

Name: Prof. Dr. Dr. h.c. Prof. h.c. mult. Illés DUDÁS D.Sc.
Current Job Title: university teacher, professor emeritus
Current Workplace: Department of Production Engineering (Institute of Production Science), Faculty of Mechanical Engineering and Informatics, University of Miskolc, H-3515 Miskolc-Egyetemváros
Department of Technical Preparatory, Physics and Production Engineering, Institute of Engineering and Agriculture, Collage of Nyíregyháza, H-4400 Nyíregyháza, Kótaji út 9-11.
Home: H-3526 Miskolc, Katowice u. 8/g
E-mail address: illes.dudas@uni-miskolc.hu
Place and Date of birth: Nyírkarász, 19 July 1942.
Mother: Mária Orosz (1907-1981)
Father: Mihály Dudás (1904-2001)
Brothers: József (1926-1998) (apja neve: Lesku Mihály), Etelka (1930-2008), Irén (1932-2000), László (1934-), Miklós (1935-2006), Mihály (1938-1963), István (1939-1995)
Marital status: married with three children, two grandchildren
Wife: Erzsébet Domján (1948), food engineer (Humboldt University, Berlin, 1972)

Children:

- Nóra (1969) (name of mother: Irén Kordélyos), physician at the polyclinic of DOTE (1995) Budapest University of Economics (2006), grandchildren: Dorottya Kiss (2000)
- Illés (1976), Budapest University of Economics BA (1998.), economist, M.A (2000.), M.Phil, Cambridge, 1999.
- Erzsébet (1978), Janus Pannonius University of Pécs (2002), lawyer, European lawyer (2004), grandchildren: Blanka Palkó (2012)

Studies:

1948 - 1956 Primary school, Nyírkarász
1956 - 1960 Secondary Grammar school of Bessenyei György, Kisvárda
1961 - 1966 Technical University of Heavy Industry (TUHI) Faculty of Mechanical Engineering, Miskolc
1966 - 2000 Degree in Mechanical Engineering (M.sc)
Invited Scholarship Professor, University of Illinois, Chicago, (science of worm gear drives)

Employment:

1960 - 1961 at first unskilled worker, later semi-skilled worker at the „**Ganz Factory for Switches and Electrical Appliances**”
1966 - 1974 Independent design engineer at the „Department of Wire Drawing Machine Construction” in the „Major Department of Product Planning”. In the **Machine Factory of Diósgyőr (DIGÉP)**.

- **1974 - 1975** leader of the research group.
- **1976 - 1979** head of the „Department of Production Planning”.

- **1979 - 1983** head of at the „Department of Production Planning and Development”.

University of Miskolc:

1967 - 1971	invited practice leader and lecturer
1971-1972	part-time assistant lecturer
1972 - 1982	part-time lecturer
1982 - 1983	part-time senior lecturer
1983 - 1992	full-time associate professor
1989.07.01. - 1991.06.30.	deputy dean of the Faculty of Mechanical Engineering
1992.01.01. - 1992.07.01.	head of the department, associate professor
1992.07.01. - 2007.06.30.	head of the department, Department of Production Engineering, University of Miskolc, university full professor
1996-1999	Leader of an Autonom Research Team Supported by Hungarian, Academy of Sciences (HAS)
1997 - 2001	Széchenyi Professorship.
1998-2001	Leader of an Non-autonom HAS Research Team
2005.09.01. -	Collage of Nyíregyháza
2007.07.01. - 2012.07.19.	University of Miskolc, university full professor,
2012.07.20. -	Professor Emeritus

Scientific degrees:

1973	university doctor (Dr. techn.), University of Miskolc
1982	PhD Degree (C.Sc.), HSA
1991	Academic Doctor of Technical Sciences (D.Sc)

Honorary Professor title:

Technical University of Cluj Napoca, (1999), (Prof. h.c.)
 Kharkiv Polytechnic Institut, (2002), diploma of Honorary Professor (Prof. h.c.)
 University of Széchenyi István, (2007), honorary university professor

Honorary Doctor title:

Technical University of Cluj Napoca (2007), (Dr. h.c.)

Main Fields of Research:

Production engineering, manufacturing geometry, manufacturing systems, worm gearings (developing and manufacturing of drive worms and their manufacturer appliances), environment technology, quality assurance, CAD, CAM, CAQ, CIM techniques.

