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Technical University of Liberec



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# CERTIFICATE

registration number 2025/49

***Valentyna Cherepanina***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/48

***Berezenska Svitlana***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/47

***Prysiazhniuk Maksym***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/46

***Osaulko Mykhailo***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/45

**BLYSHCHYK ANNA**

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course ‘Sustainable ways and risk management in times of crisis’. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/44

***Andruschenko Volodymyr***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/43

**VIRA HORSHKALOVA**

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course ‘Sustainable ways and risk management in times of crisis’. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



Funded by  
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Technical University of Liberec



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# CERTIFICATE

registration number 2025/42

***Semenchuk Mykyta***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskiy State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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the European Union



Technical University of Liberec



Trans  
LearnN

# CERTIFICATE

registration number 2025/41

***Karina Marchuk***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



Trans  
LearnN

# CERTIFICATE

registration number 2025/40

***Basarab Anna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/39

***Ponomarenko Anastasiia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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the European Union



Technical University of Liberec



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# CERTIFICATE

registration number 2025/38

***Diana Butenko***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/37

***Yelyzaveta Berezhna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/36

***Vitalina Konieva***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/35

***Kyrylo Prykhodko***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/34

***Ievgen Zaitsev***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/33

***Slobozhaniuk Vladislav***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course ‘Sustainable ways and risk management in times of crisis’. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



Trans  
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# CERTIFICATE

registration number 2025/32

***Kamenieva Anastasiia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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the European Union



Technical University of Liberec



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# CERTIFICATE

registration number 2025/31

**Ogненко Artur**

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/30

***Sasina Vladyslava***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	total	Amount of time in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/29

***Viktoriia Bozhko***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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the European Union



Technical University of Liberec



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# CERTIFICATE

registration number 2025/28

***Shapovalova Anna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/27

***Bessmertna Diana***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskiy State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/26

***Bochkar'ova Valentyna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



Funded by  
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Technical University of Liberec



Trans  
LearnN

# CERTIFICATE

registration number 2025/25

***Svynarchuk Kateryna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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the European Union



Technical University of Liberec



Trans  
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# CERTIFICATE

registration number 2025/23

***Isaieva Kseniia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/24

***Ivanchenko Kseniia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/22

***Hostieva Diana***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/21

***Dmytro Shelinhovskyi***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/60

***Lehengka Kateryna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>TED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/59

***Kolesnichenko Daria***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	total	Amount of time in particular	
		classroom/off- line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>TED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/58

***Dmytro Rusalovskyi***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/57

***Nosenko Yuliia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/56

***Korinchuk Anastasia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte  
Project coordinator

Eng. Katarzyna Łoś, PhD.  
Spring School coordinator

Prof. Natalia Vnukova  
Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/55

***Hlushanytsia Viktoriia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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# CERTIFICATE

registration number 2025/54

***Mykhaliuk Daria***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/53

***Vitko Oleksandr***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte  
Project coordinator

Eng. Katarzyna Łoś, PhD.  
Spring School coordinator

Prof. Natalia Vnukova  
Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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# CERTIFICATE

registration number 2025/52

***Hurska Viktoriiaa***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte  
Project coordinator

Eng. Katarzyna Łoś, PhD.  
Spring School coordinator

Prof. Natalia Vnukova  
Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/51

**Алейникова Анастасія**

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

## Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte  
Project coordinator

Eng. Katarzyna Łoś, PhD.  
Spring School coordinator

Prof. Natalia Vnukova  
Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/50

***Sad Daryna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/20

***Maksym Khrapun***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/19

***Datsko Oleh Ivanovych***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/18

***Bereziuk Roman Myroslavovych***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/17

***Melnyk Nazarii Petrovych***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/16

***Steblyk Veronika***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/15

***Iryna Bilozerska***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/14

***Herulia Marta***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/13

***Stelmakh Viktoria***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course ‘Sustainable ways and risk management in times of crisis’. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/12

