

Periodical Report  
36 Months of project  
implementation

# New and Innovative Courses for Precision Agriculture



## Turkmen State Architecture and Construction Institute



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- A meeting of the NICOPA working group and the teachers of the Department of Geodesy was held to familiarize themselves with the implementation of the schedule of teachers' work on the preparation of curricula for new and modernized disciplines in geodesy at the university (may-2020).
  - The working group of the NICOPA project took part in the meeting of the Faculty of Road Construction. At this meeting, the curricula of the modernized and new disciplines were discussed, and specific deadlines for completion were set (may-2020).



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- An online meeting was held on the Zoom platform where NICOPA project participants and European partners participated, where the main issues of the project implementation were discussed, Dissemination, Questionnaires, Presentation with new courses / programs, Reports 18 Months (june-2020).
  - Together with the Department of Geodesy, the working group of the NICOPA project got acquainted with the pilot training programs (june-2020).



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- An online meeting was held on the Zoom platform where the following issues were discussed:
    - Fulfillment of the tasks of the previous meeting dated 06/02/2020 and a report on the work done according to the sent protocol, uploading documents to google drive;
    - Execution of reports 18 M;The process of purchasing equipment for universities;
    - Discussion of the Quality Report of the project together with external expert Dr. Andrey Girenko;
    - Further action plan, project activities (june-2020).



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- The curricula of all disciplines modernized according to the NICOPA project, which were considered in advance at the meeting of the department and faculty, were approved by the Academic Council of the University and signed by the rector for the 2020-2021 academic year (jule-2020).
  - An online meeting was held on the Zoom platform where the following issues were discussed:



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- Fulfillment of the tasks of the protocol agreed upon at previous meetings;
  - Execution of reports 18 M;
  - Recommendations for the implementation of the project from the external expert Dr. Andrey Girenko;
  - Equipment procurement issues (august-2020).
  - An online meeting was held on the Zoom platform, where they discussed the procurement of equipment for PAL, VCR and PASO, the possibility of customs clearance on the territory of Turkmenistan,



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.
  - ❑ Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)
- as well as the registration of the NICOPA project with the Ministry of Finance of Turkmenistan with the aim of exemption from customs duties (october-2020).
  - The Faculty of Road Construction, with the participation of students and teachers, held a conference, involved in scientific work on the NICOPA project, using layouts / models prepared by the project participants (november-2020).



# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Describe positive changes/benefits in your university as the result of each of the implemented activities of the project
- All the above activities carried out within the framework of the NICOPA project give positive results in terms of improving the level and quality of training for students and teachers. To establish (select) and appoint a manager / specialist for the development of school subjects and responsible teachers for the development of new subjects and curricula at the Institute. Offer to send these teachers to study at European Universities in 2019-2020.





# PROJECT ACTIVITIES from 16.05.2020 till 15.11.2020

- ❑ Describe any problems/difficulties encountered while implementing the activities and the measures taken to solve them
- There were no special problems and difficulties in the implementation of activities and current work, except for a change in the delivery time of equipment for PAL, VCR, PASO and the impossibility of conducting trainings for teachers and students in European universities due to the global pandemic, which was planned in the project



# Curricula

**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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> | 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  |  | 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). |

## Updated and New Courses



# Curricula

**Table 2.2.2.NEW COURSES**

## Updated and New Courses

| <b>Course №</b> | <b>Title of the course and in which program it is taught 5 years system for TM</b> | <b>Its volume hours</b> | <b>Number of students participating in the course</b> | <b>Link to the course on the university page</b> | <b>Accreditation and recognition: Specify the date when the course was accredited in the curriculum and when the pilot teaching started</b>  |
|-----------------|--|-------------------------|---|--|--|
| Course 1        | Geodysic equipment   | 106                     | 18  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a>   | 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  | <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a>   | 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). |



