

The report on
cooperation with BTU
16.09.2021



DNIPRO UNIVERSITY OF TECHNOLOGY – EDUCATION FOR SUSTAINABLE DEVELOPMENT GOALS

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Education Programs and International Mobility
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DNIPRO UNIVERSITY OF TECHNOLOGY

Cooperation with
56 Universities
from 20 countries

- **Europe**
- Asia
- Northern America
- South America

DNIPRO UNIVERSITY OF TECHNOLOGY – INSTITUTE OF ECONOMICS – DEPARTMENT OF MARKETING

SD Education Programs and International Mobility

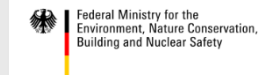
- ✓ **Brandenburg University of Technology Cottbus-Senftenberg (Germany)**
 - Technical University in Liberec (Czech Republic)
 - Technical University in Kosice (Slovak Republic)
 - Azerbaijan Technical University
 - Azerbaijan University of Architecture and Construction
 - Polytechnic University in Wroclaw (Poland)
 - Vilnius Technical University Gediminas (Lithuania)



Deutscher Akademischer Austausch Dienst
German Academic Exchange Service



network for energy supply and energy efficiency



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

1 LONG-TERM STUDY AND SEMESTER ABROAD



Educational levels

- ✓ Bachelor
- ✓ Specialist
- ✓ Master

- ✓ Brandenburg University of Technology Cottbus-Senftenberg (Germany) – **Since 2000**
- ✓ Technical University in Liberec (Czech Republic) - **Since 2018**



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

2 PARTICIPATION IN RESEARCH PROGRAMS DURING THE MONTH

Educational levels

- ✓ Master
- ✓ Postgraduate
- ✓ Teachers

- ✓ Brandenburg University of Technology Cottbus-Senftenberg (Germany)) - **Since 2000**
- ✓ Technical University in Liberec (Czech Republic)) - **Since 2018**
- ✓ Technical University in Kosice (Slovak Republic)
- ✓ Azerbaijan Technical University
- ✓ Azerbaijan University of Architecture and Construction





THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

3 PARTICIPATION IN SCIENTIFIC FORUMS AND WORKSHOPS



Educational levels

- ✓ Postgraduate
- ✓ Teachers

- Management and Marketing of Sustainable Development
- Standards in the Value Chains
- Energy Saving and Renewable Energy
- Sustainable Development and Climate Change



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

4 NESEFF – NETWORK FOR ENERGY SUPPLY AND ENERGY EFFICIENCY

COORDINATOR

- ✓ Brandenburg University of Technology Cottbus - Senftenberg (BTU)
- ✓ Chairman of the Neseff network is Prof. Dr. habil. Sylvio Simon from the Brandenburg University of Technology (BTU) Cottbus-Senftenberg

Since 2015

PROJECT OBJECTIVES

- ✓ Regular scientific exchange and
- ✓ Professional development of employees
- ✓ Informing and consultation of government bodies, establishments, associations, etc. in the field of power engineering
- ✓ Support of continuous education of students in this field

CORE PARTNERS

- Brandenburg University of Technology Cottbus - Senftenberg (BTU) - Faculty of Mechanical Engineering, Electrical Engineering and Business Engineering
- State Higher Educational Institution National Mining University (Dnipro University of Technology) - Institute of Economics - Dnepr, Ukraine
- Azerbaijan Technical University (Baku, Azerbaijan)
- Technical University of Liberec (Liberec, Czech Republic)
- Wrocław University of Technology (Wrocław, Poland)



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

**5 PARTICIPATION IN INTERNATIONAL SCIENTIFIC PROJECTS “On
Implementation of the Joint Research Project on Sustainability and E-
Learning in Higher Education” -**

