

**NICOPA Project
Final Report**

**New and Innovative
Courses for Precision
Agriculture**



“TIAME”
NATIONAL RESEARCH UNIVERSITY



NICOPA

**NATIONAL RESEARCH UNIVERSITY “TASHKENT INSTITUTE OF
IRRIGATION AND AGRICULTURAL MECHANIZATION ENGINEERS”
(NRU “TIAME”)**

MR. ILHOM ABDURAHMANOV
Local Project Coordinator

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

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



Project activities & results

WP1 Preparation



Resolution on the project

O'ZBEKISTON RESPUBLIKASI
OLIV VA O'RTA MAXSUS TA'LIM
VAZIRLIGI
TOSHKENT IRRIGATSIYA VA QISHLOQ
HO'JALIGINI MEKANIZATSIYALASH
MUHANDISLARI INSTITUTI
(TQXMMI)



MINISTRY OF HIGHER AND SECONDARY
SPECIALIZED EDUCATION OF THE
REPUBLIC OF UZBEKISTAN
TASHKENT INSTITUTE OF IRRIGATION AND
AGRICULTURAL MECHANIZATION
ENGINEERS
(TIAME)

БУЙРУК

«14» 12 2018 й. № 909/Мр Ташкент ш.

Институтда Европа иттифоқи томонидан эълон қилинган Эразмус+ дастурининг Олий таълимда салоҳиятни ошириш йўналишида бўйича 597985-EPP-1-2018-1-KZ-EPPKA2-CBVE-JP "NICoPA: New and Innovative Courses for Precision Agriculture" (Аник (координатли) кишлоқ хўжалиги учун янги ва инновацион курслар) лойиҳасини амалга ошириш учун ишчи гуруҳ тузиш тўғрисида

Институтда Европа иттифоқи томонидан Эразмус+ дастурининг Олий таълимда салоҳиятни ошириш йўналишида эълон қилинган таълимда таълим маъсасаси сифатида қўлга киритилган 597985-EPP-1-2018-1-KZ-EPPKA2-CBVE-JP "NICoPA: Аник (координатли) кишлоқ хўжалиги учун янги ва инновацион курслар" лойиҳасини амалга ошириш мuddати давомида (15.11.2018й.-14.11.2021й.) Европа Иттифоқи молиявий қўмағи ёрдамида бажарилаётган ишлар самардорлигини ошириш мақсадида:

БУЮРАМАН:

1. Институтда Европа иттифоқи томонидан молиялаштирилган Эразмус+ дастурининг "NICoPA: Аник (координатли) кишлоқ хўжалиги учун янги ва инновацион курслар" лойиҳаси олдига қўйилган вазифаларни амалга ошириш мақсадида лойиҳанинг ишчи гуруҳи 1-иловага асосан ташкилланин.
2. Мазкур лойиҳа доирасида вазифаларни амалга оширишда ишчи гуруҳ аъзоларининг 2-иловада берилган лойиҳанинг ишчи пакетлари (working packages)га амал қилишлари таъминлансин.
3. Лойиҳанинг институтдаги координатори этиб Халқаро ҳамкорлик бўлими бошлиғи И.Абдурахманов таъинлансин.
4. Мазкур буйруқ ижросини таъминлаш ўқув ишлар бўйича проректор Б.Мирзаев зиммасига юклатилсин.

Асос: Ўзбекистон Республикаси Олий ва ўрта махсус таълим вазирлигининг 07.11.2018 йилдаги №87-03-3805 сонли хати.

Ректор

У.Умурақов

TQXMMI-475 - 50 - 99

Институт ректорининг 2018 йил
14 декабрдаги 909/Мр сонли буйруғига 1-илова

Институтда Европа иттифоқи Эразмус+ дастурининг Олий таълимда салоҳиятни ошириш йўналишида 585718-EPP-1-2017-1-HUEPPKA2-CBVE-JP 597985-EPP-1-2018-1-KZ-EPPKA2-CBVE-JP "NICoPA: Аник (координатли) кишлоқ хўжалиги учун янги ва инновацион курслар" лойиҳаси доирасида бажариладиган ишларни амалга ошириш бўйича ишчи гуруҳ таркиби

№	Ф.И.Ш	Вазифаси
1.	У.Умурақов	Лойиҳанинг бошқарув кенгаши раҳбари, институт ректори, лойиҳанинг ўз вақтида ва сифатли бажарилишига жавобгар.
2.	Б.Мирзаев	Лойиҳанинг бошқарув кенгаши аъзоси, лойиҳанинг ўз вақтида ва сифатли бажарилишига жавобгар.
3.	И.Абдурахманов	Лойиҳанинг бошқарув кенгаши аъзоси, лойиҳанинг институтдаги координатори, лойиҳанинг ўз вақтида ва сифатли бажарилишига жавобгар.
4.	М.Реймов	Лойиҳанинг бошқарув кенгаши аъзоси, лойиҳанинг институтдаги бошқарувчиси, лойиҳанинг ўз вақтида ва сифатли бажарилишига жавобгар.
5.	И.Хасанов	Лойиҳа ҳисобини, молиявий масалалар бўйича масъул.
6.	А.Бабажанов	Лойиҳанинг ишчи гуруҳи аъзоси.
7.	А.Мукмулов	Лойиҳанинг ишчи гуруҳи аъзоси.
8.	З.Хадиева	Лойиҳанинг ишчи гуруҳи аъзоси.
9.	С.Шарипов	Лойиҳанинг ишчи гуруҳи аъзоси.
10.	Р.Ойматов	Лойиҳанинг ишчи гуруҳи аъзоси.
11.	Х.Абдулванов	Лойиҳанинг ишчи гуруҳи аъзоси.
12.	Ш.Нарбаев	Лойиҳанинг ишчи гуруҳи аъзоси.
13.	А.Инамов	Лойиҳанинг ишчи гуруҳи аъзоси.
14.	З.Маматқулов	Лойиҳанинг ишчи гуруҳи аъзоси.
15.	А.Хамралиев	Лойиҳанинг ишчи гуруҳи аъзоси.
16.	Ў.Мухторов	Лойиҳанинг ишчи гуруҳи аъзоси.
17.	Х.Хасанов	Лойиҳанинг ишчи гуруҳи аъзоси.
18.	И.Асламов	Лойиҳанинг ишчи гуруҳи аъзоси.
19.	З.Абдурахманов	Лойиҳа иш ўргатувчиси.
20.	Ж.Нисёев	Лойиҳа иш ўргатувчиси.

Институт ректорининг 2018 йил
14 декабрдаги 909/Мр сонли буйруғига 2-илова

Институтда Европа иттифоқи Эразмус+ дастурининг Олий таълимда салоҳиятни ошириш йўналишида 585718-EPP-1-2017-1-HUEPPKA2-CBVE-JP 597985-EPP-1-2018-1-KZ-EPPKA2-CBVE-JP "NICoPA: Аник (координатли) кишлоқ хўжалиги учун янги ва инновацион курслар" лойиҳаси ишчи пакетлари (WP-working packages) изоҳи

Ишчи пакетлари (working packages)	Ишчи пакетларининг қисқача мазмуни
WP1	Тайёргарлик. Лойиҳа тематикасига алоқадор мавжуд бакалавриатура ва магистратура ўқув режаларини таҳлил қилиш, улардан лойиҳа доирасида янги таълим технологиялардан фойдаланган ҳолда янгилаш учун фандарни танлаб олиш ва бунинг учун ўқув стратегияси ва кўрсатма шартномасини тузиш.
WP2	Инновацион таълим бериш/олишни ўз ичига олган янги ўқув дастури ва трансферли модулларни тайёрлаш. ўқув дастурини ишлаб чиқиш, уни институтда қабул қилиш ва аккредитациядан ўтказиш. Лаборатория жиҳозлари сотиб олиш ва ўрнатиш. Янги ўқув дастури ва модуллар бўйича ўқитувчилар малакасини ошириш. Болонья дастури талаблари бўйича мавжуд ўқув дастуралини янгилаш, янгилаш дастури яратиш.
WP3	Сифат режасига биноан ички/ташки сифатни баҳолаш ҳисобларини қамраб олган сифатни таъминлаш стратегияси/режаси.
WP4	Таркатма материаллар, тadbирлар, қўшма веб платформа, "NICOPA+" келишувидан фойдаланиб, лойиҳани тарқатиш ва эксплуатация қилиш. Ҳамкорлар билан биргаликда Аник (координатли) кишлоқ хўжалиги хизмати офиси (PASO) ҳужжаларини тайёрлаш, уни яратиш, жиҳозлар соиб олиш ва ўрнатиш. PASO учун ходимлар малакасини ошириш, минтақавий/халқаро тармок ташкил этиш. Битирувчилар учун янгилаш курсларини PASOда ташкил қилиш. Халқаро бакалавриатура/ магистратура ёғи мактаблари
WP5	Лойиҳани бошқариш, жумладан лойиҳани онлайн бошқариш, қулик лойиҳа администрацияси ва координацияси.

Project activities & results

WP1 Preparation



Internal workplan

MINISTRY OF HIGHER AND SECONDARY SPECIALIZED
EDUCATION OF THE REPUBLIC OF UZBEKISTAN

TASHKENT INSTITUTE OF IRRIGATION AND AGRICULTURAL
MECHANIZATION ENGINEERS

«AGREED»
Vice Rector for Academic Affairs of TIAME
B.Mirzaev
14 12 2018

«APPROVED»
Rector of TIAME
U.Umurzakov
14 12 2018

INTERNAL WORK PLAN
of the Erasmus+ CBHE Project

“NICoPA: New and Innovative courses for Precision Agriculture”
for 2018-2021 years

Tashkent – 2018

Project activities including deadlines and distribution of responsibilities among work group members

Nr	Activities	Ref. №	Performers	Start	End
1	Develop internal plan of activities of the project.	1.1 - 5.2	I.Abdurahmanov	01.12.2018	15.12.2018
2	Make a list of valid subjects/courses for analysis and future updates	1.1	Sh.Narbaev, M.Reimov	10.12.2018	20.12.2018
3	a) Develop questionnaires for analysis of existing curricula/disciplines (questionnaire for teachers, students, graduates, young professionals, alumni; + a questionnaire for interested in project non-academic partners: potential employers, local associations, representatives of industrial enterprises, other parties that can somehow relate to the topic of the project b) Develop a schedule to conduct surveys c) Conduct surveys of various target groups d) Analyze the answered questionnaires	1.1	I.Abdurahmanov, Z.Mamatkulov	20.12.2018	15.04.2019
4	- Develop an analytical report on the results of the analysis of existing curricula/disciplines. - Make a list of curricula that you plan to upgrade. - Develop a schedule for updates of the selected curricula.	1.1	Sh.Narbaev, M.Reimov, Z.Mamatkulov	15.04.2019	30.04.2019
5	Agreement on instructional strategy and guidelines for BA/MSc curricula design including the use of new Educational Technologies	1.2.	U.Umurzakov, B.Mirzaev, Sh.Narbaev, I.Abdurahmanov	15.11.2018	30.04.2019
6	a) Examine and adopt the received materials and develop on this basis their own courses, curricula, modules. b) Target universities should develop digital	2.1	Sh.Narbaev, I.Abdurahmanov, M.Reimov, Z.Mamatkulov, I.Aslanov, R.Oymatov, U.Mukhtorov	a)01.12.2018 b)01.10.2019	a)31.03.2020 b)31.10.2020

	b) Start pilot operation of PASO			b)01.09.2020	
20	Refresh training courses for graduates in PASO	4.5	I.Abdurahmanov, Sh.Narbaev	01.09.2020	31.07.2021
21	Organization of International BA/ MSc Summer Schools	4.6	M.Reimov, A.Khamraliev, Z.Abdurahmanov, J.Niyozov	01.04.2020	31.04.2021
22	Management of the project including project management online, daily project administration and coordination	5.1	I.Abdurahmanov, M.Reimov	15.11.2018	14.11.2021
23	Coordination meetings	5.2	I.Abdurahmanov, M.Reimov	15.11.2018	14.11.2021
24	Monitoring and controlling of project activities: development of questionnaires for partner universities regarding project implementation	5.1	I.Abdurahmanov, M.Reimov	M5, M11, M17, M29, M35	M6, M12, M18, M30, M36
25	Ensure using SKYPE/ZOOM to held meetings of the project consortium team.	5.1	I.Abdurahmanov, M.Reimov	15.11.2018	14.11.2021

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

Coordinator of the project at TIAME

I.Abdurahmanov

Project activities & results

WP1 Preparation



Review curricula

In total **13 curricula** (7 EU and 6 UZ) have been **reviewed** and 8 TIAME specialists have been involved in the review process.

