

ENVIRONMENTAL RISK ASSESSMENT AND MITIGATION ON CULTURAL HERITAGE ASSETS IN CENTRAL ASIA

ERAMCA

ERASMUS+ CBHE PROJECT NR. 609574



Deliverable 6.1

Selection of the Students

Deliverable 6.2

Delivery of Theoretical Courses

Deliverable 6.3

Delivery of Practical Courses

Deliverable 6.4

Evaluation of the test's results and possible changes in the Master organisation

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1. Introduction

This report is aimed at documenting the progress of implementation of Work Package 6 which is entitled “Pilot Course” in the frame of an ERASMUS+ Capacity Building in the field of Higher Education grant project “ERAMCA – Environmental Risk Assessment and Mitigation on Cultural Heritage assets in Central Asia” with the reference number 609574-EPP-1-2019-1-IT-EPPKA2-CBHE-JP. The “**On-the – field**” consist of following activities: Selection of the Students for ERAMCA master program, Delivery of Theoretical Courses and Delivery of Practical Courses. This report also covers evaluation of the student’s achievements in all delivered courses, theoretical and practical lessons and test’s results. Report also contains proposals to possible changes in the organisation of ERAMCA master degree program.

2. Selection of the Students

To activation of ERAMCA Ms degree program in case of TTPU and SamSAACII, all syllabuses of each course and curriculum of master degree program has been submitted to Ministry of Higher Education of the Republic of Uzbekistan. It took an around two months for Ministry of Higher Education of the Republic of Uzbekistan to review all submitted documents and finally TTPU and SAMGASI are obtained License for activation of ERAMCA Ms degree program. TTU and KPITTU are also obtained License for activation of ERAMCA Ms degree program.

After obtaining the Licenses, admission procedures have started in TTPU, SamSAACII, TTU and KPITTU. In TTPU admission lasted from **25.07.2022 till 01.10.2022**. In TTU admission lasted from **25.07.2022 till 31.08.2022**. In all universities students were selected through the interview by the admission committee. Main selection criteria were background of students including marks obtained in Bachelor degree, motivation and goals after the graduation. Administration of TTPU and TTU were assigned following professors as an admission committee (Jury) (**Table 1**).

Table 1. List of admission committee of TTPU

N:	Admission committee of TTPU	Positions
1	Abdullayev Farxod	Dean of Turin Polytechnic University in Tashkent
2	Mahamatov Nurilla	Head of Department Civil Engineering and Architecture
3	Usmanov Saidislomkhon	Head of Department Civil Engineering and Architecture
4	Azamatov Abdulaziz	Professor, Department Civil Engineering and Architecture
5	Nazarova Dinara	Professor, Department Civil Engineering and Architecture

According to admission results, SamSAACII and KPITTU could not collect admissible students for 2022-2023 AY. In TTPU, only 19 students were applied to ERAMCA MS program for 2022-2023AY. In **table 3** given list of possible admissible students of TTPU. Admission committee of TTPU were selected only 17 students from 19. In **table 4** given list of admitted students of TTPU to ERAMCA MS program for 2022-2023AY. **Table 2** shows list of admitted students of ERAMCA MS program of TTU for 2022-2023AY. In 2023-2024 AY, TTU admitted 8 students for ERAMCA MS program (**Table 6**). **Table 7** shows list of admitted students of ERAMCA MS program of KPITTU for 2023-2024AY.

Table 3. List of admission committee of TTU

N:	Admission committee of TTU	Positions
1	Abdullozoda Ramazon	Vice rector on science and innovation in TTU
2	Bozorov Shamsiddin	Head of Department of science and innovation
3	Yakubov Alijon	Head of Construction and Architecture faculty
4	Mukimova Sayora	Professor, head of Department of Architecture
5	Mukimov Rustam	Professor, Department of Architecture

Table 4. List of possible admissible students of ERAMCA MS program of TTPU for 2022-2023AY

