



**Periodical Report
12 Months of project
implementation**

Crisis and Risk Engineering for Transport Services

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State Higher Education Institution “Pryazovskyi State Technical University”, Transport Technology Faculty



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

**Ihor Pirch,
Coordinator for PSTU,
Dean of the Transport Technologies Faculty**

Work plan

No	Main Tasks of the 1st CRENG project year	Responsible	Timelines
1	Kick-off meeting and approval of contractual documents	Ihor Pirch Kateryna Polupanova	26-28.02.2019
2	Conduct information dissemination events for academic staff, students, stakeholders on the CRENG running	Work Group	During project running
3	To create CRENG web-page at PSTU site	Kateryna Polupanova	01.03.2019
4	To develop descriptions of new curricula	CRENG EU HEIs	15.03.2019 - 15.07.2019
5	To present curricula incl. educational content to PCs universities	CRENG EU HEIs	Till 15.07.2019
6	To download new curricula descriptions to Web platform	Andryi Lamzyn, Mikhaylo Pomazkov	15.07.2019
7	To approve list of equipment	Work Group	Till 15.03.2019
8	To develop documentation for purchasing equipment	Ihor Pirch V'yacheslav Voloshyn Kateryna Polupanova	Till 15.05.2019
9	To supply equipment to PCs	P4	Till 15.10.2019
10	To develop criterions of PCs academic teachers selection for attending training courses	Work Group	Till 15.06.2019
11	To select academic teachers from PC to participate retraining courses	Work Group	Till 15.07.2019
12	To develop guidelines and timetable of training courses in EU	Ihor Pirch Kateryna Polupanova	Till 15.08.2019
13	To organize the participation of PSTU teachers in training courses on new curricula for PCs academic teachers in EU	Work Group	Till 15.09.2019 1.Berlin, Sep. 9-21,2019
14	Kick-off meeting and approval of contractual documents	Work Group, PSTU teachers, trained at EU	Till 15.10.2019



Sharing the knowledge received during the training in TU Berlin in September 2019 at PSTU



27.09.2019 Department of
Transport Technologies of
Enterprises



01.10.2019 Department of the
Transport management and
logistics.



02.10.2019 Department of
Automobile Transports



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?	% of readiness of the course
<i>Optimization processes in the transport environment</i>	<i>Andrii Lyamzin</i>	3	<i>Лямзін А. О. Оптимізаційні процеси в транспортному середовищі [Електронний ресурс] : конспект лекцій з дисципліни «Оптимізаційні процеси в транспортному середовищі» для студентів спеціальностей 275.03 «Транспортні технології (на автомобільному транспорті)» освітньої програми «Організація міжнародних перевезень»; 275.02 «Транспортні технології (на залізничному транспорті)» освітньої програми «Транспортні системи» для студентів денної і заочної форм навчання / А. О. Лямзін. – Маріуполь, 2018. – 67 с. – Режим доступу: http://umm.pstu.edu/handle/123456789/16211 http://umm.pstu.edu/handle/123456789/16211?locale-attribute=ru</i>	<i>Synergy in the Peter the Great St. Petersburg Polytechnic University Facts and Figures</i> https://drive.google.com/drive/folders/1f-r66Rawy9eKvPJTkXwG_EjixFlm5oy6	30



Title of the possible new course	Responsible person	ECTS	Teaching materials that will be used
<i>New technologies and big data for innovations in crisis and risk management + IT Security</i>	<i>Andrii Lyamzin</i> alyamzin7791@gmail.com il.com	3	<i>Curricula, lecture notes, instructions for practical work</i> <i>Introductions to Module GIS and Spatial Databases, Introduction to Deep Learning.</i> <i>Prof. Dr. Martin Kada</i> https://drive.google.com/drive/folders/1x23-oz4u34L-Qriy1y9YYYcyj-cDeGPz
<i>Humanitarian logistics and transport services in disasters conditions</i>	<i>Evgen Ukrainskyi</i> e.a.ukrainskyi@gmail.com il.com	6	<i>Humanitarian supply management in logistics in the health sector. Washington, D.C.: PAHO, © 2001. - 189 p. ISBN 92 75 12375 6</i> https://iris.paho.org/xmlui/bitstream/123456789/753/1/92%2075%2012375%206.pdf <i>Curricula, lecture presentation</i> <i>Humanitarian logistics and transport services in disasters conditions. Dr. Abdelghani Bekrar</i> https://www.creng.eu/images/downloads/teaching-material/UPHF/Lectures%20Core%205.pdf <i>Journal of Humanitarian Logistics and Supply Chain Management</i> https://www.emeraldgroupublishing.com/jhlscm.htm
<i>Informational-Analytic and Diagnostics for Sociotechnical System</i>	<i>Andrii Lyamzin</i> alyamzin7791@gmail.com il.com	3	<i>Curricula, lecture notes, instructions for practical work</i> <i>Introductions to Module Machine Learning for Remote Sensing</i> <i>Prof. Dr. Begüm Demir & Gencer Sumbul</i> https://drive.google.com/drive/folders/1v59RiZeEvhkOzgT3471Qa6bXDZPFbV8I