The following current curricula for BA/MSc in target area in TIAME has been reviewed and we made a plan for revising existing modules:

5313400 – Geodesy and Geoinformatics (BA)

5410700 – Land Cadaster and Land Use (BA)

5450400 – Hydraulic Structures and Use of Pumping Stations (BA)

5A313401 – Geodesy and Geoinformatics (MSc)

5A410701 – Land Use and Management (MSc)

5A230105 – Economics of Agriculture (MSc)

Project activities & results

WP2 Development



New academic programs

New **MSc Program “5A430401 – Precision Agriculture”** was launched from 2019 and 3 MSc students were accepted to study for 2019-2020 academic years at TIAME.

New **BSc Program “5311200 – Innovative technologies in Remote Sensing of Land Resources”** was launched from 2020 and 50 BSc students were accepted to study for 2020-2021 academic years at TIAME. The new/updated courses have been included to the new curricula of this program.

Project activities & results

WP2 Development



New and updated courses

It was agreed to **update** following **modules**:

- Geoinformation systems and technologies;
- Remote Sensing;

It was agreed to **develop** following **new modules**:

- Aerospace Image Internet Resource Information;
- Geodetic support of aerial photographs;
- Three-dimensional modeling in GIS;
- Computer graphics in cadastral works;
- Web-GIS;
- Precision Agriculture;
- Modern geodetic equipment;
- GIS in using Hydrotechnical Structure;
- GIS in Hydrotechnical Construction;
- Basics of digital cartography;
- Ecological cartography.

23 teaching/administrative staff involved in the new/updated courses development.

Project activities & results

WP2 Development



New and updated courses

№	Courses/modules	ECTS	pages	Authors	№ of students
1	Geoinformation systems and technologies	9	150	U.Mukhtorov, A.Inamov	50
2	Remote Sensing	13	109	Sh.Rakhmonov	50
3	Aerospace Image Internet Resource Information	4	220	R.Oymatov, S.Abdurakhmonov, M.Reimov	50
4	Geodetic support of aerial photographs	4	115	R.Abdiramanov	50
5	Three-dimensional modeling in GIS	4	193	B.Markus, U.Mukhtorov, Z.Mamatkulov, Z.Abdurahmonov, Sh.Sattorov	50
6	Computer graphics in cadastral works	4	276	R.Oymatov, K.Rakhmonov, Dj.Kubaev	50
7	Web-GIS	5	250	R.Oymatov, I.Aslanov	50
8	Precision Agriculture	4	60	R.Oymatov, I.Abdurahmanov, I.Aslanov	55
9	Modern geodetic equipment	5	238	S.Tashpulatov, U.Islomov, A.Inamov, A.Pardaboev	50
10	GIS in using Hydrotechnical Structure	5	27	M.Bakiev, Kh.Khasanov	50
11	GIS in Hydrotechnical Construction	6	22	M.Bakiev, Kh.Khasanov	50
12	Basics of digital cartography	5	133	S.Abdurakhmonov	50
13	Ecological cartography	5	233	J.Qoraboyev, I.Musaev, T.Qorabayeva	50
	TOTAL	73	2026		655

Project activities & results

WP2 Development

New and updated courses



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Б.Маркус, Ү.Б.Мухторов, З.Ж.Маматқулов, З.З.Абдурахмонов, Ш.Я.Саггоров

Геоахборот тизимларида уч ўлчамли моделлаштириш





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

С.А.Тошпўлатов, Ҳ.П.Исмолов, А.Н.Инамов, А.П.Парабоёв

ЗАМОНАВИЙ ГЕОДЕЗИК





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

С.Н.Абдурахмонов, Ү.Б.Мухторов, О.С.Абдисаматов, А.Ю.Жўраев, А.Н.Инамов

ГЕОАХБОРОТ ТИЗИМ ВА ТЕХНОЛОГИЯЛАРИ



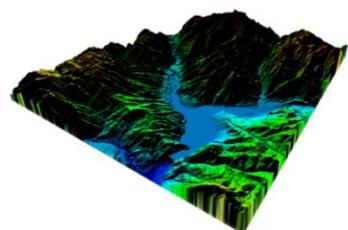


 With the support of the Erasmus+ Programme of the European Union 

ГИДРОТЕХНИКАДА ГЕОАХБОРОТ ТИЗИМЛАРИДАН FOYDALANISH

fanidan amaliy mashg'ulotlarni bajarish uchun

USLUBIY KO'RSATMA



Project activities & results

WP2 Development

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. Bahadır Mirzaev (Chair, Vice Rector for Academic Affairs, TIAME)
2. Dr. Sharafatdin Narbaev (Vice Chair, Dean of the faculty of Land Management, TIAME)
3. Dr. Sherzod Rakhimov (Head of International Cooperation Department, TIAME)
4. Mr. Ilhom Abdurahmanov (member, PhD student, TIAME)

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- 100	Outstanding
60- 80	Highly competent

NICOPA:
NEW AND INNOVATIVE COURSES FOR PRECISION AGRICULTURE
Joint Project: Capacity Building in the Field of Higher Education ERASMUS+
597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP



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

NICOPA Selection Criteria



40- 60	Competent
20- 40	Not yet competent
0- 20	Not achieved

Applicant:		<i>Full Name</i>	
№	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)	20	
	- Publications		
	- Conference presentations		
	- Teaching Experience		
	- First scholarship award		
	- Other		
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:
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Project activities & results

WP2 Development



Retrain academic teachers by organization of Master Classes, workshops, trainings etc.

4 master classes have been organized and following teachers participated in at least 85 % classes:

- 1. Ilhom Abdurahmanov*
- 2. Rustam Oymatov*
- 3. Sarvar Abdurakhmonov*
- 4. Zokhid Mamatkulov*
- 5. Ilhomjon Aslanov*
- 6. Uzbekhon Mukhtorov*
- 7. Sharafatdin Narbaev*
- 8. Khojiakbar Khasanov*
- 9. Mokhigul Abdurakhimova*
- 10. Barnokhon Saipova (Khalilova)*
- 11. Akbarjon Khamraliev*
- 12. Zoirjon Abdurakhmonov*
- 13. Utkir Islomov*
- 14. Abdulla Juraev*
- 15. Aziz Inamov*
- 16. Azamat Jumanov*

Project activities & results

WP2 Development



Establishment of PASO, PAL and VCR

Precision Agriculture Service Office (PASO),
Precision Agriculture Laboratory (PAL) and
Virtual Classroom (VCR) established.

Opening ceremony – 12 October, 2021

EQ for VCR, PASO (24 000 Euro) and for PAL (8 000 Euro) have been purchased and installed.

Project activities & results

WP2 Development

Establishment of PASO, PAL and VCR



Precision Agriculture Service Office (PASO)



Virtual Classroom (VCR)

Project activities & results

WP2 Development

EQ purchased for VCR and PASO



Project activities & results

WP2 Development



EQ purchase for Virtual Class Room

№	Description / Наименование	Q-ty Кол-во
1	Personal Computer All in One/ Персональный компьютер все в одном Lenovo IdeaCentre 27IMB05 i5 10400T/8Gb/256Gb/DVDRW/Mouse/KB/27"/Win 10	12
2	Mobile Workstation/ Мобильная рабочая станция Lenovo Thinkpad P1 i7 9750H/16Gb/512Gb/T1000 4Gb Quadro/Win 10/15,6	1
3	Color MFD A3/ Цветное МФУ A3 EPSON WorkForce WF-7710DWF	1
4	Monochrome MFD A4/ Монохромное МФУ A4 Canon i-SENSYS MF443dw	1
5	Personal Cloud Storage/ Персональное облачное хранилище Zyxel NAS326 +2x10Tb HDD	2
6	Digital Camera (Kit)/ Цифровая камера (комплект) Canon EOS 4000D Kit	1
7	Smart Board/ Смарт доска Smart board SB480	1
8	Projector/ Проектор Epson EB-580	1
9	Smart TV/ Смарт ТВ Artel 55AU20H	1
10	UPS/ ИБП AVT 1500VA Line Interactive EA615	1
11	24 port Gigabit Switch/ 24-портовый гигабитный свитч TENDA TEG1024D	1

Project activities & results

WP2 Development



EQ purchase for Precision Agriculture Laboratory

№	Наименование товара
1	IMETOS® IMT280 базовая станция с осадкомером, датчиком температуры и влажности воздуха (гигроклипом), анемометром (механический), пиранометром
2	ECH874EXT Внешний интерфейс для подключения 1х датчика объемного содержания воды в почве производства Pessl Instruments или Meter Group, 4х тензиометрических датчиков Watermark + 1 х температура почвы с кабелем 5м.
3	SEN-SDI12 Внутренний интерфейс для подключения 2х профильных датчиков объемного содержания воды в почве типа Sentek или Aquacheck
4	IM5041D Универсальный датчик температуры почвы с сенсорной частью PI
5	PI54-D/5 Датчик объемного содержания воды в почве производства Pessl Instruments с кабелем 5м
6	MD510SM Тензиометрический датчик Watermark с кабелем 3,5м
7	TNS107 Тензиометр Irrrometer 90см, без манометра
8	SE1200S Профильный датчик объемного содержания воды в почве производства Sentek D&D Triscan 120 см: 12х температура, 12х влажность и 12х соленость почвы, с кабелем 5м

Project activities & results

WP3 Quality Plan

Quality Plan

**MINISTRY OF HIGHER AND SECONDARY SPECIALIZED
EDUCATION OF THE REPUBLIC OF UZBEKISTAN**

**TASHKENT INSTITUTE OF IRRIGATION AND AGRICULTURAL
MECHANIZATION ENGINEERS**



«AGREED»
Vice Rector for Academic Affairs of TIAME

B. Mirzaev
" 14 " January 2019



«APPROVED»
Rector of TIAME

U. Umurzakov
" 14 " January 2019

QUALITY ASSURANCE PLAN OF TIAME
for the Erasmus+ CBHE Project
“NICoPA: New and Innovative courses for Precision Agriculture”
for 2018-2021 years

No	Activity	Deadlines	Responsible people
1.	Establishment of Quality group	January, 2019	B.Mirzaev, I.Abdurahmanov
2.	Conducting a workshop on ESG & ECTS User's Guide documents	February, 2019	B.Mirzaev, I.Abdurahmanov
3.	Conducting a need analysis of university regarding curricula update/development	March, 2019	B.Mirzaev, I.Abdurahmanov
4.	Defining requirements of the labor market	April, 2019	Sh.Narbaev
5.	Formulating competences of specialists that will be valuable in the next 3-5 years	April, 2019	Sh.Narbaev, M.Reimov
6.	Conducting of surveys of target groups in order to learn about their opinion regarding curricula/courses/modules/modernization/development	April, 2019	Sh.Narbaev, M.Reimov, A.Khamraliev
7.	Development of indicators for quality assessment of implementation of each new/ modernized curricula or curricula package in the target field	August, 2019	I.Abdurahmanov, Sh.Narbaev
8.	Creating a list of 1-3 potential peer reviewers (organizations or persons)	September, 2019	I.Abdurahmanov
9.	Conducting negotiations with peer reviewers of when to send them materials for a peer review	September, 2019	I.Abdurahmanov

10.	Creating a list of curricula/courses/modules that should be modernized	October, 2019	Sh.Narbaev, M.Reimov
11.	Creating a list of new curricula/courses/modules that should be developed	October, 2019	Sh.Narbaev, M.Reimov
12.	Creating a plan of modernization and development of curricula/courses/modules	October, 2019	B.Mirzaev, I.Abdurahmanov
13.	Ensuring of communication with the labor market, potential employers and other organizations during implementation of the tasks	regularly	I.Abdurahmanov, Sh.Narbaev, M.Reimov
14.	Regular conducting of meetings, negotiations regarding the tasks	regularly	B.Mirzaev, I.Abdurahmanov
15.	Studying of teaching material received from the European consortium partners; summarizing, studying and disseminating of the information received on the trainings in the European universities	October, 2019	Z.Mamatkulov, I.Aslanov, Kh.Khasanov, U.Mukhtorov
16.	Studying of national/international educational standards, as well as recommendation of Bologna process	November, 2019	B.Mirzaev, I.Abdurahmanov
17.	Studying of the latest (up to 5 years old) results of scientific research of foreign scientists	November, 2019 – March, 2020	Z.Mamatkulov, I.Aslanov, Kh.Khasanov, U.Mukhtorov
18.	Implementation of modernization and development of curricula/courses/modules with participation of teaching staff that took part in the trainings in European universities	September, 2020	B.Mirzaev, I.Abdurahmanov, Sh.Narbaev, M.Reimov
19.	Feedback questionnaires from students/academic/stakeholders	November, 2020	M.Reimov, A.Khamraliev
20.	Organization and implementation of peer review	December, 2020	I.Abdurahmanov, M.Reimov
21.	Providing self monitoring reports	in each 6 months	I.Abdurahmanov, M.Reimov
22.	Providing presentation based on the report	in each 6 months	I.Abdurahmanov, M.Reimov

