

Final Report Nicopa

New and Innovative Courses for Precision Agriculture



Turkmen State Architecture and Construction Institute

Y. Myradov, TSACI.
2022 y.

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

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



Work plan

ERASMUS +

HIGHER EDUCATION CAPACITY BUILDING



Erasmus+ Project

**New and Innovative Courses for Precision Agriculture
(NICOPA)**

Information Management Package

TÜRKMENISTANYŇ BILIM MINISTRLIGI
TÜRKMEN DÖWLET BINAGÄRLIK-GURLUŞYK INSTITUTY

«TASSYKLAÝARYN»
Türkmen döwlet binagärlik-gurluşyk
institutyň rektory
B. Atamanow
"___" _____ 2019 ý.

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

ME Ý I L N A M A S Y

№	Geçirilmeli çäreler	Taslamanyň iş meýilnamasyna salgylanma	Yerine ýetirilmeli möhleti	Düşündiriş
1	Türkmen döwlet binagärlik-gurluşyk institutynda taslamany durmuşa geçirmek boýunça iş meýilnamasyny taýýarlamak	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 okadylýan dersleriň sanawyny düzmek. Ugur: 2.08.0000. Gurluşyk tehnikasi we tehnologiýasy Hünär: 2.08.05.15.Amaly geodeziýa	1.1	20.12.2018	Dersleriň sanawy: 1. Radioelektronika; 2. Metrologiýa we stadartlaşdyрма; 3. Geodizik abzallary; 4. Geodizik ölçemleriniň netijelerini hasaplama nazaryýeti; 5. Geodeziki astronomiýa; 6. Fotogrammetriýa; 7. Kartografiýa; 8. Geoinformasiýa ulgamlary; 9. Yer aralykdan öwrenmek; 10. Inžener geodezik gözlegler; 11. Kosmik geodeziýa.

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
1	Myradov Yolly	Head of educational department
2	Atageldi Garajayev	Head of the department "Road construction"
4	Bashimov Polat	Teacher of the department "Geodesy"
5	Charyyeva Saadat	Teacher of the department "Geodesy"
6	Remezhanov Ylyas	Head of the department "microelectronics and measuring technology"
7	Annaberdiyev Kerim	Teacher of the department "Computer Technologies"



Work group



NEW/UPDATE COURSES

Table 2.1.1. UPDATED COURSES

Course №	Title of the course and in which program it is taught 5 years system	Its volume in hours	Number of students participating in the course	Name new elements in the course and estimate the percentage they represent in relation to the preexisting course	Link to the course on the university page	Accreditation and recognition: Specify the date when the course was accredited in the curriculum and when the pilot teaching started
Course 1	Geoinformation	96	18	20% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 2	Engineering geodetic studies	72	18	15% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 3	Geodetic measurement theory of calculation of results	162	18	15% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 4	Geodesic astronomy	72	18	25% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 5	Cartography	172	18	20% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 6	Photogrammetry	204	18	20% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 7	Topography	96	18	20% content updates with new themes	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).



NEW/UPDATE COURSES

Table 2.2.2.NEW COURSES					
Course №	Title of the course and in which program it is taught 5 years system for TM	Its volume hours	Number of students participating in the course	Link to the course on the university page	Accreditation and recognition: Specify the date when the course was accredited in the curriculum and when the pilot teaching started
Course 1	Geodysic equipment	106	18	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 2	Space geodesy	108	18	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).



NEW/UPDATE COURSES

Table 2.2.2.NEW COURSES					
Course №	Title of the course and in which program it is taught 5 years system for TM	Its volume hours	Number of students participating in the course	Link to the course on the university page	Accreditation and recognition: Specify the date when the course was accredited in the curriculum and when the pilot teaching started
Course 1	Geodysic equipment	106	18	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).
Course 2	Space geodesy	108	18	tdbgi.edu.tm	The curriculum was discussed and approved by the Educational and Methodological Working Group of the Road Construction Faculty at the faculty meeting in July 2020 (Minutes No. 11).