# Quality assurance

|  |   |
|--|---|
| <b>Please, provide the work plan of the Quality group from November 15, 2020 till November 15, 2021</b>  | 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. |
| <b>Report on the peer review procedure: which new modules have you chosen for the peer review?</b>   | Geoinformation, Engineering geodetic studies, Geodetic measurement theory of calculation of results, Geodesic astronomy<br>Cartography, Photogrammetry, Topography, Geodysic equipment, Space geodesy   |
| <b>Which quality indicators have you chosen for the peer review template? – Provide in the presentation</b>  | The peer reviews received during this time period were free-form, rather than following a certain pattern.  |
| <b>Who are/will be peer reviewers?</b>   | non-university reviewers:<br>A.Myradov – Ashgabat construction is a secondary profession school teacher<br>A.Murzayeva – Ashgabat construction is a secondary profession school teacher   |
| <b>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?</b> | External and internal reviews of the curriculum developed under the curriculum were received in June-July 2020.   |



# NEW/UPDATE COURSES

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



TÜRKMENISTANYŇ BILIM MINISTRRLIGI  
TÜRKMEN DÖWLET BINAGÄRLIK-  
GURLUŞYK INSTITUTY

## OKUW MEÝILNAMASY

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

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



Kär: geodeziýa inženeri

Okuwýa möhlet: 5 ýyl

| Okuw ýyly | Sentyabr  | Oktyabr | Noýabr | Dekabr | Ýanwar | Febwal | Mart | Aprel | Maý | Ýün | Ýul | Awgust |
|-----------|---|---------|--------|--------|--------|--------|------|-------|-----|-----|-----|--------|
| 1         | 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 |         |        |        |        |        |      |       |     |     |     |        |
| 2         |   |         |        |        |        |        |      |       |     |     |     |        |
| 3         |   |         |        |        |        |        |      |       |     |     |     |        |
| 4         |   |         |        |        |        |        |      |       |     |     |     |        |
| 5         |   |         |        |        |        |        |      |       |     |     |     |        |

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

| T/b   | Dersiň ady                               | Ýarymýyllar boýunça paýlanylyşy |          | Sagat sany       |     |     |         |    |     |    | Ýyllar we ýarymýyllar boýunça paýlanylyşy |    |    |    |    |    |    |    |    |    |
|---|--|---------------------------------|----------|------------------|-----|-----|---------|----|-----|----|---|----|----|----|----|----|----|----|----|----|
|   |  | Synaglar                        | Häsiplar | Nazary taýýarlyk |     |     | Tegjibe |    |     |    | 1   | 2  | 3  | 4  | 5  |    |    |    |    |    |
| 1   | 2  | 3                               | 4        | 5                | 6   | 7   | 8       | 9  | 10  | 11 | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| <b>I. Umumy ynsanperwerlik we durmuş-ykdysady dersler toplumu</b> |  |                                 |          |                  |     |     |         |    |     |    |   |    |    |    |    |    |    |    |    |    |
| 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

«Tas s yk laýaryny»  
Türkmenistanyň Minis trler Kab inetiniň Ba ş lygynyň  
Orunb as ary \_\_\_\_\_ S.Tojlyýew  
2021-ýylyň « \_\_\_\_\_ » \_\_\_\_\_

TÜRKMENISTANYŇ BILIM MINISTRЛИGİ  
TÜRKMEN DÖWLET BINAGARLIK-  
GURLUŞYK INSTITUTY  
**BAKALAWR TAYYARLAMAGYŇ**

**OKUW MEÝILNAMASY**

«Tas s yk laýaryny»  
Türkmenistanyň Minis trler Kab inetiniň Ba ş lygynyň  
Orunb as ary \_\_\_\_\_ Ç.Purçekow  
2021-ýylyň « \_\_\_\_\_ » \_\_\_\_\_

