Curriculum Vitae

Name	***Halyna M. Hubal***
Place of Birth	*Lviv - Ukraine*
Position	*PhD., Associate Professor of the Department of Artificial Intelligence and Mathematical Modelling* ***h.hubal@lntu.edu.ua***

DEGREES RECEIVED:

Degree	***Institution***	***Department***	***Year***
MSc	Lesya Ukrainka Volyn State University (Lutsk, Ukraine), Faculty of Mathematics	Department of Differential Equations and Mathematical Physics	2002
PhD	Institute of Mathematics of National Academy of Sciences of Ukraine (Kyiv, Ukraine)	Department of Differential Equations with Partial Derivatives, Department of Mathematical Physics	2007

WORK EXPERIENCE:

Rank/Position	***Dates***	***Department***	***Institution/Company name***
Associate Professor of the Department of Artificial Intelligence and Mathematical Modelling	from 2026 to present	Artificial Intelligence and Mathematical Modelling	Lutsk National Technical University (Ukraine)
Associate Professor, Deputy Head of the Department of Physics and Higher Mathematics	2021-2026	Physics and Higher Mathematics	Lutsk National Technical University (Ukraine)
Associate Professor	2017-2020	Basic Sciences	Lutsk National Technical University (Ukraine)
Associate Professor	2008-2017	Higher Mathematics	Lutsk National Technical University (Ukraine)
Associate Professor	2007-2008	Theoretical and Fundamental Economics	Volyn Institute for Economics and Management (Ukraine)
Senior Lecturer	2006-2007	Theoretical and Fundamental Economics	Volyn Institute for Economics and Management (Ukraine)

Senior Lecturer	2005-2006	Higher Mathematics and Informatics	Lesya Ukrainka Volyn National University (Ukraine)

FOREIGN INTERNATIONAL SCIENTIFIC INTERNSHIPS:

October 10, 2025	Oxford, United Kingdom, Certificate ISPC № 101025-004
September 26, 2025	Kraków, Republic of Poland, Certificate IST № 25/2609-008
January 24, 2025	Singapore, Republic of Singapore, Certificate IST № 25/2401-032, Decision of the Academic Council of Lutsk National Technical University (minutes No. 7, dated March 27, 2025);
May 17, 2024	Sydney, Australia, Certificate IST № 24/1705-030, Decision of the Academic Council of September 26, 2025Lutsk National Technical University (minutes No. 11, dated June 4, 2024);
April 12, 2024	Vienna, Austria, Certificate GS 120424-036, Decision of the Academic Council of Lutsk National Technical University (minutes No. 10, dated April 26, 2024);
April 2–5, 2024	Athens, Greece, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 10, dated April 26, 2024);
January 19, 2024	Vienna, Austria, Certificate GS 190124-049, Decision of the Academic Council of Lutsk National Technical University (minutes No. 10, dated April 26, 2024);
November 14–17, 2023	Zagreb, Croatia, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 4, dated November 28, 2023);
November 10, 2023	Vienna, Austria, Certificate GS 101123-025, Decision of the Academic Council of Lutsk National Technical University (minutes No. 4, dated November 28, 2023);
February 14–17, 2023	Osaka, Japan, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 8, dated March 28, 2023);
February 7–10, 2023	Stockholm, Sweden, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 8, dated March 28, 2023);
September 6–9, 2022	Paris, France, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 3, dated October 27, 2022);
February 8–11, 2022	Ankara, Turkey, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 7, dated March 17, 2022);
February 1–4, 2022	Tokyo, Japan, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 7, dated March 17, 2022);
January 25–28, 2022	London, England, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 7, dated March 17, 2022);
March 2–5, 2021	Tokyo, Japan, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 9, dated March 27, 2021);
February 16–19, 2021	Rome, Italy, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 9, dated March 27, 2021);
February 2–5, 2021	Lisbon, Portugal, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 9, dated March 27, 2021);
October 12–16, 2020	Stockholm, Sweden, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 6, dated December 24, 2020);
October 5–8, 2020	Tokyo, Japan, Certificate, Decision of the Academic Council of Lutsk National Technical University (minutes No. 6, dated December 24, 2020).