NEW/UPDATE COURSES

“Tassykdaýaryn”
Türkmenistanyň Ministrler Kabinetiňiň
Başlygynyň Orunbasary P. Agamyrazadow
2019-njy ýylyň “26”



TÜRKMENISTANYŇ BILIM MINISTRRLIGI
TÜRKMEN DÖWLET BINAGÄRLIK-
GURLUŞYK INSTITUTY

OKUW MEÝILNAMASY

“Tassykdaýaryn”
Türkmenistanyň Ministrler Kabinetiňiň
Başlygynyň Orunbasary Ç. Purçekow
2019-njy ýylyň “26”



Ugur: 2.08.00.00. Gurluşygyň tehnikasy we tehnologiýalary
Hünär: 2.08.05.15. Amaly geodeziýa

Kär: geodeziýa inženeri

Okuwýä möhlet: 5 ýyl

Okuw ýyly	Sentyabr	Oktýabr	Noýabr	Dekabr	Ýanwar	Febral	Mart	April	Maý	Ýún	Ýul	Awgust
1	1 8 15 22	29 6 13 20	27 4 10 17 24	1 8 15 22	29 6 13 20	27 4 10 17 24	1 8 15 22	29 6 13 20	27 4 10 17 24	1 8 15 22	29 6 13 20	27 4 10 17 24
2	7 14 21 28	5 12 19 26	2 9 16 23 30	7 14 21 28	5 12 19 26	2 9 16 23 30	7 14 21 28	5 12 19 26	2 9 16 23 30	7 14 21 28	5 12 19 26	2 9 16 23 30
3	1 2 3 4	5 6 7 8 9	10 11 12 13 14	15 16 17 18 19	20 21 22 23 24	25 26 27 28 29 30 31	1 2 3 4	5 6 7 8 9	10 11 12 13 14	15 16 17 18 19	20 21 22 23 24	25 26 27 28 29 30 31
4	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
5	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
6	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
7	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
8	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
9	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
10	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
11	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
12	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
13	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
14	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
15	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
16	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
17	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
18	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
19	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
20	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
21	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
22	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
23	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
24	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
25	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
26	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
27	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
28	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
29	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
30	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D
31	A	A	A	A	S S S D D	S S S D D	A	A	A	S S S T T T T	D D D D D	D D D D

Nazary okuw
 Hepdede bir gün harby taýýarlyk
 Synag döwri
 Diplomyň 86 ýanyndaky tejribeligi geçmek bilen diplom taslamasyny ýerine ýetirmek
 Dynç alyp
 Mugallymlaryň gizegçiliginde tejribelik geçmek
 Döwlet synaglary
 Aralyk jemleme
 HT Harby taýýarlyk boýunça türgenleşik okusy

T/b	Dersiň ady	Ýarymýylylar boýunça paýlanylyşy		Sagat sany							Ýyllar we ýarymýyllar boýunça paýlanylyşy									
		Synaglar	Häsiplar	Nazary taýýarlyk							1-nji ý.ý. 18 hepde	2-nji ý.ý. 16 hepde	3-nji ý.ý. 18 hepde	4-nji ý.ý. 16 hepde	5-nji ý.ý. 18 hepde	6-njy ý.ý. 16 hepde	7-nji ý.ý. 18 hepde	8-nji ý.ý. 16 hepde	9-njy ý.ý. 18 hepde	10-njy ý.ý. 16 hepde
				Hemmet	Umumy okuw	Amaly sapaklary	Tejربه sapaklary	Sähbat sapaklary	Tejربه inžynerlygy	1										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
I. Umumy ynsanperwerlik we durmuş-ykdysady dersler toplumu																				
1	Türkmenistanyň taryhy		1		36	18			18		2									
2	Sanly ykdysadyýet		2		32	16		16				2								
3	Türkmenistanyň kanunçylygynyň esaslary		3		72	36			36				4							
4	Filosofiya		4		64	32			32					4						
5	Syýasaty öwreniş		5		36	18			18						2					
6	Ykdysady teoriýa		6		64	32			32							4				
7	Psihologiýanyň we pedagogikanyň esaslary		7		36	18			18								2			
8	Häzirkî zaman türkmen jemgyýeti	10ds	8,9		84	50			34									3	2	
9	Bedenterbiýe		1,2,3,4		136			136			2	2	2	2						
1-nji toplum boýunça jemi:			13		560	220	136	16	188	0	4	4	6	6	2	4	2	3	2	