Since 2014





THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

6 PARTICIPATION IN INTERNATIONAL SCIENTIFIC CONFERENCES BY BTU

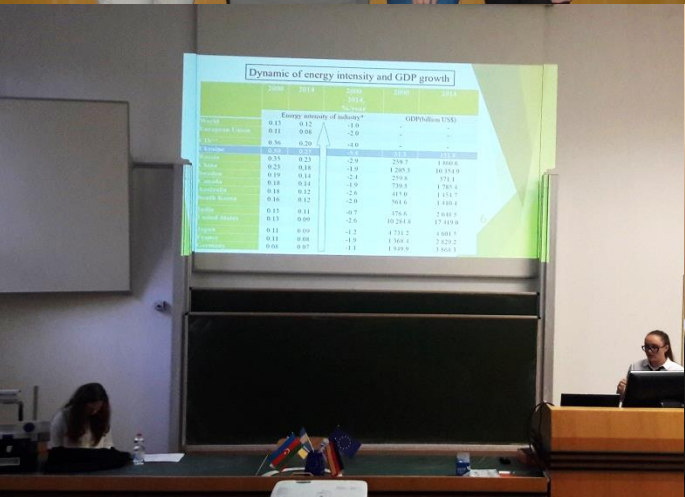


Educational levels

- ✓ Bachelor
- ✓ Specialist
- ✓ Master
- ✓ Postgraduate
- ✓ Teachers

Cottbus
Senftenberg
Dresden
Liberec
Kosice
Wroclaw
Baku

.....



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

7 SUMMER AND WINTER SCHOOLS UNDER BTU

Educational levels

- ✓ Bachelor
- ✓ Specialist
- ✓ Master
- ✓ Postgraduate
- ✓ Teachers

- Sustainable development management
- Strategic Environmental Assessment
- Mitigation and Adaptation to Impacts Climate Change
- Integrated Environmental Planning

Since 2014



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

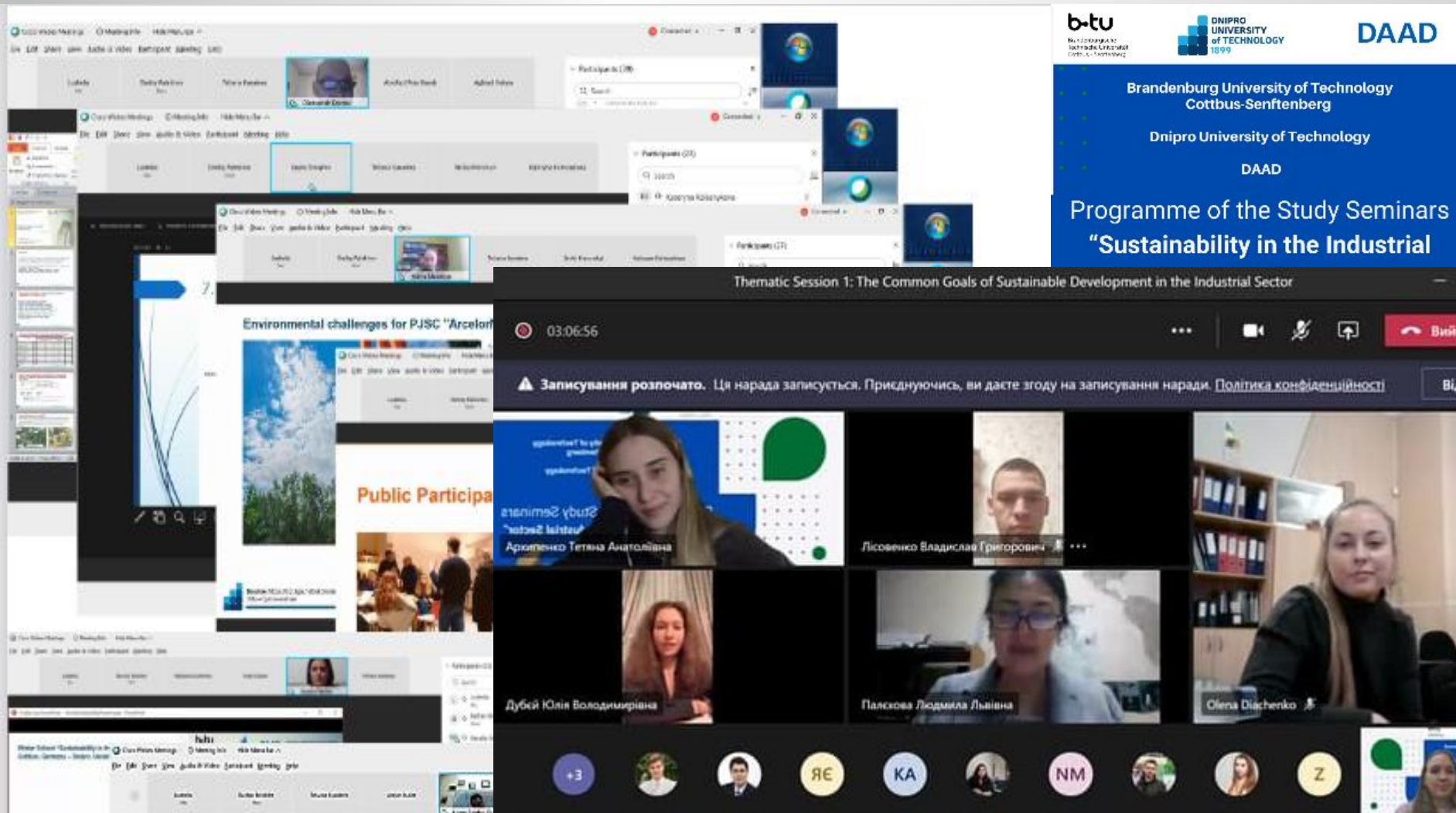
8 WINTER SCHOOL 2019 “Challenges of Sustainability in the Industrial Sector in Countries with Economies in Transition””



