

Periodical Report  
18 Months of project  
implementation

# Crisis and Risk Engineering for Transport Services

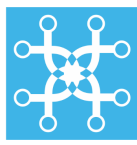
# BAKU ENGINEERING UNIVERSITY (BEU)



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

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

**Mr. Arif Najimov,**  
**Local project coordinator / manager**



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**The 18 monthly report (15.11.2018 - 15.05.2020) of Baku Engineering University (BEU) according to the WPs of "Crisis and Risks Engineering for Transport Services (CRENG)" Erasmus+ K2 project:**

**The 18 monthly  
report of BEU**

1. Organizing working plan and administrative/academic working group at BEU;
2. List of BEU teachers that will develop new courses for Master Program;
3. Criteria for teacher selection for the trainings in EU HEIs;
4. Organizing Quality Assurance (QA) Plan and QA working group of BEU;
5. CRENG+ Agreements and plan/timelines of signing;
6. Equipment & Software for BEU;
7. CRENG Service Office and Laboratory of BEU;
8. Dissemination plan of BEU and schedule of dissemination events;
9. Implemented dissemination activities of BEU;
10. The textbook preparation activity of BEU CRENG project team members;
11. Non-consortium organizations which BEU is working with them;
12. Communication with the project team members, partners and coordinator.





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***Introduction the WPs of "Crisis and Risks Engineering for Transport Services (CRENG)" Erasmus+ K2 project:***

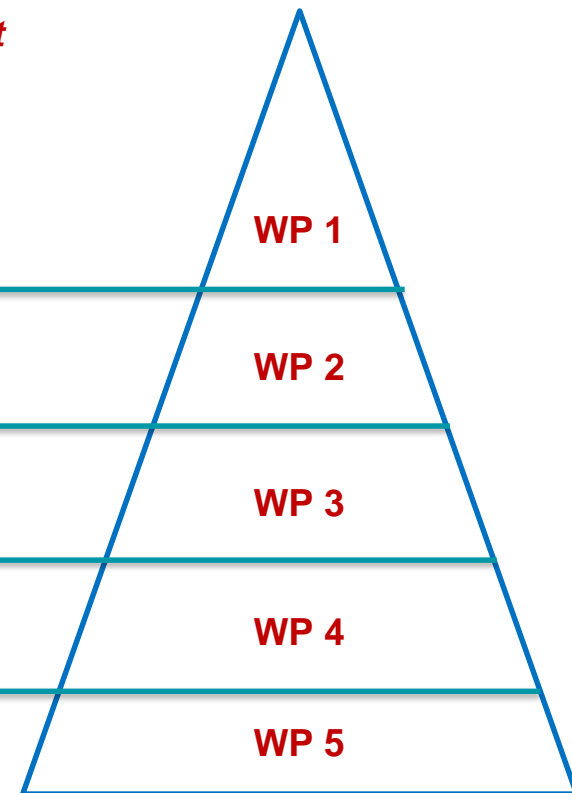
**WP 1: PREPARATION** - Designing Agreement and guidelines on instructional strategies for MA program "CRENG" development.

**WP 2: DEVELOPMENT** - Development of new MA program "CRENG" and innovative teaching environment.

**WP 3: QUALITY PLAN** - Internal and external quality control of processes and deliverables.

**WP 4: DISSEMINATION & EXPLOITATION** - Strategy dissemination and event plan.

**WP 5: MANAGEMENT** - Management of the project.





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## 1. Organizing working plan and administrative/academic working group at BEU

No	Activity	Timeline	Result
1	Establishing communication with the Project coordinator/team and organizing/coordinating a working group at BEU.	15.11-15.12.2018	Done
2	Preparation and development of draft Partnership Agreement (PA) for BEU, making it ready for registration at the Ministry of Economy of the Republic of Azerbaijan as well as successfully management of registration process.	15.01-15.02.2019	Done
3	Participating at the Kick-off meeting of the project with 2 project staff members at Warsaw University of Technology / Poland on the 27-28.02.2019 and organizing info day at the University. Preparation dissemination plan of BEU and schedule of dissemination events as well as the dissemination materials of the CRENG Erasmus+ KA2 project for web-site/social media pages of BEU.	15.02-15.03.2019	Done
4	Preparing a list of current disciplines and subjects of “Logistics and Transport Technologies Engineering” specialty of BEU according to the detailed information of the project which it was provide by the project coordinator as well as preparing a questionnaire in order to analyze “Logistics and Transport Technologies Engineering” specialty of BEU and its relevance to the current disciplines of the project.	15.03.-15.04.2019	Done
5	Creating a quality group at BEU responsible for the quality level of each new or modernized module in the target field by the university and industries/stakeholders; preparing a schedule of BEU quality group meeting and developing quality indicators to assess quality level of each new or modernized modules in the target field.	15.04-15.05.2019	Done
6	Developing new modules at BEU using new curricula descriptions and training materials from EU universities (WTU, TUB and UPHF) and preparation of criteria for the selection of teachers of BEU to participate in training at EU HEIs.	15.05-15.06.2019	Done
7	Select relevant place and preparing a list of equipment for CRENG Labs and CRENG Service Office at BEU.	15.06.-15.07.2019	Done
8	Working with involved local project team at BEU, implementing WPs and managing events of the project at BEU.	15.09-15.05.2020	Done



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## 1. Organizing working plan and administrative/academic working group at BEU