N:	Full name	N:	Full name
1	Ахмедова Фируза	11	Ишказакова Динора
2	Юнусова Саида	12	Абдураимова Азиза
3	Собиржонова Сарвиноз	13	Махмудова Мохинур
4	Джаббарова Нигина	14	Тошпулатова Барчиной
5	Шухратова Мафтуна	15	Жумаев Феруз
6	Каримова Гузаль	16	Набиханов Дильшод
7	Нигматхужаева Зульфия	17	Акрамова Дильбар
8	Вохидова Шахло	18	Бахадырова Малика
9	Магрипова Гузал	19	Ергашева Нилюфар
10	Абдужалилова Наргиза		

Table 5. List of admitted students of ERAMCA MS program of TTPU for 2022-2023AY

N:	Full name	N:	Full name
1	Ахмедова Фируза	11	Махмудова Мохинур
2	Юнусова Саида	12	Тошпулатова Барчиной
3	Собиржонова Сарвиноз	13	Жумаев Феруз
4	Джаббарова Нигина	14	Набиханов Дильшод
5	Шухратова Мафтуна	15	Акрамова Дильбар
6	Каримова Гузаль	16	Бахадырова Малика
7	Вохидова Шахло	17	Ергашева Нилюфар
8	Абдужалилова Наргиза		
9	Ишказакова Динора		
10	Абдураимова Азиза		

Table 6. List of admitted students of ERAMCA MS program of TTU for 2022-2023AY

N:	Full name
1	Abdusalomov Absoriddin
2	Emomov Anushervon
3	Niyozzi Fazliddin
4	Shoimardonov Khurshed
5	Sharipova Khursheda
6	Karimov Idris
7	Salomov Behzod
8	Kodirzoda Shokhsanam
9	Khabibov Nasokhiddin
10	Azimov Azamjon
11	Sabrina Azalbekova

Table 7. List of admitted students of ERAMCA MS program of TTU for 2023-2024AY

N:	Full name
1	Zikriyoev Atullohoja
2	Amakzoda Muhammadal
3	Aslamov Huseyn
4	Ashurov Avazkhan
5	Pirzoda Muhammad
6	Rajabzoda Zumrat
7	Saidova Dilafuz
8	Salikhova Munira

Table 7. list of admitted students of ERAMCA MS program of SamSAACII for 2023-2024AY

N:	Full name
1	Umarova Gulnora
2	Eshmurodov Odil

Table 8. list of admitted students of ERAMCA MS program of KPITTU for 2023-2024AY

N:	Full name
1	Akhmedov Salohiddin Ortukalievich
2	Islomiyon Odil Olimzoda
3	Iskandarova Khonzoda Khairullokhonovna
4	Usmonov Usmonkha Farrukhovich
5	Olimova Aziza Olimovna
6	Rakhmatov Akram Mubinkhokhaevich
7	Khalilova Sitora Shuhratovna
8	Kodirov Gufronhon Abdugafurovich
9	Soliev Ibrohim Furkatovich
10	Gafforova Bunafsha Shuhratchonovna

3. Delivery of Theoretical Courses

Academic year starts in different time in Tajikistan and Uzbekistan. In TTPU first semester of 2022-2023 Academic year was started on 10th of October, 2022 and finished 25th of December. In first semester, master students were studied totally fifteen weeks and obtained following courses in **table 8** according to the developed ERAMCA master program. In first semester, master students were selected BIM (Building information modelling) course among elective course. Theoretical and practical Lessons were conducted in the ERAMCA laboratories in TTPU and TTU. Second semester of 2022-2023AY was started from middle of January, 2023 and lasted fifteen weeks. In second semester master students were obtained following courses in **table 9**. In second semester, master students were selected Urban Planning course among other elective courses. The number of credits per subject is in general 6 ECTS as in many European countries.

Table 8 shows list of courses of first semester of ERAMCA MS program of TTU for 2022-2023AY and **Table 9** shows List of courses of second semester of ERAMCA MS program of TTU for 2023-2024AY. **Table 12 and Table13** shows list of courses of first and second semesters of ERAMCA MS program of KPITTU for 2023-2024AY.

