Dissemination Report 2-year

## New and Innovative Courses for Precision Agriculture







TASHKENT UNIVERSITY OF INFORMATION TECHNOLOGIES NAMED AFTER MUHAMMAD AL-KHWARIZMI,

FACULTY OF COMPUTER ENGINEERING

Local coordinator: Temurbek Kuchkorov





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### News

23.06.2020 -

### The new master program has opened in TUIT based on NICoPA project of Erasmus+ program

Based on the project of Erasmus+ program "New and innovative courses for precision agriculture - NICoPA" (2018-2021) has opened a new master program "Geoinformation systems and technologies" in Tashkent university of information technologies named after Muhammad al-Khwarizmi from the 2020/2021 academic year. Prospective masters will study on modern curriculum which is developed in collaboration with highly experienced European 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 and other subjects are included in the curriculum.

It is planned opening the new PAL (Precision Agriculture Lab) laboratory for master students to study modules and conduct their researches effectively using modern hardware and software tools.

## Dissemination plan (2020)



#### Dissemination plan (2nd year)

for result of European Program Erasmus+ Project by 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP

New and Innovative Courses for Precision Agriculture (NICOPA) in TUIT

| № | Dissemination event   | Implementation date           |
|---|---|-------------------------------|
| 1 | Project activities announcement in web site of<br>university (tuit.uz) and social networks<br>(Telegram channel, Facebook)  | Regularly                     |
| 2 | Publication project related thesis in Republican<br>scientific and technical conference "The<br>importance of information and communication<br>technology in the innovative development of<br>the sectors of the economy" | March-April, 2020 y.          |
| 3 | Project dissemination in Éducational-<br>methodological council of TUIT   | August, 2020 y.               |
| 4 | Methodical seminar for teachers according to the pilot teaching   | August - September<br>2020 y. |
| 5 | Information about project achievements in<br>journal "Xabar" and publication paper (thesis)<br>in conference  | October-November, 2020<br>y.  |
| 6 | Explore the NICOPA project activities through social network  | Regularly                     |
| 7 | Providing meetings and roundtable discussions<br>with students, teachers and administrative<br>staffs   | Regularly                     |

Local project coordinator



T.Kuchkorov

| ]  | DISSEMINATION EVENTS-1 (THAT ARE NOT MENTIONED IN REPORT 12M/ FROM NOVEMBER 2019 TILL MAY 2020) |   |  |  |
|----|---|---|--|--|
| No | Question  | Answer  |  |  |
| 1  | How many dissemination events were conducted?   | 5   |  |  |
| 2  | How much and which new dissemination materials were produced (leaflets, brochures, flyers etc)? | "Implementation NICoPA with new Master Program in TUIT" titled leaflet is under the process (September 2020). |  |  |
| 3  | Report on the dissemination of<br>the information about the<br>project in mass media            | https://drive.google.com/drive/folders/1yWBHN54P_gKUaF<br>LtXN3XRI5zSLNJ9NU3                                  |  |  |
| 4  | Planned dissemination activities  | https://drive.google.com/drive/folders/1yWBHN54P_gKUaF<br>LtXN3XRI5zSLNJ9NU3                                  |  |  |

| DI | DISSEMINATION EVENTS-2 (THAT ARE NOT MENTIONED IN REPORT 12M/ FROM NOVEMBER 2019 TILL MAY 2020) |   |   |                        |  |  |
|----|---|---|---|------------------------|--|--|
| N₂ | Date  | Title   | Target Audience<br>(list of target<br>groups)     | Number of participants | Is there a press<br>release of the event<br>(YES/NO), If YES,<br>provide it2 |  |
| 1  | 23.06.2020  | Department<br>meeting for<br>2019/2020<br>teaching year<br>report | Professors of<br>"Computer systems"<br>department | 20                     | Protocol #27   |  |
| 2  | 24.06.2020  | "Opened new<br>master program<br>in TUIT"                         | Students and<br>Teachers,<br>Administrative staff | 2,658<br>subscriber    | Telegram channel "TATU   Rasmiy kanal" - https://t.me/tuituz_o fficial       |  |
| 3  | 24.06.2020  | "Opened new<br>master program<br>in TUIT"                         | All type of users                                 |                        | Official web sites:  http://tuit.uz http://mitc.uz http://qalampir.uz        |  |