**Table 1.1.: Working group of BEU for implementing WPs of the “CRENG” Erasmus+ KA2 project**

No	Name, Surname, email	Position at the University	Position at the CRENG project	Responsibility (WP, tasks according to the work plan)
1	Mr. Arif Najimov	Head of International Relations and Projects Management Department & Researcher	Local co-ordinator/project manager	Local coordination and management of CRENG project at BEU and implement some technical/administrative & research works.
2	Mr. Manafaddin Namazov	Vice-rector for International relations & Lecturer	Researcher & Teacher	Participate at the curriculum development and providing lectures.
3	Mr. Rauf Mammadov	Head of Master and PhD Department & Lecturer	Researcher & Teacher	Participate at the curriculum development and providing lectures.
4	Mr. Parviz Hasanov	Head of Industrial Engineering Department & Lecturer	Researcher & Teacher	Participate at the curriculum development and providing lectures.
5	Mr. Bakhtiyar Namazov	Lecturer of Mechanical Engineering Department	Researcher & Teacher	Participate at the curriculum development and providing lectures.
6	Mrs. Ulkar Abdurahmanova	Leading specialist of Master and PhD Department & Lecturer	Researcher & Teacher	Participate at the curriculum development and providing lectures.
7	Mr. Etibar Gahramanov	Lecturer of Industrial Engineering Department	Researcher & Teacher	Participate at the curriculum development and providing lectures.
8	Mr. Ilgar Khurshudov	Lecturer of Industrial Engineering Department	Researcher & Teacher	Participate at the curriculum development and providing lectures.
9	Mr. Samir Musayev	Head of Accounting Department & Lecturer	Technical staff	Participate at the project and support about financial reports.
10	Mrs. Narmin Alakberova	Specialist of International Relations and Projects Management Department & Researcher	Technical and Administrative staff	Participate at the project and implement technical-administrative tasks.



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## 2. List of BEU teachers that will develop new courses for Master Program

Name of the course to be upgraded	Person / teacher / department / faculty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines	Estimate the percentage of lecture notes/presentations development
New technologies and big data for innovations in crisis and risk management + IT Security - 6 ECTS	Mr. Manafaddin Namazov, Associate professor, Vice-rector for International relations & Lecturer	Using gained experiences from EU partners and integration into the BEU curriculums as well as preparation of the teaching materials	End of the 2019-2020 academic year	75%
Informational-Analytic and Diagnostics for Sociotechnical System - 6 ECTS				
Supply chain management and networks - 5 ECTS	Mr. Parviz Hasanov, Associate professor, Head of Industrial Engineering Department & Lecturer			75%
Project management and leadership in logistics and research, through open communication and team-working - 5 ECTS				
Carrier Managing, Soft skills for engineer, basics of technical creativity - 3 ECTS				



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## 2. List of BEU teachers that will develop new courses for Master Program

Humanitarian logistics and transport services in disasters conditions - 6 ECTS	Mr. Rauf Mammadov, Associate professor, Head of Master and PhD Department & Lecturer	Using gained experiences from EU partners and integration into the BEU curriculums as well as preparation of the teaching materials	End of the 2019-2020 academic year	75%
New challenges for crisis and risk management in logistics systems - 5 ECTS				75%
Risk and crisis engineering of Transport systems - 5 ECTS	Mr. Bakhtiyar Namazov, Associate professor, Lecturer of Mechanical Engineering Department			75%
Risk and crisis forecast, Analysis and Reduction Methods and Tools - 10 ECTS	Mr. Etibar Gahramanov, Lecturer of Industrial Engineering Department			75%
Disaster preparedness – challenges, principles, recourses, systems and tools - 6 ECTS				75%
Safety Management and Incident Investigation - 6 ECTS				
Health, Safety & Environmental Management Systems - 6 ECTS				



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## 2. List of BEU teachers that will develop new courses for Master Program

Emergency Response & Crisis Management - 6 ECTS	Mr. Ilgar Khurshudov, Lecturer of Industrial Engineering Department	Using gained experiences from EU partners and integration into the BEU curriculums as well as preparation of the teaching materials	End of the 2019-2020 academic year	75%
Hazard Identification - 5 ECTS				
Human Factors in Design & Operations – 5 ECTS				
Research methods and professional development - 5 ECTS	Mrs. Ulkar Abdurahmanova, Leading specialist of Master and PhD Department & Lecturer	Using gained experiences from EU partners and integration into the BEU curriculums as well as preparation of the teaching materials	End of the 2019-2020 academic year	75%





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## 2.1. Official letter to the Ministry of Education about opening & accreditation new “CRENG” MSc degree program at BEU

**AZƏRBAYCAN RESPUBLİKASI**  
TƏHSİL NAZİRLİYİ  
**BAKI MÜHƏNDİSLİK UNIVERSİTETİ**  
PUBLİK HÜQUQİ ŞƏXS



**THE REPUBLIC OF AZERBAIJAN**  
MINISTRY OF EDUCATION  
**BAKU ENGINEERING UNIVERSITY**  
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- 30 - 06 20 20 21 № 03/2527

Dear Dr. Konrad Lewczuk,

On behalf of Baku Engineering University (BEU) I would like to express a real situation depending on one of the main objectives of the CRENG Erasmus+ KA2 project.

As you know opening new Master program with adopting 13 new subjects of CRENG Master program curriculum is one of the priority goals of the project. Depending on the rules and regulation of Education law of the Republic of Azerbaijan, the universities couldn't open any new master programs by themselves. The universities only can use study programs from the list of authorized by the Cabinet of Ministers of the Republic of Azerbaijan (CoM). Considering the Education law, only the Ministry of Education of the Republic of Azerbaijan (MoE) can apply to the CoM for opening a new master program and adding it to the list of existing study programs.

Related to above mentioned steps Baku Engineering University (BEU) together with 2 local CRENG partner universities had a meeting with the head of relevant department at the MoE on 5.02.2020. In the conclusion of the meeting it was decided that all 3 universities should prepare an official letter addressed to the MoE and they will prepare and send set of documents to the CoM for opening a new Master program with the name of CRENG.