Coordinator of the project at TIAME  I.Abdurahmanov

Quality Assurance Indicators

We have chosen the following quality indicators for the peer review template:

1. Balance of student’s workload: theory, practical work (not less than 50%), individual work, internship in a company, testing system
2. Application of ECTS by developing new modules/courses/curricula or modernizing the old ones
3. Usage of information about the latest (up to 5 years old) results of scientific research of foreign scientists in teaching materials
4. Usage of the university online educational platform during the educational process
5. Ability of students to influence the educational content or process. For instance, ability of students to choose a topic of reporting or practical works, to attend elective modules/courses.
6. Correspondence to the national norms (standards) of education
7. Consideration of a new module by the university council of experts with the participation of potential employers (chair meeting, meeting of educational council)

Project activities & results

WP3 Quality Plan



Quality Group

#	Name, Surname	Occupation	Organization	Contact info (email)
1.	Bakhadir Mirzaev	Vice rector for Academic Affairs	TIIAME	bahadir.mirzaev@bk.ru
2.	Ilhom Abdurahmanov	PhD student, Department of Land Use, Faculty of Land Management	TIIAME	ilhom.isakovich@gmail.com
3.	Mamanbek Reimov	PhD student, EcoGIS Center, Faculty of Hydromelioration	TIIAME	maman1990@mail.ru
4.	Sharafatdin Narbaev	Dean, Faculty of Land Management	TIIAME	narbaev_sh@mail.ru
5.	Uzbekhon Mukhtorov	Senior teacher, Department of Geodesy and Geoinformatics	TIIAME	muxtorov-84@mail.ru
6.	Ilhomjon Aslanov	Assistant teacher, EcoGIS Center, Faculty of Hydromelioration	TIIAME	ilhomaslanov@gmail.com
7.	Zokhid Mamatkulov	PhD student in Geoinformatics, Faculty of Land Management	TIIAME	zohid3095@gmail.com
8.	Khojiakbar Khasanov	Assistant teacher, Department of Hydraulic structures, Faculty of Hydromelioration	TIIAME	kh.kh.khasanov@gmail.com
9.	Akbar Khamraliev	PhD student in Geoinformatics, Faculty of Land Management	TIIAME	khamraliyev@mail.ru
10.	Elbek Mamadaliev	MSc student in Precision Agriculture	TIIAME	
11.	Abdusoli Suyunov	Professor, Head of Department of Geodesy and Cartography (peer-reviewer)	Samarkand State Architecture and Civil Engineering Institute	suyunov_s@rambler.ru
12.	Utkir Shermanov	Specialist, Department of Computerization and Introduction of Geoinformation Systems (peer-reviewer)	"Geoinformcadastre" State Unitar Ent. (SUE)	shermanov.utkir@gmail.com
13.	Bakhodir Khakimov	PhD student in Land Management, Cadaster and Monitoring (Alumni)	Scientific Institute "Uzdaverloyiha"	mr.baxodir@mail.ru

Project activities & results

WP4 Dissemination & Exploitation



Dissemination and Exploitation 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

Prepared by: ECM Space Technologies GmbH

Document control data			
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Author's name:	A. Sterenharz/ECM	Status:	Released

1

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

Dissemination & 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.

2

- The executive part of the Memorandum will include agreed and supported measures aimed at exploitation of the project results (concluded at the Final Conference)
- Activities after the end of the project: continuing further dissemination (as described above); developing ideas for future cooperation, evaluating achievements and impact; contacting relevant media; contacting policy-makers on request; cooperating with the European Commission by providing useful inputs to its dissemination and exploitation efforts.

2. Components of the dissemination and sustainability plan of the project

2.1. Target groups

2.1. Specific audience (SA):

- Academic community: students, researchers, professors or other people involved in activities related to the project's topic and interested in following its development and outcomes);
- stakeholders, potential employers of graduates, experts or practitioners in the field (graduate engineers) and other interested parties;
- decision-makers at local, regional, national level;

Generic audience (GA):

- People who may not have professional interests in the project, but that in terms of visibility result to be very important for the project.

2.2. Channels:

- Traditional channels: local, regional, national press and media;
- Modern social networks, such as: Newsletter Facebook page, Twitter profile; Instagram; Research gate etc.

3. Activities:

- 3.1. In order to regularly update information on the project web-site to assign a "blogger" from each university.
- 3.2. Development of a publication plan by each of the universities (1 publication every 3 months) (SA)
- 3.3. Publication can be in local or national media channels (newspapers, information leaflets, brochures, other print media, TV etc.) on the Website of the university; social media networks (for instance, Facebook, Instagram, Twitter, etc.) every publication should contain a link to the project website www.nicopa.eu; every publication (scan of it if it's printed or link to it in the Internet where this publication is situated) should be sent to a.starkow@ecm-space.de
- 3.4. Schedule of local sustainability activities and dissemination of the project results (one event every 3 months) each year of the project, the schedule should be developed by the regional coordinator; activities can be: local meetings of the partner universities, conferences, etc.
- 3.5. Development of a list of related universities and non-academic partners involved in the activities of the project, organizations interested in the project.
- 3.6. Development of a schedule of meetings for non-academic partners, such as other universities, organizations that might be interested in the project
- 3.7. Preparation of press releases of each of the meetings mentioned in 3.4. and 3.6.

3

Project activities & results

WP4 Dissemination & Exploitation



Dissemination Plan for 2018-2019 years

No	Dissemination event	Dissemination method	Period
1	Coordination meeting with Uzbek partner universities, NUU, Tashkent, Uzbekistan	Event-based	Nov., 2018
2	Project announcement on website of TIAME, Tashkent, Uzbekistan	Web-based	Jan., 2019
3	Kick-off Meeting, TUB, Berlin, Germany	Event/web-based	March, 2019
4	Erasmus+ DSinGIS Awareness building seminar, SamSACEI, Samarkand	Event/web-based	April, 2019
5	Republican scientific-practical conference on "Innovative approaches to land management and protection: problems and creative solutions", TIAME, Tashkent, Uzbekistan	Event-based, web-based	May, 2019
6	Erasmus+ DSinGIS Awareness building seminar, KSU, Nukus, Uzbekistan	Event/web-based	May, 2019
7	International Assembly 6th Plenary Meeting of Eurasia-Pacific Uninet, Vienna, Austria	Event/web-based	May, 2019
8	Result of training, TUB, Berlin, Germany	Web-based	Sep., 2019
9	Rectorate meeting, TIAME, Tashkent, Uzbekistan	Event-based	Sep., 2019

Project activities & results

WP4 Dissemination & Exploitation



Dissemination Plan for 2018-2019 years (cont.)

No	Dissemination event	Dissemination method	Period
10	GI Conference, SamSACEI, Samarkand, Uzbekistan	Event-based, web-based, traditional	Oct., 2019
11	Presentation about project and its achievements, seminar for the students, TIAME, Tashkent, Uzbekistan	Event-based, web-based	Nov., 2019
12	Scientific committee meeting, TIAME, Tashkent, Uzbekistan	Event-based	Nov., 2019
13	International GIS day, TIAME, Tashkent, Uzbekistan	Event-based, web-based, traditional	Nov., 2019
14	Information about project achievements on Scientific and technical journal "Sustainable agriculture"	Traditional	Dec., 2019
15	Information about project related events, achievements, materials etc. on the web of: <ul style="list-style-type: none"> - Erasmus+ DSinGIS project (http://geoinformatics.uz/dsingis/, http://dsingis.eu); - TIAME (http://tiame.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

Project activities & results

WP4 Dissemination & Exploitation



Dissemination Plan for 2020 year

No	Dissemination event	Dissemination method	Period
1	Coordination meeting with Uzbek partner universities, TUIT, Tashkent, Uzbekistan	Event-based	March
2	International Earth Day, TIAME, Tashkent, Uzbekistan	Event-based, web-based	April
3	Annual Republican XIX practical-scientific conference of young scientists, MSc and BSc students on topic "Modern problems of agriculture and water resources", TIAME, Tashkent, Uzbekistan	Event-based, web-based	May
4	International GIS in Central Asia Conference – GISCA 2020 InterCarto.InterGIS 2020, DSinGIS GI 2020 Conference, TIAME, Tashkent, Uzbekistan	Event-based, web-based	June
5	Result of Summer School, Czech University of Life Sciences Prague, Czech Republic	Web-based	July
6	Presentation about project and its achievements, seminar for the students, TIAME, Tashkent, Uzbekistan	Event-based, web-based	September
7	Result of training, Agricultural University of Plovdiv, Bulgaria	Event-based, web-based	October
8	Erasmus+ Info Day	Event-based, web-based	October
9	International GIS day, TIAME, Tashkent, Uzbekistan	Event-based, web-based, traditional	November
10	Information about project achievements on Scientific and technical journal "Sustainable agriculture"	Traditional	December
11	Information about project related events, achievements, materials etc. on the web of: - Erasmus+ DSinGIS project (http://geoinformatics.uz/dsingis/ , http://dsingis.eu); - TIAME (http://tiame.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

Project activities & results

WP4 Dissemination & Exploitation



Dissemination Plan for 2021-2022 year

No	Dissemination event	Dissemination method	Period
1	Results of MasterClasses held on January-March, 2021	Event-based, web-based	March
2	Presentation about project and its achievements, seminar for the students, TIAME, Tashkent, Uzbekistan	Event-based, web-based	March
3	International Earth Day, TIAME, Tashkent, Uzbekistan	Event-based, web-based	April
4	Annual Republican XX practical-scientific conference of young scientists, MSc and BSc students on topic "Modern problems of agriculture and water resources", TIAME, Tashkent, Uzbekistan	Event-based, web-based	May
5	International GIS in Central Asia Conference – GISCA 2021, Online, Multi-Hub, Bishkek, Tashkent, Dushanbe	Event-based, web-based	May-June
6	Erasmus+ Info Day	Event-based, web-based	October
7	International Conference, International GIS day, TIAME, Tashkent, Uzbekistan	Event-based, web-based, traditional	November
8	Information about project achievements on Scientific and technical journal "Sustainable agriculture"	Traditional	December
9	Information about project related events, achievements, materials etc. on the web of: - Erasmus+ DSinGIS project (http://geoinformatics.uz/dsingis/ , http://dsingis.eu); - TIAME (http://tiame.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

Project activities & results

WP4 Dissemination & Exploitation



The screenshot displays the TIAME website interface. At the top, there are navigation menus for 'News', 'Adverts', 'Institui's sites', 'Sitemap', and 'Feedback'. The main content area features a large image of the institute's building and an 'ADVERTS' section with the following text:

ADVERTS
Concepts for studying Institutional change in agriculture
21.08.2019 209
The course provides an interactive introduction to doing social science research on institutional ch...
Entrance Test for Master's Degree in

Below this, there is a section for 'INTERNATIONAL COOPERATION DEPARTMENT' with a contact number +998(71) 237 09 87 and email international@tiame.uz. A dropdown menu is open, showing options like 'Projects', 'Winners of international grants', and 'Schedule of implemented projects'. The bottom part of the screenshot shows a news article titled '"Эрасмус+ NICOPA лойиҳаси"' (Erasmus+ NICOPA project) dated 21.08.2019. The article text includes:

Лойиҳанинг рақами (агар мавжуд бўлса): +597985-ERP-1-2018-1-KZ-EPKKA2-СВНЕ-ЈР»
Ариза берувчи ташкилот: Сейфуллин Қозоқ Агротехника университети
Мақсад: янги технологиялар (географик ахборот тизими (ГАТ), катта маълумотлар, масофадан зондлаш) ёрдамида аниқ (рақамли) қишлоқ ҳўжалигида ўқув дастурларини модернизация қилиш
Лойиҳанинг Вазифалари:

- Муаммони ва ишни таҳлил қилиш орқали аниқ (рақамли) қишлоқ ҳўжалигида таълим эҳтиёжларини таҳлил қилиш ва жорий ўқув дастурларини кўриб чиқиш.
- Аниқ қишлоқ ҳўжалиги бўйича жорий ўқув дастурларини янгилаш.
- Европа кредит трансфер тизими (ЕКТТ) ни ўз ичига олган ўқув дастурларини ишлаб чиқиш, жорий этиш ва

A link to TIAME website, where we posted information about the participation in the project and a link to the project webpage: <http://international.tiame.uz/oz/page/NICOPA>

Project activities & results

WP4 Dissemination & Exploitation



Regional Meeting with UZ Partner Universities was held at NUU on November 20, 2018, Tashkent, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Kick off meeting of the Erasmus+ NICOPA project was held at TUB on March 3-4, 2019, Berlin, Germany.

