



# Mykola Melnychuk

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## ● WORK EXPERIENCE

01/09/2015 – CURRENT Lutsk, Ukraine

**UNIVERSITY DEPARTMENT HEAD** LUTSK NATIONAL TECHNICAL UNIVERSITY

- team management;
- scientific work;
- teaching work

01/09/2020 – CURRENT Kyiv, Ukraine

**EXPERT** NATIONAL AGENCY FOR QUALITY ASSURANCE IN HIGHER EDUCATION OF UKRAINE

- examination of educational programs in the field of Mechanical Engineering

01/09/2013 – 01/09/2015 Lutsk, Ukraine

**DEPUTY DEAN** LUTSK NATIONAL TECHNICAL UNIVERSITY

- management of international activities of the Faculty of Technology

01/09/2007 – 01/09/2012 Lutsk, Ukraine

**SENIOR LECTURER** LUTSK NATIONAL TECHNICAL UNIVERSITY

- teaching courses "Technology of structural materials", "Welding production"

01/01/2003 – 01/09/2007 Lutsk, Ukraine

**DESIGN ENGINEER** COMPANY "BOGDAN MOTORS"

- design of non-standard equipment
- CAD-CAM-CAE

01/09/2020 – CURRENT Częstochowa, Poland

**VISITING PROFESSOR** JAN DLUGOSZ UNIVERSITY IN CZESTOCHOWA

- elective course of 60 academic hours

## ● EDUCATION AND TRAINING

01/10/2005 – 01/06/2011 Lutsk, Ukraine

**PHD OF MATERIALS SCIENCE** Lutsk national technical university

**Website** <https://Intu.edu.ua/en>

01/09/1996 – 30/06/2001 Lutsk, Ukraine

**MSC OF MATERIALS ENGINEERING** Lutsk national technical university

30/03/2021 – 10/06/2021 Kyiv

**SMART PRODUCTION. ADDITIVE MANUFACTURING.** FESTO

Website <https://www.kth.se/en>

## ● LANGUAGE SKILLS

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Mother tongue(s): **UKRAINIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2
<b>POLISH</b>	B2	B2	B2	B2	B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

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Autocad and Solidworks | Microsoft Excel | Microsoft Office | Lab Software: Origin Professional, Chem Draw Professional 16.0, ACD, MestReNova | MathLab: basic level

## ● ADDITIONAL INFORMATION

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### MANAGEMENT AND LEADERSHIP SKILLS

#### PROJECT MANAGEMENT SKILLS

Project Manager in LNTU several projects:

1) 2020-2024 ERASMUS+ CBHE program

"Boosting the role of HEIs in the industrial transformation towards the Industry 4.0 paradigm in Georgia and Ukraine" (HEin4.0);

2) 2019-2020 SI program

"Modernization of internationalization tool practice and competence of the staff to support learning focused on students in the universities of the East partnership " (INTERTOOL);

3) 2013 - 2016 TEMPUS IV program

Modernization of two cycles (MA, BA) of competence-based curricula in material engineering according to the best experience of Bologna Process (MMATENG);

4) 2012 - 2015 TEMPUS IV program

"Modernizing higher engineering education in Georgia, Ukraine and Uzbekistan to meet the technology challenge "(ENGITEC)

### PUBLICATIONS

#### Research work

##### NEW RESEARCH PROJECTS:

Development of ecological light composite materials with the use of industrial waste and various mineral fillers.

Development environmentally friendly materials on a natural fillers basis, as an alternative to plastics, in particular for additive manufacturing

1.Melnychuk, M., Shevchuk, I., Kashytskyi, V., Feshcuk, Y., Polivoda, N. (2023). Mechanical Properties of Hybrid Composites Based on Polypropylene Modified with Natural Fillers. In: Ivanov, V., Pavlenko, I., Liaposhchenko, O., Machado, J., Edl, M. (eds) Advances in Design, Simulation and Manufacturing VI. DSMIE 2023. Lecture Notes in Mechanical Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-32774-2\\_22](https://doi.org/10.1007/978-3-031-32774-2_22)

2. Application of Microphotogrammetric and Material Science Techniques in the Study of Materials on the Example of Alloy AlZnMgCu./ A. Uhl , Y. Melnyk, O. Melnyk , I. Boyarska , M. Melnychuk./ Lecture Notes in Mechanical. Springer, Cham (2020). pp.477-486.- [[https://doi.org/ 10.1007/978-3-030-22365-6\\_48](https://doi.org/10.1007/978-3-030-22365-6_48)].(Scopus)
  3. The structuring of tribotechnical epoxy composite materials in the electromagnetic field / P.P. Savchuk, V.P. Kashytskyi, M.D. Melnychuk, O.L. Sadova, S.V.Myskovets// Functional Materials. – 2019, Volume 26, Issue 3. – P. 621-628. [<https://doi.org/10.15407/fm26.03.621>].( Scopus)
  4. Melnychuk, M., Andrushko, O. Influence of the scale factor of fibers and the temperature of structuring on the physical and mechanical characteristics of hemp fiber biocomposites / Lecture Notes in Mechanical. Springer, Cham (2019). pp.108-116. [[https://doi.org/10.1007/978-3-319-93587-4\\_12](https://doi.org/10.1007/978-3-319-93587-4_12)].(Scopus)
  5. Melnychuk M., Poteichuk M., Kashytskyi V., Sosnowski M., Kutsyk S. (2021) Thermo-Mechanical Properties of Perlite Composite. In: Tonkonogyi V. et al. (eds) Advanced Manufacturing Processes II. InterPartner 2020. Lecture Notes in Mechanical Engineering. Springer, Cham. [[https://doi.org/10.1007/978-3-030-68014-5\\_33](https://doi.org/10.1007/978-3-030-68014-5_33)] ( Scopus)
  6. Melnychuk M., Malets V., Sosnowski M., Mykhaylyuk I., Boyarska I. (2021) Preparation and Characterization of a Biocomposite Based on Casein and Cellulose. In: Ivanov V., Trojanowska J., Pavlenko I., Zajac J., Peraković D. (eds) Advances in Design, Simulation and Manufacturing IV. DSMIE 2021. Lecture Notes in Mechanical Engineering. Springer, Cham. [[https://doi.org/10.1007/978-3-030-77719-7\\_55](https://doi.org/10.1007/978-3-030-77719-7_55)]( Scopus)
  7. Kashytskyi, V., Sadova, O., Melnychuk, M., Savchuk, P., Liushuk, O. (2022). Influence of Additives Processed by Physical Fields on Tribotechnical Properties of Polymer Composites. In: Ivanov, V., Trojanowska, J., Pavlenko, I., Rauch, E., Peraković, D. (eds) Advances in Design, Simulation and Manufacturing V. DSMIE 2022. Lecture Notes in Mechanical Engineering. Springer, Cham. Cham. pp 393-403. [https://doi.org/10.1007/978-3-031-06025-0\\_39](https://doi.org/10.1007/978-3-031-06025-0_39)
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## **RESEARCH EXPERTISE:**

01/01/2015 – CURRENT

## **JOB-RELATED SKILLS**

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- A deputy chairman of the Scientific and Methodological Commission under the Ministry of Education and Science of Ukraine
- A member of the Specialized Academic Council on the specialty - "Materials Science"
- A member of the program committee of the international conference "Design, Simulation, Manufacturing: The Innovation Exchange".