Table 10. List of courses of first semester of ERAMCA MS program of TTPU for 2022-2023AY

N:	Courses	Professor	ECTS credits
1	History of Architecture in Central Asia	Dinara Nazarova	6
2	Geomatics I	Saidislomkhon Usmanov	6
3	Structural Mechanics	Bahrom Tulaganov	6
4	Hydrogeology	Erkin Khaltursunov	6
5	BIM (Building information modelling)	Nizomiddin Boronov	6
	Total		30

Table 11. List of courses of second semester of ERAMCA MS program of TTPU for 2022-2023AY

N:	Courses	Professor	ECTS credits
1	Restoration I: History and Theories	Farhod Rihsiev	6
2	Geotechnical Engineering	Mukhitdin Juliev	6
3	Eqrthquake Engineering	Begmurod Karimov	6
4	Advanced Structural Mechanics	Temur Abduvahidov	6
5	Urban Planning	Dinara Nazarova	6
	Total		30

Table 12. List of courses of first semester of ERAMCA MS program of TTU for 2022-2023AY

N:	Courses	Professor	ECTS credits
1	History of architecture	Rustam Mukimov	6
2	Geomatics	Jafar Niyazov Bozorov Shamsiddin,	6
3	Structural Mechanics	Qalandarbekov Iftikhor	6
4	Hydrogeology	Saidov Furqat (2022)/ Qalandarbekov Iftikhor (2023)	6
5	Restoration	Rustam Mukimov	6
6	Geotechnics	Qalandarbekov Iftikhor	6
7	Seismic Engineering	Rakhmonzoda Akhmadjon	6
8	Advanced Structural Mechanics	Rakhmonzoda Akhmadjon	6
9	Psychology and fundamentals of scientific projects	Rakhimov Muhsin	6

Table 13. List of courses of second semester of ERAMCA MS program of TTU for 2023-2024AY

N:	Courses	Professor	ECTS credits
1	Restoration II	Mukimov Rustam	6
2	Geomatics II	Jafar Niyazov, Shamsiddin Bozorov	6
3	Seismic Protection of Historical Structures	Rakhmonzoda Akhmadjon, Qalandarbekov Iftikhor	6
4	Geotechnical and hydrogeological risk assessment and mitigation	Qalandarbekov Iftikhor	12
	Total		30

Table 14. List of courses of first semester of ERAMCA MS program of KPITTU for 2023-2024AY

N:	Courses	Professor	ECTS credits
1	History of Architecture in Central Asia	Shuhrat Usmonov	6
2	Geomatics I	Usmanzhon Akhmedov	6
3	Structural Mechanics	Farrukh Aminov	6
4	Hydrogeology	Amirtimir Vahobov	6
5	BIM (Building information modelling)		6
	Total		30

Table 15. List of courses of second semester of ERAMCA MS program of KPITTU for 2024-2025AY

N:	Courses	Professor	ECTS credits
1	Restoration I: History and Theories	Shuhrat Usmonov	6
2	Geotechnical Engineering	Amirtimir Vahobov	6
3	Eqrthquake Engineering	Farrukh Aminov	6
4	Advanced Structural Mechanics	Farrukh Aminov	6
5	Risk Assessment and Mitigation (Hydrogeology and Geotechnics)	Amirtimir Vahobov	6
Total			30

The most part of theoretical courses were delivered to students during the lectures. Moreover, students were visited to government authorities and Interviews were organised with the government officials to better understand the real issues on management and condition of historical monuments. During the first and second semester master students TTPU with along their professors were visited to Board of Monument in Tashkent and Bukhara offices (Board of monument is the main government organisation who is responsible for preservation, restoration and management of historical monuments), the State Unitary Enterprise «O’ZSHAHARSOZLIK LITI» («O’ZSHAHARSOZLIK LITI» is the leading design organization in the field of town planning and conductor of unified scientific and technical policy of state, provides the town planning documents cities and towns of the Republic of Uzbekistan, develops design documentation for construction of buildings and structures), Government agency of historical monuments of the Republic of Uzbekistan, UNESCO office in Tashkent and Ministry of Construction of the republic of Uzbekistan. These meetings and visits enable easy approach to variety of specific research topics or job placement opportunities for master students.



