

TEACHER PROFILE

Borys Prydalnyi,

candidate of technical science (PhD), associate professor (Docent)

EDUCATION 2004 Lutsk State Technical University – Master
EXPERIENCE 2011 Ternopil National Technical University - Candidate of Science
2014 Lutsk National Technical University – Associate Professor

SCIENTIFIC INTERESTS Creation structures of clamping mechanisms of turning lathes and milling machines. Scientific research related to the problem of improving the technical and economic indicators of machining on turning lathes and milling machines.

TEACHING EXPERIENCE **Teaching experience** - 13 years
2018 – Present: Associate professor of department «Applied mechanic» of the Lutsk National Technical University.
2014 - 2015 Associate professor of department «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.
2012 - 2014 On positions of associate professors of department «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.
2011 - 2012 Assistant professor of department «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.
2006 - 2011 Assistant teacher of department «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.
2004 - 2007 Postgraduate student of the department of «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.

WORK EXPERIENCE **2015 - 2018** Doctoral student of the department of designing machine tools and machines of the Kiev National Technical University of Ukraine "KPI".
2007 - 2009 Engineer on scientific information at the private enterprise «Волвест М».
2004 - 2007 Postgraduate student of the department of «Computer-aided design of machine tools and mechanical engineering» of the Lutsk National Technical University.
2004 - 2005: Head of the laboratory of machine tools of the Lutsk State Technical University.

MAIN DISCIPLINES The theory of technical systems, Design of stands for mechatronic systems, Modern machine tool control systems, Electrohydroautomatics in mechatronic systems

KNOWLEDGE OF LANGUAGE Independent use of English on the intermediate level

CERTIFICATES OF HONOR AND PROGRAMMES OF INTERNSHIP AND INTERNATIONAL EXCHANGE OF ACADEMICS **2011** Diploma of winner of the national competition “Invention 2011” in category “The best invention – 2011 in Volyn region”.
2015 Diploma of first award of jury of Higher education academy of science of Ukraine for scientific publication “Designing of purpose mechanism for manipulation in machine tools” in category “Series scientific works”.
2019 Honorary credential for the creation of a technical project with “Zhejiang ACME Information Technology” China within the framework of the competition “THOUSAND PLAN” foreign experts in Zhejiang province.
2019 Certificate of participation in PROM Programme (of NAWA) – International scholarship exchange of PhD students and academics. Bialystok University of technology, Poland
2019 Certificate about successfully completed the internship programme. Zhejiang Omnipotent Spring Machine Co., Ltd, China.

MOST RECENT PUBLICATIONS

1. Kuznetsov Y.M., Prydalnyi B.I., (2016). Drives of clamping mechanisms of metalworking machines: **monograph**/under the editorship of Y.M.Kuznetsov.-Lutsk:«ВежаДрук».352 p.
2. Kuznetsov Y.M., Prydalnyi B.I., (2014). Design of target manipulation mechanisms for new generation machines tools: **training manual** from the Ministry of Education and Science of Ukraine.-Lutsk: ISBN 978-617-7181-20-9 «ВежаДрук». 425 p.
3. Prydalnyi B.I., Kuznetsov Y.M., (2018). Theoretical research of the characteristics of an electromechanical clamping device with an asynchronous electric motor. Scientific notes: intercollegiate collection, 61. Lutsk. P.185-189.
4. Kuznetsov Y.M., Prydalnyi B.I., Gaidanko Y.V., (2018). The clamping chuck with an external electromechanical actuator. Cutting and tools in technological systems: International Science, 88. - Kharkiv: NTU "KhPI". P.67-72.
5. Prydalnyi B.I., (2017). Electromechanical clamping actuator for turning machines. Reliability of the instrument and optimization of technological systems. Collection of scientific works, 40. Kramatorsk. P.225-230.
6. Prydalnyi B.I., Kuznetsov Y.M., (2015). Analysis of the process of clamping of rotation bodies in a clamping mechanism with an electromechanical actuator. Engineering sciences: newsletter of KhNTU, 4(55). Kherson. P.48-56.
7. Kuznetsov Y.M., Prydalnyi B.I., (2015). Precondition for genetic-morphological synthesis of electromechanical drives of rotating clamping mechanisms. Bulletin of the NTUU "KPI". - Series "Machine-building", 3(75). Kyiv. P.45-48.
8. Kuznetsov Y.M., Prydalnyi B.I., (2015). Genetic formulas for description and structural diagrams of self-adjusting clamping actuators. Reliability of the instrument and optimization of technological systems. Collection of scientific works, 36. Kramatorsk. P.150-153.
9. Kuznetsov Y.M., Prydalnyi B.I., Gerra Zh.A., Hamueil (AG), (2015). A new approach to the description and synthesis of actuators of mechanisms for manipulation by objects in technological equipment. Bulletin of the Chernihiv State Technological University. - Series "Technical Sciences", 2(78). - Chernigov. P.9-16.
10. Kuznetsov Y.N., Prydalnyi B.I., Hamuyela J.A., Guerra (AG), (2015). The description of drive of clamping mechanism of automatic lathes by using genetic-morphological approach. Machines, technologies, materials international journal. Published by Scientific technical Union of Mechanical Engineering, №4. – Sofia, Bulgaria. P.35–38.

Patents:

- «Device for clamping rod materials» Patent of Ukraine №95863, 2015;
- «Spindle assembly of machine tool» Patent of Ukraine №111465, 2016;
- «Spindle assembly of machine tool» Patent of Ukraine №112324, 2016;
- «Creation and research of high-speed spindle assembly with clamping mechanisms on the modular principle for multi-coordinate machine tools of the new generation» Certificate of copyright to the work in Ukraine №70668, 2017;
- «Spindle assembly of machine tool» Patent of Ukraine №116050, 2018;
- «Clamping chuck» Patent of Ukraine №124167, 2018.

REFERENCES ON PROFILE IN SCIENTIFIC BASES Data from scientific base “Google academy” *h*-index – 2; total number of citations of scientific publications – 16,
<https://scholar.google.com.ua/citations?user=E4q3gg0AAAAJ&hl=ru>
ORCID icon <https://orcid.org/0000-0001-8565-5986>
Data from scientific base SCOPUS: *h*-index – 0; total number of citations of scientific publications – 0.