Depending on decision of BEU project staff members, we had prepared and sent an official letter (attachment 1) to the MoE on 19.02.2020. Currently, I would like to inform you that overall control of the process is on the responsibility of MoE and they have already prepared a set of related documents and applied to the CoM. Expected date of adding new CRENG Master program to the list of all study programs is the end of 2020 and student admission will start in 2021/2022 academic year.

Besides, considering the project requirement, BEU has already started to prepare all 13 new subjects of a new CRENG Master program curriculum and starting from 2020/2021 academic year our teachers will teach some subject (30%-50%) to our students who study at the existing and relevant "Logistics and Transport Engineering" specialty and from 2021/2022 academic year our teachers will teach all subjects (100%) at the CRENG Master program.

Rector:  Prof. Dr. Havar Mammadov

Attachment: 1 page (official letter to the MoE)



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- 15 - 02 20 20 21 № 01/2237

Azərbaycan Respublikasının  
Təhsil naziri cənab Ceyhun Bayramova

Hörmətli Ceyhun müəllim!

Məlumat üçün bildirik ki, Azərbaycan Respublikası Təhsil Nazirliyinin tərəfdarlığı və Polşanın Varşava Texnologiya Universitetinin koordinasiya olduğu ilə 2018-ci ilin 15 noyabr tarixindən etibarən birgə icra olunan Avropa İttifaqının maliyyələşdirdiyi "Naqliyyat xidmətləri üçün bəhrən və risklər mühəndisliyi/ Crisis and Risks Engineering for Transport Services (CRENG)/ Erasmus+ KA2 Layihəsində Bakı Mühəndislik Universiteti də tərəfdar universitet kimi iştirak edir.

Sözgedən Layihənin məqsədi tərəfdar universitetlərdə magistratura səviyyəsində "Naqliyyat xidmətləri üçün bəhrən və risklər mühəndisliyi" adlı yeni ixtisasın (ixtisaslaşmanın) açılması ilə yanaşı bir "CRENG" adlı tədris laboratoriyası və "CRENG Xidmət Mərkəzi"ni təşkil etməkdir. Bunlarla yanaşı Layihə çərçivəsində hər tərəfdar universitetdən 3 nəfər cəlb olunmaqla açılacaq yeni məktəb ixtisasına və tədris olunaçaq yeni fənlərə uyğun olaraq Avropalı tərəfdarların təcrübələrindən faydalanmaq məqsədilə Polşada, Almaniya və Fransada iki həftəlik intensiv təlimlər təşkil edilmişdir.

Layihə çərçivəsində "Naqliyyat xidmətləri üçün bəhrən və risklər mühəndisliyi" adlı yeni program üçün Avropa Universitetlərindən 10 baza və 3 seçmə fənn təklif edilmişdir ki, bunların da əsasında yeni ixtisas üzrə təhsil programının (standart) hazırlanması nəzərdə tutulub.

Azərbaycan Respublikası Nazir Kabinetinin 2011-ci il 14 iyun tarixli 95 nömrəli qərarı ilə təsdiq edilmiş "Ali təhsilin magistratura səviyyəsi üzrə ixtisasların (ixtisaslaşmaların) Təsnifatı"nda "CRENG" adlı Erasmus+ KA2 Layihəsi çərçivəsində təklif olunan ixtisaslaşma olmadığından, Layihənin iştirakçıları olan Azərbaycan Ali təhsil müəssisələri çıxış yolu olaraq "Naqliyyatda daşımaların və idarələmənin təşkilat mühəndisliyi" ixtisasının və "Naqliyyat logistika" ixtisaslaşmasının tədris planını müəyyən edərək onun əsasında təhsil programını təkmilləşdirməyə başlamışdır. Lakin cari Layihədə qeyd olunan ixtisasın adı ilə həzrədə baza kimi seçilmiş ixtisaslaşma adlarında olan uyğunsuzluq Layihə çərçivəsində aparılan işlər üçün müəyyən çətinliklər yaradır və Avropadan Layihə rəhbərləri tərəfindən müsbət qarşılanmır.

Bunu nəzərə alaraq, Layihədə işlərin səmərəli davam etdirilməsi məqsədilə Ali təhsilin magistratura səviyyəsi üzrə ixtisasların (ixtisaslaşmaların) Təsnifatına "Naqliyyat xidmətləri üçün bəhrən və risklər mühəndisliyi" ixtisaslaşmasının əlavə edilməsi üçün köməklik göstərilməsini Sizdən xahiş edirik.

Hörmətli,  
Rektor



Havar Mammadov



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### 3. Criteria for teacher selection for the trainings in EU HEIs:

1. BEU staff member (full time)

5. Team works skills

2. Relevant academic background

4. Experiences to develop curriculum  
according to EU standards

3. Languages skills (English and Russian)





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### 3.1. The BEU project team members attended the Kick-off meeting at the Faculty of Transport of Warsaw University of Technology (Poland) on the 27 - 28 February 2019.

- 1) **Mr. Manafaddin Namazov**, Vice-rector for International relations of BEU;
- 2) **Mr. Arif Najimov**, Head of International Relations and Projects Management Department of BEU.







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### 3.2. The BEU project team members attended the Training & Coordination Meeting at the Technische Universität Berlin (Germany) on the 9 - 21.09.2019.

- 1) **Mr. Manafaddin Namazov**, Vice-rector for International relations of BEU;
- 2) **Mr. Parviz Hasanov**, Head of Industrial Engineering Department of BEU;
- 3) **Mrs. Ulkar Abdurahmanova**, Leading specialist of Master and PhD Department & Lecturer.





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### 3.3. The BEU project team members attended the Training & Coordination Meeting at the Warsaw University of Technology (Poland) on the 24.11 - 06.12.2019.

- 1) **Mr. Bakhtiyar Namazov**, Associate professor, Lecturer of Mechanical Engineering Department of BEU;
- 2) **Mr. Etibar Gahramanov**, Lecturer of Industrial Engineering Department of BEU;
- 3) **Mr. Ilgar Khurshudov**, Lecturer of Industrial Engineering Department of BEU.





