

**Periodical Report
12 Months of project
implementation**



New and Innovative Courses for Precision Agriculture



NATIONAL UNIVERSITY OF UZBEKISTAN NAMED AFTER MIRZO ULUGBEK

Dr. ABDUMANAP NASIROV

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

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





Work plan

МИНИСТЕРСТВО ВЫСШЕГО И СРЕДНЕГО СПЕЦИАЛЬНОГО ОБРАЗОВАНИЯ
РЕСПУБЛИКИ УЗБЕКИСТАН

НАЦИОНАЛЬНЫЙ УНИВЕРСИТЕТ УЗБЕКИСТАНА
ИМЕНИ МИРЗО УЛУГБЕКА

ERASMUS+
ПОВЫШЕНИЕ ПОТЕНЦИАЛА В ВЫСШЕМ ОБРАЗОВАНИИ



«УТВЕРЖДАЮ»
Ректор
А.Р.МАРАХИМОВ
2018 г.

ВНУТРЕННИЙ ПЛАН

реализации мероприятий проекта:

«Новые и инновационные курсы по точному сельскому хозяйству»
«New Innovation Courses of Precision Agriculture» - NICOPA

Ташкент 2018

Ref. No	Activities	Start	End	Responsible person for activity
PREPARATION				
1.1	Review of the current curricula for BA/MSc in target area in PC HEIs.	15.11.2018	30.04.2019	Abdumanap Nasirov Ilkhomjon Abdullaev Mashkura Fakhrutdinova
1.2	Agreement on instructional strategy and guidelines for BA/MSc curricula design including the use of new Educational Technologies	15.11.2018	31.03.2019	Abdumanap Nasirov Ilkhomjon Abdullaev Tokhtasin Abdrakhmonov
DEVELOPMENT				
2.1	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	Rasul Rakhmonov Abdumanap Nasirov Ilkhomjon Abdullaev Tokhtasin Abdrakhmonov
2.2	a) Prepare a set of documentation for PAL and VCR; b) purchase the equipment incl. software; install the equipment	a) 01.02.2019 b) 01.03.2019	a) 30.09.2019 b) 30.01.2020	Abdumanap Nasirov Ilkhomjon Abdullaev Abdujalil Muminov Bekzod Rakhmonov
2.3	a) Casting criteria for participants and retraining program for academic teachers. b) Retrain academic teachers in new curricula using innovative teaching/ learning facilities and agreed instructional strategies	a) 01.01.2019 b) 01.09.2019	a) 30.03.2019 b) 31.08.2020	Abdumanap Nasirov Ilkhomjon Abdullaev Mashkura Fakhrutdinova Tokhtasin Abdrakhmonov
2.4	To update the current BA/MSc curricula/create updated programs in the target area according to the Bologna requirements and the new developments	01.04.2019	30.09.2020	Ilkhomjon Abdullaev Mashkura Fakhrutdinova Azizjon Ruziev Pavel Parchinsky
2.5	Master Classes in new curricula /pilot operation of PAL and VCR	01.09.2020	30.04.2021	Abdumanap Nasirov Ilkhomjon Abdullaev Bakhtiyor Kholmatjanov Azizjon Ruziev
2.6	Pilot teaching/operation of PAL and VCR	01.08.2020	14.11.2021	Ilkhomjon Abdullaev Bakhtiyor Kholmatjanov Azizjon Ruziev Abdujalil Muminov
QUALITY PLAN				
3.1	The Quality assurance strategy/Q Plan of each PC university including internal/external Quality evaluation/reports according to Q Plan	15.11.2018	14.11.2021	Abdumanap Nasirov Ilkhomjon Abdullaev Tokhtasin Abdrakhmonov Tulkin Abdullaev

DISSEMINATION & EXPLOITATION				
4.1	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	Rasul Rakhmonov Abdumanap Nasirov Bakhtiyor Kholmatjanov
4.2	Full media coverage of the project activities inclusive developing and maintenance of Joint WEB based platform	15.11.2018	14.11.2021	Abdumanap Nasirov Ilkhomjon Abdullaev Bakhtiyor Kholmatjanov Abdujalil Muminov
4.3	Develop a set documentation on PASO with stakeholders support /purchase /install equipment /establish	01.02.2019	30.04.2020	Abdumanap Nasirov Ilkhomjon Abdullaev Bakhtiyor Kholmatjanov Abdujalil Muminov
4.4	Staff training for PASO, establishing Regional /International PASO network, pilot operation	01.04.2020	30.09.2021	Abdumanap Nasirov Ilkhomjon Abdullaev Tulkin Abdullaev Pavel Parchinsky
4.5	Refresh training courses for graduates in PASO	01.09.2020	31.07.2021	Tokhtasin Abdrakhmonov Mashkura Fakhrutdinova Bakhtiyor Kholmatjanov
4.6	International BA/ MSc Summer Schools	01.04.2020	31.04.2021	Rasul Rakhmonov Abdumanap Nasirov Ilkhomjon Abdullaev
MANAGEMENT				
5.1.	Management of the project including Project management online, daily project administration and coordination	15.11.2018	14.11.2021	Abdumanap Nasirov Ilkhomjon Abdullaev
5.2.	Coordination meetings	15.11.2018	14.11.2021	All participants

Abbr.: PAL - Precision agriculture lab
VCR - Virtual Class Room
PASO - Precision Agriculture Service Office

Координатор проекта

Насиров А.А.