NEW/UPDATE COURSES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
II. Ümumi məntəxi və təhsil-yolcu dərslər toplusu																																				
9.	Hüzniki zaman kompüter texnologiyaları	1,2	4	102	34		34			34	2	3	2	2	3	2																				
10.	Fizika	1,2,3	14	378	86	32	34			206	4	8	6	4	9	5	2	5	3																	
11.	Yokarı matematika	1,2,3,4	19	510	118	118				274	4	10	7	4	9	5	2	5	3	4	6	4														
12.	Himriya	2	5	144	16	16	16			96				3	9	5																				
13.	Ekologiya və daşqın qarşısı gərək	3h	2	54	18	18				18							2	3	2																	
14.	Sarıyık dərəcəsi	5h	2	54	18	18				18																2	3	2								
2-nji toplusu boynuca jemi:		12	46	1242	290	222	84			646	10	21	15	13	30	17	6	13	8	4	6	4	2	3	2											
III. Təyيارlyqın uqru boynuca ümumi dərslər toplusu																																				
15.	Yeri övrenis	1	4	108	36		18			54	3	6	4																							
16.	Təyيارlyqın uqru boynuca ilis dili	1h,2,3h,4	8	204		136				68	2	3	2	2	3	2	2	3	2	2	3	2														
17.	İkinci daşqın yurt dili	5h,6	4	102		68				34																										
18.	Türkmən dili və sözlüyis medeniyeti	3h	2	54		36				18							2	3	2																	
19.	Elektrotehnika və senagat elektronikasi	3	5	144	18		36			90							3	8	5																	
20.	Geomorfologiya	3	2	54	18	18				18							2	3	2																	
21.	Gidrologiya və gidrometriya	3	3	72	18	18				36							2	4	3																	
22.	Klimatologiya və meteorologiya	3	5	144	18	18				108							2	8	5																	
23.	Harbi təyيارlyk	5h,6,7h,8,8ds		544	408					136															6	8		6	8			6	8		6	8
3-nji toplusu boynuca jemi:		16	33	1426	516	294	54			562	5	9	6	2	3	2	13	29	19	2	3	2	8	11	2	8	11	2	6	8		6	8			
IV. Təyيارlyqın uqru boynuca özi dərslər toplusu																																				
24.	Geodeziya	1,2	13	356	68	68	34			186	5	10	7	5	11	6																				
25.	Aerokosmik kartalashmalar	4	3	96	32	16	16			32															4	6	3									
26.	Aerokosmik suratlary deşirlemek	4	2	48	16	16	16			16															2	3	2									
27.	Kartaöwrenis	4	3	80	32	32				16															4	5	3									
28.	Topografik kartografiya	4	(yt)	4	112	16	16	16		64															3	7	4									
29.	Tematik kartografiya	5		5	126	18	18	18		72																		3	7	5						
30.	Matematik kartografiya	5		4	108	18	18			72																		2	6	4						
31.	Kompyuter grafikasy (kartalary bezemekde)	5	4	108	18	18				72																		2	6	4						
32.	Kartografiyada internet texnologiyalar	6		4	96	16	16	16		48																										
33.	Kartalary taslimak ve dizelemek	6	(yt)	7	176	32	16	16		112																										
34.	Yokarı geodeziyanın esaslary	6		5	144	18	18	18		90																										
35.	Sarıyık fotogrammetriya	6		4	108	18	18	18		54																										
36.	Geomorfomatik berlenleringory	6		5	144	18	18	18		90																										
37.	Geomorfomatik ulgamlary (GMU)	7		5	126	18	18	18		72																										
38.	Kartalary pap etmekde poligrafik prosesler	8	(yt)	7	208	32	32	16		128																										
39.	Kartografiki övrençiligi gürmek	8		5	144	32	16	16		80																										