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### 3.4. The BEU project team members attended the Training & Coordination Meeting at the Université Polytechnique Hauts-de-France (France) on the 12 - 24.01.2020.

- 1) **Mr. Manafaddin Namazov**, Vice-rector for International relations of BEU;
- 2) **Mr. Bakhtiyar Namazov**, Associate professor, Lecturer of Mechanical Engineering Department of BEU;
- 3) **Mr. Etibar Gahramanov**, Lecturer of Industrial Engineering Department of BEU.







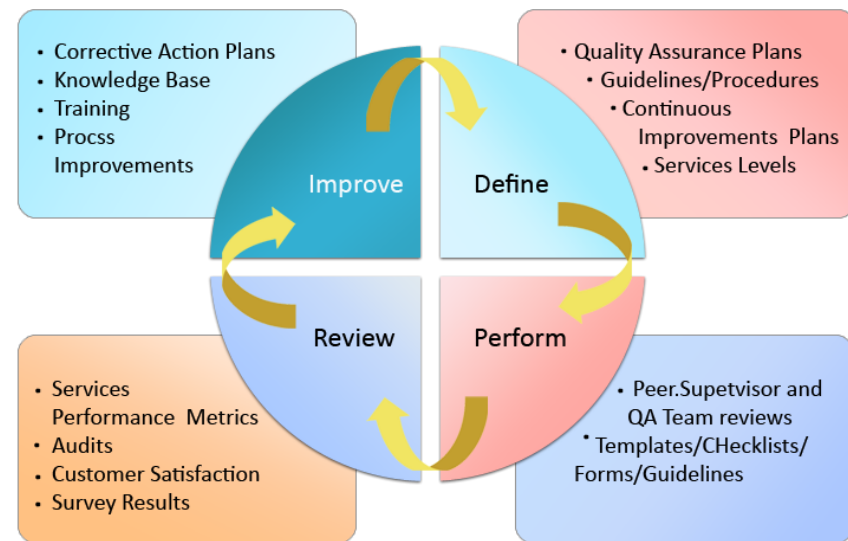
## 4. Organizing Quality Assurance (QA) Plan and QA working group of BEU

Quality Assurance (QA) is to define quality control mechanisms and criteria, which will be used by the BEU QA Working Group to monitor the quality of the project procedures, deliverables and results.

BEU QA Working Group will be responsible to prepare, implement and update a/the QA Plan according to the WP 3 of the "CRENG" Project: **QUALITY PLAN - Internal and external quality control of processes and deliverables.**

**QA Plan of BEU** will focus on the monitoring the quality of the project procedures, deliverables and results which they will happen at the University (Khirdalan city, Azerbaijan).

QA Plan will be implemented by the QA Working Group which the staff of BEU and from different relevant companies were involved.





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## 4. Organizing Quality Assurance (QA) Plan and QA Working Group of BEU

**Table 4.1.: BEU QA Working Group was organized from relevant project team members.**

No	Name, Surname	Occupation	Organization	Contact info (e-mail)
1	Mr. Parviz Hasanov	Researcher, Teacher, Trainer / Head of Industrial Engineering Department & Lecturer	Baku Engineering University	Mob./WhatsApp: +994 51 915 30 05, eMail: phesenov@beu.edu.az
2	Mr. Rauf Mammadov	Researcher, Teacher, Trainer / Head of Master and PhD Department & Lecturer	Baku Engineering University	Mob./WhatsApp: +994 50 333 27 44, eMail: ramammadov@beu.edu.az
3	Mrs. Ulkar Abdurahmanova	Researcher, Teacher, Trainer / Leading specialist of Master and PhD Department & Lecturer	Baku Engineering University	Mob./WhatsApp: +994 55 816 67 69, eMail: uabdurahmanova@beu.edu.az
4	Mrs. Narmin Alakberova	Technical and Administrative staff / Specialist of International Relations and Projects Management Department & Researcher	Baku Engineering University	Mob./WhatsApp: +994 55 494 05 55, eMail: nalakbarova@beu.edu.az





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## 4. Organizing Quality Assurance (QA) Plan and QA Working Group of BEU

**Table 4.2.: BEU QA Working Group was extended from relevant companies and its team members.**

No	Name, Surname	Occupation	Organization	Contact info (e-mail)
1	Mr. Afghan Mammadov	Deputy Director of Freight and Commercial Operations Department	"Absheron" Logistics Center <a href="http://www.absheronport.az/?lang=en">http://www.absheronport.az/?lang=en</a>	Tel.: +994 12 555 52 52 / Mob.: +994 70 265 15 00/050 250 76 77 / eMail: <a href="mailto:afgan@absheronport.az">afgan@absheronport.az</a>
2	Mr. Xydayar Hasanli	Ph.D., Head of Strategic Planning and Development Department	"Baku International Sea Commercial Port" CJSC <a href="http://www.portofbaku.com/">http://www.portofbaku.com/</a>	Tel.: +994 12 5990003 Ext.: 1040 / Mob.: +994 55 206 61 09 / eMail: <a href="mailto:khhasanli@portofbaku.com">khhasanli@portofbaku.com</a>
3	Mr. Jeyhun Talibov	Ph.D., Senior Engineer of Transport Department	The State Oil Company of Azerbaijan Republic (SOCAR NE) <a href="http://socar.az/socar/en/home">http://socar.az/socar/en/home</a>	Mob.: +994 50 285 68 86 / Tel: +994 12 521 00 00: Ext.: 35051 / eMail: <a href="mailto:Ceyhun.Talibov@socar.az">Ceyhun.Talibov@socar.az</a>
4	Mr. Chingiz Rahimov	Head of Road Transport Sector at the Department of Transport Regulation	Ministry of Transport, Communications and High Technologies of the Republic of Azerbaijan	Mob.: +994 70 216 16 85 / eMail: <a href="mailto:turan.cingiz@mail.ru">turan.cingiz@mail.ru</a>
5	Mr. Nijat Karimov	Ph.D., Technical Manager	"Rotary Motors" LLC	Mob.: +994 55 745 09 46 / eMail: <a href="mailto:nicat.kerimov12@gmail.com">nicat.kerimov12@gmail.com</a>



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### 4.3. Quality Assurance Plan: Quality indicators of “CRENG” MSc. program for the employers.