Work group

No.	Name; email	Role in project	Position
1.	Abdumanap Nasirov aanasirov1962@mail.ru	National Coordinator and contact person of the project (WP1.2 Preparation, WP2.1, 2.2, 2.3, 2.5, 2.6 Development, WP3.1 Quality, WP4.1, 4.3, 4.4, 4.5, 4.6 Dissemination, WP5.1, 5.2 Management)	Associate Professor, Head of Department of Semiconductors and Polymers Physics
2.	Rasul Rakhmonov rrakhmonov@nuu.uz	Administrative Staff (WP1.2 Preparation, WP4.1, 4.2, 4.6 Dissemination, WP 5.2 Management)	Vice-rector for International Relations
3.	Tulkin Abdullaev t.abdullaev@inbox.ru	Project Advisor (WP3.1 Quality, WP4.4 Dissemination)	Associate professor, Department of Geodesy and Geoinformatics
4.	Tokhtasin Abdrakhmonov soilecology@yandex.ru	Academic leader (WP1.1, 1.2. Preparation, WP2.1, 2.3, 2.4 Development, WP3.1 Quality, WP4.5 Dissemination)	Dean of the faculty Biology and Soil Sciences
5.	Mashkura Fakhrutdinova mashkura.fakhrutdinova@mail.ru	Researcher (WP1.1, 1.2. Preparation, WP2.1, 2.3, 2.4 Development, WP3.1 Quality, WP4.5 Dissemination)	Associate professor, Department of Soil Sciences
6.	Pavel Parchinskiy pavelphys@mail.ru	Researcher (WP1.1, 1.2. Preparation, WP2.2, 2.4 Development, WP3.1 Quality, WP4.4, 4.5, 4.6 Dissemination)	Associate professor, Department of Semiconductors and Polymers Physics
7.	Ilkhomjon Abdullaev ilkhomjon.abdullaev@gmail.com	Project Manager (WP1.1, 1.2 Preparation, WP2.1, 2.2, 2.3, 2.4, 2.5, 2.6 Development, WP3.1 Quality, WP4.3, 4.4, 4.6 Dissemination, WP5.1, 5.2 Management)	Associate professor, Department of Geodesy and Geoinformatics
8.	Bakhtiyar Kholmatjanov b.kholmatjanov@gmail.com	Researcher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP3.1 Quality, WP4.1, 4.2, 4.3, 4.4, 4.5 Dissemination)	Associate professor, Department of Astronomy and Atmosphere Physics
9.	Azizjon Ruziev azizjon.ruziev84@gmail.com	Teacher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP4.6 Dissemination)	Senior Lecturer, Department of Geodesy and Geoinformatics
10.	Abdujalil Muminov mominov010@gmail.com	Teacher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP4.2, 4.3 Dissemination)	Teacher, Department of Cartography
11.	Bekzod Rakhmonov bekzod_13@bk.ru	Technical Staff (WP2.2, WP4.1, 4.3 Dissemination;	Accountant



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
Agricultural Meteorology	Bakhtiyar Kholmatjanov- Associate professor, Department of Astronomy and Atmosphere Physics	Update methods of using optical and thermal infrared Remote sensing data to estimate agro-meteorological parameters.	30.09.2020
Remote Sensing	Ilkhomjon Abdullaev- Associate professor, Department of Geodesy and Geoinformatics	Upgrade methods of effective using and application in specific area of Remote Sensing Data and Geospatial Technologies	30.09.2020
Innovative technologies in soil science	Tokhtasin Abdrakhmonov - Dean of the faculty Biology and Soil Sciences	Update integration of the multi and hyperspectral sensors data for soil science	30.09.2020
Soil cover monitoring	Mashkura Fakhrutdinova- Associate professor, Department of Soil Sciences	Design and implement new methods using Remote Sensing and GIS technology in soil mapping and monitoring	30.09.2020



Criteria for teacher selection for trainings



NICOPA:
NEW AND INNOVATIVE COURSES FOR PRECISION AGRICULTURE
597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP
NICOPA Selection Criteria



NICOPA Selection Criteria for teachers

Objective:

This document contains information about selection criteria for teachers to participate in trainings planned at EU universities.

Selection Committee:

1. Dr. Rasul Rakhmonov (Chair, NUU)
2. Dr. Abdumanap Nasirov (Vice chair, NUU)
3. Dr. Tokhtasin Abdrakhmonov (member, NUU)
4. Dr. Khamidxon Muborakov (member, NUU)

Compulsory (scanned) Documents:

1. Photocopy of international passport (only main/photo page)
2. Academic and/or professional Curriculum Vitae (europass model)
3. English language certificate
4. Motivation Letter
5. One letter of recommendation supporting your application
6. Other Documentation (optional)

Selection Criteria:

The selection procedure is established according to the minimum requirements set by the European Commission. The selection procedure guarantees the transparency of the selection process and an equitable treatment of individual applications. The selection process is starting with shortlisting. The short list will be based on an interview by national (local) coordinator persons for initial "filtering". This initial filtering based on rating contributes to the selection procedure. Rating is done by national (local) coordinator and is based on this standard evaluation form.