Project activities & results

WP4 Dissemination & Exploitation



Field monitoring meeting of the Erasmus+ NICOPA project was held at NUU on May 2, 2019, Tashkent, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Presentation of the Project NiCoPA by Mr.M.Reimov during Dissemination event of Erasmus+ DSinGIS: Doctoral Studies in Geoinformation Sciences” was held at Karakalpak State University on May 4, 2019, Nukus, Karakalpakstan, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Presentation of the Project NiCoPA by I. Abdurahmanov during the dissemination event on “The tasks carried out within the framework of the Erasmus+ DSinGIS project” was held at Samarkand State Architecture and Civil Engineering Institute named after Mirzo Ulugbek on April 9, 2019, Samarkand, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Presentation of the Project NICOPA by I.Abdurahmanov during the 6th Plenary Meeting of Eurasia-Pacific Uninet on May 17, 2019, Vienna, Austria.

Project activities & results

WP4 Dissemination & Exploitation



Discussion of the Field monitoring meeting results of the Project NICoPA on August 4, 2019, NUU, Tashkent, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Training within the Erasmus+ NICOPA project was held at TUB on August 17-31, 2019, Berlin, Germany.

Project activities & results

WP4 Dissemination & Exploitation



Presentation Erasmus+ NICOPA project on the Exhibition during the Erasmus+ Info day held at Tashkent State Technical University on October 4, 2019, Tashkent, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation



Regional Meeting with UZ Partner Universities was held at TUIT on November, 2019, Tashkent, Uzbekistan.

Project activities & results

WP4 Dissemination & Exploitation

The 8th Scientific committee meeting of TIAME, November 28, 2019

PRESS RELEASE

5th Academic council's meeting

November 28, 2019, TIAME, Tashkent, Uzbekistan

Agenda of the meeting

1. Analysis of the implementation of decrees, resolutions, orders of the President of the Republic of Uzbekistan, decisions of the Cabinet of Ministers, orders and decisions of the Board of the Ministry of Higher and Secondary Special Education, issues raised in appeals of individuals and legal entities and decisions of the Academic Council.
2. Report on the spiritual and educational, moral and educational work carried out at the Institute in the 2018-2019 academic year and the planned spiritual and educational work for the 2019-2020 academic year, as well as information of the working group.
3. Information on the conduct of elections in accordance with the "Regulations on the procedure for hiring teachers in higher education institutions".
4. Information on the review of documents of pedagogical staff applying for a degree and recommendation for a degree
5. Report on the educational and scientific work carried out at the departments of the faculty "Hydromelioration" and the report on the action plan for their further development and information of the working group.
6. Various issues:
 - a. Project Erasmus+ NICOPA, aims and activities.

Participants

About 60 participants including 53 permanent members of the Scientific Committee other invited people took part in the meeting.

Contacts

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str.Kary Niyazyi, 39, Tashkent 100000, Uzbekistan

Email: admin@tiame.uz Phone: +998712371909, Fax: +998712373879



Тошкент ирригация ва қишлоқ хўжалигини механизациялаш муҳандислари институти
Илмий Кенгаш аъзолари йиғилишининг 2019-2020 ўқув йилдаги
5 - Илмий Кенгаш йиғилишининг
МАЖЛИС БАЁНИ

2019 йил 28 ноябрь

Тошкент ш.

Қатнашчилар: Илмий Кенгашнинг 53 аъзosi ва таклиф этилганлар (руйхат илова қилинади).

6. ТУР-ПН МАСАЛАЛАР

Раис Б.Мирзаев – Қуи тартибдаги 6-масала бўйича, яъни турли масалалар тўғрисида маълумот бериш учун сўз Илмий котиб Юлчиен Давронбек Гулмавоичга, марҳамат.

6.20. ЭШИТИЛДИ:

Раис Б.Мирзаев – Қуи тартибда кўрсатилган бarcha масалалар кўриб бўлинди. Энди навбатдан ташқари битта масала институлда Erasmus+ "DSinGIS" ва "NICOPA" халқаро лойиҳалар бўйича эришилган натижалар тўғрисида ҳисобот бериш учун сўз, "Теониформатика" йўналиши 1-босқич таянч докторанти Абдурахмонов Илхом Исаковичга, марҳамат.

И.Абдурахмонов – Институлда Erasmus+ "DSinGIS" ва "NICOPA" халқаро лойиҳалар бўйича эришилган натижалар тўғрисида ҳисобот берди. (Ҳисобот матни илова қилинади).

Раис Б.Мирзаев – Қўрилган масала юзасидан қандай қандай саволлар бор? Марҳамат.

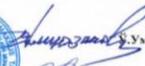
А.Ражабов – Институлда лойиҳа доирасида ташкил этилаётган "GISCA 2020" Scopus базасига қиритилган халқаро конференцияга мақолаларни топшириш талабларини келтириб олсак бўлади, мақолаларни рус тилида ҳам топширсак бўладими?

И.Абдурахмонов – 2020 йил июнь ойида институт томонидан Erasmus+ DSinGIS лойиҳаси доирасида Австрия-Марказий Осиё GAT Маркази (ACA*GIScience) ҳамда Венгриядаги Obuda Университетининг Alba Regia Техника факультети билан биргаликда ташкиллаштирилаётган "GISCA 2020" Scopus базасига қиритилган халқаро конференцияга мақолаларни топшириш талаби институтининг веб-сайтига қўйлаштирилган. Мақолалар факатгина инглиз тилида қабул қилинади.

Раис Б.Мирзаев – Маълумотларга яна саволлар борми? Бошқа саволлар бўлмаса, қарор қисмини тасдиқлаб беришларингизни сўрайман. Қаршиллар – йўқ, бетарафлар – йўқ. Раҳмат.

6.20. ҚАРОР ҚИЛИНДИ:

1. "Теониформатика" йўналиши 1-босқич таянч докторанти И.Абдурахмоновнинг Институлда Erasmus+ "DSinGIS" ва "NICOPA" халқаро лойиҳалари бўйича эришилган натижалар тўғрисида берган ҳисоботи ахборот учун қабул қилинсин.

Институт Илмий Кенгаши раиси  К.Ниязый

Институт Илмий Кенгаши котиби  Д.Юлчиен

Project activities & results

WP4 Dissemination & Exploitation



Presentation about the Project NICoPA done by Ilhom Abdurahmanov during the introduction meeting with the staff and students at the Obuda University on February 18, 2020

Project activities & results

WP4 Dissemination & Exploitation

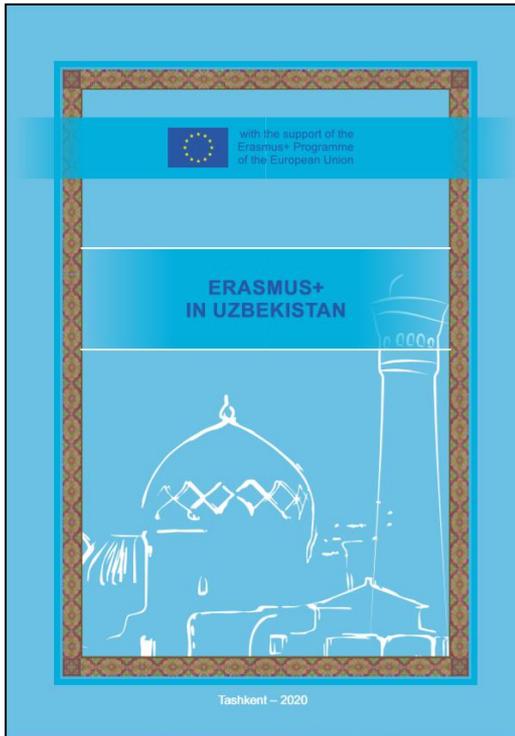


Coordination meeting with Uzbek partner universities, TUIT, Tashkent, Uzbekistan, 04 March, 2020

Project activities & results

WP4 Dissemination & Exploitation

- Paper with the title “Project Management, Curriculum and Achievements of the NiCoPA project” in the proceedings “Erasmus+ in Uzbekistan”: http://www.erasmusplus.uz/images/shared/file/ERASMUS+ IN UZB 2020_print.pdf (page#119)



Then Anvar Nizamov, module leader in Team University, spoke on “Training and development as a part of Human resource management”, and Anvar Shirinov gave a lecture on “Recent changes in labor legislation in Uzbekistan”.

Topics were discussed by speakers and participants of the seminar.

The seminar was organized at a high level and was widely disseminated through social networks and the media (<https://buxdu.uz/index.php/en/activity-en/international-cooperations/active-projects/2757-talent-project>, <https://youtu.be/n7IW3bKwvYA>).

In conclusion, the project results will serve to satisfy public and civil organizations with qualified HR managers soon. In this regard, local organizations are trying to prepare their HR managers according to the program formulated by the TALENT project team.

Project Management, Curriculum and Achievements of the NiCoPA project

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Abdumanap Nostrov², Komil Tashev², Temurbek Kuchkorov², Ilhom
Abdurahmanov³*

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⁴Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan

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Abstract: The aim of the Erasmus+ project “NiCoPA: New and Innovative Course for Precision Agriculture” is to modernize curricula in precision agriculture using new technologies such as Geographic Information System (GIS), Big Data and Remote Sensing. Project is addressed to improve the quality of higher education and enhance its relevance for the labor market and society, the level of competences and skills in HEIs by developing new and innovative education programs, support the modernization and internationalization of the HE in precision agriculture in the targeted Universities in Kazakhstan, Uzbekistan and Turkmenistan through innovation of two cycles curricula. The information about the project management, curriculum and output activities done within the project NiCoPA are given in this paper.

Based on the obtained skills of NiCoPA project and experience of EU universities, the following new BSc and MSc programs have been established and they have started admission of students from the 2020/2021 academic year.:

- Geoinformation systems and technologies, MSc Program, Tashkent university of information technologies named after Muhammad al-Khwarizmi;
- Innovative technologies in Remote Sensing of Land Resources, BSc Program, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers.

Prospective BSc and MSc students will study on modern curriculum which is developed in collaboration with highly experienced European partner universities (Technical University of Berlin, Agricultural University Plovdiv, Czech University of Life Sciences Prague). Specialization modules that are Geoinformation systems, Remote sensing technologies and applications, SENTINEL-1-2-3 imagery processing, Computer vision, Web technologies for geo-portal, geo-services and geo-analytical systems, Precision agriculture basics, Artificial intelligence in geoinformation systems, WebGIS, Digital Photogrammetry, 3D Modelling in GIS, Space Geodesy, Geospatial Data Visualization, Spatial Data Analysis, Decoding Spatial Images and other subjects are included in the curriculum.

According to the statistics of the Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan: 19 applicants with a bachelor degree submitted their documents to continue the study in MSc program in Geoinformation systems and technologies, and 3 of them have been accepted to study in this program at TUIT; more than 300 applicants submitted their documents to study in BSc program in Innovative technologies in Remote Sensing of Land Resources, and 26 of them have been accepted to study in this program at TIAME. It is planned opening the new PAL (Precision Agriculture Lab) laboratory and VCR (Virtual Classroom) for BSc and MSc students to study modules and conduct their researches effectively using modern hardware and software tools.

To complete BSc program in Innovative technologies in Remote Sensing of Land Resources students should score 240 ECTS, and to get MSc degree in Geoinformation systems and technologies, they should score 120 ECTS at all. Credits are divided into the three modules that are general (21%), major (48%) and elective (31%) subjects in MSc program.