1. Aims & objectives clearly formulated;
2. Skills and competencies, that will be achieved after graduation are targeted in Azerbaijan and international labor market;
3. All learning components/learning methods lead to achieving targeted skills;
4. Innovativeness of the MSc program;
5. Potential staff member of the company.





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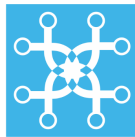
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## 4.4. Quality Assurance Plan: Quality indicators of “CRENG” MSc. program for the students.

1. Aims & objectives clearly formulated;
2. Skills and competencies, that will be achieved after graduation;
3. Possibility of choosing courses & diversity of variable courses;
4. Attractiveness of the MSc program;
5. Career development opportunities in Azerbaijan and international labor market.





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## 4.5. Quality Assurance Plan: Quality indicators of “CRENG” MSc. program for the teachers.

1. Aims & objectives clearly formulated;
2. Fitness to the HEIs standard and legislation of the Republic of Azerbaijan;
3. List of courses is enough to achieve all program learning outcomes;
4. Innovativeness of the MSc program;
5. Potential for further development.





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## 4.6. Quality Assurance Plan: Quality indicators of “CRENG” MSc. program for the teachers.



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**АНКЕТА**  
парного оценивания содержания учебных дисциплин  
ОПП «Управление транспортными системами в условиях рисков и кризисов»

Цель: 1. Определить методическую релевантность учебной дисциплины ОПП и стандарта Азербайджана магистерского уровня специальности - **275 Транспортные технологии (по видам)**

2. Определить актуальность и эффективность учебного контента для получения компетенций, востребованных на рынке труда

**Ваши ФИО и должность**

1) Мамедов Рауф Тодиг оглы, к.т.н., доцент кафедры "Механика" - Заведующий отдела Магистратуры и докторантуры  
2) Намазов Бахтияр Фарман оглы к.т.н., доцент кафедры "Механика"




**Название дисциплины, содержание которой вы оцениваете:**

1. Управление цепочками поставок и запасов в логистических системах  
2. Риски и кризисный инжиниринг транспортных систем  
3. Новые технологии и Большие данные для инноваций в кризисе и управлении рисками  
4. Прогноз рисков и кризисов, методы и инструменты анализа и сокращения  
5. Моделирование сложных транспортных процессов и систем, работающих в условиях рисков  
6. Человеческий фактор в проектировании и эксплуатации  
7. Гуманитарная логистика и транспортные услуги в условиях бедствий  
8. Информационная аналитика и диагностика для socio-технической системы  
9. Системы охраны здоровья, безопасности и окружающей среды  
10. Новые вызовы для управления кризисом и рисками в логистических системах  
11. Управление проектами и лидерство в области логистики и исследований посредством открытого общения, и командной работы  
12. Методы исследования и повышения квалификации  
13. Менеджмент перевозчика, Мягкие навыки для инженера, Основы технического творчества

Предоставьте оценку от 1 до 5 соответствия содержания учебной дисциплины критериям (1- самая низкая оценка, 5 - самая высокая оценка)

1. Цель изучения дисциплины и результаты обучения сформулированы четко и соответствуют стандарту высшего образования Азербайджана магистерского уровня специальности - **275 Транспортные технологии (по видам)**

1  
 2  
 3

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4  
 5

2. Часы между лекциями, практическими / лабораторными работами, самостоятельной работой распределены сбалансировано и соответствуют количеству кредитов ECTS

1  
 2  
 3  
 4  
 5

3. Результаты обучения соответствуют степени высшего образования «магистр»

1  
 2  
 3  
 4  
 5

4. Содержание учебного контента отвечает определенным результатам обучения

1  
 2  
 3  
 4  
 5

5. Учебный контент является актуальным и отражает современные достижения в области

1  
 2  
 3  
 4  
 5

6. Перечень информационных источников является достаточным для изучения дисциплины

1  
 2  
 3  
 4  
 5

7. Ваши пожелания для улучшения содержания учебной дисциплины

Мы думаем, что все партнеры проекта CRENG могут работать вместе для улучшения текущей программы магистратуры и в будущем готовить новые программы совместных и двойных дипломов.



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## 5. CRENG+ Agreements and plan/timelines of signing

No	Organization/Company	Plan/timelines of signing
1	"Absheron" Logistics Center <a href="http://www.absheronport.az/?lang=en">http://www.absheronport.az/?lang=en</a>	<b>Signed in 2018</b>
2	"Baku International Sea Commercial Port" CJSC <a href="http://www.portofbaku.com/">http://www.portofbaku.com/</a>	<b>Signed in 2018</b>
3	The State Oil Company of Azerbaijan Republic (SOCAR NE) <a href="http://socar.az/socar/en/home">http://socar.az/socar/en/home</a>	It will sign in 2020 or 2021
4	Ministry of Transport, Communications and High Technologies of the Republic of Azerbaijan	It will sign in 2020 or 2021
5	"Rotary Motors" LLC	It will sign in 2020 or 2021

**Note:** Related to the "COVID-19" pandemic situation all planned activities of BEU were post pone to another time/year.