The Selection Committee will receive a summary of ratings and (filtered) proposals from the project administration, where we also will take care of all quotas as planned in the proposal. Each applicant will be interviewed. Based on the ratings and interviews the Selection Committee will provide a proposal for the project leader before places being offered on the mobility programme.

NICOPA Point Score

Rating	Code Rating
80 - 10 0	Outstanding
60 - 80	Highly competent
40 - 6 0	Competent
20 - 4 0	Not yet competent
0 - 20	Not achieved



NICOPA:
NEW AND INNOVATIVE COURSES FOR PRECISION AGRICULTURE
597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP
NICOPA Selection Criteria



Prerequisites:

1. Working experience in NUU for at least 3 years;
2. Lecturing experience of at least 2 years;
3. Basic education in the field related with trainings within the project.

Applicant:		Full Name	
No	Criteria Items	Points max.	Points scores
1.	Level of English of instruction at host institution	20	
2.	Average of grades in presented certificates	20	
3.	Prior Learning in subjects related with trainings within the project	20	
4.	Motivation letter	20	
5.	Bonus points (max. 4 points each) - Publications - Conference presentations - Teaching Experience - First scholarship award - Other	20	
TOTAL Points (..... / 100)		100	
Evaluator is encouraged to conduct a personal/phone interview where this is deemed necessary to fairly assess the candidate's qualifications			
Additional Comments:			

NICOPA Selection Criteria for teachers



Teacher that will develop new courses

No		Name, Surname of the participant	Position	E-mail
1	Remote Sensing and Application of Earth and Environment related PA	Ilkhomjon Abdullaev	Associate professor, Geodesy and Geoinformatics Department	ilkhomjon.abdullaev@gmail.com
2	Using of SENTINEL 1-2-3 imagery for agricultural field monitoring	Ilkhomjon Abdullaev	Associate professor, Geodesy and Geoinformatics Department	ilkhomjon.abdullaev@gmail.com
3		Abdujalil Muminov Sevar Salohitdinova	Teacher, Cartography Department	mominov010@gmail.com sevar.salohitdinova@gmail.com
4	Global Navigation Satellite Systems (NAVSTAR, GLONASS, GALILEO, etc.)	Azizjon Ruziev	Senior Lecturer, Geodesy and Geoinformatics Department	azizjon.ruziev84@gmail.com
5	Optimizing computer vision algorithms and real-time implementations:	Erkin Mirmakhmudov	Associate professor, Geodesy and Geoinformatics Department	erkin_mir@mail.ru
6	Basics of the Precision agriculture – characteristics, technologies, economic efficiency, optimal use of resources	Bakhtiyar Kholmatjanov	Associate professor, Department of Astronomy and Atmosphere Physics	b.kholmatjanov@gmail.com
7	Yield sensors for Precision Agriculture	Abdumanap Nasirov	PhD, associate professor, Head of Department of Semiconductors and Polymers Physics	aanasirov1962@mail.ru
8	Soil physical properties and its measurement	Pavel Parchinskiy	Associate professor, Department of Semiconductors and Polymers Physics	pavelphys@mail.ru
9		Mashkura Fakhrutdinova	Associate professor, Department of Soil Sciences	mashkura.fakhrutdinova@mail.ru
10	Application of Precision Agriculture for crops growing	Tokhtasin Abdrakhmonov	Dean of the faculty Biology and Soil Sciences	soilecology@yandex.ru



Equipment & Software

Equipment/Software	Name of the person(s) responsible for the equipment/software installation	Occupation of the responsible persons	Contact information of the responsible persons
Equipment	Abdumanap Nasirov	Associate Professor, Head of Department of Semiconductors and Polymers Physics	aanasirov1962@mail.ru
Software	Ilkhomjon Abdullaev	Associate professor, Department of Geodesy and Geoinformatics	ilkhomjon.abdullaev@gmail.com



Dissemination plan

ERASMUS PLUS
HIGHER EDUCATION CAPACITY BUILDING



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



Erasmus+ Project

New and Innovative Courses for Precision Agriculture
(NICOPA)

WP4 – Dissemination and Exploitation

NICOPA strategy - plan for Dissemination, Sustainability and exploitation

New and Innovative Courses for Precision Agriculture

NICOPA strategy - plan for Dissemination, Sustainability and exploitation.

Effective dissemination is essential in order to make sure that the project and their effect will be visible. The NICOPA consortium will be disseminating the results of the project to multiple audiences, via different channels, at different intervals, etc. The aim of this dissemination strategy is to maximize the impact, visibility and credibility of the project. The objectives of the strategy are as follows:

- Design, develop and regularly update the NICOPA website.
- Share information about the project and publish its findings via both traditional media (e.g. press relation) and digital media (e.g. social media)
- Transfer knowledge to industry about changes in academic area - the creation of new training materials, educational resources and the new curricula.
- Support the development of a strategy for the exploitation.