NEW/UPDATE COURSES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
IV. JEMLEÝJI MAGLUMAT																																				
1.	Synaglaryň we hasaplaryň sany:	68									8			9			11			10			9			11			5			5				
2.	Hepdelik auditoriýa sagady:	24									24			24			24			24			24			24			24			24				
3.	Hepdelik okuw ýüki:	45									45			45			45			45			45			45			45			45				
4.	Jemi ECTS:	240									30			30			30			30			30			30			30			30				
5.	Jemi sagat sany:	6404 sagat																																		
6.	Tejربه taýýarlygy:	926 sagat																																		

Bellik:

- Häzirki zaman türkmen jemgyýeti dersi boýunça Döwlet synagynyň soragnamalaryna göterim gatnaşygynda Türkmenistanyň taryhy, filosofiýa, syýasaty öwreniş, ykdysady teoriýa dersleri boýunça soraglar hem goşulýar.
- Okuw meýilnamasyna taýýarlyk ugrunyň derejesiniň kär häsiýetnamasy goşulýar (4 sahypa).
- Aýratyn bellikler: b-bahaly hasap; ý/t - ýyllyk taslamasy; ds - döwlet synagy.
- ECTS – kreditleri geçirmegiň we toplamagyň Ýewropa ulgamy.

Rektor

P.Orazow

Y l a l a ş y l d y :

Türkmenistanyň Bilim ministrligi

Türkmenistanyň Gurluşyk we binagärlik ministrligi

Ministr

G.Ataýewa

Ministr

G.Orunow



Quality assurance

Please, provide the work plan of the Quality group from November 15, 2020 till November 15, 2021	A meeting of the NICOPA quality working group and the scientific and methodological council of the road construction faculty was held to familiarize with the curricula of new and modernized geodesy disciplines at the university, drawn up by teachers and with a schedule for their approval.
Report on the peer review procedure: which new modules have you chosen for the peer review?	Geoinformation, Engineering geodetic studies, Geodetic measurement theory of calculation of results, Geodesic astronomy Cartography, Photogrammetry, Topography, Geodysic equipment, Space geodesy
Which quality indicators have you chosen for the peer review template? – Provide in the presentation	The peer reviews received during this time period were free-form, rather than following a certain pattern.
Who are/will be peer reviewers?	non-university reviewers: A.Myradov – Ashgabat construction is a secondary profession school teacher A.Murzayeva – Ashgabat construction is a secondary profession school teacher
When did you conduct peer reviews? If you haven't done it yet: When will you send the peer review questionnaire and get a feedback from peer reviewers?	External and internal reviews of the curriculum developed under the curriculum were received in June-July 2020.



Quality group

Turkmen state architecture and construction institute

Quality group

Name, Surname	Occupation	Organization	Contact info (email)
Myradov Yolly	Head of the education department	TSACI	vol1605tm@mail.ru
Bashimov Polat	Head of the department "Geodesy"	TSACI	alvhan2019@hotmail.com
Atageldi Garajayev	Head of the department "Road construction"	TSACI	ata8984@mail.ru
Charyyeva Saadat	Deputy dean for research faculty of the "Road construction"	TSACI	buton-annaeva@rambler.ru
Kerim Annaberdiyev	Teacher of the department "Computer technology and systems"	TSACI	Annaberdiyev93@bk.ru

Dean of the Faculty of "Road construction"



Y. Gurbanov



Laboratories and equipment

Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)



Laboratories and equipment

Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)

Name course	Laboratories hours
Geoinformation	32
Engineering geodetic studies	36
Geodetic measurement theory of calculation of results	32
Geodesic astronomy	36
Cartography	68
Photogrammetry	68
Topography	32
Geodysic equipment	32
Space geodesy	36



Laboratories and equipment

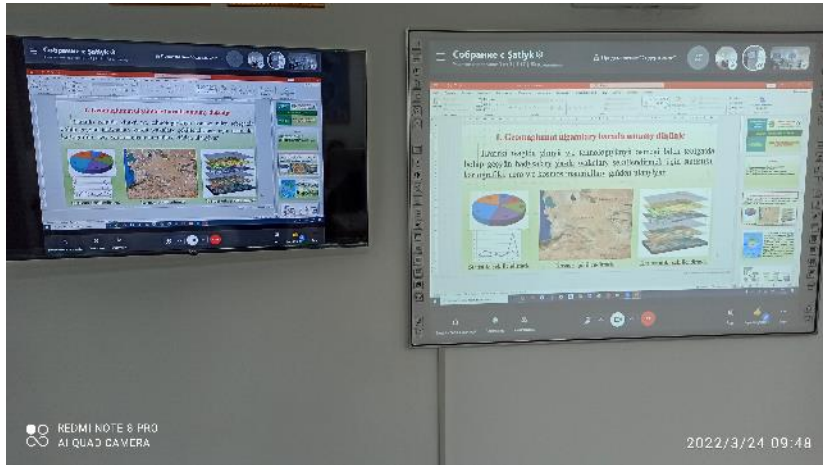
Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)