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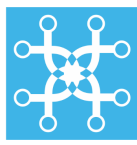
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<http://iro.beu.edu.az/en>

## 6. Equipment & Software for BEU



No	Set of laboratory equipment any name	Q-ty	Set	Price, EUR	Total Price, EUR
1	Desktop PC Avtech M99KF-39-32-28-51-30-PSU8-W10P-KM-27D165 (i9 9900KF/Z390/DDR4 16Gbx2/8Gb RTX2080/SSD 512Gb/HDD 3000Gb/Gougar/800W/Win 10 Pro /AnyLogic University software /Keyboard Avtech KB758/ Mouse Avtech MS581/Monitor Avtech Pro 27D 165Hz)	1	1	27200.00	27200.00
2	Desktop PC Avtech M84-37-16-166-25-10-PSU5-W10P-KM-27D165 (i5 8400/Z370/DDR4 8Gbx2/6Gb GTX1660/SSD 240Gb/HDD 1000Gb/Avtech Pro/500W/Win 10 Pro/Keyboard Avtech KB758/ Mouse Avtech MS581/Monitor Avtech Pro 27D 165Hz)	2			
3	AIO PC Avtech G20 M81-8-10-W10P-KM (i3 8100/DDR4 8Gb/HDD 1000Gb/Win 10 Pro/Keyboard Avtech KB758/ Mouse Avtech MS581)	9			
4	Notebook HP (i5/8Gb/1000Gb/GTX1050/15,6/Win 10 Pro)	3			
5	Projector Canon LV-420 (4200 Lumens, 1920x1080, Speaker 10W) Wallmount and tripod screen 245x245 cm included	1			
6	MFD Epson M2140 /extra ink Epson C13T03P14A	2			
7	MFD Canon imageRUNNER 2206N /Cartridge Canon C-EXV42	1			
8	Headset Logitech H340 USB	12			
9	Digital Camera EOS4000D Kit /bag/SD Card Kingston 64Gb/Battery Canon LP-E10	1			
10	Router Tenda W15E	1			
11	Switch 16 port 10/100/1000 Gb/s	1			
				<b>TOTAL</b>	<b>27200.00</b>





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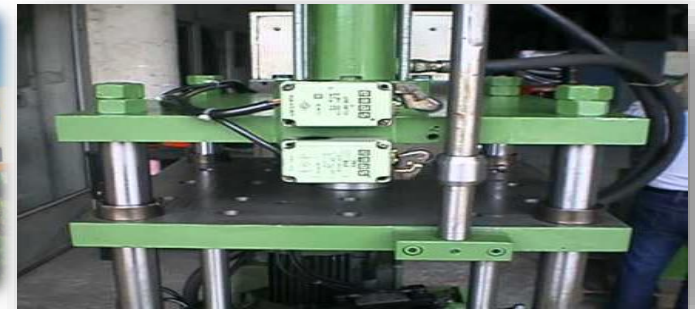


## 7. CRENG Service Office and Laboratory of BEU

BEU organized requested place for establishing “CRENG” SO at the University campus and it will work under coordination of International Relations & Projects Management Department of BEU.



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## 7.1. CRENG Service Office at BEU and its manager

The Regulation of BEU CRENG Service Office was prepared, agreed with the relevant structural units of the university and signed by the vice-rector for international relations, **Assoc. Prof. Manafaddin Namazov**.

Besides, the project administration of the university decided to involve as a manager for the BEU CRENG Service Office, Assoc. Prof. Bakhtiyar Namazov. He is full time staff member of BEU and active participant of the CRENG Erasmus+ KA2 CBHE project. He attended 2 international trainings of the project (in Poland & France) and he is one of author of “Basics of logistics” textbook, “International road transport” textbook and “Conversational dictionary for assisting international transport drivers”.



The manager of the BEU  
CRENG Service Office,  
**Assoc. Prof. Bakhtiyar  
Namazov**



## 8. Dissemination Plan of BEU and schedule of dissemination events

**Target Groups (TG)**

**Communication Channels (CC)**

**Events (E)**

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BEU, within the WP 4 of the project: **DISSEMINATION & EXPLOITATION** - Strategy dissemination and event plan organized and implemented some activities. They are on the next slide.

The Dissemination Plan (DP) of BEU is based on the overall strategy for disseminating and implementing the results of the “CRENG” Erasmus+ KA2 project by the project team of Baku Engineering University (BEU).

The DP was approved at the first coordination meeting in Poland to provide a link between the three components of the project strategy:



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## 8.1. Dissemination Plan of BEU and schedule of dissemination events

### Target groups of the project:

1. Students of related and unrelated specialties of BEU;
2. Teachers of related and non-related to specialties of BEU and other partner universities;
3. Scientists and researchers of BEU and other stakeholders;
4. Future employers of graduates from the “CRENG” Master Degree Program;
5. All potential training participants of “CRENG” Erasmus+ KA2 project in Azerbaijan;
6. Authorities at local and state level of the Republic of Azerbaijan;
7. Public organizations / NGOs (Association of International Road Carriers of Azerbaijan (ABADA), the National Confederation of Entrepreneurs (Employers) Organizations of the Republic of Azerbaijan (ASK) etc.).





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## 8.2. Dissemination Plan of BEU and schedule of dissemination events

### Communication Channels with the Target Groups of the project:

1. Local, regional and national mass media;
2. Official website of the project (<https://creng.eu/>) as well as Baku Engineering University (<http://www.beu.edu.az/en> and <http://iro.beu.edu.az/en/page/Project-Management-903483.html>);
3. Official promotional materials (leaflets, flyers, roll-ups, etc.) of the project;
4. Relevant Social Networks (SN) as well as SN of Baku Engineering University:
  - <https://www.facebook.com/iro.beu.edu.az/>
  - <https://www.linkedin.com/company/iro-beu-edu-az/>
  - <https://twitter.com/BEU60740449>
  - <https://www.instagram.com/beueduaz/>
  - <https://www.youtube.com/channel/UCOYADW2Y4cKWKfIS-IH1hCA>

### Events within the project:

Local, regional and international meetings, workshops and conferences within the project.