10-23 November, 2019. Students and teachers of the Dnipro University of Technology took part in the Winter School “Challenges of Sustainability in the Industrial Sector in Countries with Economies in Transition” under the DAAD programme of Study Seminars / Practicals for Groups of Foreign Students to Germany 2019/2020. Winter School was held at the Brandenburg University of Technology Cottbus–Senftenberg (Germany)

THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

9 WINTER SCHOOL 2020 “SUSTAINABILITY IN THE INDUSTRIAL SECTOR” (online)



b-tu
Brandenburg University of Technology
Cottbus-Senftenberg

DNIPRO UNIVERSITY
of TECHNOLOGY
1899

DAAD

Brandenburg University of Technology
Cottbus-Senftenberg

Dnipro University of Technology

DAAD

Programme of the Study Seminars
“Sustainability in the Industrial

THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

10 CZECH CENTER – THE JOINT PROJECTS WITH BTU

Memorandum of Understanding between Technical University of Liberec, Czech Republic and Dnipro University of Technology, Ukraine

Representatives of the Technical University of Liberec, Czech Republic, and Dnipro University of Technology, Ukraine, have agreed to strengthen the bonds between their institutions. This Memorandum of Understanding (hereafter referred to as MOU) is intended to set the terms and understanding between the partners. Both partners believe that this collaboration will contribute to the understanding between their nations and open new possibilities in research and teaching.

Since 2018



Concept of Ukrainian-Czech Center for International Cooperation (UCHC)

Mission of UCHC: preparation of Ukrainian students and HEI's teachers to participation in educational-scientific programs of mobility initiated by both DniproTech and Universities or Slavic studios in the Czech Republic, first of all by the Technical University of Liberec

The main forms of work:

- Specific training and short-term courses in the respective thematic areas
- Seminars, conferences, training workshops and other forms of aid to intensive education
- Internships, study tours, educational practices and other forms of exchange of experience
- Summer schools and other contact programmes for deepening knowledge and understanding in the respective areas
- Scientific and research projects and programmes which supports the development of domestic knowledge resources in partner countries