1. Strategy of activities

The dissemination strategy emphasizes free and efficient information exchange, delivering outcomes, and interaction with other external institutions associated with the activities of the project. Dissemination phase of the project consists of the following activities: design and maintenance of the project website, social media, annual newsletters, development of PR materials, the awareness building events and exploitation actions in Uzbekistan.

Dissemination and exploitation activities will address the following target groups and be organized following:

- Event-based dissemination. The project will organize a minimum of 3 annual dissemination workshops to inform and engage with the national academic communities. The Final project Conference will address a broader audience bringing together additionally policy makers, NGOs, education authorities, other stakeholders important to the best practice proliferation in the countries.

- Web-based dissemination. The project website will serve as a major interface and community building platform. In addition to being a repository to all tangible outcomes (training and teaching materials, webinars, results of the Feasibility Study, Repository entry point, methodological materials, reference materials, etc.), it will enable community activities (blogs, social networks interface, FAQ, etc.). On top of that, all partners will use other available web-based dissemination channels (own websites, mailing lists, community resources). All target groups will be addressed.

- Traditional dissemination. The project will produce the set of traditional promotional materials, it will publish major results in media (general public) and professional journals (academic community). Additionally, the project will organize several briefing meetings with policy making stakeholders to enable a multiplier effect.

2. Exploitation planning and exploitation of the results:

- Exploitation planning. The project will plan the exploitation (including how to bear running costs) of such principle outcomes as the set of developed methodological materials, the Repository, the website, etc. for the period of 3-5 years after the project end.

- Exploitation nature: public nature - openly available for re-use.

- Involving into practical aspects of dissemination/exploitation: involving external stakeholders in Evaluation trial and in developing practical tutorials during workshops to ease external exploitation and uptake.



«APPROVE»
Rector
National University of
Uzbekistan
A.Marakhimov

Dissemination plan
for the project “NICOPA: New and Innovative Courses
for Precision Agriculture” in the framework Erasmus+ program

No	Dissemination event	Dissemination method	Implementation date
1	Coordination meeting with Uzbek partner universities, NUU, Tashkent, Uzbekistan	Event-based	Quarterly
2	Disseminating of results of Erasmus+ CBHE Grantholders' Meeting, Brussels (Belgium)	Event-based	February, 2019
3	Project announcement on website of NUU, Tashkent, Uzbekistan	Web-based	January, 2019
4	Meetings with EU, CA and UZ partners	Event-based, web-based	Quarterly
5	Project Awareness building seminar	Event-based, web-based	Regularly
6	The field monitoring of the project NICOPA	Event-based	May, 2019
7	Result of training, TUB, Berlin, Germany	Event-based, Web-based	September, 2019
8	Erasmus+ Information day	Event-based	October 2019, 2020
9	Faculty meeting, NUU	Event-based	Monthly
10	Information about project related events, achievements, materials etc. on the web-of-Erasmus+ NICOPA project (https://nicopa.eu)-NUU (https://nuu.uz)-Social media and channels (http://facebook.com , http://telegram.org)-mass media (http://kun.uz , http://uz.uz , http://uzbekistan24.uz , http://daryo.uz)	Web-based	Regularly

Document control data			
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National Coordinator

A.Nasirov



Schedule of dissemination events

No	Dissemination event	Dissemination method	Period
1	Coordination meeting with Uzbek partner universities, NUU, Tashkent, Uzbekistan	Event-based	November, 2018
2	Results of Erasmus+ CBHE Grantholders' Meeting 28-30 January 2019, Brussels (Belgium)	Event-based, web-based	January, 2019
3	Project announcement on website of NUU, Tashkent, Uzbekistan	Web-based	January, 2019
4	Kick-off Meeting, TUB, Berlin, Germany	Event-based, web-based	March, 2019
5	Erasmus+ DSinGIS Awareness building seminar, SamSACEI, Samarkand	Event-based, web-based	April, 2019
6	The field monitoring of the project NICOPA	Event-based	May, 2019
7	Result of training, TUB, Berlin, Germany	Event-based, Web-based	September, 2019
8	Erasmus+ Information day, TSTU	Event-based	October, 2019
9	Erasmus+ Information day, NUU	Event-based	October, 2019
10	International Uzbek-Chinese Symposium, China	Event-based	October
11	Faculty meeting, NUU	Event-based	November
12	Information about project related events, achievements, materials etc. on the web of:- Erasmus+ NICOPA project (https://nicopa.eu);-NUU (https://nuu.uz);-Social media and channels (http://facebook.com , http://telegram.org);-mass media (http://kun.uz , http://uza.uz , http://uzbekistan24.uz , http://daryo.uz)	Web-based	Regularly



Non-consortium organizations

No	Name of organization	Address
1	"UNITEK STANDART" Ltd.	Mustaqillik str. 68, Tashkent, Uzbekistan
2	"Asrorbek Javohir" farmer associations	Village Shomakulum Khiva district Khorezm region, Uzbekistan



Activities

Regional Meeting (UZ)