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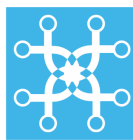


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### 8.3. Dissemination Plan of BEU and schedule of dissemination events

No	Activity	Date
<b>Web-based dissemination</b>		
1	Participate at the creation process of a web-site ( <a href="https://www.creng.eu">https://www.creng.eu</a> ) of the project as well as link it to the BEU's website ( <a href="http://www.beu.edu.az/en">http://www.beu.edu.az/en</a> and <a href="http://iro.beu.edu.az/en/page/Project-Management-903483.html">http://iro.beu.edu.az/en/page/Project-Management-903483.html</a> ).	Done
2	Creating a contact list of project stakeholders for newsletters by e-mail, via social networks (Facebook, LinkedIn, Instagram) and messengers (FB Messenger, WhatsApp, Viber etc.).	Done
3	Creation of content in social networks of BEU: on the pages of the project ( <a href="https://www.creng.eu">https://www.creng.eu</a> ), the university ( <a href="http://www.beu.edu.az/en">http://www.beu.edu.az/en</a> ) and International Relations and Projects Management Department ( <a href="http://iro.beu.edu.az/en/page/Project-Management-903483.html">http://iro.beu.edu.az/en/page/Project-Management-903483.html</a> , <a href="https://www.facebook.com/iro.beu.edu.az/">https://www.facebook.com/iro.beu.edu.az/</a> , <a href="https://www.linkedin.com/company/iro-beu-edu-az/">https://www.linkedin.com/company/iro-beu-edu-az/</a> , <a href="https://twitter.com/BEU60740449">https://twitter.com/BEU60740449</a> , <a href="https://www.instagram.com/beueduaz/">https://www.instagram.com/beueduaz/</a> , <a href="https://www.youtube.com/channel/UCOYADW2Y4cKWKfIS-IH1hCA">https://www.youtube.com/channel/UCOYADW2Y4cKWKfIS-IH1hCA</a> ).	Minimum 1 post per month / Done
4	Regular posts, event plans, planned in the framework of the project.	during the year / Done
5	Providing information at the request of the website administrator of <a href="https://www.creng.eu">https://www.creng.eu</a> and BEU for its regular updating (presentation of events, links and articles, posts in social networks, etc.).	during the year / Done



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## 8.4. Dissemination Plan of BEU and schedule of dissemination events

### Event-based dissemination

Appointment of the responsible person for the implementation of the plan at BEU.	Done
Organizing a presentation of the project for the teachers of BEU.	Done
Organizing a presentation about project activities in the international conference of BEU.	Done
Organizing a dissemination meeting of the project for BEU teaching staff.	Done
Organizing a dissemination meeting of the project for top management of BEU.	Done
Organizing a presentation of the project for students of BEU and any other specialties interested in project.	Done
Organizing a workshop/round table for discussing of knowledge gained during the training in Berlin with all interested parties of BEU.	Done





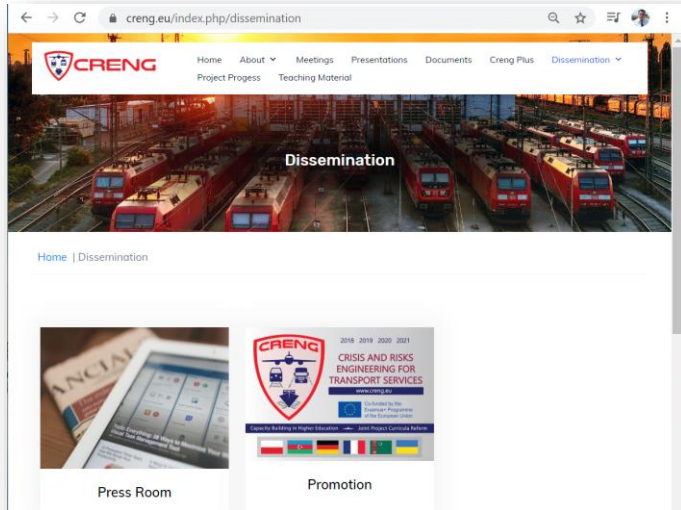
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## 9. Implemented dissemination activities of BEU



- 1) <https://creng.eu/index.php/dissemination>;
- 2) <http://iro.beu.edu.az/en/page/CRENG-%28EN%29-903707.html>
- 3) <http://iro.beu.edu.az/en/news/The-implementation-of-Erasmus-%2BKA2-project-on-%E2%80%9CCRENG%E2%80%9D-discussed-10286.html>



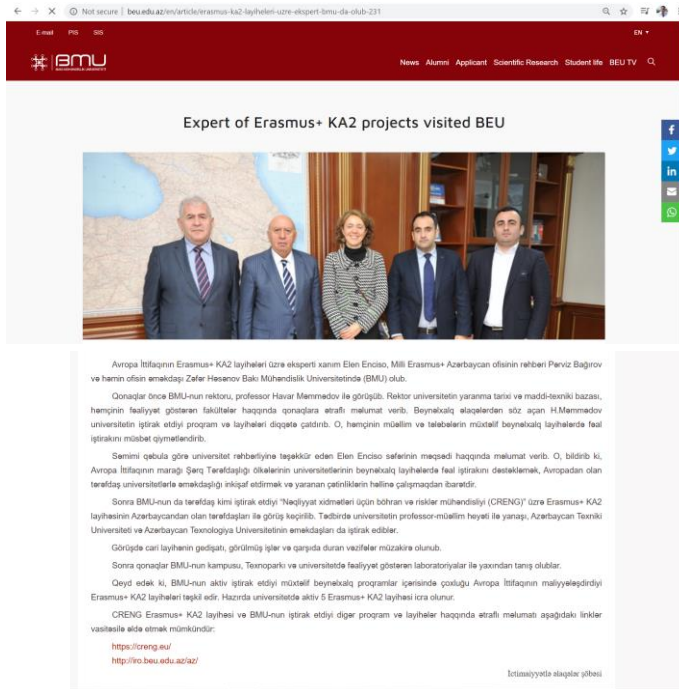
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## 9.1. Implemented dissemination activities of BEU



During "CRENG" monitoring visit (on 25.11.2019) by EU expert on Erasmus+ KA2 projects Mrs. Elen Enciso and Head of the National Erasmus+ Azerbaijan office Mr. Parviz Bagirov and employee of that office Mr. Zafar Hasanov visited Baku Engineering University (BEU).