**UGUR: 1.05.00.00. Ýeri öwreniş ylmlary**

**OKUWYŇ MÖHLETI: 4 ýyl**

**TAYYARLYGYŇ UGRY: 1.05.03.03. Kartografiya we geoinformatika**

**DEREJE: Tebigy ylmlaryň bakalawry**

| Y | Sentyabr |    |    |    |    | Oktýabr |    |    |    |    | Noýabr |    |    |    |    | Dekabr |    |    |    |    | Ýanwar |    |    |    |    | Fevral |    |    |    |    | Mart |    |    |    |    | April |    |    |    |    | MAY |    |    |    |    | Iýun |    |    |    |    | Iýul |    |  |  |  | Awgust |  |  |  |  |
|---|----------|----|----|----|----|---------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|------|----|----|----|----|-------|----|----|----|----|-----|----|----|----|----|------|----|----|----|----|------|----|--|--|--|--------|--|--|--|--|
|   | 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 | 36    | 37 | 38 | 39 | 40 | 41  | 42 | 43 | 44 | 45 | 46   | 47 | 48 | 49 | 50 | 51   | 52 |  |  |  |        |  |  |  |  |
| 1 |          |    |    |    |    |         |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |      |    |    |    |    |       |    |    |    |    |     |    |    |    |    |      |    |    |    |    |      |    |  |  |  |        |  |  |  |  |
| 2 |          |    |    |    |    |         |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |      |    |    |    |    |       |    |    |    |    |     |    |    |    |    |      |    |    |    |    |      |    |  |  |  |        |  |  |  |  |
| 3 | HO       | HO | HO | HO | HO | HO      | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO   | HO | HO | HO | HO | HO    | HO | HO | HO | HO | HO  | HO | HO | HO | HO | HO   | HO | HO | HO | HO |      |    |  |  |  |        |  |  |  |  |
| 4 | HO       | HO | HO | HO | HO | HO      | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO   | HO | HO | HO | HO | HO    | HO | HO | HO | HO | HO  | HO | HO | HO | HO | HO   | HO | HO | HO | HO |      |    |  |  |  |        |  |  |  |  |

**Behler:**  Nazary okuw  [HO] Utgaşdyrylan nazary we harby taýýarlyk okuwary  [AS] Aralyk synagy  [YS] Yarymyýlyk synagy  
 Tejribelikler  [D] Döwlet synagy we diplom taslama synagy gormak  [H] Harby taýýarlyk boýunça türgündeşlik okuwary  [D] Drynç alyş  
 [HO] Utgaşdyrylan nazary okuw, harby taýýarlyk okuw, diplomyň ön ýarandaky tejribelik we diplom taslama synagy taýýarlamak

| T/h  | Dersleiniň ady                           | Yarymyýyllar boýunça paýlanyşy |                                | Sagat sany |         |                       |            |              |             |                       | Ýyllar we yarymyýyllar boýunça paýlanyşy – "sagat / okuwýüki / ECTS" |                 |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|--|--|--------------------------------|--------------------------------|------------|---------|-----------------------|------------|--------------|-------------|-----------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|
|  |  | Synaglar we hasaslar           | Ýyllyk işler (dissertasiýalar) | ECTS       | Hemmesi | Auditoriýa taýýarlygy |            |              |             | Tabahyň öňbaslaňk işi | 1  |                 | 2               |                 | 3               |                 | 4               |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|  |  |                                |                                |            |         | Umumy okuw            | Amaly okuw | Tegirne okuw | Söhbet okuw |                       | 1-nji yarymyýyl  | 2-nji yarymyýyl | 3-nji yarymyýyl | 4-nji yarymyýyl | 5-nji yarymyýyl | 6-njy yarymyýyl | 7-nji yarymyýyl | 8-nji yarymyýyl |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 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 |   |   |   |   |   |
| <b>I. Umumy ynasanjerwerlik we umumy-yölsady dersler toplaný</b> |  |                                |                                |            |         |                       |            |              |             |                       |  |                 |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 1.   | Türkmenistanyň taryhy                    | 1h                             |                                |            |         | 2                     | 54         | 18           |             |                       | 18   | 18              |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 2.   | Psihologiýanyň we pedagogikanyň esaslary | 2h                             |                                |            |         | 2                     | 48         | 16           |             |                       | 16   | 16              |                 |                 | 2               | 3               | 2               |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 3.   | Türkmenistanyň kanunçylygynyň esaslary   | 3h                             |                                |            |         | 3                     | 72         | 36           |             |                       | 18   | 18              |                 |                 |                 |                 |                 |                 |    |    |    |    |    | 3  | 4  | 3  |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 4.   | Filosofiýa                               | 4h                             |                                |            |         | 2                     | 64         | 32           |             |                       | 16   | 16              |                 |                 |                 |                 |                 |                 |    |    |    |    | 3  | 4  | 2  |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 5.   | Syňasary öwreniş                         | 5h                             |                                |            |         | 2                     | 54         | 18           |             |                       | 18   | 18              |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    | 2  | 3  | 2  |    |    |    |    |    |   |   |   |   |   |
| 6.   | Ykdysady nazaryýet                       | 6h                             |                                |            |         | 2                     | 64         | 32           |             |                       | 16   | 16              |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    | 3  | 4  | 2  |    |    |    |    |   |   |   |   |   |
| 7.   | Häzirki zaman türkmen jemgyýeti          | 7-8h, 8ds                      |                                |            |         | 4                     | 102        | 34           | 34          |                       |  | 34              |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2  | 3 | 2 | 2 | 3 | 2 |
| 8.   | Bedenterbiýe                             | 1-4h                           |                                |            |         |                       | 136        |              | 136         |                       |  |                 |                 |                 | 2               | 2               |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |



# NEW/UPDATE COURSES

«Tas s yk laý a r y n ı»  
Türkmenistanyň Minis tler Kab inetiniň Ba ş ly g y n ı y  
Orun bas a r y \_\_\_\_\_ S. Tojlyýew  
2021-ýylyň « \_\_\_\_\_ » \_\_\_\_\_

TÜRKMENISTANYŇ BILIM MINISTRLIGI  
TÜRKMEN DÖWLET BINAGARLIK-  
GURLUŞYK INSTITUTY  
**BAKALAWR TAÝYARLAMAGYŇ**

**OKUW MEÝILNAMASY**

«Tas s yk laý a r y n ı»  
Türkmenistanyň Minis tler Kab inetiniň Ba ş ly g y n ı y  
Orun bas a r y \_\_\_\_\_ Ç. Purçekow  
2021-ýylyň « \_\_\_\_\_ » \_\_\_\_\_

**UGUR: 1.05.00.00. Ýeri öwreniş ylmlary**

**OKUWYŇ MÖHLETI: 4 ýyl**

**TAÝYARLYGYŇ UGRY: 1.05.03.03. Kartografiya we geoinformatika**

**DEREJE: Tebigy ylmlaryň bakalawry**

| Y | Sentýabr |    |    |    |    | Oktýabr |    |    |    |    | Noýabr |    |    |    |    | Dekabr |    |    |    |    | Ýanwar |    |    |    |    | Fevral |    |    |    |    | Mart |    |    |    |    | April |    |    |    |    | MAY |    |    |    |    | Iýun |    |    |    |    | Iýul |    |  |  |  | Awgust |  |  |  |  |
|---|----------|----|----|----|----|---------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|------|----|----|----|----|-------|----|----|----|----|-----|----|----|----|----|------|----|----|----|----|------|----|--|--|--|--------|--|--|--|--|
|   | 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 | 36    | 37 | 38 | 39 | 40 | 41  | 42 | 43 | 44 | 45 | 46   | 47 | 48 | 49 | 50 | 51   | 52 |  |  |  |        |  |  |  |  |
| 1 |          |    |    |    |    |         |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |      |    |    |    |    |       |    |    |    |    |     |    |    |    |    |      |    |    |    |    |      |    |  |  |  |        |  |  |  |  |
| 2 |          |    |    |    |    |         |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |        |    |    |    |    |      |    |    |    |    |       |    |    |    |    |     |    |    |    |    |      |    |    |    |    |      |    |  |  |  |        |  |  |  |  |
| 3 | HO       | HO | HO | HO | HO | HO      | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO   | HO | HO | HO | HO | HO    | HO | HO | HO | HO | HO  | HO | HO | HO | HO | HO   | HO | HO | HO | HO |      |    |  |  |  |        |  |  |  |  |
| 4 | HO       | HO | HO | HO | HO | HO      | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO     | HO | HO | HO | HO | HO   | HO | HO | HO | HO | HO    | HO | HO | HO | HO | HO  | HO | HO | HO | HO | HO   | HO | HO | HO | HO |      |    |  |  |  |        |  |  |  |  |