References

1. Erasmus+ CBHE Project “DSinGIS: Doctoral Studies in Geoinformation Sciences” (<http://www.dsingis.eu>), <http://www.dsingis.eu/>.
2. Erasmus+ CBHE Project “Environmental Protection In Central Asia (EPCA): Disaster Risk Management With Spatial Methods”, <http://www.epca.eu/>.
3. Erasmus+ CBHE Project “NiCoPA: New and Innovative courses for Precision Agriculture”, <http://www.nicopa.eu/>.

Project activities & results

WP4 Dissemination & Exploitation



<http://tiame.uz/en/article/16-08-20-1>

The screenshot shows the TIAME website with the article "The next online meeting of the Erasmus + NiCoPA project". The article text states: "On August 10, the Zoom platform hosted the next online management meeting of the Erasmus + project 'NiCoPA: New and Innovative Courses for Clear (Coordinated) Agriculture'. The meeting was attended by partners of the project in Germany, the Czech Republic, Bulgaria, Kazakhstan, and Uzbekistan (TIAME, UZNU, TUT), as well as an external reviewer of the project, expert Dr. Andrei Girenko attended."

Below the text is a Zoom meeting screenshot showing participants: Ilpom Abdurajabov, kumhala, Sara Kitaibek, and Anastasiya Ta... The Zoom interface includes a "Zoom Meeting 40-Minutes" label and a "Print" button.

This screenshot shows the same article but with a list of tasks for implementation and a Zoom meeting screenshot. The tasks listed are:

- Execution of reports on 18 months of project implementation.
- An external reviewer on the implementation of the project - expert Dr. Sul suggestions and recommendations of Andrei Girenko: Procurement of equipment and various other issues within the project.
- The meeting was attended by the project coordinator of TIAME, a basic doctoral student of the department of Land Use Ilhom Abdurajabov and a member of the project, a teacher of the EcoGAT Center Ilhomjon Aslanov.
- Within the framework of the project, textbooks on the following subjects are being created for students of relevant bachelor's and master's specialties at TIAME:
 - Basics of using GAT and remote sensing in the operation of hydraulic structures;
 - Geoinformation systems and technologies;
 - Application of remote sensing;
 - Precise coordinate agriculture;
 - Modern geodetic instruments;
 - Management of drone use in agriculture.

Detailed information about the project can be found on the following official website of the project: www.nicopa.eu

The Zoom meeting screenshot shows participants: Ilpom Abdurajabov, kumhala, Sara Kitaibek, and Anastasiya Ta... The Zoom interface includes a "Zoom Meeting 40-Minutes" label and a "Print" button.

Project activities & results

WP4 Dissemination & Exploitation

<https://telegra.ph/Erasmus-project-New-and-Innovative-Courses-for-Precision-Agriculture-NICOPA-2018-2021-10-09>

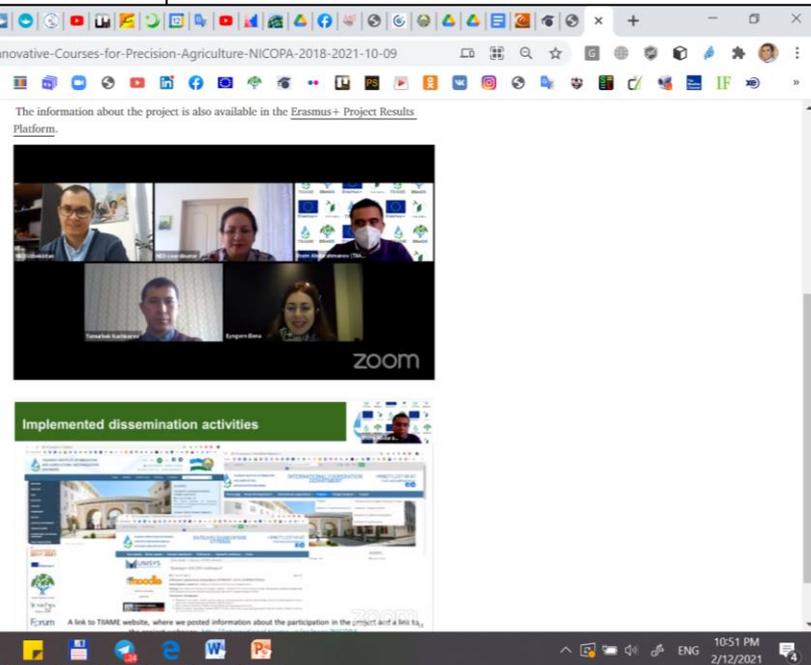
Erasmus+ project New and Innovative Courses for Precision Agriculture (NICOPA) (2018-2021)

October 09, 2020

The online field monitoring meeting with the project teams of Erasmus+ CBHE NICOPA took place on 9 October 2020. The regional project involving universities of Germany, Bulgaria, Czech Republic, Kazakhstan, Turkmenistan and Uzbekistan is aimed on modernization and internationalisation of BA/MSc studies in precision agriculture using new technologies including besides machines Geographic Information System (GIS), big data and remote sensing in targeted universities in Central Asian countries through innovative two cycles curricula in line with the Bologna and principles, market demand and best practice..

The project teams of National University of Uzbekistan, Tashkent University of Information Technologies, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers have already developed majority foreseen courses in precision agriculture together with EU partners. The project website <https://www.nicopa.eu/> provides detailed information about the project activities. .

The information about the project is also available in the [Erasmus+ Project Results Platform](#).



The image shows a Zoom meeting window with five participants. Below the meeting window is a screenshot of a website titled "Implemented dissemination activities". The website features a header with the TIAME logo and a main content area with images of buildings and text. The website is displayed in a browser window with a Windows taskbar at the bottom.

Project activities & results

WP4 Dissemination & Exploitation

‘GIS IN CENTRAL ASIA’ CONFERENCE – GISCA 2020, “Applied Geoinformatics for Sustainable Development”, Online, June 1-2, 2020

PRESS RELEASE

‘GIS IN CENTRAL ASIA’ CONFERENCE – GISCA 2020
“Applied Geoinformatics for Sustainable Development”
 Online, June 1-2, 2020

GISCA Conferences

Geographic Information Science and Technologies have evolved into a key instrument for managing our societies, environments and infrastructures, as well as individuals’ daily lives. Continued success of this development depends on cooperation across disciplines, open information policies and a highly educated workforce.

The GISCA series of conferences aims at building a Central Asian network of GIS professionals supporting the sustained development of this region into an environmentally friendly, secure and prosperous society. It serves as a platform for communication, collaboration and learning in Geographic Information Science, GIS and related sciences and technologies. GISCA was launched by the Austria-Central Asia Centre for GIScience in 2005.

The main objectives of this English language conference are to bring together geospatially oriented academics, researchers and practitioners in the Central Asian countries and encourage international cooperation and knowledge exchange in GIS education.

GISCA 2020

In 2020, GISCA is focused on the theme “Applied Geoinformatics for Sustainable Development”. Geographic Information Science as a conceptual foundation, Geoinformatics as the methodology and GIS as software technologies are powerful instruments for linking information across different sources by location. This is exactly what is needed to successfully manage our environments and natural resources, our economies and ultimately our societies.

GISCA 2020 is being organized by the Austria-Central Asia Centre for GIScience (ACA*GIScience) jointly with the Erasmus+ D5inGIS project led by the Alba Regia Technical Faculty, Óbuda University, Hungary and the Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME).

GISCA 2020 is supported by Trimble International, GeoTwo and the Austrian Academy of Sciences. The conference originally was planned to be held in Tashkent, Uzbekistan, but due to current circumstances has been scheduled entirely online as a virtual conference on June 1-2, 2020.

The GISCA conference series and its publications are managed by ACA*GIScience supported by Eurasia-Pacific Uninet and the Austrian Academy of Sciences’ Commission for GIScience.

Key topics of the GISCA 2020

- Key themes** (additional themes and sessions are welcome) of the conference are:
- GIS for regional Sustainable development



- Development of Spatial Data Infrastructure
- GIS for management in the field of environmental protection
- GIS for the prevention and elimination of emergency situations
- GIS for water resources management
- GIS in agriculture
- New trends and technologies in geodesy, cadastre and land management
- Professional and farther education in the field of geoinformatics
- GIS in Hydrotechnical Construction and Melioration
- GIS in Mechanization and Automatization of Agriculture and Water Resources.

Participants

Participants: Erasmus+ D5inGIS and NiCoPA Project Partners (staff and students), BSc, MSc and PhD students in GIS related specialities, GIS related organisations and companies.

Organizers

- Austria-Central Asia Centre for GIScience (ACA*GIScience);
- Erasmus+ D5inGIS project;
- Universität Salzburg, Austria;
- Alba Regia Technical Faculty, Óbuda University, Hungary;
- Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME).

Contacts

Contact to TIAME – Local organizers (Uzbekistan)

Conference secretary: **Mr. Ilhom Abdurahamanov**, gisca2020@aca-gis-science.org

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Tel.: +996-312-545602, Fax: +996-312-545136

Kyrgyz State University of Construction, Transport and Architecture (KSUCTA)

Maldybaev Str. 34 “b”, Bishkek 720020, Kyrgyzstan

Contact to GISCA coordinator (Austria):

Academician Prof. Josef Strobl, Josef.Strobl@sbg.ac.at

Department of Geoinformatics, University of Salzburg &

GIScience Commission of the Austrian Academy of Sciences

Project activities & results

WP4 Dissemination & Exploitation



IX annual International Scientific and Practical Conference, “Forest ecosystems in the conditions of climate change”, Online, September 15-16, 2020

RELEASE

IX annual International Scientific and Practical Conference
 “Forest ecosystems in the conditions of climate change”

Online, September 15-16, 2020

About the Conference

Volga State University of Technology is organizing the IX annual Scientific and Practical Conference, which will be held remotely on the Zoom platform. During the event, topical issues of scientific research and practice, monitoring and remote assessment of forest management, international projects and technologies in the field of forest ecosystems in a changing climate will be discussed. The conference will bring researchers to address the issues of reforestation, monitoring and remote sensing of forest management, to explore and discuss opportunities and strengths related to forest ecosystems in the conditions of climate change. Several individual sessions of the event will be informed by several keynote speakers with extensive expertise in the field. Contributions are welcome on any aspect of modern forest science, including focused empirical, theoretical and practical contributions to forest management in the conditions of climate change. The conference is held in the framework of two international projects **SUFORGIS** (Erasmus+) and **GEMOECO** (BRICS).

Key topics of the Conference

Themes of presentations:

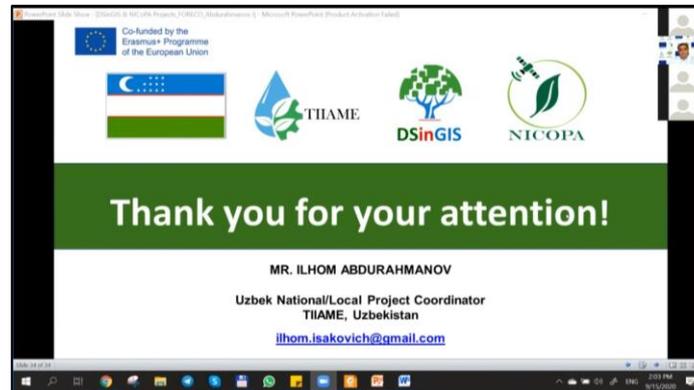
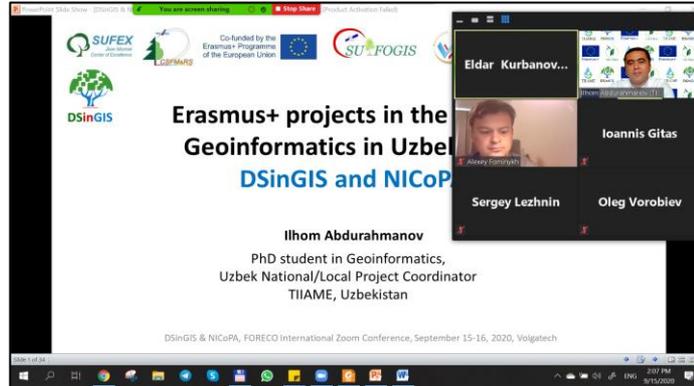
1. Biological productivity of forests.
2. Assessment of ecosystem disturbances.
3. Technologies for artificial reforestation.
4. The ecological role of forests.
5. Forest inventory and planning.
6. GIS and remote monitoring of ecosystems.
7. Forest conservation and protection.