Firstly, the guests met with the rector of BEU, Professor Havar Mammadov. The rector informed the guests about the history and opportunities of the university as well as the existing faculties. He also informed about international relations, programs and projects in which the university active participates. He also mentioned about the active participation of teachers and students of BEU in various international projects.

Mrs. Ellen Enciso thanked the university administration for the warm welcome and informed about the purpose of the visit. She said that the European Union is interested in supporting the active participation of universities in the Eastern Partnership countries in international projects, developing cooperation with partner universities in Europe and working to solve problems.

Then, a meeting was held with the partners of the Erasmus + KA2 project on "Crisis and Risk Engineering for Transport Services (CRENG)" from Azerbaijan, in which BEU also participated as a partner. During the meeting guests discussed about the progress of the current project, the work done and the tasks ahead.

After the meeting the guests got acquainted with the campus of BEU, Technopark and laboratories of the university.

The link of the article: <http://www.beu.edu.az/az/article/erasmus-ka2-layiheleri-uzre-ekspert-bmu-da-olub-231>





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## 9.2. Implemented dissemination activities of BEU



The BEU “CRENG” project team members within the dissemination plan and scheduled of the dissemination events organize different seminars and workshops at the University (in Khirdalan city, Azerbaijan).

Besides, the participants of the training in Germany, Poland and France share all gained information and teaching materials with other project team members, academic personal of the BEU and their students after every training and mobility programs within the project.

The responsible person for dissemination of the event after every event prepare article and posts for web-site and social media pages of BEU.



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## 10. The textbook preparation activity of BEU CRENG project team members

BEU CRENG project team members met with the colleagues of Azerbaijan Technical University (AzTU) to discuss about the chapters of general textbook which during the project implementation they must prepare.

According to the agreement between the partners (BEU and AzTU) each university will prepare below listed textbooks:

**BEU will prepare:** The chapter 4. Human Factors in Design & Operations.

**AzTU will prepare:** The chapter 2. Risk and crisis forecast, Analysis and Reduction Methods and Tools.

Formation and approval of the team of authors	Until 28/02/2020	BEU approved the author and he is <b>Mr. Ilgar Khurshudov</b> (full time staff member of BEU).
The provision of finished materials on fixed chapters to the teams of authors	Until 30/01/2021	Mr. Ilgar Khurshudov started to prepare the chapter 4 in English language and BEU expects to complete it in time with some project team members of BEU.
Material editing and the formation of textbook	Until 29/08/2021	BEU will send the chapter 4 to Dnipro National University of Railway Transport (responsible partner) for editing and publishing in time.



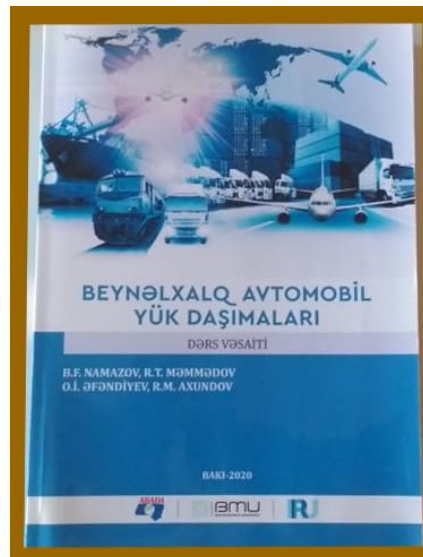
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## 10.1. The textbook preparation activity of BEU CRENG project team members



BEU CRENG project team members: Assoc. Prof. Bakhtiyar Namazov & Assoc. Prof. Rauf Mammadov active work at the implementation of the current project as well as they are main author of “Basics of logistics” textbook with 268 pages (170x240 mm format, published in 2019), “International road transport” with 353 pages (A 4 format, published in 2020) and “Conversational dictionary for assisting international transport drivers” with 153 pages (in A 5 format, published in 2019).



## 11. Non-consortium organizations which BEU is working with them

- Partners / local HEIs in Azerbaijan;
- Local NGOs;
- Public and private organizations  
*(they are listed on the slide # 17  
& # 27);*





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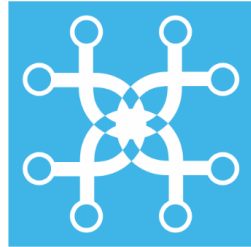
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<http://iro.beu.edu.az/en>

## 12. Communication with the project team members, partners and coordinator

BEU contacts/communicates with all partners as well as the “CRENG” project consortium members using below tools and opportunities:

- Email;
- Skype calls;
- Mobile/Phone calls;
- Face to face communication during the meetings and events.





Thank you for you attention!



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**Mr. Arif Najimov**  
**Head of International Relations and Projects Management Department**  
**E-mails: [anajimov@beu.edu.az](mailto:anajimov@beu.edu.az) and [ari\\_coordinator@yahoo.com](mailto:ari_coordinator@yahoo.com),**  
**Skype: [arif.najimov](https://www.skype.com/name/arif.najimov), [www.beu.edu.az](http://www.beu.edu.az), [www.iro.beu.edu.az](http://www.iro.beu.edu.az)**