20 November 2018

National University of Uzbekistan

<https://www.nicopa.eu/index.php/meetings/5-regional-coordination-meeting-with-uzbekistan-universities>





Activities

Grantholders meeting of new CBHE projects

January 28-29,

Brussels

<http://www.erasmusplus.uz/news/Grantholders-meeting-of-new-CBHE-projects.htm>





Activities

Kick-Off Meeting Berlin

04 - 05 March 2019

Technische Universität Berlin

<https://www.nicopa.eu/index.php/meetings/8-kick-off-meeting-berlin>





Activities

Field monitoring of NICOPA project
2 May 2019
National University of Uzbekistan





Activities

Discussion of the field monitoring results of the NICOPA project by the National Erasmus + Office
4 August 2019

National University of Uzbekistan





Training in TU Berlin

Training TU Berlin

19 - 30 August 2019

Technische Universität Berlin

<https://nicopa.eu/index.php/meetings/22-training-berlin-2>





Seminar about the results of training in TU Berlin

Seminar about the results of training in TU Berlin

20 September 2019

National University of Uzbekistan





Erasmus Plus Information Day

Erasmus Plus Information Day

4 October 2019

Tashkent State Technical University





Erasmus Plus Information Day

Erasmus Plus Information Day
12 October 2019
National University of Uzbekistan



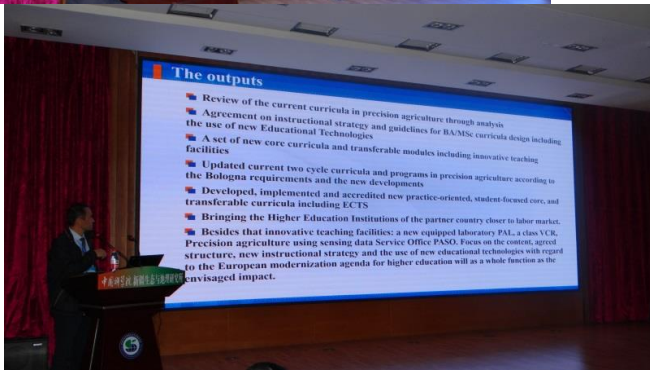


Activities “General information achievements of the project NICOPA”

Uzbek-Chinese symposium

11-15 October 2019

Xinjiang Institute of Ecology and Geography, China



The outputs

- Review of the current curricula in precision agriculture through analysis
- Agreement on instructional strategy and guidelines for BAMS: curricula design including facilities
- A set of new core curricula and transferable modules including innovative teaching facilities
- Updated current two cycle curricula and programs in precision agriculture according to the Bologna requirements and the new developments
- Developed, implemented and accredited new practice-oriented, student-focused core, and transferable curricula including ECTS
- Bringing the Higher Education Institutions of the partner country closer to labor market.
- Besides that innovative teaching facilities: a new equipped laboratory PAL, a class VCR, Precision agriculture using sensing data Service Office PAGO, focus on the content, agreed structure, new instructional strategy and the use of new educational technologies with regard to the European modernization agenda for higher education will as a whole function as the envisaged impact.

List of Curricula

Remote Sensing and Application of Earth and Environment related PA	Core Curricula	Transferable Curricula
8 ECTS; 64 contact hours; 74 hours praxis; 64 hours student workload	Using of REMOTE SENSING for agricultural land monitoring 4 ECTS; 32 contact hours; 50 hours praxis; 45 hours student workload	Management and Decision Making in Precision Agriculture 3 ECTS; 28 contact hours; 30 hours praxis; 22 hours student workload
Optimizing computer vision algorithms and real-time implementations 4 ECTS; 40 contact hours; 35 praxis; 45 student workload	Web technologies (Agri GIS, Geo portals, Geo services, Geo analytical systems) 3 ECTS; 24 contact hours; 50 hours praxis; 20 hours student workload	Management and Decision Making in Precision Agriculture 3 ECTS; 28 contact hours; 30 hours praxis; 22 hours student workload
Yield sensors for Precision Agriculture 4 ECTS; 30 contact hours; 34 hours praxis; 32 hours student workload	Soil physical properties and its measurement 4 ECTS; 48 contact hours; 56 hours praxis; 40 hours student workload	Management and Decision Making in Precision Agriculture 3 ECTS; 28 contact hours; 30 hours praxis; 22 hours student workload



Dissemination (internet links)

1. <http://www.erasmusplus.uz/news/161.htm>
2. <http://www.erasmusplus.uz/Information-about-the-projects/Erasmus-plus/4-call/index.htm>
3. <http://tiiame.uz/oz/article/deuch>
4. <http://uzbekistan24.uz/uzk/yangiliklar/11/8904/>
5. <https://kun.uz/news/2019/03/09/uzbekiston-otm-germaniya-universitetlari-bilan-hamkorlikni-kuchaytirmoqda>
6. <https://daryo.uz/2019/03/07/uzbekiston-milliy-universiteti-nicopa-aniq-qishloq-xojaligida-yangi-va-innovatsion-kurslar-loyihasi-uchrashuviga-qatnashdi/>
7. <http://uza.uz/oz/society/berlinda-zmu-mutakhassislari-ishtirokida-isti-bolli-loyi-a-a-06-03-2019>



Erasmus+ Information Session for NUUZ

Конкурсы



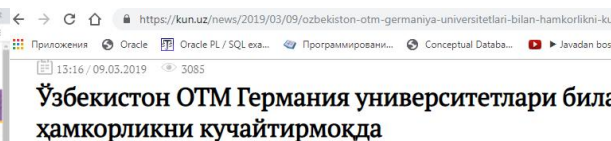
Erasmus+ Information Session for NUUZ

The information session for potential Erasmus+ project applicants has been organized on 22 November 2019 in the premises of National University of Uzbekistan.