Conference Publication

The conference proceedings are considered for publication in the annual Compendium **“Forest Ecosystems under Climate Change: Biological Productivity and Remote Monitoring”**. Manuscripts are also welcomed for submissions to the Special Issue of Journal of Remote Sensing **“Remote Sensing of Burnt Area Monitoring”**.

Organizers

Jean Monnet [Center of Excellence](#), [Center for Sustainable Forest Management and Remote Sensing](#).



INTERNATIONAL ZOOM CONFERENCE	
“Forest ecosystems in the conditions of climate change: biological productivity and remote sensing”	
15-16 September 2020	
Programme	
15 September	
8:00 – 9:40	Plenary session 1: Official opening of the conference, Welcome from Volgatch, CET (Central European Time) Please use this link to schedule your time: https://time.is/CET
Chair: Abraham Thomas (Council for Geoscience, South Africa)	
7:50 – 8:00	Opening and welcome.
8:00 – 8:25	Extraction and modeling of main trunk of individual <i>Pinus densata</i> based on point cloud data <i>Jiangpeng Zhang, Jinhang Wang, Guangjie Liu (Yunnan Normal University, China)</i>
8:25 – 8:50	Regional Scale Soil Organic Matter Estimation Based on a Geographic Detector Model using Landsat Data, Pingtan Island, Fujian, China <i>Junjun Fang, Xiaomei Li, Jingjing Sha, Jiali Shang, Taifeng Dong, Yong-Chih Su, Na Jie, Yun Wu (Fujian Normal University)</i>
8:50 – 9:15	Mapping of land use / land cover of KOSH region for the years 2019 & 2020 using Sentinel-2 data <i>Abraham Thomas (Council for Geoscience, South Africa)</i>
9:15 – 9:40	Estimation of Land surface temperature and drought indices for the KOSH region during summer and spring seasons of year 2019 <i>Nobuyyo Dhatamshie, Abraham Thomas (Council for Geoscience, South Africa)</i>
9:40 – 10:00	Break
10:00 – 12:30 Plenary session 2.	
Chair: Eldar Kurbanov (Volgatch)	
10:00 – 10:25	Forest Phenological Trends in the Middle and High Latitude of the Northern Hemisphere Using GIMMS_NDVI3g Phenology Data <i>Huang Jingfeng, Zhejiang University (China)</i>
10:25 – 10:50	Ecological Vulnerability Assessment Based on SRP Model – Taking Pingtan in Fujian Province as an Example <i>Jingjing Sha (China)</i>
10:50 – 11:15	On the fly land cover mapping using machine learning with multispectral satellite imagery on Google Earth Engine <i>Sofianos Pappasiranidis, AUTH (Greece)</i>
11:15 – 11:40	Combining remote sensing and national forest inventory data for large scale forest structure assessment <i>Christof Pacher, BOKU (Austria)</i>
11:40 – 12:05	Erasmus+ projects in the field of Geoinformatics in Uzbekistan: DSinGIS and NICOPA <i>Ilhom Abdurahmanov, TIAME (Uzbekistan)</i>
12:05 – 12:30	Questions, discussion

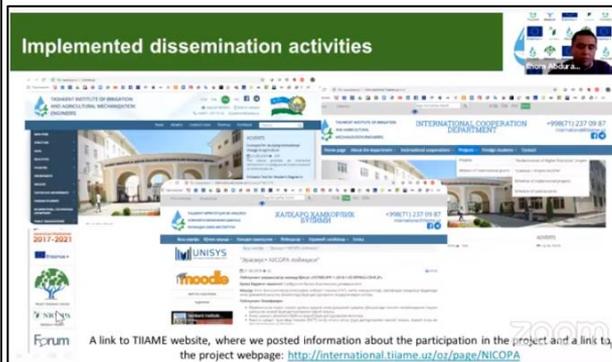
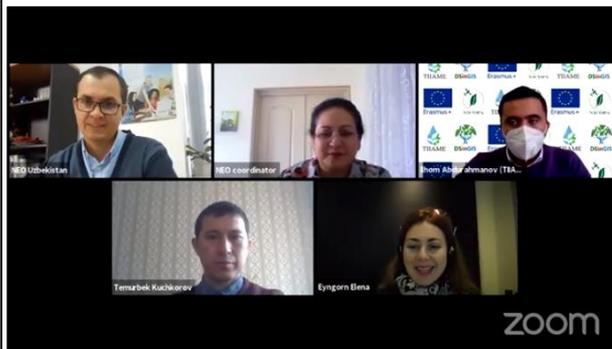
Project activities & results

WP4 Dissemination & Exploitation



Online field monitoring meeting with NEO UZ, October 9, 2020

 <p>Co-funded by the Erasmus+ Programme of the European Union </p> <p>ERASMUS+ Capacity Building in the Field of Higher Education (CBHE)</p> <p>NICOPA PROJECT «New and Innovative Courses for Precision Agriculture» (NICOPA) 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP</p> <p>Advisory monitoring meeting (Online)</p> <p>9 October 2020 at 14.30 (Tashkent time) Online communication details: https://us02web.zoom.us/j/81960206603</p> <p>MEETING AGENDA</p>		
14:30-14:40	Opening speech	Raima Shirinova , Vice-rector for International Relations of NUU
14:40-14:50	Objectives of the Advisory Monitoring visit	Aziza Abdurakhmanova , NEO coordinator Kudratkhon Bakhadirov , NEO expert
14:50-15:20	Activities performed of NICOPA project in TIAME	Ilhom Abdurahmanov , Institutional coordinator of NICOPA project
15:20-15:50	Activities performed of NICOPA project in TUIT	Temurbek Kuchkorov , Institutional coordinator of NICOPA project
15:50-16:20	Activities performed of NICOPA project in NUU and, in general, in Uzbekistan	Abdumanap Nasirov , National coordinator of NICOPA project
16:20-16:35	On the progress of work on the NICOPA project in partner universities of Uzbekistan	Anastasiya Tatarintseva – Project Manager, EXOLAUNCH GmbH, Berlin, Germany, Sara Kitaibekova – Project coordinator, S. Seifullin KATU, Kazakhstan
16:35-17:00	Discussion	All participants
17:00-17:10	Conclusions and preliminary recommendations of the monitoring	Aziza Abdurakhmanova , NEO coordinator Kudratkhon Bakhadirov , NEO expert

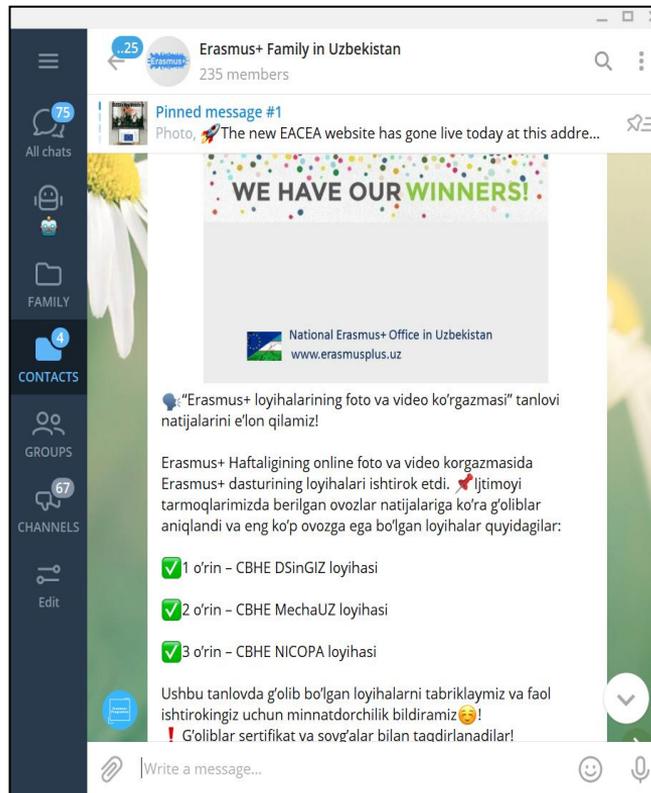
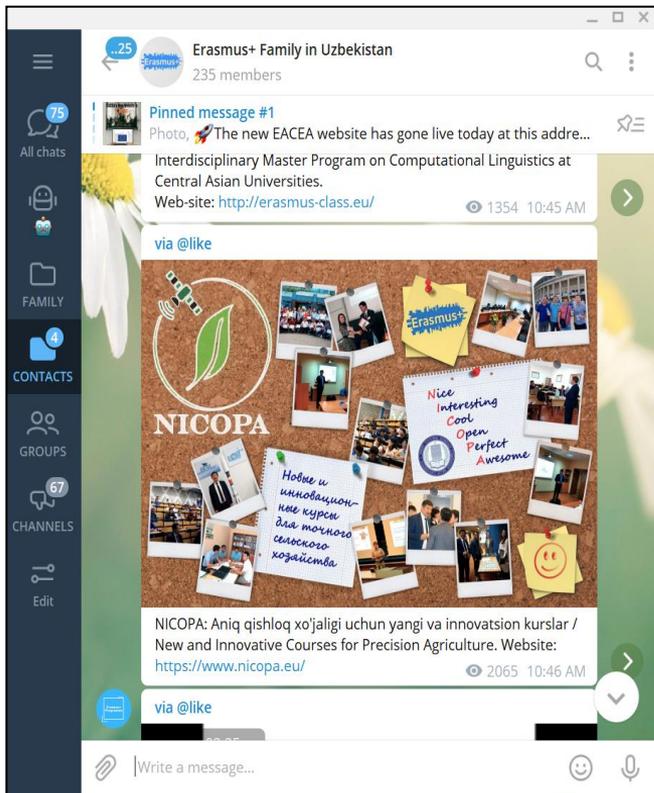


 <p>Co-funded by the Erasmus+ Programme of the European Union </p> <p>ERASMUS+ Capacity Building in the Field of Higher Education (CBHE)</p> <p>NICOPA PROJECT «New and Innovative Courses for Precision Agriculture» (NICOPA) 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP</p> <p>Advisory monitoring meeting (Online) 9 October 2020 at 14.30 (Tashkent time)</p> <p>List of participants</p>	
Organisation	Name, surname, position, email of authorized representatives
National University of Uzbekistan	Raima Shirinova , Vice-rector for International Relations of NUU r.shirinova@nuu.uz Abdumanap Nasirov , Associate professor, National coordinator, anasirov1962@mail.ru Ilkhomjon Abdullaev , Senior Lecturer, Local Manager, ilkhomjon.abdullaev@gmail.com Pavel Parchinskiy , Associate professor, project member, pavelphys@gmail.ru Azzjon Ruziev , Senior Lecturer, project member, azzjon.ruziev84@gmail.com Andrey Nebeay , Blogger of the project, nebeay-andrey@yandex.ru
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Tashkent Institute of Irrigation and Agricultural Mechanization Engineers	Ilhom Abdurahmanov , Researcher, Local Coordinator, ilhom.isakovich@gmail.com Mamanbek Reimov , Researcher, Local Manager, maman1990@mail.ru Zohid Mamatdulov , Researcher, project member, zohid2095@gmail.com Ilhomjon Aslanov , Assistant Professor, project member, ilhomaslanov@gmail.com
EXOLAUNCH GmbH	Anastasiya Tatarintseva , Project Manager anastasiya@exolaunch.com
S. Seifullin KATU, Kazakhstan	Sara Kitaibekova , Project coordinator, saraorazbek@mail.ru
National Erasmus+ Office (NEO) in Uzbekistan	Aziza Abdurakhmanova , NEO coordinator, coordinator@erasmusplus.uz Kudratkhon Bakhadirov , NEO expert, expert@erasmusplus.uz Gulshoda Karlibaeva , NEO project manager, neo@erasmusplus.uz

Project activities & results

WP4 Dissemination & Exploitation

Erasmus+ Info Week, online, on Telegram group, October 12-17, 2020



Project activities & results

WP4 Dissemination & Exploitation



ANNUAL INTERNATIONAL SCIENTIFIC CONFERENCE ON GEOINFORMATICS – GI 2021 “Supporting sustainable development by GIST”, Online/onsite, January 27-29, 2021

PowerPoint Slide Show - [NICoPA Project_GI2021_Abdurahmanov] - Microsoft PowerPoint (Product Activation Failed)

ANNUAL INTERNATIONAL SCIENTIFIC CONFERENCE ON GEOINFORMATICS – GI 2021
27-29 January 2021
ONLINE/ONSITE

“Supporting sustainable development by GIST”

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

NICoPA: New and Innovative Courses for Precision Agriculture

Ilhom ABDURAHMANOV
DSinGIS/NICoPA National/Local Project Coordinator

Slide 1 of 20

PowerPoint Slide Show - [NICoPA Project_GI2021_Abdurahmanov] - Microsoft PowerPoint (Product Activation Failed)

Results

GENERAL INTRODUCTION OF MODERN AGRICULTURE AND BUSINESS
AGRICULTURAL UNIVERSITY – PLOVDIV, BULGARIA
FACULTY OF ECONOMICS
Assoc. Prof. Dr. Dimo ATANASOV

Teachers from: Agricultural University - Plovdiv, Plovdiv, Bulgaria; Czech university of life sciences Prague, Prague, the Czech Republic; Technische Universität Berlin, Berlin, Germany.

www.nicopa.eu

Ilhom Abdurahmanov, GI2021 Online Conference, January 27-29, 2021, TIAME, Tashkent, UZ

Slide 19 of 20

Project activities & results

WP4 Dissemination & Exploitation

Online lecture on Glscience - Teaching and Learning for the MSc students of the University of Vienna, Austria by Sabine Hennig, 14 April, 2021



The NICoPA Project

Theme for cooperation
Modernization of curriculum by developing and innovative courses and methodologies using ECTS, the three cycle system and the recognition of degrees.