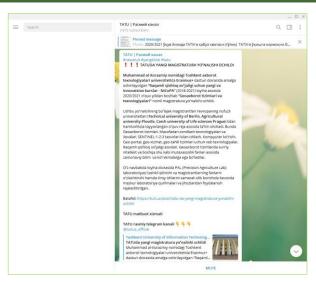


## Schedule of dissemination events (2020)

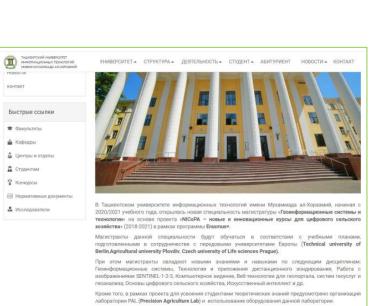
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| 7 | Providing meetings and roundtable discussions with students, teachers and administrative staffs   | Regularly                  |



# Dissemination (in social network and internet) - 2020



https://t.me/tuituz\_official



https://tuit.uz/post/tatu-da-yangi-magistraturayonalishi-ochildi



ТАТУда янги магистратура йўналиши очилди

https://qalampir.uz/news/tatuda-yangi-magistraturavunalishi-ochildi-22270

кўникмаларга эга бўлишади.

## Dissemination (Meeting of "Computer systems" department Development syllabi for modules of new Master program (Protocol #27, 23.06.2020))

Мухаммад ал-Хоразмий номидаги
Тошкент Ахборот Технологиялари Университетининг
Компьютер инжиниринги факултети
«Компьютер тизимлари» кафедраси профессор – ўкитувчилари
йигилишининг 27 – сонли баённомасидан

КЎЧИРМА

Тошкент ш.

23.06.2020 й.

#### **КАТНАШДИЛАР:**

Раис: кафедра мудири т.ф.д. Джуманов Ж.Х.

Профессор-ўкитувчилар: Профессор М.Мусаев, доцент III.Н.Акбарходжаев, доцент З.З.Мирюсупов, доцент А.А.Каххоров, доцент А.Б.Якубов, доцент А.И.Назаров, доцент Ф.Рахматов, доцент (PhD) Т.Кучкаров, доцент Ф.Рахматов, доцент (PhD) М.Рахимов, доцент (PhD) З.Алламуратова, катта ўкитувчи К.Э.Шукуров, катта ўкитувчи Н.А.Сайфуллаева, ассистент Н.С.Атаджанова, ассистент У.Берданов, ассистент М.Очилов, ассистент Н.Мирзанова, ассистент С.Ибрагимова, ассистент С.Довлетова, таянч докторант И.Хужаяров, таянч докторант М.Абдуллаева, жами 21 га

#### ТУРЛИ МАСАЛАЛАР:

 5АЗ30205 – Геоахборот тизимлари ва технологиялари мутахассислиги бўйича 1 ва 2 курс магистрлар учун ўтиладиган фанларга намунавий фан дастури, ишчи дастур ва силлабусларни тайёрлаш мухокамаси.

#### эшитилли:

Шу масала юзасидан т.ф.д., проф. Ж.Джуманов сўзга чикиб, "Компьютер тизимлари" кафедрасида Етазшы» дастурининг "NІСоРА" лойихаси доирасида янги магистратура 5А330205 — Геоахборот тизимлари ва технологиялари мутахассислиги очилганлиги хакида гапирди ва янги мутахассислик учун зарур бўлган хужжатлар (малака талаблари, ўкув режа, асоснома, солиштирэма тахдил ва х.к.) ўз вактида ўкув бўлимига топширылганлигини хам таъкидлаб ўтди. 5А330205 – Геоахборот тизимлари ва технологиялари мутахассислиги бўйича 1 ва 2 курс магистрлар учун ўтиладиган фанлар, фан учун масьул ўкитувчилар билан таништирди (1-жадвал).

| Ne | Фан номи  | Блок номи ва<br>семестр | Масьул<br>ўкитувчи            | Ассистент   |
|----|---|-------------------------|-------------------------------|---|
|    | II  | 1-кур                   | e                             |   |
| 1  | Геоахборот тизимлари ва<br>иловаларни ишлаб чикиш     | 1-семестр               | Джуманов Ж.Х.                 | Алламуратова З.Ж.<br>Зохиров К.И.<br>Мирзанова Н.М. |
| 2  | Satellite image processing                            | 1-семестр               | Кўчкаров Т.А.                 | Алламуратова З.Ж.                                   |
| 3  | Remote Sensing Technologies<br>and Applications       | 2-                      | Джуманов Ж.Х<br>Кўчкаров Т.А. | Алламуратова З.Ж.                                   |
|    | ***************************************               | 2-кур                   | e                             | ,   |
| 4  | Сунъий интеллект ва нейрон<br>тармоклари              | 3-семестр               | Мусаев М.М.                   | Кўчкаров Т.А.<br>Рахимов М.Ф.                       |
| 5  | Web technologies for geo-<br>portals and geo-services | 3-семестр               | Кўчкаров Т.А.                 | Рахимов М.Ф.  |



Шунингдек, асосий фанлар учун намунавий фан дастури яратиш, намунавий фан дастурита мувофик ишчи дастурлар килиш лозимлиги, хар бир ишчи дастурлар асосида силлабуслар тайёрланиши зарурлиги айтилди. Уз навбатида хар бир фан дастури учун ички ва ташки такризларни олиш лозимлигини хам айтиб ўтди.

