Periodical Report 6 Months of project implementation





New and Innovative Courses for Precision Agriculture



Turkmen State Architecture and Construction Institute

Work plan

ERASMUS+



HIGHER EDUCATION CAPACITY BUILDING

Erasmus+ Project

New and Innovative Courses for Precision Agriculture (NICOPA)

Information Management Package

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TÜRKMENISTANYŇ BILIM MINISTRLIGI TÜRKMEN DÖWLET BINAGÄRLIK-GURLUŞYK INSTITUTY

AÝARYN»
binagärlik-gurluşyk
yň rektory
B.Atamanow
2019 ý.

2018-2021-nji ýyllarda "New and Innovative Courses for Precision Agriculture (NICOPA)" tsalamasyny amala aşyrmak boýunça geçirilmeli çäreleriň

MEÝILNAMASY

№	Geçirilmeli çäreler	Taslamanyň iş meýilnamasyna salgylanma	Yerine ýetirilmeli möhleti	Düşündiriş
1	Türkmen döwlet binagärlik-gurluşyk institutynda taslamany durmuşa geçirmek boyunça iş meyilnamasyny tayyarlamak	1.1-5.2	15.12.2018	Taslamanyň meýilnamasyny tassyklamak we agzalaryň jogapkärçiliklerini kesgitlemek bilen iş toparyny döretmek
2	Kämilleşdirmek we okuw işine ornaşdyrmak üçin okadylyan derslerin sanawyny düzmek. Ugur: 2.08.0000. Gurluşyk tehnikasy we tehnologiyasy Hünär: 2.08.05.15.Amaly geodeziya	1.1	20.12.2018	Dersleriň sanawy: 1. Radioelektronika; 2. Metrologiýa we stadartlaşdyrma; 3. Geodizik abzallary; 4. Geodezik ölçenmeleriniň netijilerini hasaplama nazaryýeti; 5. Geodezik iastronomiýa; 6. Fotogrammetriýa; 7. Kartografiýa; 8. Geoinformasiýa ulgamlary; 9. Yer aralykdan öwrenmek; 10. Inžener geodezik gözlegler; 11. Kosmik geodeziva.

Recommendations and informational materials regarding implementation of project activities according to the Bologna Process principles and guidelines of European Education, Audiovisual and Culture Executive Agency



Work group

No	Name, Surname, email	Position	Responsibility (WP, tasks according to the work plan)
1 co- ordinator	Myradov Yolly	Dean of the Faculty of Economics and Management	yolly1605tm@mail.ru
2	Atageldi Garajayev	Head of the department "Road construction"	ata8984@mail.ru/ alyhan2019@hotmail.com
3	Bendov Maksatguly	Head of the department "Computer Technologies"	bent@yandex.com
4	Bashimov Polat	Head of the department "Geodesy"	
5	Annayeva Guncha	Teacher of the department "Geodesy"	buton-annayeva@rambler.ru
6	Charyyeva Saadat	Teacher of the department "Geodesy"	
7	Nurgeldiyev Perman	Teacher of the department "Computer Technologies"	permannur@gmail.com

Name of the course to be upgraded	1. Radio electronics	2. Metrology and standardization	3. Geodysic equipment	4. The calculated theory of the results of geophysical measurements	5. Geodysic astranomy	6. Photogrammetry	7. Cartography	8. Geoinformation systems	9. Inter-Earth Iearning	10. Engineering geodetic studies	11. Space geodesy
Person/teac her/departm ent/faculty responsible for the course upgrade	Bashimov Polat Bendov Maksatguly	Bashimov Polat Myradov Yolly	Bashimov Polat Nurgeldiyev Perman	Annayeva Guncha Atageldi Garajayev	Bashimov Polat Annayeva Guncha	Charyyeva Saadat Bashimov Polat	Annayeva Guncha	Annayeva Guncha Bendov Maksatguly	Charyyeva Saadat Bashimov Polae	Charyyeva Saadat Bendov Maksatguly Bashimov Polat	Charyyeva Saadat Bashimov Polat

In order to update current courses, an approach based on learning outcomes has been chosen. The following stages are distinguished: organizational (preparatory); study requirements for graduates; analysis of research results, development of recommendations; approval of updates; analysis of the results of the implementation of updates, development of recommendations for correction.