Figure 1. ERAMCA master students of TTPU are in «O’ZSHAHARSOZLIK LITI»



Figure 2. ERAMCA master students of TTPU are in Board of Monument in Tashkent and Bukhara offices



Figure 3. ERAMCA master students of TTPU are in meeting with specialists from Ministry of Construction of Uzbekistan



Figure 4. ERAMCA master students of TTU are in lecture of Geomatic I course



Figure 5. ERAMCA master students of TTU are in lecture of Geomatic I course



Figure 6. ERAMCA master students of KPITTU are in lecture of Restoration I course



Figure 7. ERAMCA master students of KPITTU are in lecture of Geomatic I course

4. Delivery of Practical Courses

The overall pedagogical approach is set up with an outline of innovative learning schemes including e-learning, participate learning and learning by doing. Each course of ERANCA MS program has practical part. In most part of the practice done by learning by doing methods using ERAMCA Laboratory equipment.

In the context of the ERAMCA project, TTU plays a pivotal role in delivering practical courses aimed at enhancing the skills and competencies of students enrolled in the ERAMCA master program. The practical courses at TTU are designed to provide students with hands-on experiences in environmental risk assessment and mitigation specific to cultural heritage assets in Central Asia. The practical courses at TTU are structured to achieve several key objectives: Application of Theoretical Knowledge: Bridge the gap between theoretical concepts learned in the classroom and their practical implementation in real-world scenarios.

Skill Development: Foster the development of practical skills essential for conducting environmental risk assessments and implementing effective mitigation strategies. **Interdisciplinary Collaboration:** Encourage collaboration among students from various disciplines to simulate real-world working environments.

The practical courses at TTU employ a mix of teaching methods to ensure a comprehensive learning experience:

- Students participate in field trips to relevant cultural heritage sites, allowing them to apply theoretical knowledge in authentic settings.
- Practical sessions in well-equipped ERAMCA laboratory facilitate experimentation and analysis.
- The success of the practical courses is reflected in the active participation of students and their notable achievements.

Assessment in practical courses involves a combination of continuous evaluation and project-based assessments: Students present their findings and recommendations, allowing for the evaluation of communication and presentation skills.

The practical courses seamlessly integrate with theoretical components offered in other ERAMCA master program courses at TTU. This integration ensures a holistic understanding of environmental risk assessment and mitigation. Feedback from students underscores the positive impact of practical courses on their learning experience. Continuous evaluation mechanisms allow for timely adjustments to address any challenges identified.



Figure 8. ERAMCA master students of TTPU are in metric surveying, GEOMATIC I course



Figure 9. ERAMCA master students of TTPU are in course of History of Architecture in Central Asia



Figure 10. ERAMCA master students of TTU are in practice of structural mechanics course



Figure 11. ERAMCA master students of TTU are in practice of structural mechanics course



Figure 12. ERAMCA master students of KPITTU are in metric surveying, GEOMATIC I course

With respect to Table 1, in the 1st year the students are provided with theoretical backgrounds on different disciplines with basic training on examples to learn the use of software and instruments. In the 2nd year the students are involved into the analysis and data collection from specific case studies where they can elaborate the idea for the final thesis.

The 4th semester is comprised with the research (laboratory or field work) oriented Master's (M. Sc.) thesis writing and submission (research-based learning) of total 20 ECTS, and prior to that, the compulsory training period e.g. professional practice (stakeholders) as a work-based learning pedagogical approach of total 10 ECTS. Each discipline introduces a more detailed information by considering the selected case study. The remaining credits are devoted to develop the analysis and solution proposals on the specific case study.



Figure 13. ERAMCA master students of TTPU are introducing geology of Uzbekistan in Institute of Geology of Uzbekistan



Figure 14. ERAMCA master students of TTPU are in practice of Earthquake Engineering course

Except from lectures and practical classes provided according to ERAMCA master program, students actively participated in scientific conferences, seminars, project meetings and even involved in UNESCO research projects. Conferences, workshops, and seminars play a significant role in a student's life.



Figure 15. ERAMCA master students of TTPU are in practice of Urban Planning course

They serve as venues for not just learning about new topics, different viewpoints, and the most recent information, but also for networking. Seminars also help participants improve their listening skills, articulate their points of view, and be receptive to other viewpoints.

Giving a poster presentation at a conference enables students to develop soft skills that are beneficial to their academic careers. Graduate and postgraduate students who create posters do a further level of science exploration. The student develops abilities that will be useful in the future by presenting a poster.