the purchase of equipment was not carried out



Laboratories and equipment

Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)



Laboratories and equipment

Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)





Ýewropa bileleşiginiň ERASMUS+ maksatnamasynyň 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP belgili "Takyk ekerançylyk üçin täze we innowasion okuwlar" (NICOPA) atly taslamasynyň çäginde Türkmen döwlet binagärlik-gurluşyk institutunyň Serwis ofisi barada düzgünnama

1. Başlangyç esaslary.

1.1. Takyk ekerançylyk üçin täze we innowasion okuwlaryň serwis ofisi (PASO)

Türkmen döwlet binagärlik-gurluşyk institutunyň "Amaly geodeziýa" kafedrasynyň ýanynda döredilýär.

1.2. PASO döredilmeginiň strategiki wezipesi Ýewropa bileleşiginiň ERASMUS+ maksatnamasynyň 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP belgili "Takyk ekerançylyk üçin täze we innowasion okuwlar" (NICOPA) atly taslamasynyň amala aşyrylmagyndan soň hem onuň netijeleriniň öleşdirilmeginiň we goşmaça maliýe üpjüçligiň emele gelmeginiň we taslamanyň tejribähana, usulyýet, bilim we ylmy binýadynyň ösüşine gönükdirilmegidir.

1.3. Ýol gurluşygy fakultetiniň jogapkär hünärmeni ofisiniň işi boýunça Türkmen döwlet binagärlik-gurluşyk institutunyň rektory **P. Orazowa** hasabat berýär.

1.4. PASO salgysy:

Poçta salgysy: 744025, Turkmenistan, Aşgabat, Baba Annanow köçesiniň 136-njy jaýy.

Telefon: +99312 281870

tdbgi.edu.tm

1.5. Türkmen dilinde resmi ady "Takyk ekerançylyk üçin täze we innowasion okuwlar boýunça serwis ofisi"

1.6. Inlis dilinde resmi ady "New and Innovative Courses for Precision Agriculture Service-Office"

Gysga ady: PASO

2. PASO guramачylyk düzümi we hünärmenler bilen üpjüçligi.

2.1. PASO Geodeziýa hünärmenleri bilen yöredilýär.

2.2. PASO ýolbaşçysy TDBGI-nyň rektory tarapyndan bellenilýär.

2.3. PASO ýolbaşçysy:

- PASO işini yzygiderli dolandyrmaly;
- PASO işine talyplaryň, aspirantlaryň, mugallymlaryň, iş berjileriň we başga gyzyklanyan taraplaryň gatnaşmagyny üpjün etmeli.
- PASO işine degişli ýumuşlary paýlamaly we gözegçilik etmeli;
- PASO işine degişli taslamalary ýerine ýetirmek üçin wagtlaýyn iş toparlarynyň döredilmegini üpjün etmeli;
- PASO degişli maddy serişdeleri gorap saklamaly;
- Maliýe serişdeleriniň netijeli ulanylmagyny üpjün etmeli, maliýe girdejini gazanmagyň çöşmelerini tapyp bilmeli.

3. PASO esasy wezipeleri:

- TDBGI-nyň ylmy edaralary, döwlet guramalary, telekeçiler bilen arabaglanyşygy üpjün etmek;
- Takyk ölçegleri geçirmek hyzmatlarynda innowasion usullaryny we tehnologiýalaryny geodeziýa ulgamynda öleşdirilmegine ýardam bermek.
- TDBGI-nyň okuw prosesiniň modernizirlenmegine ýardam etmek.