Project duration: 3 years

Project type:
Joint project, cross-regional

Budget size (Tempus Grant)
999.847,- EUR

Selection results of Call 2018 EAC/A05/2017
874 applications received
147 (16,82%) proposals recommended for funding

Target countries / priorities
•This application addresses priorities in curricula reform: KAZAKHSTAN, TURKMENISTAN, UZBEKISTAN
•Agricultural sector

Consortium size: 21 organisations




18



Partners



EU partners

Technische Universität Berlin	www.tu-berlin.de	Germany	Berlin
The Agricultural University Plovdiv	www.au-plovdiv.bg	Bulgaria	Plovdiv
Czech University of Life Sciences	www.czu.cz	Czech Republic	Prague
ECM Space Technology GmbH	www.ecm-space.de	Germany	Berlin

Target universities/partner countries

S.Seifullin Kazakh Agro Technical University	www.kazatu.kz	Kazakhstan	Astana
Shokan Ualikhanov Kokshetau State University	www.kgu.kz	Kazakhstan	Kokshetau
North Kazakhstan State University Named After Manash Kozybayev	www.nkzu.kz	Kazakhstan	Petropavlovsk
Turkmen Agricultural University Named after S.A. Niyazov		Turkmenistan	Ashgabat
The Turkmen state architecture and construction institute		Turkmenistan	Ashgabat
Turkmen Agricultural Institute		Turkmenistan	Dashoguz
National University of Uzbekistan	www.nuu.uz	Uzbekistan	Tashkent
Tashkent University of Information Technologies	www.tuit.uz	Uzbekistan	Tashkent
Tashkent Institute of Irrigation and Agricultural Mechanization Engineers	www.tiame.uz	Uzbekistan	Tashkent

21

Project activities & results

WP4 Dissemination & Exploitation



GIS in Central Asia – GISCA 2022 and Geoinformatics – GI 2022
ANNUAL INTERNATIONAL SCIENTIFIC CONFERENCES on
"Designing the geospatial ecosystem“, and
INTERNATIONAL SYMPOSIUM on
"Principal areas of land reform strategy: problems and solutions“,
NRU “TIAME”, ONLINE/ONSITE, 23-24 May, 2022

- more than 400 participants;
- including 75 foreigners;
- number of research papers submitted – 114;
- number of research papers accepted for publication- 60;
- will be published in the Journal indexed in the Scopus international bibliographic and abstract database in November, 2022;
- 10 memorandum of understandings were signed between the partners.

Project activities & results

WP4 Dissemination & Exploitation

GIS in Central Asia – GISCA 2022 and Geoinformatics – GI 2022



Project activities & results

WP4 Dissemination & Exploitation

GIS in Central Asia – GISCA 2022 and Geoinformatics – GI 2022



Project activities & results

WP4 Dissemination & Exploitation



PROGRAM

GIS in Central Asia – GISCA 2022
and Geoinformatics – GI 2022

ANNUAL INTERNATIONAL SCIENTIFIC CONFERENCES
on "Designing the geospatial ecosystem"

INTERNATIONAL SYMPOSIUM

on "Principal areas of land reform strategy: problems and
solutions"

23-24 May, 2022

National Research University "Tashkent Institute of Irrigation and Agricultural
Mechanization Engineers" (NRU "TIAME"), Tashkent, Uzbekistan.

ONLINE/ONSITE

Address: Academic Council Hall, NRU "TIAME", str Kari Niyaziy, 39, Tashkent

Conference languages: English, Uzbek, Russian (with simultaneous translation)

Conference platform (for online participants):

Zoom <https://us06web.zoom.us/j/81484518875>

ID: 814 8451 8875, password: 122454



Project activities & results

WP4 Dissemination & Exploitation



Erasmus+

ERASMUS+ "NICOPA: ANIQ (KOORDINATL) QISHLOQ XO'JALIGI UCHUN YANGI VA INNOVATSIY KURSRLAR" LOYIHASI NATIJALARI

<https://www.nicopa.eu/>



LOYIHA DOIRASIDA OCHILGAN YANGI BAKALAVR TA'LIM YO'NALISHI
 NICOPA: Aniq (koordinatli) qishloq xo'jaligi uchun yangi va innovatsion kurslar loyihasi doirasida Toshkent irrigatsiya va qishloq xo'jaligi mexanizatsiyalash muhandisligi institutida yangi "5311200-Vermi masofaviy zondlashda innovatsion texnologiyalar" bakalavr ta'lim yo'nalishi tashkil etilib, o'quv jarayoniga joriy qilingdi.

- LOYIHA DOIRASIDA YARATILGAN O'QUV MATERIALLARI**
1. Geobazor tizimlarida uch o'lchamli modellash.
 2. Kadastr tizimlarida kompyuter grafikasi.
 3. Aerokosmik suratlarining internet-resurs ma'lumotlar.
 4. Aerofotogrammetriya geodezik ta'minot.
 5. Gidrotexnika geobazor tizimlarini foydalanish.
 6. Geobazor tizimi va texnologiyalar.
 7. Zamonaviy geodezik asboblarni.
 8. Raqamli kartografiya asoslar.
 9. Ekologik kartografiya.
 10. Web-GAT.



HAMKORLIK SHARTNOMALARI
 Ilmiy faoliyatni amalga oshirish hamda ishlab chiqarish bilan integratsiyani uyg'unlashtirish maqsadida loyiha doirasida quyidagi 6 ta nodavlat-notijorat tashkilotlari bilan shartnomalar imzolandi:

1. "Azimut GEO" MChJ;
2. "GEO EXPERTS" MChJ;
3. "GRAND-PERFECT-PROJECT" MChJ;
4. "Development Experts" MChJ;
5. "Innovatsiyalar va imiy tadqiqotlar klasteri"; NNT
6. "GEOINFORM ENGINEERS GROUP" MChJ.

Shuningdek, loyiha davrida loyihaing quyidagi hamkorlari bilan ikki tomonlama xalqaro hamkorlik shartnomalari imzolandi:



Project posters



Erasmus+

ERASMUS+ "NICOPA: ANIQ (KOORDINATL) QISHLOQ XO'JALIGI UCHUN YANGI VA INNOVATSIY KURSRLAR" LOYIHASI

<https://www.nicopa.eu/>



LOYIHA HAQIDA QISQACHA MA'LUMOT
 Yo'nalishi: Erasmus+ Oliy ta'limga salohiyatni oshirish, "Key Action 2"
 Raqami: 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP
 Nomi: NICOPA: Aniq (koordinatli) qishloq xo'jaligi uchun yangi va innovatsion kurslar
 Qisqartmasi: NICOPA
 Budgeti: 999 847 yevro
 Bajarilish muddati: 15.11.2018-14.11.2022



INNOVATSIY TA'LIM MUHITI

- aniq (koordinatli) qishloq xo'jaligi laboratoriyasi va raqamli o'quv xonasini tashkil etish;
- qo'shma WEB platforma yaratish;
- aniq (koordinatli) qishloq xo'jaligi laboratoriyasi va raqamli o'quv xonasida mahorat darslari va pilot kurslarini olib borish;
- professor-o'qituvchilarni yangi o'quv dasturlari bo'yicha o'qitish;
- manfiyator tomonlar ko'magida aniq (koordinatli) qishloq xo'jaligi xizmat ofisini (PASO) tashkil etish.

LOYIHANING MAQSADI VA VAZIFALARI

Loyihaning maqsadi – yangi va innovatsion ta'lim dasturlarini ishlab chiqish orqali oliy ta'lim sifatini yaxshilash, uning mehatmat bozori va jamiyat uchun ahamiyatini, oliy o'quv yurtlaridagi malaka va ko'nikmalar darajasi oshirish, shuningdek, Qozog'iston, Turkmaniston va O'zbekistondagi oliy ta'lim muassasalarini maqsadli aniq (koordinatli) qishloq xo'jaligida oliy o'quv yurtlarini ikki davri innovatsiyalarni joriy etish orqali modernizatsiya qilish hamda xalqarosharhishini qo'lab-quvvatlash.

Loyihaning vazifalari quyidagilardan iborat:

- maqsadli sohadagi ta'lim ehtiyojlarini tahlil qilish, joriy o'quv dasturlarini ko'rib chiqish;
- loyihaing ikkinchi yili oxirigacha joriy dasturlar va o'quv dasturlarini maqsadli sohadagi so'ngi yangiliklarga mos ravishda yangilash;
- amaliyotga va talabalariga yo'naltirilgan yangi o'quv dasturlari va modullarini, shu jumladan, Yevropa kredit transfer tizimi (ECTS) ni tatib chiqish, joriy etish va akkreditatsiyadan o'tkazish;
- hamkor mamlakatlarning oliy o'quv yurtlarini mehatmat bozoriga yaqinlashtirish.

O'QUV KURSRLARI

- maqsadli sohadagi joriy o'quv dasturlari yangilash;
- ta'lim yo'nalishi asosiy o'quv kurslarini ishlab chiqish;
- 3 ta ko'chma modul yaratish.

 <p>Loyihaning koordinatori Ibrat TOKBERGIROV S. Seyfullin nomidagi Qozog'iston agrotexnika universiteti ibrat@atnu.kz</p>	 <p>Loyihaning menejeri Sara KTAIBEKOVA S. Seyfullin nomidagi Qozog'iston agrotexnika universiteti ktabeiqova@mail.kz</p>
 <p>Loyihaning mahalliy koordinatori Ibrat USAKOV Toshkent irrigatsiya va qishloq xo'jaligi mexanizatsiyalash muhandisligi instituti ibrat.usakov@gmail.com</p>	 <p>Loyihaning mahalliy menejeri Marziyabek KECHIYEV Toshkent irrigatsiya va qishloq xo'jaligi mexanizatsiyalash muhandisligi instituti m.kechiyev@gmail.com</p>

- LOYIHA HAMKORLARI**
1. S. Seyfullin nomidagi Qozog'iston agrotexnika universiteti, Qozog'iston
 2. Berlin texnika universiteti, Germaniya
 3. Plovdiv qishloq xo'jaligi universiteti, Bolgariya
 4. Prapradag Cheyxiya agrotexnika universiteti, Cheyxiya
 5. Exolaunch GmbH (ECM kosmik texnologiyalari GmbH nomi bilan tanilgan), Germaniya
 6. Shokan Ualixonov nomidagi Kokshetau davlat universiteti, Qozog'iston
 7. Manash Qozoyboev nomidagi Shimoliy Qozog'iston davlat universiteti, Qozog'iston
 8. S. A. Niyozov nomidagi Turkmaniston qishloq xo'jaligi universiteti, Turkmaniston
 9. Turkmaniston davlat arxitektura va qurilish instituti, Turkmaniston
 10. Turkmaniston qishloq xo'jaligi instituti, Turkmaniston
 11. O'zbekiston Milliy universiteti, O'zbekiston
 12. Toshkent axborot texnologiyalari universiteti, O'zbekiston
 13. Toshkent irrigatsiya va qishloq xo'jaligi mexanizatsiyalash muhandisligi instituti, O'zbekiston
 14. Ta'lim va fan vazirligi, Qozog'iston
 15. Ta'lim sifatini nazorat qilish davlat inspeksiyasi, O'zbekiston