Aziza Abduraimova, Gozal Karimova and Nigina Jaborova were won a Best Poster Award at the **“ANNUAL CONFERENCES AND EXHIBITION OF THE TURIN POLYTECHNIC UNIVERSITY IN TASHKENT”** that was held on 27th of April 2023 on occasion of the 14th Anniversary of TTPU.

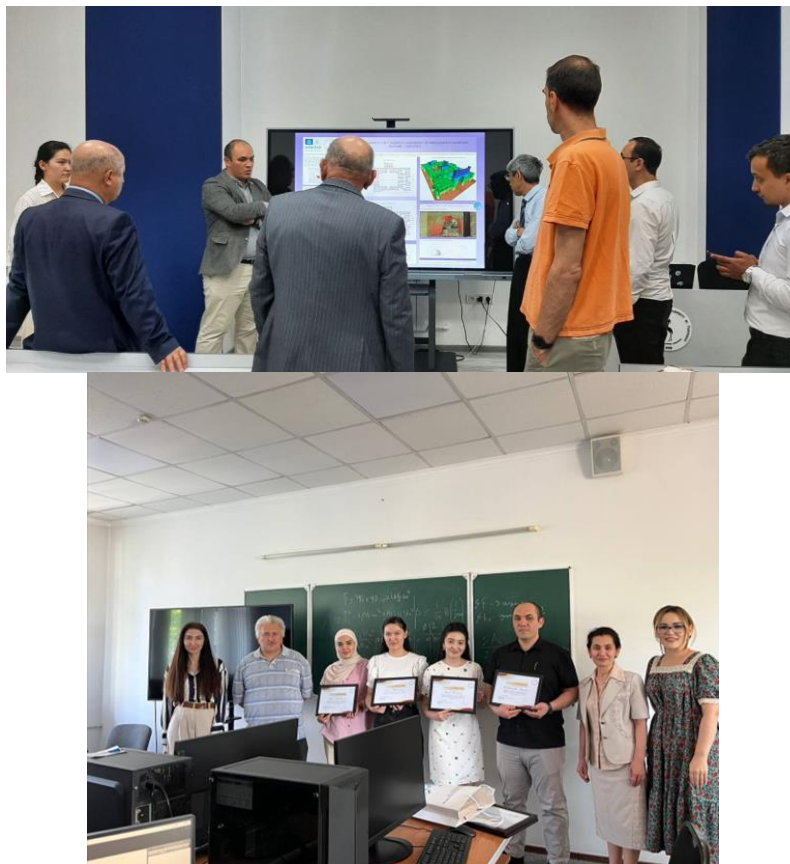


Figure 16. Poster presentation and awarding ceremony of ERAMCA master students of TTPU



Figure 17. ERAMCA master students of TTPU were attended at the scientific seminar by Azim Houshyar Western Michigan University (USA)

Another ERAMCA master student *Feruz Jumaev* won a “Best Painter nomination” at the Drawings Exhibition that was held on 23rd of June 2023 among the students of TTPU.

New academic year 2023-2024 AY in TTPU will start from middle of September, 2023. ERAMCA master students will become 2nd year and will obtain courses belong to 3rd and 4th year semester. **Table 14** and **table 15** shows list of courses of 3rd and 4th semester. As you see in **table 8** and **table 9**, most of the time ERAMCA master students obtain specific courses which is important for their diploma works and 4th semester students will spend their time totally for finalising for their master thesis. According to regulation of TTPU, each month ERAMCA master students should present the research progress of their master thesis to professors to ensure successful completion of ERAMCA master degree.



Figure 18. ERAMCA master student of TTPU Feruz Jumaev and his “Best Painter nomination” diploma

Table 16. List of courses of third semester of ERAMCA MS program for 2023-2024AY

N:	Courses	Professor	ECTS credits
1	Restoration II	Mavluda Yusupova, Farhod Rihsiev	6
2	Geomatics II	Saidislomkhon Usmanov	6
3	Seismic Protection of Historical Structures	Karimov Begmurod	6
4	Geotechnical and hydrogeological risk assessment and mitigation	Mukhitdin Juliev, Erkin Khaltursunov	12
Total			30

Table 17. List of courses of fourth semester of ERAMCA MS program for 2023-2024 AY

N:	Courses	Professor	ECTS credits
1	Professional practice (Internship)/Master Thesis (including laboratory research or field work)	Diploma supervisor of each student	30
Total			30

5. Evaluation of the test's results and possible changes in the Master organisation

In general, in TTPU one semester consist of 15 weeks and during these week students obtain courses according to curriculum. According to regulation of TTPU in weeks 16th and 17th students will have a exams and evaluations from obtained courses. ERAMCA master students are also followed above regulations.