Main purpose of the seminar was to support teams, who are in the process of project proposals preparation and application. During the event the NUS staff and newly selected project's coordinators delivered presentations on the cooperation opportunities within the Erasmus+ programme.

More detailed information is provided in the presentations below

Call for Proposals 2019, Capacity Building in Higher Education (CBHE) and Erasmus+ activities in Uzbekistan, Aziza Abdurakhmanova, NUS coordinator in Uzbekistan
Partnership opportunities for HEIs in the Erasmus+ programme 2019 Call for proposals, ICM, Erasmus Mundus Joint Master Degrees, Jean Monnet Activities, Marie Skłodowska Curie Actions, Globalia Karibina, NUS project manager
Partnership opportunities, Daria Abdurakhmanova, NUS administrator
Brief information of the new project CBHE CBHE project, Anisbay Saburov, coordinator of the project team
Achievements of Erasmus+ CBHE 2014-2020 project, Sheralim Abdullayev, coordinator of the project
CBHE partnership, Abdurakhmanova, Daria, NUS administrator
Brief information about new CBHE project, NICOPA, Abdurakhmanova, Daria, project team member



Улашнинг

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Тошкент ирригация ва кишлқ хўжалигини механизациялаш мухандислари институти (ТИҚХММИ) вакиллари Берлин техника университетиди Европа иттифоқининг Эразмус+ Олий таълим муассасаларида салохиятини ошириш (Capacity Building in the Field of Higher Education) дастури бўйича "NICoPA: Аниқ рақамли кишлқ хўжалиги учун янги ва инновацион курслар" лойиҳасининг дастлабки йиғилишида иштирок этишди.



Ўзбекистон Миллий университети "NICOPA – Аниқ қишлоқ хўжалигида янги ва инновацион курслар" лойиҳаси уchrashuviga qatnashdi

4—6-mart kunlari Ўзбекистон миллий университети delegatsiyasi Berlin texnika universitetida bo'lib o'tgan Yevropa Ittifoqining Erasmus+ dasturi doirasida "NICOPA – Аниқ қишлоқ хўжалигида янги ва инновацион курслар" лойиҳаси bo'yicha dastlabki uchrashuviga qatnashdi. Bu haqda O'ZMU ma'lumot xizmati xabar bermoqda.



ГЕРМАНИЯ ОУЮЛАРИ БИЛАН ИЛМИЙ ҲАМКОРЛИК



So'nggi yangiliklar

Mahalliy 15.30 Buzun: 1130
Xalq ta'limi vazirligi ma'lumat: formasi bo'yicha ota-onalarga murojaat qildi

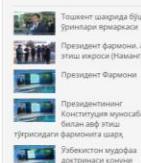
Mahalliy 15.18 Buzun: 1171
Andijonda avtobusga o'tib borganlar bilan mashinay gaz baliqlari ulagan haydovchiga chora ko'rdi

Mahalliy 15.01 Buzun: 1287
Karimov Fondida "Umsi" jamg'armasi shifokorlari bilan uchrashuv o'tkazildi

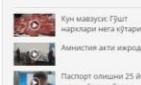
Reklama 15.00 Buzun: 2058
Star House — qulay, chiroqli va mustahkam yulduzi uy. Bu sizning tanlovingiz!

Eng ko'p o'qilgan

ЭНГ КўП О'ҚИЛГАН ХАБАРЛАР



ЭНГ КўП КўРИЛГАН ВИДЕОЛАР





Quality Assurance Group

Name, Surname	Occupation	Organization	Contact info (email)
Mashkura Fakhrutdinova	Associate professor, Department of Soil Sciences	NUUZ	mashkura.fakhrutdinova@mail.ru
Pavel Parchinskiy	Associate professor, Department of Semiconductors and Polymers Physics	NUUZ	pavelphys@mail.ru
Ilkhomjon Abdullaev	Associate professor, Department of Geodesy and Geoinformatics	NUUZ	ilkhomjon.abdullaev@gmail.com



Quality Assurance Plan



«APPROVE»
Rector
National University of
Uzbekistan
A. Marakhimov

Quality Assurance Plan of NUU for the project "NICOPA: New and Innovation Courses for Precision Agriculture" in the framework Erasmus+ program