**Behler:**  Nazary okuw  [HO] Utgaşdyrylan nazary we harby taýýarlyk okuwary  [AS] Aralyk synagy  [YS] Yarymyýlyk synagy  
 Tejribelilik  [D] Döwlet synagy we diplom taslama synagy gormak  [H] Harby taýýarlyk boýunça türgenleşik okuwary  [D] Dyzň alyş  
 [HO] Utgaşdyrylan nazary okuw, harby taýýarlyk okuw, diplomyň ön ýarandaky tejribelik we diplom taslama synagy taýýarlamak

**I. Dersler**

| T/h | Dersleiniň ady | Yarymyýllar boýunça paýlanyşy |                           | Sagat sany |         |                       |            |              |             |                        | Ýyllar we yarymyýllar boýunça paýlanyşy – "sagat / okuwýükü / ECTS" |                 |                 |                 |                 |                 |                 |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|----------------|-------------------------------|---------------------------|------------|---------|-----------------------|------------|--------------|-------------|------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|     |                | Synaglar we hasaplar          | Ýyllyk işler (daktamalar) | ECTS       | Hemmesi | Auditoriýa taýýarlygy |            |              |             | Tabahyň öňbaslaçak işi | 1   |                 | 2               |                 | 3               |                 | 4               |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|     |                |                               |                           |            |         | Umumy okuw            | Amaly okuw | Tegirne okuw | Söňbet okuw |                        | 1-nji yarymyýyl   | 2-nji yarymyýyl | 3-nji yarymyýyl | 4-nji yarymyýyl | 5-nji yarymyýyl | 6-njy yarymyýyl | 7-nji yarymyýyl | 8-nji yarymyýyl |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 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 |

**I. Umumy ynasanjerwerlik we umumy-yörelmäli dersler toplanýy**

|    |   |           |  |   |     |    |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
|----|---|-----------|--|---|-----|----|-----|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--|---|---|---|---|---|--|--|--|--|--|--|
| 1. | Türkmenistanyň taryhy                   | 1h        |  | 2 | 54  | 18 |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
| 2. | Psihologýanyň we pedagogikanyň esaslary | 2h        |  | 2 | 48  | 16 |     |  |  |  |  |  | 2 | 3 | 2 |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
| 3. | Türkmenistanyň kanunçylygynyň esaslary  | 3h        |  | 3 | 72  | 36 |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  | 3 | 4 | 3 |   |   |  |  |  |  |  |  |
| 4. | Filosofiýa                              | 4h        |  | 2 | 64  | 32 |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   | 3 | 4 | 2 |  |  |  |  |  |  |
| 5. | Synasary öwreniş                        | 5h        |  | 2 | 54  | 18 |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
| 6. | Ykdysady nazaryýet                      | 6h        |  | 2 | 64  | 32 |     |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
| 7. | Häzirki zaman türkmen jemgyýeti         | 7-8h, 8ds |  | 4 | 102 | 34 | 34  |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |  |  |  |
| 8. | Bedenterbiýe                            | 1-4h      |  |   | 136 |    | 136 |  |  |  |  |  | 2 | 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 |  |  |  |
|------------------------------|--------------------------------|------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| <b>IV. JEMLEÝJI MAGLUMAT</b> |                                |            |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1.                           | Synaglaryň we hasaplaryň sany: | 68         |   |   |   |   |   |   |    |    | 8  |    |    |    |    |    |    |    |    | 10 |    |    | 9  |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2.                           | Hepdelik auditoriýa sagady:    | 24         |   |   |   |   |   |   |    |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    | 24 |    |  |  |  |
| 3.                           | Hepdelik okuw ýüki:            | 45         |   |   |   |   |   |   |    |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    | 45 |    |  |  |  |
| 4.                           | Jemi ECTS:                     | 240        |   |   |   |   |   |   |    |    | 30 |    | 30 |    | 30 |    | 30 |    | 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



