Kick-Off Meeting
Berlin
4-5 March 2019

New and Innovative Courses for Precision Agriculture







NATIONAL UNIVERSITY OF UZBEKISTAN NAMED AFTER MIRZO ULUGBEK

Dr. RASUL RAKHMONOV

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



1918 – Turkestan People's University 1920 – Turkestan State University 1923 – Central Asian State University 1960 -Tashkent State University 2000 – National University of Uzbekistan





Scientific research institution

Kizilkum Oyokgetma science research station(1931)

Agricultural and geobotanic

Pamir biostation science research institute(1931)

Central Asian geologic research Institute (1931) Tashkent

Mechanic-mathematician SRI (1941)

Chemical SRI (1943)

Geology-geography SRI (1943)

Biology SRI (1943)

History-philology SRI (1943)

Botanic SRI ()1943

Uzbekistan Academy of Science (1943)



THE GENEALOGIC TREE OF NATIONAL UNIVERSITY OF UZBEKISTAN



Universities

Tashkent State Institute of oriental languages(1991)

Tashkent State institute of Law (1991)

Kazakh high pedagogic educational Institute (1925) Tashkent

Tajik agronomy institute (1925) Dushanbe

Tajik rural agricultural institute (1931) Hojand

Turkmen zooveterinary institute (1930) Ashhabat

Tajik high educational institute (1932) Hojand

Central Asian cotton deal institute (1929) Tashkent

Central Asian silk institute (1931) Tashkent

Central Asian medical institute (1931) Tashkent

Central Asian Plan Institute (1931) Tashkent

Samarkand State University (1933) Samarqand

Tashkent state Pedagogic Institute (1935)

