

Turkmen state architecture and construction institute

	Questions/Tasks	Comments and Recommendations
1.	Work after the training in TU Berlin, August 2019	Information on the schedule of meetings for the exchange of knowledge gained during the training at TU Berlin in August 2019 is shown in table No. 3.
2.	Teaching materials The curricula update	Table No. 1 in the Appendix provides information on which existing courses are updated (+% readiness) and what materials will be used.
3.	New curricula	Table No. 2 in the Appendix shows the training materials planned for the creation of new curricula. Table No. 3 provides a schedule of teacher retraining for new teaching materials that were received at the training in TU Berlin and which were used for updated and new curricula.
4.	Accreditation	Accreditation of modules is planned from January 2020 to May 2020. Scheme No. 1 describes the accreditation procedure for the Institute.
5.	Quality assurance	Table No. 4 shows a list of quality indicators by which the quality of training programs will be evaluated. A list of possible reviewers for a future new curriculum is being negotiated.



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5.	Report on implementation of activities concerning dissemination and sustainability of the project results.	Appendix B contains a progress report on the dissemination of project results.
6.	Preparing and publishing brochures/leaflets of the project outputs	
7.	Preparation of documentation for a PASO office	
8.	Rooms for equipment	For equipment, 212 and 216 audiences were selected at the Department of Geodesy. Each of these rooms have a rectangular shape with an area of 48 square meters. meters and new windows made of plastic. The doors in the rooms are made of aluminum. Every year in these audiences, cosmetic repairs are carried out, if necessary, wiring and sockets are updated.
8.	Report on the communication process between your University and other PC Universities, EU partners, the Coordinator, and other project participants.	To communicate with other PC universities, partners from the EU, the Coordinator and other project participants, Skype, email, phones are used.
9.	Additional information	.



Teaching materials and existing courses to update

Title of the existing course to update	Name of the person(s) responsible for update + email	ECTS and hours for lecture/practical work	Teaching materials that will be used	How will the teaching materials improve the existing course? What will be new in the course due to the teaching materials?
Metrology and standardization	Polat Bashimov	lectures 36 hours practical lessons - 36 hours	In order to modernize the modules, educational and methodological complexes for the studied disciplines have been compiled. Consisting of more than 600 terms, an electronic dictionary of geodetic and cartographic terms (in three languages) helps to increase the professional level of knowledge among students.	Prepared modern interactive materials and presentations are one of the effective methods of stimulating and motivating educational cognitive activities due to which essential adjustment functions are provided educational activity, its cognitive, strong-willed and emotional activation. It is also planned to create in Turkmen an automated reference book on geodetic equipment.
Geodetic Instrumentation	Polat Bashimov	lectures 36 hours laboratory classes - 72 hour		
TFMGM (Theoretical foundations of mathematical processing of geodetic measurements)	Guncha Annayeva	lectures 36 hours laboratory classes - 36 hours		
Geodesic astronomy	Polat Bashimov	lectures 36 hours practical lessons-18 hours laboratory classes - 72 hours		



Teaching materials and existing courses to update

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Photogrammetry	Saadat Charyyeva	lectures - 18 hours, practical lessons-18 hours laboratory classes - 144 hours	In order to modernize the modules, educational and methodological complexes for the studied disciplines have been compiled. Consisting of more than 600 terms, an electronic dictionary of geodetic and cartographic terms (in three languages) helps to increase the professional level of knowledge among students.	Prepared modern interactive materials and presentations are one of the effective methods of stimulating and motivating educational cognitive activities due to which essential adjustment functions are provided educational activity, its cognitive, strong-willed and emotional activation. It is also planned to create in Turkmen an automated reference book on geodetic equipment.
Cartography	Guncha Annayeva	lectures 36 hours practical lessons - 36 hours laboratory classes - 108 hours		
Geographic Information Systems	Guncha Annayeva	lectures 36 hours practical training - 32 hours laboratory classes - 64 hours		
Geodetic Surveys	Saadat Charyyeva	lectures 36 hours practical lessons-18 hours laboratory classes - 64 hours		



Teaching materials and new curricula/Schedule of teacher retraining seminars on new teaching materials that were received at the training in TU Berlin