NUMBER OF WORKS PUBLISHED IN SCIENTIFIC JOURNALS AND CONFERENCE PROCEEDINGS:

Author of 220 publications (195 of them are individual) including
154 - publications in scientific journals and in conference proceedings (130 of them are individual),
2 individual monographs, 14 textbooks (13 of them are individual).

Main scientific publications (most of them are individual) are published in leading mathematical scientific foreign editions, a significant number of which are included in various international scientometric databases (in particular, in Scopus, Web of Science, etc.).

TOPICS OF NEW RESEARCH PROJECTS:

Mathematical study of infinite dynamic systems corresponding to the equations of mathematical physics. Mathematical modeling of real processes during the research of gases, liquids, plasma, solid bodies and biological organisms of various degrees of development and composition, where functional-analytical and probabilistic mathematical methods are used, and the BBGKY hierarchy of equations (Bogoliubov's chain of equations) is of particular importance. The use of the research in the fundamental areas of modern mathematics, in various branches of physics, mathematical biology, mathematical economics, and modern nanotechnologies. Mathematical modeling of biochemical processes on such issues as oscillations and synchronization of these oscillations, mutual synchronization in the life of individual cells and groups of cells, intercellular metabolism due to diffusion, self-oscillations in glycolysis, biochemical processes rates in cells, mathematical analysis of qualitative characteristics of solutions of systems of differential equations describing biochemical processes rates, mathematical study of the stability of fixed points of systems of differential equations describing biochemical processes rates, mathematical modeling of the self-oscillating biochemical process of photo-synthesis.
Programming in different programming languages.
Investigations and work in the LaTeX system.

TEACHING COURSES:

Higher Mathematics,
Applied Mathematics,
Probability Theory, Random Processes, Mathematical Statistics,
Mathematics for Economists,
Mathematical Analysis,
Computer Discrete Mathematics,
Discrete Mathematics,
Mathematical Programming,
Operations Research,
Programming,
Basics of Working on a Personal Computer,
Statistical Analysis,
Intelligent Analysis,
Vector Databases,
Mathematical Foundations of Classical Statistical Mechanics
Higher Mathematics (for foreign students in English)
Probability Theory and Mathematical Statistics (for foreign students in English)

PROFESSIONAL ACTIVITIES:

Editorial Team Member of International Science Journal of Engineering & Agriculture that is peer-reviewed journal placed in many scientometric databases (eISSN 2720-6319).

Editorial Board Member of International Science Group peer-reviewed Edition that is placed in many scientometric databases.

Editorial Consultant (on physics and mathematics) of multidisciplinary and internationally disseminated scientific journal of Ukraine "Grail of Science".

Editorial Team Member of International Scientific Journal "Internauka" that is peer-reviewed journal placed in many scientometric databases (ISSN 2520-2057 (Print); ISSN 2520-2065 (Online)).

Editorial Board Member of International Scientific Journal "Education and Science" that is peer-reviewed

journal placed in many scientometric databases (ISSN (print) 2617-0833; ISSN (online) 2617-0841).

Member of the non-governmental organization "International Educators and Scientists Foundation" (in specialties: E7 Mathematics, E8 Statistics, and F1 Applied Mathematics).

Member of the non-governmental organization "Lviv Mathematical Society".

PERSONAL SKILLS AND COMPETENCES:

Languages:

Ukrainian native language

English Level B2;
certificate No. CEB1-215 dated March 2020, First Certificate in English (FCE) - B2 First, Council of Europe Level B2

Researchgate.net: https://www.researchgate.net/profile/Halyna_Hubal
Google Scholar: https://scholar.google.com.ua/citations?user=d9wD7ksAAAAJ&&hl=uk
ORCID: https://orcid.org/0000-0002-8824-4565
Scopus: https://www.scopus.com/authid/detail.uri?authorId=55145665500
Web of Science: https://www.webofscience.com/wos/author/record/IAO-2565-2023