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

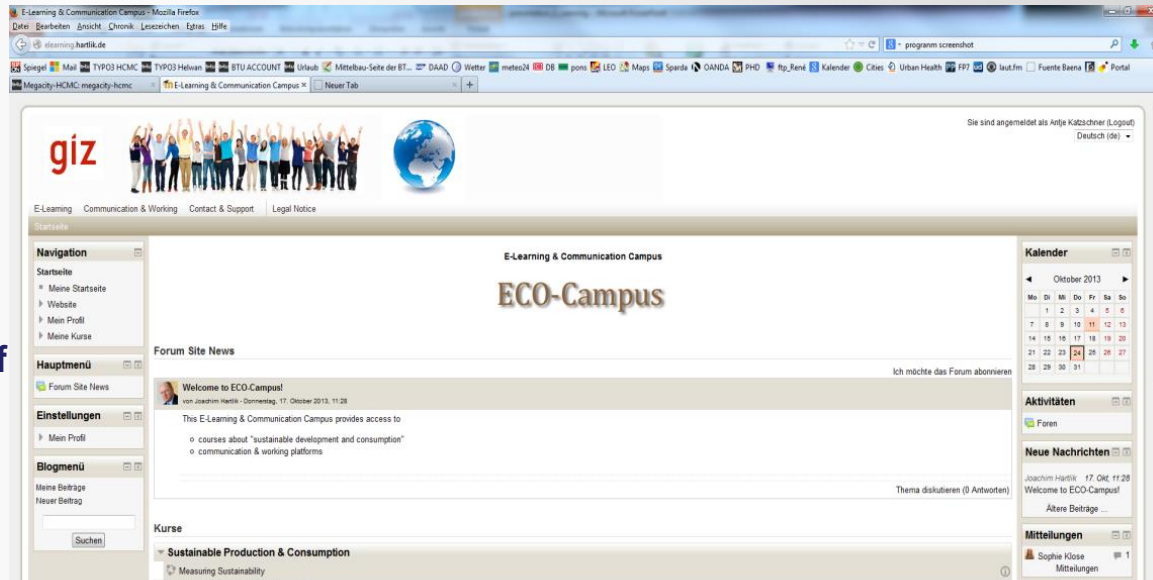
11 IMPLEMENTATION OF E-LEARNING COMPONENTS WITH THE SUPPORT OF THE BTU&GIZ

Educational level

✓ Master

- Sustainable Development
- Marketing
- Measuring & Managing Sustainability
- Sustainable Management of Land Use
- Sustainable Energy
-

Since 2014



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

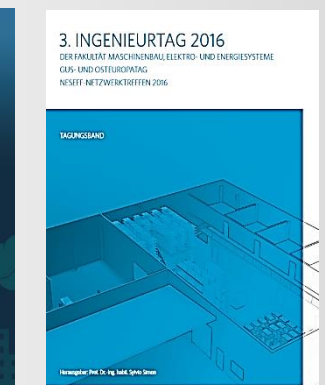
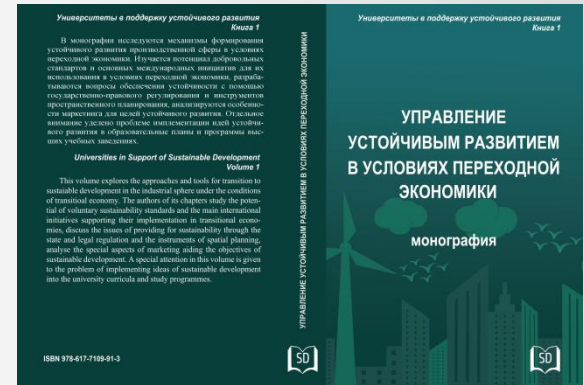
12 TEXTBOOKS AND MONOGRAPHS ON SUSTAINABLE DEVELOPMENT (under BTU projects) **2015 -2016**