Title of the possible new course	Name of the person(s) responsible for developing + email	ECTS and hours for lecture/practical work	Teaching materials that will be used
Radio electronics	Byashimov Polat, Head of Department	In the process of harmonization	Materials of trainings, presentations, educational-methodical complexes
Remote sensing	Charyeva Saadat, teacher of the department "Geodesy"		

Workshop time	Responsible person and participants	краткая характеристика семинара
09.09	A. Garajev and teachers of the department "Geodesy"	Study of teaching materials of teachers who participated in the training in Berlin
13.09	Yolly Muradov and teachers of the department "Geodesy"	study of the methodological experience of teachers who participated in the training in Berlin



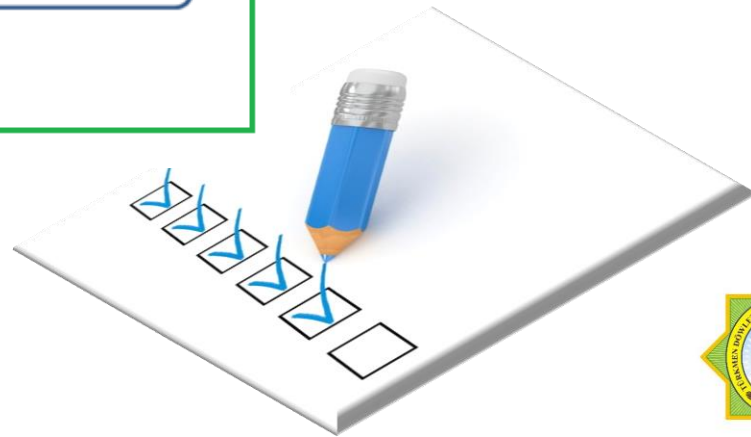
Teaching materials and new curricula/Schedule of teacher retraining seminars on new teaching materials that were received at the training in TU Berlin

Составление обновленной программы преподавателем (в бумажном и электронном варианте)

Рассмотрение программы на учебно-методическом совете факультета (выписка из протокола)

Утверждение окончательного варианта программы на учебном совете Института
(выписка из протокола)

Схема 1. Аккредитация модулей.



Criteria for assessing the quality of the work program

Program Quality Evaluation Criteria	SCORES		
	0 points	1 points	2 points
Relevance of the program:	Is absent	There are no components characteristic of the state educational standard	Aims to solve the main tasks for the implementation of the "Concept ..
Program structure:	Does not meet the requirements of the regulations on work programs	Some sections are not designed in accordance with the requirements of the regulations on work programs	All the main sections are presented in accordance with the requirements of the regulations on work programs
Registration of an explanatory note:	Does not reflect the structural content of the program	The goals and objectives of the program are not described accurately	There is a novelty and differences from the previous program
Compliance with the requirements for students.	Requirements are not formulated in accordance with the level of students	Control materials are not aimed at input current and final results	Control over the level of achievement of students is recorded in the main sections, contains a system that allows you to assess the level and quality of knowledge
Compliance of the curriculum content with the standard curriculum.	Does not correspond to the standard program	Only 20% corresponds to the standard program; changes are made unreasonably	The content is set out in accordance with the standard program
Correspondence of educational and methodological and material and technical support to the structural requirements of the program.	Does not contain a list of necessary educational and methodological sources	The main literary sources are not highlighted and the modern possibilities of material and technical support of the program are not indicated	Necessary and sufficient material and technical support of the program is indicated, design complies with the rules



Criteria for assessing the quality of the work program

Program Quality Evaluation Criteria	SCORES		
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Criteria for assessing the quality of the work program

75% -100% -program is recommended for use;

74% -50% -program needs to be improved;

49-25% - the program requires significant revision;

less than 24% - the program does not meet the requirements for the development of curricula.



Report on the work done to disseminate the results of the project

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. 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).



Report on the work done to disseminate the results of the project

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).

Teachers took part in speeches of 2-year students in modern areas of geodesy development at the Institute's scientific and practical conference dedicated to the Independence Day of Turkmenistan (September 20).

Television show with the participation of teachers of the department "Geodesy" on the use of modern geodetic tools in the construction industry on the state TV channel "Ashgabat" (25.10).

Participation in the XIII international book fair and conference "Book-the way to cooperation and development", held in Ashgabat (05.11).

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).



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Thank you for you attention!



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