At the organizational stage, an update schedule has been drawn up. The study of requirements for graduates is based on identifying the need for changes in programs by the questionnaire method. Analysis of the results of the study is based on a qualitative analysis, systematization and generalization of the responses of the questionnaires. As a result of information processing, the formation of new competencies is possible.

Name of the course to be upgraded	Person/teacher/department/fa culty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
Radio electronics	Bashimov Polat Bendov Maksatguly	Modern digital electronic devices, their features. The role of satellite radio navigation systems in creating a planning-high-altitude base	04.2020
Metrology and standardization	Bashimov Polat Myradov Yolly	Innovative methods of rationing geodetic works and the creation of a single local coordinate system taking into account international standards	04.2020
Geodysic equipment	Bashimov Polat Nurgeldiyev Perman	Technology for processing data from geodetic instruments to determine deformations in buildings and structures under construction. Classification of geodetic software by scope and structural elements	04.2020

Name of the course to be upgraded	Person/teacher/department/fa culty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
The calculated theory of the results of geophysical measurements	Annayeva Guncha Atageldi Garajayev	Modern methods of leveling and assessing the accuracy of geodetic networks. The use of computer programs in the processing of geodetic measurements	04.2020
Geodysic astranomy	Bashimov Polat Annayeva Guncha	Mathematical processing of the results of approximate astronomical observations. Modern tools used in geodesic astronomy and their design features	04.2020
Photogrammetry	Charyyeva Saadat Bashimov Polat	Characteristics of digital photogrammetric systems. Application of modern photogrammetry methods in construction work, in the study of deformations of structures and building materials	04.2020

Name of the course to be upgraded	Person/teacher/department/fa culty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
Cartography	Annayeva Guncha	Methodology for creating digital models of geographical maps and plans. Possibilities for applying the results of geodetic calculations to an electronic map	05.2020
Geoinformation systems	Annayeva Guncha Bendov Maksatguly	Features of the use of applied GIS programs and vectorizer programs in the management of construction and transport works. Using GIS for spatial modeling and visualization of various types of data	05.2020
Inter-Earth learning	Charyyeva Saadat Bashimov Polae	The possibility of creating a network of differentiated stations using satellite technology for engineering and geodetic surveys	05.2020

Name of the course to be upgraded	Person/teacher/department/fac ulty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
Engineering geodetic studies	Charyyeva Saadat Bendov Maksatguly Bashimov Polat	Analysis of modern methods for thickening the reference geodetic network at the construction site. Innovations in geodetic research on the deformation of structures and roads	06.2020
Space geodesy	Charyyeva Saadat Bashimov Polat	Using the results of space research to create integrated information management systems. Analysis of innovative methods of space geodesy for earthquake-resistant construction of buildings and structures	06.2020



Criteria for teacher selection for trainings

When selecting teachers, it is necessary to consider:

- ✓ The candidate must comply with the direction and educational complex;
- ✓ Work experience of at least 3 years;
- ✓ Basic education in the field of Surveying and Information Technology;
- ✓ Computer literacy;
- ✓ Motivation (application of acquired knowledge in practice)
- Specialist in the development of educational modules / disciplines, who will be responsible for the analysis, updating and development of educational modules at the university.





Teacher that will develop new courses

- **1. Bashimov Polat** Head of the department "Geodesy"
- 2. Myradov Yolly Head of educational department, 15 years experience in international projects. Knowledge of computer technology, training platforms in the construction industry, head of the department of road construction, work with graphics. Successful participation in international projects: the TEMPUS project (development and implementation of an eLearning quality management system in Central Asian universities); project TEMPUS (development and implementation of the specialty Energy Management on the basis of blended learning in universities of Kazakhstan and Turkmenistan).
- 3. Atageldi Garajayev Head of the department "Road construction", 9 years experience in international projects. Knowledge of computer technology, training platforms in the construction industry, head of the department of road construction, work with graphics. Successful participation in international projects: the TEMPUS project (development and implementation of an eLearning quality management system in Central Asian universities); project TEMPUS (development and implementation of the specialty Energy Management on the basis of blended learning in universities of Kazakhstan and Turkmenistan).