Project activities & results

WP4 Dissemination & Exploitation



Other publication materials:

<http://www.erasmusplus.uz/news/161.htm>

<http://www.erasmusplus.uz/Information-about-the-projects/Erasmus-plus/4-call/index.htm>

<http://tiame.uz/oz/article/deuch>

<http://uzbekistan24.uz/uzk/yangiliklar/11/8904/>

<https://kun.uz/news/2019/03/09/ozbekiston-otm-germaniya-universitetlari-bilan-hamkorlikni-kuchaytirmoqda>

<https://daryo.uz/2019/03/07/ozbekiston-milliy-universiteti-nicopa-anig-qishloq-xojaligida-yangi-va-innovatsion-kurslar-loyihasi-uchrashuvida-qatnashdi/>

<http://uza.uz/oz/society/berlinda-zmu-mutakassislari-ishtirokida-isti-bolli-loyi-a-a-06-03-2019>

<http://geoinformatics.uz/dsingis/2019/04/10/awareness2/>

<http://geoinformatics.uz/dsingis/2019/05/05/awareness3/>

<http://tiame.uz/article/31-09-19-1>

<https://uza.uz/uz/posts/geofazoviy-ekotizimni-loyihalash-mavzusida-xalqaro-ilmiy-konferenciya-tashkil-etildi> 374865

<https://tiame.uz/en/content/prestigious-international-conference>

Project activities & results

WP5 Management



NICoPA+ Agreements

✓ 6 (six) NICoPA+ agreements have been signed so far with the following non-academic stakeholders:

- “Azimut GEO” LLC;
- “GEO EXPERTS” LLC;
- “GRAND-PERFECT-PROJECT” LLC;
- “Development Experts” LLC;
- “Innovations and Scientific Research Cluster”;
- “GEOINFORM ENGINEERS GROUP” LLC.

<p>СОГЛАШЕНИЕ "NICOPA University-Enterprise"</p> <p>Cooperation Agreement "NICOPA University-Enterprise"</p> <p>№ 2020-02/02</p> <p><u>Соглашение</u> "NICOPA University – Enterprise"</p> <p>"Новые и инновационные программы по точному сельскому хозяйству"</p> <p><u>Стороны Соглашения</u></p> <p>Настоящее Соглашение заключено между Университетом - участником консорциума проекта "NICOPA", именуемым в дальнейшем "Университет", с одной стороны</p> <p>Ташкентский институт инженеров ирригации и механизации сельского хозяйства (ТИИМСХ), Республика Узбекистан, 100000, г. Ташкент, ул. Кору Нивизий 39</p> <p>и неакадемической организацией</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), str. Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"Innovations and Scientific Research Cluster", str. Kori Niozyiy, 39, Tashkent 100000, Republic of Uzbekistan</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"Development Experts" LLC, Yunusobod, Street Parkent, 6, Tashkent, Uzbekistan</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"GEOINFORM ENGINEERS GROUP" LLC, Yashnobod, Street Parkent, 6, Tashkent, Uzbekistan</p>
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<p>СОГЛАШЕНИЕ "NICOPA University-Enterprise"</p> <p>Cooperation Agreement "NICOPA University-Enterprise"</p> <p>№ 2019-02/02</p> <p><u>Соглашение</u> "NICOPA University – Enterprise"</p> <p>"Новые и инновационные программы по точному сельскому хозяйству"</p> <p><u>Стороны Соглашения</u></p> <p>Настоящее Соглашение заключено между Университетом - участником консорциума проекта "NICOPA", именуемым в дальнейшем "Университет", с одной стороны</p> <p>Ташкентский институт инженеров ирригации и механизации сельского хозяйства (ТИИМСХ), Республика Узбекистан, 100000, г. Ташкент, ул. Кору Нивизий, 39</p> <p>и неакадемической организацией</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), str. Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"GEO EXPERTS" LLC, str. Shark, block-1, 1/3, Tashkent 100000, Uzbekistan</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), str. Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"Azimut GEO" LLC, str. 2-Darkhontepa, 7, Tashkent 100000, Uzbekistan</p>	<p>Cooperation Agreement "NICOPA University – Enterprise"</p> <p><u>Cooperation Agreement</u> "NICOPA University – Enterprise"</p> <p>"New and Innovative Courses for Precision Agriculture"</p> <p><u>Parties to the Agreement</u></p> <p>This is a cooperation Agreement among the consortium members of "NICOPA", hereinafter referred to as "University" on the one hand</p> <p>Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIAME), str. Kary Niyazyi, 39, Tashkent 100000, Uzbekistan</p> <p>and a non-academic organization</p> <p>"GRAND-PERFECT-PROJECT" LLC, str. Farnux, 4/22, Tashkent 100000, Uzbekistan</p>
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4 bilateral agreements with the following consortium members were signed:

- *Sh. Ualikhanov Kokshetau State University, Kazakhstan;*
- *S. Seifullin Kazakh Agrotechnical University, Kazakhstan;*
- *Engineering Consulting and Management for Space Technologies GmbH;*
- *Agricultural University of Plovdiv, Bulgaria.*

Project activities & results

WP5 Management



The Regulation of the PASO

ТАШКЕНТСКИЙ ИНСТИТУТ ИНЖЕНЕРОВ ИРРИГАЦИИ И МЕХАНИЗАЦИИ
СЕЛЬСКОГО ХОЗЯЙСТВА



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-
СВИН-JP «New and Innovative Courses for Precision Agriculture (NICoPA)»

Ташкент – 2019

1. ОБЩИЕ ПОЛОЖЕНИЯ

1.1. Настоящее Положение является внутренним нормативным документом Ташкентского института инженеров ирригации и механизации сельского хозяйства (далее Институт) и определяет цели, задачи, функции и деятельность Офиса услуг и знаний по точному сельскому хозяйству «Precision Agriculture Service Office» (PASO).

Положение 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-СВИН-JP)».

1.2. PASO является структурным подразделением кафедры «Геодезия и геоинформатика» факультета “Управление земельными ресурсами” Института.

PASO в своей деятельности руководствуется:

- Законами Республики Узбекистан;
- Положением кафедры «Геодезия и геоинформатика»;
- Настоящим положением.

1.3. 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.

1.4. 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.

1.5. Местоположение Офиса PASO: 100000, г. Ташкент, ул. Кары Ниязий, 39.

2. СТРАТЕГИЧЕСКАЯ ЗАДАЧА PASO

Создать условия для развития результатов проекта после его завершения и способствовать поступлению финансовых средств для поддержания и развития созданной проектом лабораторной базы.

3. ОСНОВНЫЕ ЗАДАЧИ PASO

3.1. Маркетинг потребностей в области повышения эффективности сельского хозяйства (повышения урожайности) и снижения вредного воздействия агроэкологий на окружающую среду и разработка соответствующих услуг и сервисов для различных заинтересованных 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 и изучение требований работодателей.

3.5. Изучение соответствия компетенций/навыков выпускников требованиям работодателей, информационная поддержка.

3.6. Периодическое проведение аудита Института на существующих учебных курсах с целью замены/обновления устаревших учебных программ и разработка новых.

3.7. Изучение потребностей промышленных предприятий в сервисном обучении персонала.

3.8. Поиск заинтересованных организаций и спонсоров.

3.9. Модернизация устаревшего сельскохозяйственного оборудования – для оснащения старой техники датчиками, системами навигации для улучшения работы.

4. ОСНОВНЫЕ ФУНКЦИИ PASO

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

4.1. Сотрудничество с высшими образовательными учреждениями, специализирующимися в подготовке кадров в 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.

4.5. Выявление и освоение технических новшеств, научных открытий и изобретений, передового опыта, способствующих улучшению по подготовке и повышению квалификации для сотрудников PASO.

4.6. Анализ, поиск, привлечение источников финансирования деятельности.

4.7. Осуществление в соответствии с законодательством Республики Узбекистан работы по комплектованию, хранению, учету и использованию архивных документов, образовавшихся в ходе деятельности PASO.

4.8. Организация инженерно-технических работ по запросу/аказу заинтересованных лиц/организаций.

4.9. 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 Института, 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 Консерт (www.nicopa.eu) членами рабочей группы проекта NICoPA: Абдурахманов И.И., Рейсов М.П., Ж.Низов.

Координатор проекта

Абдурахманов И.И.

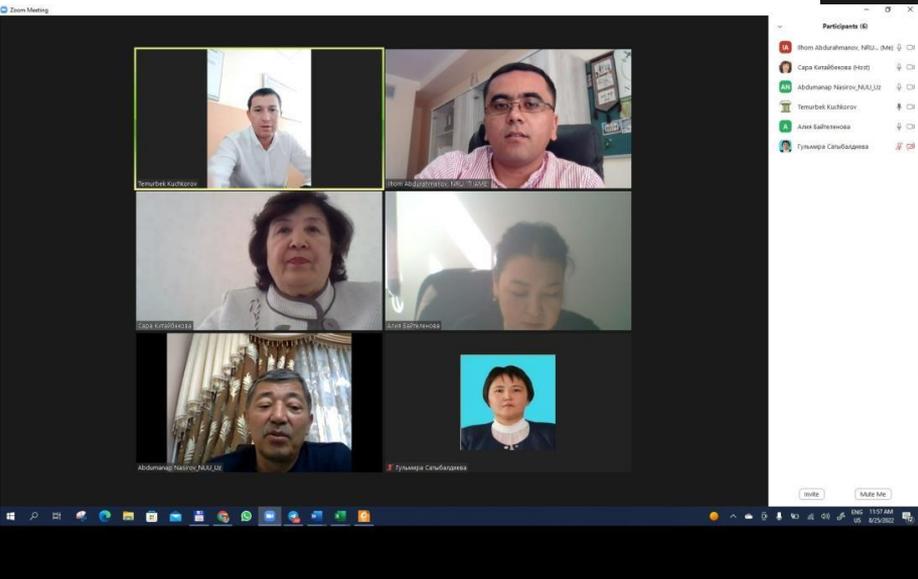
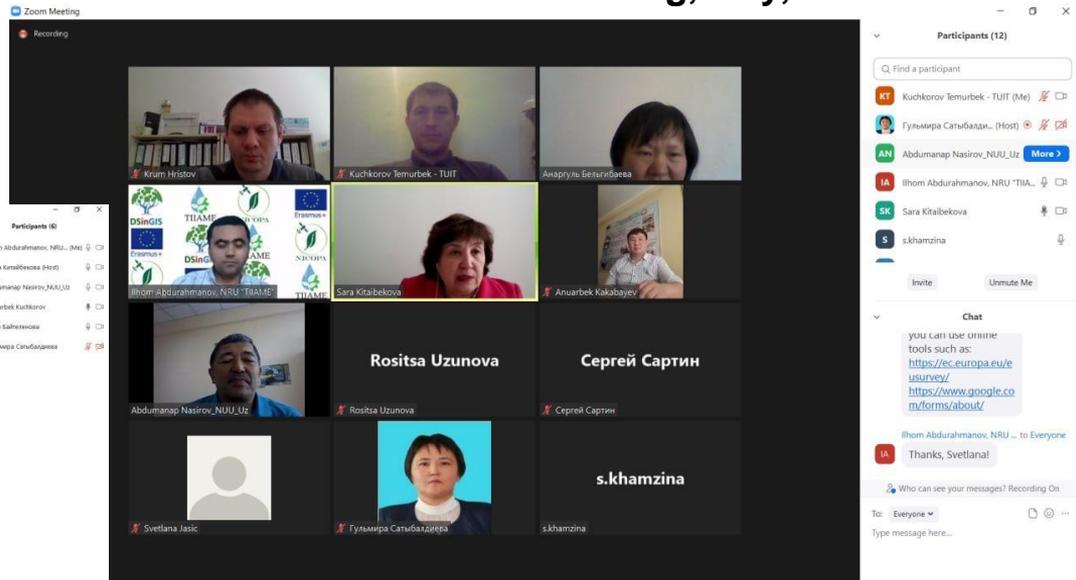
Project activities & results

WP5 Management

Coordination meetings

Coordination meeting, May, 2022

Final conference discussion, August, 2022





Thank you for your attention!