2015

- ✓ **Management, marketing, entrepreneurship: promoting sustainable development: materials of the I International scientific-practical Internet conference, December 25-26, 2014 /** Editors: Shvets V., Palekhova L. Dnepropetrovsk-Cottbus: NSU-BTU, 2015, 215 p.
- ✓ **Management for Sustainable Developments in Transitional Economies: Monograph /** Editors: Schmidt M., Hansmann B., Palekhov D., Pivnyak G., Shemshuchenko Y., Pavlenko A., Shapar A., Shvets V., Palekhova L. Dnepropetrovsk-Cottbus: NMU-BTU, 2015. 430 p. ISBN 978-617-7109-91-3

2016

- ✓ **Management for Sustainable Developments in Transitional Economies: Monograph. Second, Revised and Enlarged Edition /** Editors: Schmidt M., Hansmann B., Palekhov D., Pivnyak G., Shemshuchenko Y., Pavlenko A., Shapar A., Shvets V., Palekhova L. Dnepropetrovsk-Cottbus: NMU-BTU, 2016. 432 p. ISBN 978-966-921-006-7
- ✓ **Shvets V., Palekhova L. Universities in facilitating transfer of science and technology in energy efficiency. In: Sylvio Simon (Ed.) NESEFF- NESEFF-NETZWERKTREFFEN 2016. Brandenburgische Technische Universität Cottbus-Senftenberg. P. 98-103. ISBN 978-3-940471-28-4**
- ✓ **Palekhova L. (2016) Experience of using voluntary sustainable development standards in energy sphere. In: NESEFF-NETZWERKTREFFEN 2016. Brandenburgische Technische Universität Cottbus-Senftenberg. NESEFF-NETZWERKTREFFEN 2016. Brandenburgische Technische Universität Cottbus-Senftenberg. P. 109-113. ISBN 978-3-940471-28-4**



THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

13 TEXTBOOKS AND MONOGRAPHS ON SUSTAINABLE DEVELOPMENT (under BTU projects) 2017 -2019

2017

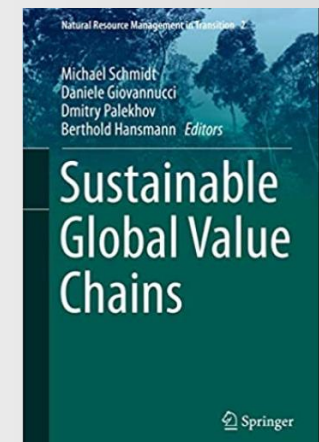
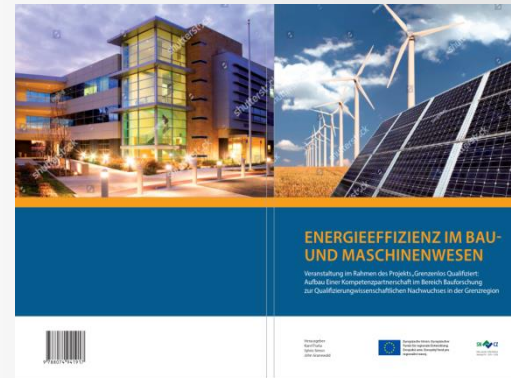
- ✓ **Palekhova L., Palekhov D. Anwendung von Energieeffizienzkriterien für Marktstrategien von Großunternehmen in den Transformationsländern.** In: Energieeffizienz im Bau und Maschinenwesen [Herausgeber: K.Fraña, S.Simon, J.Grunewald]. Technische Universität in Liberec, 2017. P. 44-53. ISBN: 978-80-7494-362-1.