№	Activity	Deadlines	Responsible
1.	Need analyses - to design and make a survey and needs analysis concerning the design of a new courses and update existing courses.	December 2018	A. Nasirov, A. Ruziev, B. Khalmatjanov, I. Abdullaev
2.	Development of selection criteria for teachers to participate in trainings planned at EU universities	February 2019	R. Shirinova, A. Nasirov, T. Abdrakhmonov, Kh. Muborakov
3.	Needs-analysis report and its feedback, Review of the current curricula for BA/MSc, which will be identified, based on needs analysis and responses. List of proposed new and existing courses, which needs development and update	April 2019	A. Nasirov, A. Ruziev, B. Khalmatjanov, I. Abdullaev
4.	Design short course specifications for selected courses	May 2019	I. Abdullaev, A. Muminov, S. Salohitdinova, A. Ruziev, E. Mirmakhmudov, B. Kholmattjanov, A. Nasirov, P. Parchinskiy, M. Fakhrutdinova, T. Abdrakhmonov
5.	Internal quality monitoring and evaluation	May, October Annually	A. Nasirov, M. Fakhrutdinova, P. Parchinskiy,
6.	External quality monitoring and evaluation	May, October Annually	R. Shirinova, A. Nasirov, T. Abdullaev, F. Eshankulov
7.	Project monitoring and evaluation	Regularly	R. Shirinova, A. Nasirov, I. Abdullaev
8.	Preparation of Progress Reports, which will collect, analyze, and use data to answer questions about the	May, October Annually	R. Shirinova, A. Nasirov, M. Fakhrutdinova, P. Parchinskiy,

	effectiveness and efficiency of the project reaching the intended effect		I. Abdullaev
9.	Peer review of new or modernized courses	September 2019 August 2020	A. Nasirov, T. Abdullaev, F. Eshankulov
10.	Develop of indicators for quality assessment of implementation of each new or modernized courses or curricula package in the target field	June 2020	A. Nasirov, M. Fakhrutdinova, P. Parchinskiy, I. Abdullaev
11.	Implementation of modernization and development of courses with participation of teaching staff that took part in the trainings in European universities	August 2020	R. Shirinova, A. Nasirov, tbd.
12.	Evaluation of developed and updated courses	October 2020	A. Nasirov, M. Fakhrutdinova, P. Parchinskiy,
13.	Implementation and evaluation of learning infrastructure those will be establish and equipped with advanced hardware and geospatial software within the project	November 2020	A. Nasirov, T. Abdrakhmonov, Kh. Muborakov, I. Abdullaev
14.	Evaluation of the results of the implementation of updated and new courses in BA / MSc programs	January 2021	R. Shirinova, A. Nasirov, T. Abdrakhmonov, Kh. Muborakov

The aim of this plan is to insure an integrated quality assurance, project evaluation and quality enhancement mechanism in the project based on Quality assurance strategy of NCOPA project and based on resolution of Cabinet Ministers of the Republic of Uzbekistan Laws on Education, National Program of Personnel training, and "On organization the state inspection for supervision of quality in education under the Cabinet of Ministers the Republic of Uzbekistan" dated on 28.07.2017.

National coordinator

Abdumanap Nasirov



Concept of PASO

НАЦИОНАЛЬНЫЙ УНИВЕРСИТЕТ УЗБЕКИСТАНА ИМЕНИ МИРЗО УЛУГБЕКА



«УТВЕРЖДАЮ»
Ректор НУУз
А.А.П.Марахмидов
20.19 г.

ПОЛОЖЕНИЕ ОБ ОФИСЕ ПО ПОДДЕРЖКЕ И РАСПРОСТРАНЕНИЮ УСЛУГ И ЗНАНИЙ ПО ТОЧНОМУ СЕЛЬСКОМУ ХОЗЯЙСТВУ «PRECISION AGRICULTURE SERVICE OFFICE» (PASO)

REGULATION ABOUT OFFICE ON SUPPORT AND DISTRIBUTION SERVICES AND KNOWLEDGE OF PRECISION AGRICULTURE (PASO)

Разработано в рамках реализации проекта Erasmus+ 597985-EPP-1-2018-1-KZ-EPPK2-
CBHE-JP «New and innovative Courses for Precision Agriculture (NICOPA)»

Ташкент - 2019

1. ОБЩИЕ ПОЛОЖЕНИЯ

Настоящее Положение является внутренним нормативным документом «Национальный университет Узбекистана имени Мирзо Улугбека» и определяет цели, задачи, функции и деятельность Офиса услуг и знаний по точному сельскому хозяйству «Precision Agriculture Service Office» (PASO).

Разработано в рамках реализации Европейского проекта "New and Innovative Courses for Precision Agriculture (NICOPA)" по программе ERASMUS+ Programme - Capacity Building in Higher Education (Project +597985-EPP-1-2018-1-KZ-EPPK2-CBHE-JP)

PASO является структурным подразделением кафедры «Геология и геоинформатика» факультета «География и природные ресурсы» Национального университета Узбекистана, а также сотрудничает с кафедрой «Почвоведение» факультета биологии.

PASO в своей деятельности руководствуется законами Республики Узбекистан.

- Положением кафедры «Геология и геоинформатика»;
- Настоящим положением.