Turkistan East Institute (1918)
Tashkent







Rare objects - 2



Museums – 5



11 000 students



Library – 3,5 mln books and magazines



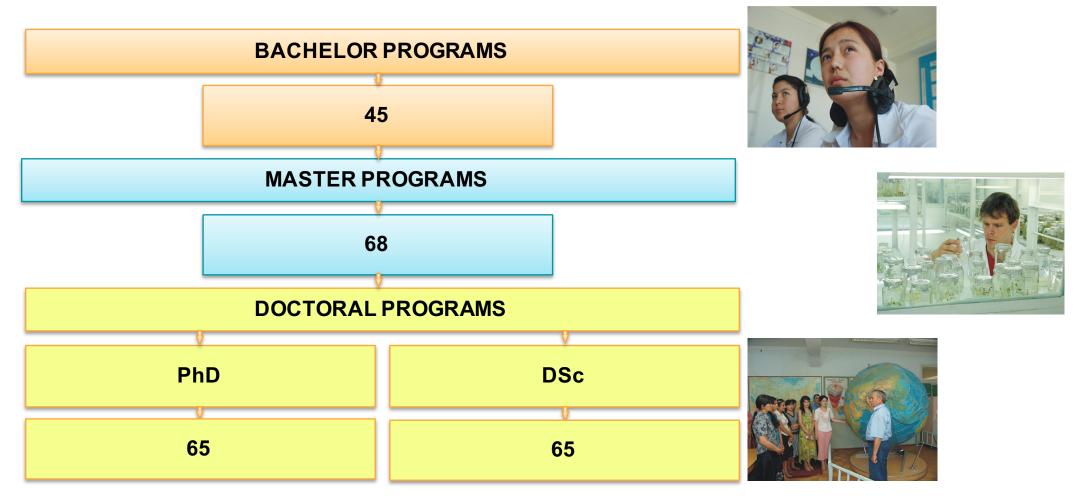
Lyceums – 2

professors - 1000

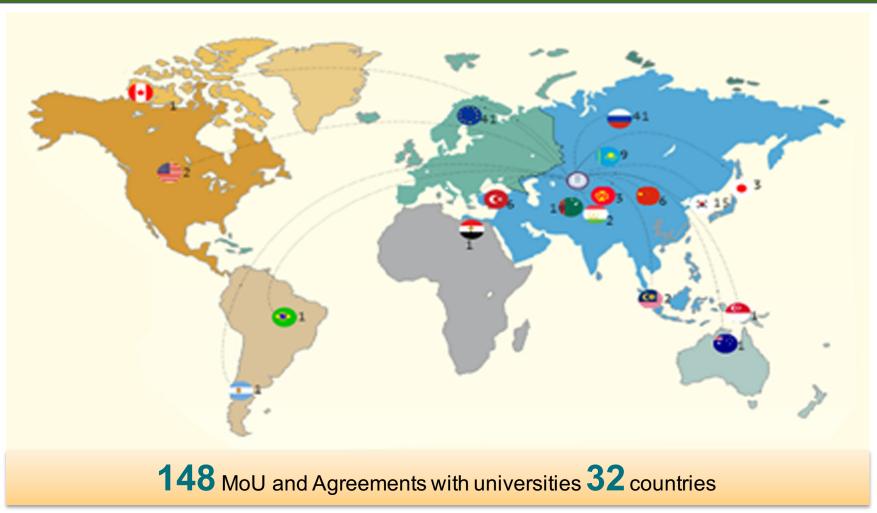
academicians -34;

Doctors Sc. - 189; PhD - 363











JOINT FACULTY AND DOUBLE DEGREE PROGRAMS

Present



NUU-MSU Scientific Educational Center, Training Center of Russian Language and Russian History, Law



Uzbek-Israel joint faculty of Innovational Technologies and Mathematic engineering with HIT



Joint Bachelor and Master Program with KFU: Cartography and Geoinformatics, Economic and Social Geography



Joint department with Moscow Timiryazev Agricultural Academy: Soil Sciences









Near Future

Joint Master Program with MSU: Psychology, Sociology, Geodesy and Geodinamics

Joint Master Program with HIT: Digital Medicine

Joint Master Program with KFU: Bioinformatics and Molecular Biology

Joint Master Program with CBNU: Neurocomputing, Smart Management Systems



University Profile: Faculties







Faculties Participating in the Project

Faculty of Physics

Department of Semiconductors and Polymers Physics

Department of Astronomy and Atmospheric physics Faculty of Geography and Natural Resources