# 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**

| 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

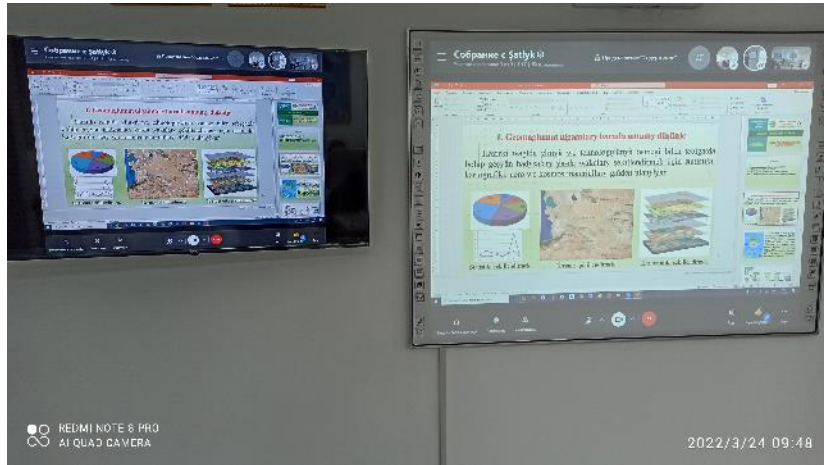
Titles of laboratory works that are planned to be conducted at PAL and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties)

**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)



# Dissemination and Sustainability

Table 5.1.1 DISSEMINATION

|   | Question   | Answer   |
|---|--|--|
| 1 | How many and which of dissemination materials were produced (leaflets, brochures, flyers, publications etc.). Please, provide designs (scans) in the presentation. | 500-600 pcs.   |
| 2 | Provide a link to the Internet sources where publications about the project/dissemination materials were posted  | tdbgi.edu.net  |
| 3 | How many non-consortium organizations (for example, universities/teachers, students, administrative staff of universities) have been informed about the project?   | Participation in the international exhibition-fair and conference "Education and Sport in the Age of Power and Happiness", held in the city of Ashgabat. Designing a stand for the NICOPA project at the exhibition site, an interview for the Altyn Asyr TV channel (November 14-15, 11).<br><br>Teachers – 190 Students – 1020 Administrative staff – 72 |

## Dissemination



# Dissemination and Sustainability

- Within the last 6 months of the project, were any employment events/fairs conducted and how many?
- How many agreements with non-academic stakeholders/other members of the consortium/ other non-consortium members have been signed so far or are planned to be signed in the future to maintain and develop the project results?
- How many bilateral agreements between consortium members were signed?

## Regional Cooperation

| <b>Table 5.2. INDUSTRIAL PARTNERS</b>   |   |
|---|---|
| Please, provide a list of new industrial partners, with which you maintain communication within the last 6 project months, and which could be interested in hiring your graduates | <ol style="list-style-type: none"><li>1. School of Economics and Business;</li><li>2. "Döwletli diýar" economic society;</li><li>3. Private Enterprise "Adjayyp durmush";</li><li>4. Economic society "Alem dostlugy"</li></ol> |



# 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 <a href="http://tdbgi.edu.tm">tdbgi.edu.tm</a> |
| 6  | How many NICOPA+ agreements were signed so far?  | 2  |





# Social and gender inclusion

**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<br>Department:<br>"Geodesy"<br>"Road construction "<br>"Construction Materials"           |



# 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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