2018

- ✓ **Shvets V., Palekhova L. (2018) An adaptive management approach in the context of climate change.** In: NESEFF-NETZWERKTREFFEN Brandenburgische Technische Universität Cottbus-Senftenberg. ISBN 978-3-940471-25-3
- ✓ **Palekhova L. (2018) Positioning of industrial enterprises based on voluntary energy standards.** In: NESEFF-NETZWERKTREFFEN Brandenburgische Technische Universität Cottbus-Senftenberg. ISBN 978-3-940471-25-3
- ✓ **Palekhova L., Podzolkova D. (2018) Problems of the renewable energy market development in Ukraine.** In: NESEFF-NETZWERKTREFFEN Brandenburgische Technische Universität Cottbus-Senftenberg. ISBN 978-3-940471-25-3
- ✓ **Palekhova L., Trehub M. (2018) The problems of the sustainable industrial use of lands under changing climate.** In: NESEFF-NETZWERKTREFFEN Brandenburgische Technische Universität Cottbus-Senftenberg. ISBN 978-3-940471-25-3

2019

- ✓ **Palekhov D., Palekhova L. (2019) Responsible Mining: Challenges, Perspectives and Approaches.** In: Giovannucci D., Hansmann B., Palekhov D., Schmidt M. (Eds.). Sustainable Global Value Chains. Natural Resource Management in Transition. Vol. 2. Springer-Verlag, Berlin Heidelberg. P. 521 -544. 24 стр. DOI: 10.1007/978-3-319-14877-9_28
- ✓ **Palekhov D., Palekhova L. Schmidt M., Hansmann B. (2019) A Paradigm Shift in University Education towards Sustainable Development.** In: Giovannucci D., Hansmann B., Palekhov D., Schmidt M. (Eds.). Sustainable Global Value Chains. Springer-Verlag, Berlin Heidelberg. 2019. P. 713-737. 24 стр DOI: 10.1007/978-3-319-14877-9_38





THE MAIN DIRECTIONS OF INTERNATIONAL EDUCATIONAL INTEGRATION

14 TEXTBOOKS AND MONOGRAPHS ON SUSTAINABLE DEVELOPMENT (under BTU projects) **2020-2021**

2020

- ✓ **Palekhova L. Management for sustainable development: Handbook on conceptual framework** [The textbook for students of higher educational institutions]. National Technical University Dnipro Polytechnic, 2020. 332 c. ISBN 978-966-921-006-7. (In Ukr.)
- ✓ **Palekhov D., Palekhova L. (2021) Energy management in industry: Ukrainian lessons from Covid-19 pandemic.** In: Transposition of the Acquis Communautaire – Migration and Environment. Umweltrecht in Forschung und Praxis 66. Verlag Dr. Kovač, Hamburg PP. 10-27

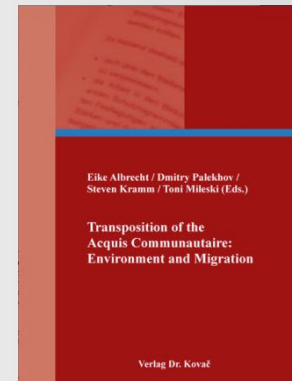
2021

- ✓ **Sustainability in the industrial sector: Proceedings of the Study Seminar at NTU Dnipro Polytechnic - BTU Cottbus-Senftenberg, 24th Dec. 2020 - 18th Jan. 2021.** Ed.: Shvets V., Palekhova L. Dnipro-Cottbus: National Technical University Dnipro Polytechnic, 2021. 192 p.

in planned

2022

- ✓ **Management of Sustainable Production and Consumption in Value Chains: Monograph** / Editors: Schmidt M., Shvets V., Palekhova L. Dnipro-Cottbus: NMU-BTU, 2022. 230 p. (In Ukr.)





*We invite all the parties
to cooperate with us!*

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- Coordinator for the programmes under the Memorandum “Sustainability and E-Learning in Higher Education” with the Brandenburg University of Technology Cottbus-Senftenberg (BTU) (2014-2021)
- Coordinator for the Programme “Mobility for learners and staff – Higher Education Student and Staff Mobility” under the Memorandum of Understanding between Technical University of Liberec, Czech Republic and Dnipro University of Technology (2018-2021)
- Expert in the field of management for sustainable development at NESEFF – International University Network “Network for Energy Supply and Energy Efficiency” (2015-2021)