4. PASO wezipeleri:

- Takyk ölçemeleri geçirmeginde öndebaryjy gazananlary ýaýratmak üçin seminarlary guramak;
- Öňüňçilik kärhanalaryň işgärleriniň hünär derejesini ýokarlandyrmaga bolan talaplaryny öwretmek;
- Dürli ugurly toparlar üçin gerekli hyzmatlary işlap düzmek;
- TDBGI-nyň uçurmlaryna iş berjileriň ünsüni çekmek;
- TDBGI-nyň uçurmlarynyň başarnyklarynyň we hünär ukypalarynyň iş berjileriň talaplaryna laýyklygyny gazanmak;
- TDBGI-nyň könelişen okuw maksatnamalary tüzemek;
- Tejribehanada täze taslamalary amala aşyrmak;
- Gyzyklanyan taraplar we müşderiler bilen şertnamalary baglaşmak ylmy-maslahat hyzmatlary, ylmy-barlag işleri şu ugur boýunça ýerine ýetirmek üçin, hünär derejesini ýokarlandyrmak kurslaryny geçirmek üçin, we bilikde dürli taslamalary ýerine ýetirmek;

- Takyk ölçemeler bilen baglanyşykly daşary ýurt ylmy edaralary, döwlet guramalary, telekeçilik ulgamy bilen hyzmatdaşlygy saklamak.

5. PASO hukuky we borçlary:

5.1. PASO öz işinde TDBGI-de hereket edýän hukuklara we borçlara esaslanýar;

6. Jogapkärçilik:

6.1. PASO işiniň talaba laýyk yöredilmegine PASO ýolbaşçysy jogapkärçilik çekýär.

6.2. TDBGI-da hereket edýän düzgünnamalar boýunça PASO maddy serişdeleriniň saklanylmagyna PASO ýolbaşçysy jogapkärçilik çekýär.

7. PASO maliýe üpjüçligi:

7.1. PASO esasy maliýe çöşmesi bu daşary ýurt grantlary we başga-da Türkmenistanyň kanuny tarapyndan gadagan edilmedik çöşmelerden durýar;

7.2. PASO ERASMUS+ maksatnamasynyň 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP belgili "Takyk ekerançylyk üçin täze we innowasion okuwlar" (NICOPA) atly taslamasy boýunça alnan maddy serişdelere eýeçilik edýär.

8. Düzgünnamanyň üýtgedilmegi we goşmaçalaryň girizilmegi PASO ýolbaşçysy tarapyndan tertip boýunça amala aşyrylýar.

9. PASO işiniň ýatyrylmagy.

9.1. Kärhananyň üýtgedilmegi ýa-da ýatyrylmagy rektoryň buýrugy bilen ýerine ýetirilýär.

Türkmen döwlet binagärlik-gurluşyk institutunyň okuw bölüminiň başlygynyň w.w.ý.e., t.y.k.



(Signature)

Ý. Myradow



Sustainability of PASO Offices

Table 2.4. PASO Service Office

No	Question	Answer
1	Name of the person(s) responsible for PASO operation in your university	Myradov Yolly
2	Provide scan of PASO regulations approved at institutional level	
3	Provide scan of PASO work plan/business plan approved at institutional level	The PASO regulation of our university is currently developed and will be approved by the rector after the equipment is received
4	Indicate activities, that was already been implemented according to PASO work plan (title of activity, date, link to agenda, number of persons involved)	The PASO work plan cannot be executed due to lack of equipment.
5	Provide link to the PASO web page at the university website / FB page or any other digital source of PASO	A link to the PASO web page will be posted on the university website once it starts tdbgi.edu.tm
6	How many NICOPA+ agreements were signed so far?	2



Regional Cooperation

1. School of Economics and Business;
2. “Döwletli diýar” economic society;
3. Private Enterprise "Adjayyp durmush";
4. Economic society “Alem dostlugy”

Ylalaşyk “NICOPA Institut - Kärhana”	Cooperation Agreement “NICOPA Institute - Enterprise”
№ <u>01/02-21</u>	№ <u>01/02-21</u>