PASO проводит работы, связанные с глубоким освоением учебных материалов и знаний, создаваемых в рамках проекта, и обновлением содержания учебных дисциплин в области точного сельского хозяйства в соответствии с последними достижениями в данной сфере;

Руководитель офиса:

- руководит всей деятельностью PASO;

- несет персональную ответственность за своевременное и качественное выполнение возложенных на офис задач и функций;

- участвует в перспективном и текущем планировании деятельности офиса.

Руководитель офиса имеет право подписи документов по вопросам деятельности офиса, входящих в его компетенцию.

Месторасположение Офиса PASO: 1000174, г. Ташкент, ул. Университетская, 4.

2. ЦЕЛЬ СОЗДАНИЯ PASO

Создать условия для развития результатов проекта после его завершения и облегчить поток средств на техническое обслуживание и развитие, созданный лабораторными объектами проекта.

3. ОСНОВНЫЕ ЗАДАЧИ PASO

- 3.1. Маркетинг потребностей в области ООПТ и развитие соответствующие услуги для разных целевых групп.
- 3.2. Разработка и внедрение учебных курсов и/или повышения квалификации различных целевых групп.
- 3.3. Маркетинг образовательных услуг.
- 3.4. Сервис для фермерских ассоциаций.
- 3.5. Изучение требований работодателей.
- 3.6. Изучение соответствия компетенций/навыков выпускников требованиям работодателей, информационная поддержка.
- 3.7. Периодическое проведение аудита университета на существующих учебных курсах с целью замены/обновления устаревших учебных программ и разработки новых.
- 3.8. Изучение потребностей промышленных предприятий в сервисном обучении персонала.
- 3.9. Поиск заинтересованных организаций и спонсоров.
- 3.10. Модернизация устаревшего сельскохозяйственного оборудования - для оснащения старой техники датчиками, системами навигации для улучшения работы.
- 3.11. Обработка спутниковых данных.

4. ОСНОВНЫЕ ФУНКЦИИ PASO

В соответствии с возложенными на него задачами PASO осуществляет следующие функции:

- 4.1. Сотрудничество в высших образовательных учреждениях, специализирующихся в подготовке кадров области сельского хозяйства, изучение и решение реальных задач этой сферы и внедрение в учебный процесс полученных результатов;
- 4.2. Разработка и проведение мероприятий по подготовке и повышению квалификации в предметной (академической) области факультета;
- 4.3. Организация тренингов, семинаров, конференций;
- 4.4. Повышение информированности целевых групп путем освещения о результатах работ в средствах массовой информации;
- 4.6. Выявление и освоение технических новшества, научных открытий и изобретений, передового опыта, способствующих улучшению по подготовке и повышению квалификации для сотрудников PASO;
- 4.7. Анализ, поиск, привлечение источников финансирования деятельности;
- 4.8. Осуществление в соответствии с законодательством Республики Узбекистан работы по комплектованию, хранению, учету и использованию архивных документов, образовавшихся в ходе деятельности PASO;
- 4.9. Организация инженерно-технических работ по запросу / заказу заинтересованных лиц/организаций;
- 4.10. Возложение на PASO функций, не относящихся к компетенции PASO, не допускается.

5. ПРАВА PASO

- 5.1. Создавать экспертные и рабочие группы по вопросам улучшения и контроля курсов обучения и/или повышения квалификации различных целевых групп;
- 5.2. Проводить в пределах своей компетенции в установленном порядке переговоры со сторонними организациями, подписывать договоры;
- 5.3. Использовать средства, выделяемые на финансирование развития учебных программ университета по подготовке специалистов, переквалификации и повышению квалификации кадров;
- 5.4. Вносить предложения по вопросам, входящим в компетенцию PASO, в виде проектов;
- 5.5. Запрашивать и получать от руководства университета, кафедр и других структурных подразделений информацию, необходимую для выполнения возложенных на него задач и функций.

6. ОТВЕТСТВЕННОСТЬ РУКОВОДИТЕЛЯ PASO

- 6.1. Всю полноту ответственности за качество и своевременность выполнения возложенных настоящим Положением на PASO задач и функций несет Руководитель PASO;
- 6.2. Степень ответственности других работников устанавливается должностными инструкциями;
- 6.3. Руководитель и другие сотрудники PASO несут персональную ответственность за соответствие оформляемых ими документов и операций с корреспонденцией законодательству Республики Узбекистан;
- 6.4. Ведение документации, предусмотренной действующей нормативно - правовой базой.

Разработано на основе Положения PASO Concept (nicopa.eu) членами рабочей группы проекта NICOPA: Насиров А.А., Абулбаева И.У., Рузиев А.

Координатор проекта

Насиров А.А.

А.А.Насиров

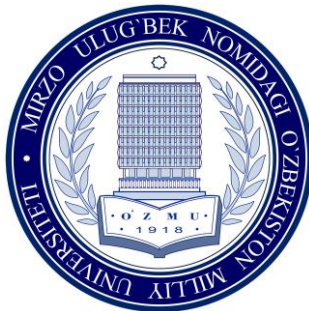


Communication

For communication following technics are using:

- E-mail, Skype, ZOOM, IMO, Telegram, WhatsApp (with EU, CA and UZ partners),
- Telephone (with UZ partners)

There are no problems with communication



Thank you for you attention!



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

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