Department of Geodesy and Geoinformatics

Department of Cartography

Faculty of Biology

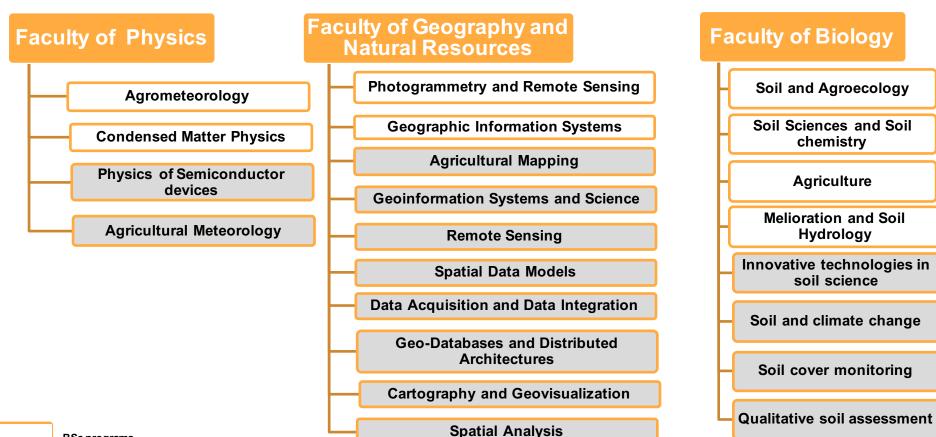
Department of Soil sciences



BSc programs

MSc programs

BA/MA Programs Offered by the Faculties

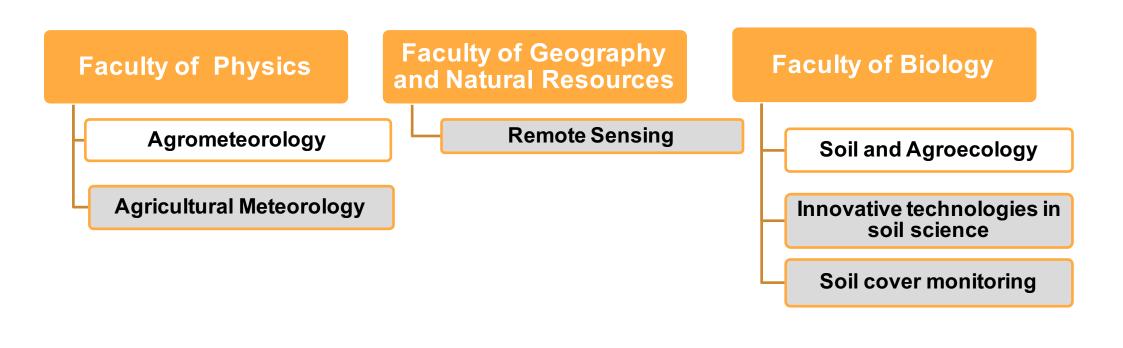




BSc programs

MSc programs

Curricula/Modules Studied in the BA/MA Programs to Upgrade





New Curricula/Modules for BA/MA Programs

Faculty of Physics

Basics of the Precision agriculture

– characteristics, technologies,
economic efficiency, optimal use
of resources

Yield sensors for Precision Agriculture

Soil physical properties and its measurement

BSc programs

MSc programs

Faculty of Geography and Natural Resources

Remote Sensing and Application of Earth and Environment related PA

Using of SENTINEL 1-2-3 imagery for agricultural field monitoring

Global Navigation Satellite Systems (NAVSTAR, GLONASS, GALILEO, etc.)

Optimizing computer vision algorithms and real-time implementations:

Faculty of Biology

Basics of the Precision agriculture – characteristics, technologies, economic efficiency, optimal use of resources

Soil physical properties and its measurement

Application of Precision Agriculture for crops growing



Working Group of the Project NICOPA

No.	Name; email	Role in project	Position
1.	Abdumanap Nasirov aanasirov1962@mail.ru	National Coordinator and contact person of the project (WP1.2 Preparation, WP2.1, 2.2, 2.3, 2.5, 2.6 Development, WP3.1 Quality, WP4.1, 4.3, 4.4, 4.5, 4.6 Dissemination, WP5.1, 5.2 Management)	Associate Professor, Head of Department of Semiconductors and Polymers Physics
2.	Rasul Rakhmonov rrakhmonov@nuu.uz	Administrative Staff (WP1.2 Preparation, WP4.1, 4.2, 4.6 Dissemination, WP 5.2 Management)	Vice-rector for International Relations
3.	Tulkin Abdullaev <u>t.abdullaev@inbox.ru</u>	Project Advisor (WP3.1 Quality, WP4.4 Dissemination)	Associate professor, Department of Geodesy and Geoinformatics
4.	Tokhtasin Abdrakhmonov soilecology@yandex.ru	Academic leader (WP1.1, 1.2. Preparation, WP2.1, 2.3, 2.4 Development, WP3.1 Quality, WP4.5 Dissemination)	Dean of the faculty Biology and Soil Sciences
5.	Mashkura Fakhrutdinova mashkura.fakhrutdinova@mail.ru	Researcher (WP1.1, 1.2. Preparation, WP2.1, 2.3, 2.4 Development, WP3.1 Quality, WP4.5 Dissemination)	Associate professor, Department of Soil Sciences
6.	Pavel Parchinskiy pavelphys@mail.ru	Researcher (WP1.1, 1.2. Preparation, WP2.2, 2.4 Development, WP3.1 Quality, WP4.4, 4.5, 4.6 Dissemination)	Associate professor, Department of Semiconductors and Polymers Physics
7.	Ilkhomjon Abdullaev ilkhomjon.abdullaev@gmail.com	Project Manager (WP1.1, 1.2 Preparation, WP2.1, 2.2, 2.3, 2.4, 2.5, 2.6 Development, WP3.1 Quality, WP4.3, 4.4, 4.6 Dissemination, WP5.1, 5.2 Management)	Associate professor, Department of Geodesy and Geoinformatics
8.	Bakhtiyar Kholmatjanov b.kholmatjanov@gmail.com	Researcher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP3.1 Quality, WP4.1, 4.2, 4.3, 4.4, 4.5 Dissemination)	Associate professor, Department of Astronomy and Atmosphere Physics
9.	Azizjon Ruziev azizjon.ruziev84@gmail.com	Teacher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP4.6 Dissemination)	Senior Lecturer, Department of Geodesy and Geoinformatics
10.	Abdujalil Muminov mominov010@gmail.com	Teacher (WP1.1, 1.2. Preparation, WP2.1, 2.2, 2.4, 2.5, 2.6 Development, WP4.2, 4.3 Dissemination)	Teacher, Department of Cartography
11.	Bekzod Rakhmonov bekzod 13@bk.ru	Technical Staff (WP2.2, WP4.1, 4.3 Dissemination;	Accountant