In weeks of 16th and 17th, ERAMCA master students had an exam from 1st and 2nd semester's courses. Knowledge of students are evaluated based on their Class attendance and participation, group project, report and presentation and self-study. Professor can insert the student's obtained score directly to LMS (Learning Management Systems) portal of the university. In **table 16** and **table 17** were shown the scores of ERAMCA master students for 1st and 2nd semesters. Maximum score for each subject is 30 and minimum is 18. Figure 12 shows List of the students and their obtained score from GEOMATICS I course in LMS portal.

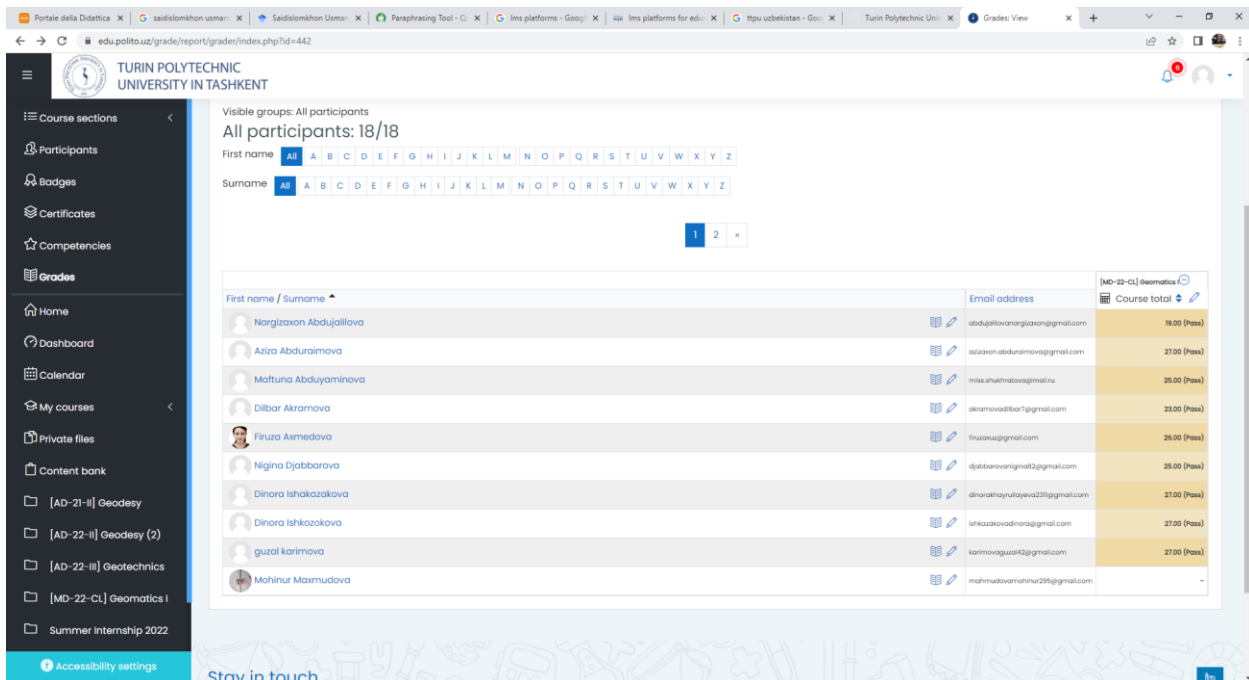
LMS PORTAL offers many benefits to both students and teachers. For students, it provides flexibility and convenience as they can access learning materials at their own pace from any location. Teachers can also benefit from these platforms as they provide them with tools to organize their courses, track student progress, and provide support through interactive sessions. The platform also enables collaboration between students, which fosters a sense of community and helps them learn from each other. This collaborative approach creates opportunities for peer-to-peer learning that is essential for success in today's fast-paced world.