Teaching materials and new curricula

Title of the possible new course	Responsible person	ECTS	Teaching materials that will be used
<p><i>Risk and crisis engineering of Transport systems</i></p> <p>+</p> <p><i>New challenges for crisis and risk management in logistics systems=</i></p> <p><i>New: Risk and crisis engineering of Transport systems</i></p>	<p><i>Iryna Nikolaenko</i> iryna.vnikolaienko@gmail.com</p>	4	<p><i>Curricula, lecture notes, instructions for practical work</i></p> <p><i>Introductions to Module Soft Skills for Engineers. Elena Eyngorn</i> https://drive.google.com/drive/folders/1h7IA9AHJB1LwzSqeGpsI-BFs5w3p-DWn</p>
<p><i>Supply chain management and networks</i></p>	<p><i>Mykhailo Pomazkov</i> Pomazkovmik1@gmail.com</p>	4	<p><i>Global commerce market ranking 2019</i> www.e-shopworld.com</p>
<p><i>Research methods and professional development</i></p>	<p><i>Ganna Maslak</i> avmaslak81@gmail.com</p>	5	<p><i>Curricula, lecture notes, instructions for practical work</i></p> <p><i>Introductions to Module Soft Skills for Engineers. Elena Eyngorn</i> https://drive.google.com/drive/folders/1h7IA9AHJB1LwzSqeGpsI-BFs5w3p-DWn</p>
<p><i>Carrier Managing, Soft skills for engineers, basics of technical creativity</i></p>	<p><i>Maryna Khara</i> haramarina4691@gmail.com</p>	3	<p><i>Curricula, lecture notes, instructions for practical work</i></p> <p><i>Introductions to Module Soft Skills for Engineers. Elena Eyngorn</i> https://drive.google.com/drive/folders/1h7IA9AHJB1LwzSqeGpsI-BFs5w3p-DWn</p>



Teaching materials and new curricula

Title of the possible new course	Responsible person	ECTS	Teaching materials that will be used
<p>Project management and leadership in logistics and research, through open communication and team-working</p>	<p>Galina Burlakova galoCHKAGOOGL@gmail.com</p>	<p>5</p>	<p><i>Curricula, lecture presentation, instructions for practical work</i></p> <p><i>CritPath. Project scheduling software. Available for download from Karl Smith's web site (www.ce.umn.edu/~smith).</i></p> <p><i>Project Management and Learning: The Learning Project. http://dx.doi.org/10.5772/intechopen.72051</i></p> <p><i>Johnson, David W., & Johnson, Frank P. 1991. Joining together: Group theory and group skills, 4th ed. Englewood Cliffs, NJ: Prentice-Hall.</i></p> <p><i>Sankaran S, Drouin N, Müller R. Cambridge Handbook of Organizational Project Management. Cambridge: Cambridge University Press; 2017</i></p> <p><i>Cleland, D.I. and Kerzner, H. 1985. A project management dictionary of terms. New York: Van Nostrand Reinhold.</i></p> <p><i>Lewis, J. P. 1998. Team-based project management. New York: AMACOM. Duncan, 1996. Project management body of knowledge. Upper Darby, PA: Project Management Institute.</i></p> <p><i>Smith, K.A. 2000. Project Management and Teamwork. New York: McGraw-Hill.</i></p> <p><i>Druskat, V.U. and Wolff, S.B. (2001), "Building the emotional intelligence of groups", Harvard Business Review, Vol. 79 No. 3, pp. 80-90,164.</i></p> <p><i>Atkinson R, Crawford L, Ward S. Fundamental uncertainties in projects and the scope of project management. International Journal of Project Management. 2006;24(8):687-698. DOI: 10.1016/j.ijproman.2006.09.011</i></p> <p><i>Kerzner H. Applied Project Management. Best Practices on Implementation. New York: John Wiley; 2000</i></p> <p><i>Raes E, Kyndt E, Decuyper E, Demeyere S, Lismont B, Van den Bossche P, Dochy F. Facilitating team learning through transformational leadership. Instructional Science. 2013;41(2):287-305</i></p> <p><i>Milton N. The Lessons Learned Handbook: Practical Approaches to Learning from Experience. Oxford, UK: Chandos Publishing; 2010</i></p> <p><i>Ahern T, Leavy B, Byrne P.J. Knowledge formation and learning in the management of projects: A problem solving perspective. International Journal of Project Management. 2014;32(8):1423-1431. DOI: 10.1016/j.ijproman.2014.02.004</i></p> <p><i>Etc</i></p>