Work Plan of the University (1)

WP	Activities	Start	End
WP 1.1	Review of the current curricula for BA/MSc in target area in PC HEIs.	15.11.2018	30.04.2019
WP 1.2	Agreement on instructional strategy and guidelines for BA/MSc curricula design including the use of new Educational Technologies	15.11.2018	31.03.2019
WP 2.1	 a) Prepare a set of new core curricula and transferable modules inclusive innovative teaching/learning facilities; develop syllabi; b) adopt on institutional level c) accredit on national level 	a) 01.12.2018 b) 01.10.2019 c) 01.10.2020	b) 30.09.2020
WP 2.2	a) Prepare a set of documentation for PAGIS and VCR;	a) 01.02.2019	a)30.09.2019
VVP 2.2	b) purchase the equipment incl. software; install the equipment	b) 01.03.2019	b)30.01.2020
WP 2.3	 a) Casting criteria for participants and retraining program for academic teachers. b) Retrain academic teachers in new curricula using innovative teaching/ learning facilities and agreed instructional strategies 	a)01.01.2019 b)01.09.2019	a)30.03.2019 b)31.08.2020
WP 2.4	To update the current BA/MSc curricula/create updated programs in the target area according to the Bologna requirements and the new developments	01.04.2019	30.09.2020



Work Plan of the University (2)

WP 2.5	Master Classes in new curricula /pilot operation of PAL and VCR	01.09.2020	30.04.2021
WP 2.6	Pilot teaching/operation of PAGIS and VCR	01.08.2020	14.11.2021
WP 3.1	The Quality assurance strategy/Q Plan of each PC university including internal/external Quality evaluation/reports according to Q Plan	15.11.2018	14.11.2021
WP 4.1	Project DISS& EXP /communication plan using a Set of Promotional Materials; Dissemination Events, Joint WEB based platform, "NICOPA+" Agreement	15.11.2018	14.11.2021
WP 4.2	Full media coverage of the project activities inclusive developing and maintenance of Joint WEB based platform	15.11.2018	14.11.2021
WP 4.3	Develop a set documentation on PASO with stakeholders support /purchase /install equipment /establish	01.02.2019	30.04.2020
WP 4.4	Staff training for PASO, establishing Regional /International PASO network, pilot operation	01.04.2020	30.09.2021
WP 4.5	Refresh training courses for graduates in PASO	01.09.2020	31.07.2021
WP 4.6.	International BA/ MSc Summer Schools	01.04.2020	31.04.2021
WP 5.1.	Management of the project including Project management online, daily project administration and coordination	15.11.2018	14.11.2021
WP 5.2.	Coordination meetings	15.11.2018	14.11.2021







Thank you for you attention!

Dr. RASUL RAKHMONOV
Vice-rector for International Relations

rrakhmonov@nuu.uz