Table 18. Evaluations of ERAMCA master students (semester-I, max score 30, 18 – passed)

N:	Name of Students	History of Architecture in Central Asia	Geomatics I	Structural Mechanics	Hydrogeology	BIM
1	Ahmedova Firuza	26	26	23	18	26
2	Yunusova Saida	27	26	30L	27	26
3	Sobirjonova Sarvinoz	29	28	30	30	29
4	Djaborova Nigina	24	25	25	25	26
5	Shuhratova Maftuna	26	25	29	26	29
6	Karimova Gozal	27	28	30L	27	28
7	Vohidova Shahlo	29	23	21	23	26
8	Abdujalilova Nargiza	25	19	19	22	26
9	Ishkzakova Dinara	25	27	25	25	30
10	Abduraimova Aziza	28	27	28	30	28
11	Mahmudova Mohinur	25	18	18	18	-
12	Toshpulatova Barchinoy	25	25	23	30	27
13	Jumaev Feruz	-	21	21	23	-
14	Akramova Dilbar	28	23	24	21	-
15	Nabihanov Dilshod	-	18	22	18	-
16	Bahadirova Malika	-	24	22	30	26
17	Ergasheva Nilufar	-	18	18	-	-

Table 19. Evaluations of ERAMCA master students (semester-II, max score 30, 18 – passed)

N:	Name of Students	Restoration I: History and Theories	Geotechnical Engineering	Eqrthquake Engineering	Advanced Structural Mechanics	Urban Planning
1	Ahmedova Firuza		24	24	24	27
2	Yunusova Saida		30	27	30	30
3	Sobirjonova Sarvinoz		25	26	28	28
4	Djaborova Nigina		28	27	28	24
5	Shuhratova Maftuna		23	25	-	25
6	Karimova Gozal		25	27	28	30
7	Vohidova Shahlo		24	24	22	29
8	Abdujalilova Nargiza		23	26	-	26
9	Ishkzakova Dinara		27	25	28	28
10	Abduraimova Aziza		28	26	30	29
11	Mahmudova Mohinur		25	24	24	25
12	Toshpulatova Barchinoy		25	25	26	28
13	Jumaev Feruz		-	23	-	-
14	Akramova Dilbar		23	24	20	28
15	Nabihanov Dilshod		-	-	-	-
16	Bahadirova Malika		-	-	20	-
17	Ergasheva Nilufar		23	23	-	27



First name / Surname	Email address	[MD-22-CL] Geomatics I
Nargizxon Abdullajlova	abdullajlovanargizxon@gmail.com	18.00 (Pass)
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Figure 19. List of the students and their obtained score from GEOMATICS I course in LMS portal

6. Concluding Remarks

ERAMCA master students in TTPU and TTU have already finished 3rd semester. Professors of both universities and also KPITTU and SamsAACII are also unanimously convinced that technical English and presentation skills in English courses are important for ERAMCA master students. Therefore, technical English and presentation skills in English courses must be added to existing curriculum as an elective course.

There are a lot of cities with hundreds of architectural monuments from different periods in Central Asia. But these historical monuments are suffering from inappropriate and wrong restoration works due to lack of young specialists with modern knowledge. This is also recognized by the national and international authorities of Uzbekistan and Tajikistan. The aim of the ERAMCA project is to support the governments of Uzbekistan and Tajikistan to solve this problem via establishing a master's degree program using European experience.

One and half year of study showed that this is the correct solution to the problem. It can be proven by research work and projects of ERAMCA MS students which were presented to the project delegation and visitors during the 5th meeting of the ERAMCA project and the Final Workshop. Delegation was highly recognized the student's research work and projects.

The 5th meeting of the ERAMCA project and the Final Workshop were convened from January 7 to 11 of 2024 at Turin Polytechnic University in Tashkent (TTPU), Uzbekistan (**Figure 20**). The aim of the meeting was to gather all ERAMCA project partners at TTPU to discuss the progress of the activation of the ERAMCA master's degree program and laboratory at every partner university. At the end of the meeting, the delegation visited the new ERAMCA laboratory, met master students and got acquainted with their research activities. In the future, the ERAMCA MS program will continue in each partner university with an updated curriculum.





Figure 20. The 5th meeting of the ERAMCA project and the Final Workshop