Takyk ekerançylyk üçin täze we innowasion okuwlar

Ylalaşygyň taraplary

Bu Ylalaşyk, “NICOPA” taslamasynyň konsorsiumynyň agzasy bolan Türkmen döwlet binagärlik-gurluşyk instituty (mundan beýläk-institut) bilen (institutyň salgysy: 744025, Aşgabat şäheri, Baba Annanow köçesi, 136-njy jaýy)

Akademiki kärhana bolmadyk “Alem dostlugy” Hojalyk jemgyýetiniň (mundan beýläk-hyzmatdaş), (hyzmatdaşyň salgysy: Türkmenistan, Aşgabat şäheri, 1958 (Andalyb) köçesi, 40-njy jaýy) arasynda baglansyldy. Institut bilen Hyzmatdaşyň arasyndaky bu ylalaşyk, “NICOPA” taslamasynyň çäklerinde yerine ýetirilýän işleriň netijelerini halk köpçüligine ýaýratmak, iş ýüzünde durmuşa geçirmekden we ösdürmekden hem-de “Institutyň” talyplaryny işe yerleşdirmek mümkinçiliklerini ýokarlandyrmakdan ybarat bolup durýar.

“New and Innovative Courses for Precision Agriculture”

Parties to the Agreement

This Agreement is part of the NICOPA Project with the Turkmen state architecture and construction institute, a member of the consortium, hereinafter referred to as the “Institute” str, Baba Annanov, 136, Ashgabat Turkmenistan, 744025

Non-academic enterprise

Between the economy society of the “Alem dostlugy” (hereinafter - the partner), (partner address: 40, Andalib Street, 1958, Ashgabat, Turkmenistan) connected. The agreement between the Institute and the Partnership is aimed at disseminating the results of the work carried out under the NICOPA project to the public, implementing and developing them in practice, and enhancing the employment opportunities of the Institute's students.

Ylalaşyk “NICOPA Institut - Kärhana”	Cooperation Agreement “NICOPA Instituty - Enterprise”
№ <u>01/02-21</u>	№ <u>01/02-21</u>

“Takyk ekerançylyk üçin täze we innowasion okuwlar”

Ylalaşygyň taraplary

Bu Ylalaşyk, “NICOPA” taslamasynyň konsorsiumynyň agzasy bolan Türkmen döwlet binagärlik-gurluşyk instituty (mundan beýläk-institut) bilen (institutyň salgysy: 744025, Aşgabat şäheri, Baba Annanow köçesi, 136-njy jaýy)

Akademiki kärhana bolmadyk “Ajayyp durmush” Hususy kärhanasynyň (mundan beýläk-hyzmatdaş), (hyzmatdaşyň salgysy: Türkmenistan, Ahal welaýaty, Änew şäheri, Elyasow köçesi, 25-nji jaýy) arasynda baglansyldy. Institut bilen Hyzmatdaşyň arasyndaky bu ylalaşyk, “NICOPA” taslamasynyň çäklerinde yerine ýetirilýän işleriň netijelerini halk köpçüligine ýaýratmak, iş ýüzünde durmuşa geçirmekden we ösdürmekden hem-de “Institutyň” talyplaryny işe yerleşdirmek mümkinçiliklerini ýokarlandyrmakdan ybarat bolup durýar.

“New and Innovative Courses for Precision Agriculture”

Parties to the Agreement

This Agreement is part of the NICOPA Project with the Turkmen state architecture and construction institute, a member of the consortium, hereinafter referred to as the “Institute” str, Baba Annanov, 136, Ashgabat Turkmenistan, 744025

Non-academic enterprise

Between the Private Enterprise “Adjayyp durmush” (hereinafter - the partner), (partner's address: 25, Ilyasov Street, Anau, Ahal Province, Turkmenistan, Ahal Province) connected. The agreement between the Institute and the Partnership is aimed at disseminating the results of the work carried out under the NICOPA project to the public, implementing and developing them in practice, and enhancing the employment opportunities of the Institute's students.