Accreditation

- On Feb.27 2020 New MA Educational Program “Engineering of Crisis and Risks for transport services” was approved by PSTU Scientific Council in the framework of specialty accreditation certificate 275 Transportation technologies (by road) which is valid until July 1, 2027
- Accreditation procedure according to the Regulations on accreditation of higher education institutions and specialties in higher education institutions (Order of the Ministry of Education of Ukraine dated 30.10.2017 No. 1432)



Quality assurance

Quality indicators with the help of which quality of CRENG courses/modules/curricula will be assessed.

- Individual Accountability
- course content, grading, and climate
- course structure
- course materials
- instructor
- essential learning outcomes
- teaching methods
- timeline (realistic to complete the course)
- development of intellectual skills
- enhancing of sense of social responsibility



Quality assurance

List of possible peer reviewers of the future new curricula

1. Students
2. Teachers
3. Stakeholders:
 - PJSC AZOVSTAL IRON & STEEL WORKS (METINVEST GROUP)
 - LLC “Nova Poshta”
 - State Enterprise “Mariupol Commercial Sea Port”
 - Main Department of the State Emergency Service of Ukraine in Donetsk Region
 - Central Police Department of the National Police in Donetsk region
 - Department of Transport and Communications of the Mariupol City Council



Quality assurance/work plan of Quality group

Activities	Period
1.Sampling assessment procedures and assessors' marking of student work	During the project
2.Recording the observation and standardization of learners work	During the project
3. Providing feedback to assessors and to the course team	During the project
4. Providing a key link with the PSTU Internal Quality Assurer and the External Evaluator	During the project
5. Evaluating project results	During the project
6. The students questioning:	
Activities	Period
6.1. Internal testing – at the beginning of and at the end of each term	09.2020. 09.2021; 06.2021. 06.2021
6.2.External testing	12.2021-at the end of the period of students' teaching (after diplomas' defense and prior to the ceremony of diplomas presentation)
7. Teachers questioning :	
7.1.Internal testing	02.2020 up to the beginning of training sessions ; 05.2020 – after participation in training sessions 09.2020. 09.2021 –prior to pilot ; 06.2021. 06.2021 -at the end of each term
7.2.External testing	at the end of tuition period
8. Employers questioning	
8.1.Internal testing at the beginning of learning –	At the end of students pilot teaching. Before CRENG SO functioning, each 3 months of CRENG SO functioning.
8.2.External testing	12.2021 at the end of tuition period (after diplomas' defense and prior to the ceremony of diplomas presentation)
8.3. Internal testing	filling in questionnaires at each visit to CRENG SO, beginning with 02.2020



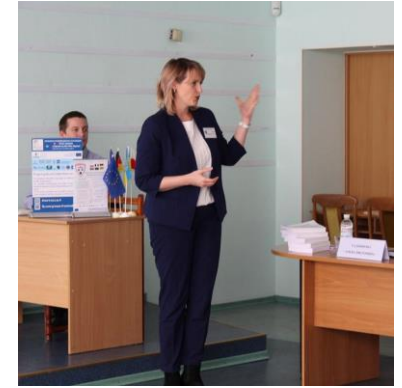
CRENG dissemination events



Round Table
«Modern Challenges in Higher
Education at Transport Services
Field»



International Scientific -Practical
Conference
«Sustainable Development of
Ukraine,
Challenges and Ways of
Solutions»





Thank you for you attention!



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