administrative coordinator	<a href="mailto:anuarka@mail.ru">anuarka@mail.ru</a>





# Dissemination plan

«Утверждаю»  
И.о. ректора  
КГУ им.Ш.Уалиханова

Жаркинбеков Т.Н.  
20 19 г.



**План распространения  
результатов проекта Европейской программы Erasmus +  
597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP  
«New and Innovative Courses for Precision Agriculture» (NICOPA)  
в КГУ им.Ш.Уалиханова**

№ п/п	Мероприятия по распространению	Сроки реализации
1	Публикация статьи в Сборнике трудов Международной научно-практической конференции «Уалихановские чтения»	Апрель 2019 г.
2	Участие в выставке «День Поля», п. Чаглинка, НемАЦ	Июль 2019 г.
3	Методический семинар для преподавателей по итогам обучающего тренинга в Германии	Сентябрь-октябрь 2019 г.
4	Публикация статьи в сборнике материалов конференции, посвященной 40-летию Аграрно-экономического института им.С.Садвакасова	Ноябрь 2019 г.
5	Публикация о проекте в средствах массовой информации	В течение года
6	Размещение информации о ходе реализации проекта на сайте университета, в социальных сетях	В течение года
7	Проведение встреч, круглых столов для студентов, преподавателей и административного персонала университета	В течение года

Локальный координатор проекта

Бельгибаева А.С.



# Schedule of dissemination events

№	Dissemination activities	Term of realization
1	Publication of the article in the Proceedings of the International scientific and practical conference "Valikhanov readings" on "Sowing machine for precision agriculture» <a href="http://www.kgu.kz/sites/default/files/Documents/nauka/konf/Shoqan%20oqulary%2019/5%20Tom_23.pdf">http://www.kgu.kz/sites/default/files/Documents/nauka/konf/Shoqan%20oqulary%2019/5%20Tom_23.pdf</a>	April 2019
2	Participation in the exhibition "field Day", p. Chaglinka, NemAc	July 2019
3	Methodical seminar for teachers on the results of training in Germany	September-October 2019
4	Publication of the article in the proceedings of the conference dedicated to the 40th anniversary of the S. Sadvakasova Agrarian and economic Institute.	November 2019
5	Publications about the project in mass media	During the year
6	Placement of information on the implementation of the project on the University website, in social networks	During the year
7	Meetings, round tables for students, teachers and administrative staff of the University	During the year



# Non-consortium organizations

№	Non-academic partners	Location
1	State institution "Department of agriculture»	Kokshetau
2	LLP «Navistar Asia»	Kokshetau
3	NemAc	v.Chaglinka of Akmola region
<b>Potential employer</b>		
1	State institution "Department of agriculture»	Kokshetau
2	LLP «Navistar Asia»	Kokshetau
3	LLP "Eurasia Group Kazakhstan»	Kokshetau



# Implemented dissemination activities

Information about the project is available on the University website  
<http://www.kgu.kz/nicopa>

The screenshot shows a web browser window displaying the NICoPA website. The browser's address bar shows the URL [www.kgu.kz/nicopa](http://www.kgu.kz/nicopa). The website header includes the university logo and name in three languages: "U ALIKHANOV University", "Ш.УӘЛИХАНОВ АТЫНДАҒЫ КӨКШЕТАУ МЕМЛЕКЕТТІК УНИВЕРСИТЕТІ", and "SH. UALIKHANOV KOKSHETAU STATE UNIVERSITY". A navigation menu below the header lists: "УНИВЕРСИТЕТ", "АБИТУРИЕНТУ", "ОБРАЗОВАНИЕ", "НАУКА", "ERASMUS+", and "СТУДЕНЧЕСКАЯ ЖИЗНЬ". The main content area features a banner for the Erasmus+ program, including the European Union flag and the text "Co-funded by the Erasmus+ Programme of the European Union". To the right of this banner is the NICoPA logo. Below the banner, there is a table with project details:

проект NICoPA	
Регистрационный номер	597985-EPP-1-2018-1-KZ-EPPKA2-SBHE-JP
Название Заявки	НОВЫЕ И ИННОВАЦИОННЫЕ КУРСЫ ПО ТОЧНОМУ ЗЕМЛЕДЕЛИЮ

On the right side of the page, there is a vertical list of Erasmus+ activities: ERASMUS PLUS 2016 LMPI, SA&RuD, Academica, PAWER, and EduEnvi. The browser's taskbar at the bottom shows the system clock as 14:36 on 12.07.2019.