Dissemination and Sustainability



- ✓ In order to prepare for the project, the teachers of the department “Geodesy” took part in absentia in the II international scientific-practical conference “Science in modern society”, held in Samara (Russian Federation, 2018) and published an article on “Some aspects of training personnel in technical universities of Turkmenistan”.
- ✓ Regarding the training module “Geodesic Instrumentation”, teachers of the department “Geodesy” took part in person at the XI international scientific conference “Turkmen horse and the world art of horse breeding”, held in Ashgabat (Turkmenistan, 2019) with the publication of the thesis on “Improving the tourist potential of the hippodrome in solving engineering and geodetic problems”, which provides information on the use of modern geodetic instruments.



Dissemination and Sustainability




- ✓ Also, teachers of the Department of Geodesy supervised the scientific work of fourth-year students who took part in the republican competition of scientific works among young scientists and students on topics on GIS technologies and applied geodesy (01.2019).
- ✓ The teachers took part in the speeches of 4-year students in GIS technologies at the Institute's scientific and practical conference dedicated to the Great Patriotic War of 1941-1945 (03.05).
- ✓ Teachers took part in the speeches of 3-year students in applied geodesy at the Institute's scientific and practical conference dedicated to the adoption of the Constitution and the State Flag (13.05).
- ✓ Teachers took part in the speeches of 4-year students in GIS-technologies and the construction industry at the Institute's scientific and practical conference dedicated to the day of workers of culture and art and the great Turkmen poet Makhtumkuli (06/21). At the Institute, in the courses of improvement and advanced training (06.2019), a training was held with employees of various institutions, where information on the objectives of the project was given in an accessible form.
- ✓ Teachers took part in speeches of 5-year students in modern areas of geodesy development at the Institute's scientific and practical conference dedicated to the Day of Knowledge and Youth (29.08).



Dissemination and Sustainability

Table 4.1. SOCIAL INCLUSION




No	Question	Answer
1	Please, report on the Involvement of people with fewer opportunities (examples are provided below) in % of the students involved in the curricula developed in the framework of the NICOPA project	The number of students participating in educational programs developed under the NICOPA project is 0%.
2	Please report on the gender balance in % of the students involved in the curricula developed in the framework of the NICOPA project	Road faculty Department: "Geodesy" "Road construction " "Construction Materials"

TÜRKMEN DÖWLET BINA GÄRLİK-GURLUŞYK INSTITUTY
Talyplar üçin sowalnama (anketa)

Hünäri _____ Sene: _____

T/b	Sorag	Jogap
1.	<i>Erasmus+ programması barada habaryňyz barmy?</i> 1- bar 2- yok	
2.	<i>Ýokary okuw mekdebinde hereket barmy?</i> 1- NICOPA 2- CRENG 3- Hiç hili habarym ýok	
3.	<i>NICOPA taslamasynyň maksadlary gürleşýän maşumlary almak siz g</i>	
4.	<i>NICOPA taslamasyna gatnaşmak isle</i>	

TÜRKMEN DÖWLET BINA GÄRLİK-GURLUŞYK INSTITUTY
Mugallymlar üçin sowalnama (anketa)

Fakultet: _____
Kafedra: _____
Sene: _____

T/b	Sorag	Jogap
1.	<i>Erasmus+ programması barada habaryňyz barmy?</i> 1- Bar 2- Yok	
2.	<i>Ýokary okuw mekdebinde hereket edýän tasmalar barada habaryňyz barmy?</i> 1- Häs. eseldim 2- Ýok. eslenedim 3- Bu meni arzuýlandyryňar 4- Bu meni arzuýlandyranok 5- Men şyňam şeýle taslama gatnasdym	

Dissemination and Sustainability



Dissemination and Sustainability



Communication process, additional information

Table 5.1. COMMUNICATION PROCESS, ADDITIONAL INFORMATION

№	Question	Answer
1	Please, report on the communication process between your University and other PC Universities, EU partners, the Coordinator, and other project participants	Communication between the participants of the NICOPA project is carried out via the Internet (Skype, Zoom, Gmail, Mail) and telephone.
2	Additional information	In connection with the coronavirus pandemic and a number of other objective reasons, we consider it advisable to apply to the European Commission on Education with a request to extend the duration of the NICOPA project for at least six months or a year, in order to fully achieve its goals by all universities participating in it.





Thank you for you attention!



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Erasmus+ Programme
of the European Union

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Yolly Myradov
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