***Pandrak Anastasiya Vasylivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/11

***Rudzii Anna Vitaliivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/10

***Maslyhan Mariia-Ivanna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/9

***Mahrel Maria Vasylivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/8

***Denys Anna Maksymivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/6

***Lozinska Kateryna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/ developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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# CERTIFICATE

registration number 2025/7

***Maksym Fedun***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/5

***Zayats Oksana***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskiy State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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Technical University of Liberec



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# CERTIFICATE

registration number 2025/4

***Marchyshyn Solomiia***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>



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# CERTIFICATE

registration number 2025/3

***Borachok Kamilla Oleksandrivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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# CERTIFICATE

registration number 2025/2

***Grynychuk Sofia-Oresta Olegivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte

Project coordinator

Eng. Katarzyna Łoś, PhD.

Spring School coordinator

Prof. Natalia Vnukova

Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
UNITED:	50	22	30



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# CERTIFICATE

registration number 2025/1

***Kleban Kateryna Igorivna***

from 24 March to 28 March 2025

has successfully completed the course 'Sustainable pathways and risk management in times of crisis' | «Сталі шляхи та управління ризиками в умовах криз»

As part of non-formal education in an interdisciplinary programme of the Erasmus+ Project Number: 2023-1-DE01-KA220-HED-000157119 entitled Transformational Learning Network for Resilience - Enabling Ukrainian higher education to ensure a sustainable and robust reconstruction of (post-war) Ukraine (TransLearnN).

Learning outcomes:

- ✓ Ability to make decisions in crisis situations
- ✓ Ability to stay on the path of sustainable development in conditions of limited resources
- ✓ Generate sustainable solutions to overcome challenges and seize opportunities in the face of multiple crises
- ✓ Synthesise sustainable multi-approach solutions for different sectors.
- ✓ Combine different administrative and managerial skills to support interdisciplinary synthesis of sustainable solutions.

Liberec, 11.04.2025

Angela Dichte  
Project coordinator

Eng. Katarzyna Łoś, PhD.  
Spring School coordinator

Prof. Natalia Vnukova  
Course coordinator



The programme of non-formal education for the course 'Sustainable ways and risk management in times of crisis'. Total programme volume for ECTS: 102

Topic/developing university	Amount of time		
	total	in particular	
		classroom/off-line classes	individual work
Introduction. Definition of the concept of "risks". Classification of risks. / Вступ. Визначення поняття "ризиків". Класифікація ризиків Risk management of sustainable development in conditions of uncertainty / Управління ризиками сталого розвитку в умовах невизначеності / <i>Ukrainian National Forestry University (Lviv, Ukraine)</i>	6	2	4
Environmental risk management / Управління екологічними ризиками/ <i>Zhytomyr Polytechnic State University (Zhytomyr, Ukraine)</i>	6	2	4
Environmental risks from technogenic activities / Екологічні ризики від техногенної діяльності / <i>Odesa Mechnikov National University (Odesa State Environmental University (Odesa, Ukraine)</i>	6	2	4
Energy parameters of risks / Енергетичні параметри ризиків / <i>State Higher Education Institution «Pryazovskyi State Technical University» (Mariupol, Ukraine)</i>	6	2	4
Application of a risk-based approach to build models of emergencies and their development / Застосування ризик-орієнтованого підходу для побудови моделей виникнення та розвитку надзвичайних ситуацій / <i>National Transport University (Kyiv, Ukraine)</i>	6	2	4
Climate change adaptation in crisis situations / Адаптація до зміни клімату в умовах кризових ситуацій / <i>Kharkiv National Automobile and Highway University (Kharkiv, Ukraine)</i>	6	2	4
Restoration and development of Ukraine's human potential in the context of the crisis / Відновлення та розвиток людського потенціалу України в умовах кризи./ <i>Admiral Makarov National University of Shipbuilding (Mykolaiv, Ukraine)</i>	6	2	4
guest lecturer 1	2	2	-
guest lecturer 2	2	2	-
guest lecturer 3	2	2	-
The certification exam	2	2	2
<b>UNITED:</b>	<b>50</b>	<b>22</b>	<b>30</b>