# Questionnaire for students

STUDENT QUESTIONNAIRE / draft

Indicative Questions to determine the level of awareness about the NICOPA project among students and teachers of PC universities

Ориентировочные вопросы для выяснения уровня осведомленности о проекте NICOPA студентов (и также аспирантов, преподавателей) целевых университетов *наметросты*

№	Вопросы анкеты The questionnaire
1	Do you know about the ERASMUS+ program? Знаете ли Вы о программе ERASMUS+? <i>Да</i>
2	Do you know about the project NICOPA? If you know anything about it, please inform us from whom or how have you found out this information? Знаете ли вы о проекте NICOPA, если знаете, то сообщите от кого или как вы узнали эту информацию. <i>Знаем, о проекте информировали преподаватели</i>
3	Evaluate the necessity of the educational process modernization Оцените необходимость модернизации учебного процесса 1 – no Need нет необходимости 2 3 4 5 – highneed высокая необходимость <input checked="" type="checkbox"/>
4	Do you think that teaching of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным уровень преподавания специальных дисциплин? <i>не удов.</i>
5	Do you think that the amount of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным объем специальных дисциплин? <i>достаточно</i>
6	Do you think that the content of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным содержание специальных дисциплин? <i>в целом, да</i>
7	Do you think that proportion between theoretical (i.e. lectures) workload and practical (i.e. seminars, laboratorial practice, self-study) workload of special disciplines is at a satisfactory

STUDENT QUESTIONNAIRE / draft

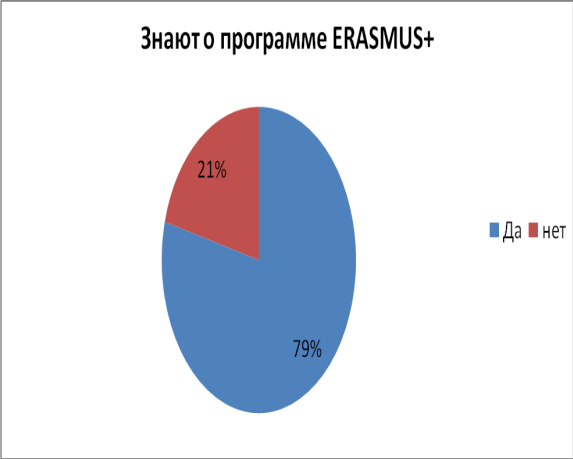
Indicative Questions to determine the level of awareness about the NICOPA project among students and teachers of PC universities

Ориентировочные вопросы для выяснения уровня осведомленности о проекте NICOPA студентов (и также аспирантов, преподавателей) целевых университетов

№	Вопросы анкеты The questionnaire
1	Do you know about the ERASMUS+ program? Знаете ли Вы о программе ERASMUS+? <i>Да</i>
2	Do you know about the project NICOPA? If you know anything about it, please inform us from whom or how have you found out this information? Знаете ли вы о проекте NICOPA, если знаете, то сообщите от кого или как вы узнали эту информацию. <i>Да, узнал от преподавателя и через интернет</i>
3	Evaluate the necessity of the educational process modernization Оцените необходимость модернизации учебного процесса 1 – no Need нет необходимости 2 <i>Да</i> 3 4 5 – highneed высокая необходимость
4	Do you think that teaching of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным уровень преподавания специальных дисциплин? <i>удовлетворительно, хотя знания больше</i>
5	Do you think that the amount of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным объем специальных дисциплин? <i>Достаточно</i>
6	Do you think that the content of special disciplines is at a satisfactory level? Считаете ли вы удовлетворительным содержание специальных дисциплин? <i>Да</i>
7	Do you think that proportion between theoretical (i.e. lectures) workload and practical (i.e. seminars, laboratorial practice, self-study) workload of special disciplines is at a satisfactory



# Analysis of students ' questionnaires



# Communication

The following means of communication are used to communicate with other universities, EU partners, the coordinator and other project participants:

- Skype;
- e-mail;
- WhatsApp





Thank you for you attention!



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

**Anargul Belgibayeva, Local coordinator**  
**Head of the Department of Economics and**  
**Accounting**

email: [anargul.belgibayeva@maul.ru](mailto:anargul.belgibayeva@maul.ru)