#### КАРОР КИЛИНЛИ:

 Янги ўкув йили учун 5А330205 — Геоахборот тизимлари ва технологиялари мутахассислиги бўйича 1 ва 2 курс магистрлар учун ўтиладиган фанлардан намунавий дастур, ишчи дастур ва силлабуслар тайёрлансин (1-жадвал).

Мажлис раиси

Котиба

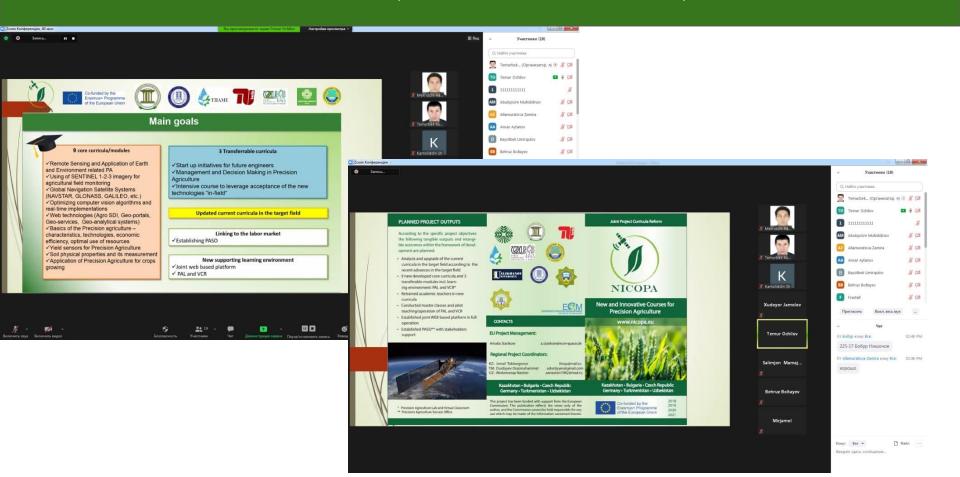


Джуманов Ж.Х.

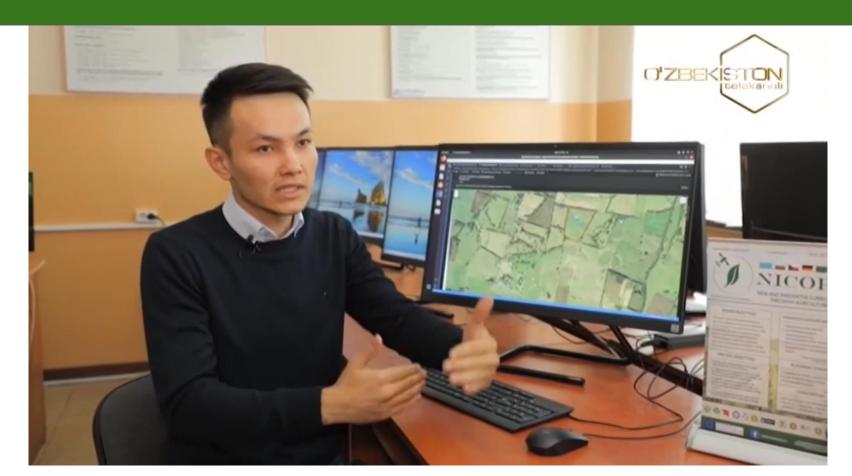
Атаджанова Н.С.



## **Dissemination (Sceintific conference) - 2021**



## Dissemination (in TV Channel, O'zbekiston) - 2021



# Dissemination (Project Interview for Media Center of University) - 2021



# PASO (Precision Agriculture Service Office) Activities/Training





### **PASO training:**

Title: Education & Industry with PASO

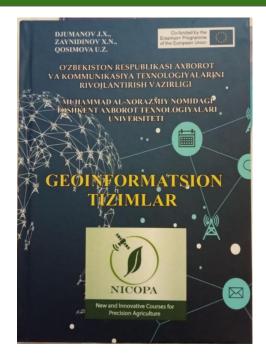
Date: September, 2022 Number of students: 28

Faculty: Computer engineering

## Summer School in Life science university in Prague (July, 2022)



## **Development of teaching materials**



Manual for subject "Geoinformation systems" 2022



Monography
"Mathematical modeling of geofiltration processes of hydrogeological systems"
2021



Methodological instruction for practical exercise "Satellite image processing" 2021









## Thank you for you attention!



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