Equipment & Software

Equipment/ Software	Name of the person(s) responsible for the equipment/software installation	Occupation of the responsible persons	Contact information of the responsible persons
	Annovova Cuncha	Teacher of the department	<u>buton-</u>
Equipment	Annayeva Guncha	"Geodesy"	annayeva@rambler.ru
Lquipinient	Bashimov Polat	Head of the department	
	bashimov Polat	"Geodesy"	
	Atageldi Garajayev	Head of the department	ata8984@mail.ru/
	Alagelui Garajayev	"Road construction"	alyhan2019@hotmail.com
	Bendov Maksatguly	Head of the department	bent@yandex.com
Software	Dendov Maksalgury	"Computer Technologies"	<u>bent@yandex.com</u>
	Nurgeldiyev Perman	Teacher of the department "Computer Technologies"	permannur@gmail.com



Dissemination plan

- 1. Project Responsibilities
 - Y. Myradov
 - A. Garajaev
 - M. Bendov
- Review and preparation of materials for project coordination meetings;
- 3. Speeches by the project coordinator on the work done at the academic council of the institute;
- Development of a project work plan;
- 5. Work with the Department of Geodesy (teaching staff and students);
- 6. Conducting a survey;
- 7. Dissemination of project information at the institute
- 8. Meetings with national and partner institutions and discuss the status of the project;
- 9. Organization of trainings and seminars for employees of the institute;
- 10. Work with the public;
- 11. Conducting a meeting with university project staff.





Open Day. Meetings of schoolchildren with employees of the institute were held: Y. Myradov talks about international projects.













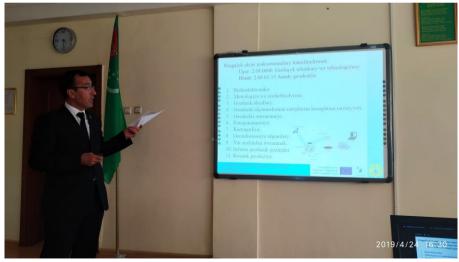
Conducting a meeting with university project staff





Scientific Council of the Turkmen State architecture and construction institute: Speech by Y. Myradov on the first coordination meeting held in March 2019 at the Technical University of Berlin, Germany, talks about international projects.





Questionnaire for students

This questionnaire is one of the methods of monitoring the quality of educational activities in accordance with the developed program of action for the project "NICOPA-new and innovative training programs for precision agriculture".

Object conducted questionnaire are students TSACI all specialties faculty road construction 1-3-th courses.

The subject of the survey is the quality of higher specialized technical education.

The purpose of the questionnaire is to clarify and analyze the opinions of students about the quality of specialized education in the university in which they study.

The objectives of the survey are:

- ✓ identify the main factors that positively affect the quality of education at the institute;
- ✓ to find out the students opinion on suitability in the future in the production of knowledge obtained at the TSACI;
- ✓ to find out how students evaluate the educational process of their graduating department;
- ✓ to find out how, in the students opinion, the "NICOPA" project can affect the quality education at TSACI.

Questionnaire for students

Conclusion on the report

Most survey participants are generally satisfied with the quality of education received. This shows that the educational process and everything connected with it meets the requirements for educational services in general. However, on the basis of the studies, problems related to technical equipment and organizational issues regarding the library's work were identified. In the future, the actual direction is the development of a set of measures to improve the infrastructure of a higher educational institution.



Quality Assurance Plan

Name, Surname	Occupation	Organization	Contact info (email)
Myradov Yolly	Dean of the Faculty of Economics and Management	TSACI	yolly1605tm@mail.ru
Atageldi Garajayev	Head of the department "Road construction"	TSACI	ata8984@mail.ru/ alyhan2019@hotmail.com
Bendov Maksatguly	Head of the department "Computer Technologies"	TSACI	bent@yandex.com
Bashimov Polat	Head of the department "Geodesy"	TSACI	



Quality Assurance Plan

The Plan provides for two types of procedures:

- carrying out the procedure with the evaluation of work by external experts;
- > carrying out the procedure with an assessment of the work within the educational organization.

Main functions:

- ✓ execution control;
- conformity control of the results of mastering basic educational programs;
- ✓ identification of inconsistencies, deficiencies and violations;
- ✓ preparation of proposals for the adoption of measures aimed at the prevention, suppression and elimination of violations;
- ✓ monitoring of the implementation of the elimination of identified violations;
- √ information support of educational control activities;
- ✓ participation in activities related to issues related to the project.





PASENSO

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Turkmen state architecture and construction institute school of economics and business



PASENSO

Turkmen state architecture and construction institute school of economics and business

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Thank you for you attention!



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