Most important publications from the last years:

1. **Dudás I.:** Theory and Practice of Worm Drives, Penton Press, London, 2000. p. 315., ISBN 1 8571 8027 5
2. **Dudás I.:** Gépgyártástechnológia I. A gépgyártás-technológia alapjai, Műszaki Könyvkiadó; 2011. p.: 583., ISBN 978-963-16-4030-4
3. **Dudás I.:** Gépgyártástechnológia II. Forgácsoláselmélet, technológiai tervezés alapjai; Műszaki kiadó, Budapest, 2011., ISBN 978-963-16-6003-6
4. **Dudás I.:** Gépgyártástechnológia III. A. Megmunkáló eljárások és szerszámaik, B. Fogazott alkatrészek gyártása és szerszámaik; Műszaki kiadó, Budapest, 2011, ISBN 978-963-16-6531-4
5. **Dudás I. - Cser I.:** Gépgyártástechnológia IV., Gyártás és gyártórendszerek tervezése 2. kiadás, Műszaki Kiadó, Budapest, 2010., ISBN 978-963-16-6517-8
6. **Dudás I. - Friedhelm, L. - Varga Gy.:** Gépgyártástechnológia V. Környezetbarát technológiák a gépgyártásban, Forgácsolás szárazon, minimális hűtéssel - kenéssel, Műszaki Kiadó, Budapest, 2010, ISBN 987-963-16-6500-0
7. **Dudás I.:** Csigahajtások elmélete és gyártása, Műszaki Kiadó, Budapest, 2007, ISBN 978-963-16-6047-0.
8. **Dudás I. - Bányai K.:** Optimization of generation of helicoidal surfaces, The International Conference on Mechanical Transmissions (ICMT'2001), April 5-10, 2001, Chongqing University, Chongqing, P.R. China
9. **Dudás I.:** Optimization and Manufacturing of the Spiroid Gearing, 4th World Congress on Gearing and Power Transmission, Paris, France, 1999. pp. 379-388.
10. **Dudás I. - Varga Gy.:** Up-to-date metrology for effective quality assurance of the machine production, V ICIE – International Congress of Industrial Engineering, Brazília, Rio de Janeiro Nov. 1-4, 1999
11. **Dudás I.:** Modern Measuring Technique as a Device of Effective Quality Assurance of Machine Production, Part of Proceedings of SPIE Vol. 3832. Sensors and Controls for Intelligent Machining and Manufacturing Mechantronics, Boston, USA, 1998
12. **Dudás I.:** Up-to-date Method for Geometrical Inspections of Helicoid Surfaces, ISMTII'96, Hayama, Japan, Sep 30 -Oct. 03. 1996, pp. 443-450.
13. **Dudás I.:** Generation of Spiroid Gearing, The 7th International Power Transmission and Gearing Conference, San Diego, California, USA, October 6–9, 1996, pp. 805-811.
14. **Bodzás S. - Dudás, I.:** Connection theory of conical worm gear drives, Hungarian Journal of Industrial Chemistry, 2011, Volume 39, Number 2, Pannon Egyetem, Veszprém, pp.: 173 – 176. (HU ISSN 0133-0276)
15. **Dudás I. - Bodzás S.:** Production geometry analysis, modeling and rapid prototyping production of manufacturing tool of spiroid face gear, International Journal of Advanced Manufacturing Technology, Springer, ISSN 1433-3015 (Online), 2012.07.19. (Online), ISSN 0268-3768 (Print), Volume 66, Issue 1 - 4., pp. 271 – 281., 2013. 04. (Print), (**IF 1.779**), DOI 10.1007/s00170-012-4323-9,
<http://www.springerlink.com/content/t1214xh51g664266/?MUD=MP>
<http://www.springer.com/home?SGWID=0-0-1003-0-0&aqId=2362785&download=1&checkval=5131188b9d22673b4f7f1f6eb76f3a2e>

16. **Dudás I. - Bodzás S.:** Measuring technique and mathematical analysis of conical worms, International Journal of Advanced Manufacturing Technology, Springer, ISSN 1433-3015 (Online), 2012.09.14. (Online), ISSN 0268-3768 (Print), Volume 66, Issue 9 (2013), pp. 2075 -2085, 2013. 05. (Print), (**IF 1.779**), DOI 10.1007/s00170-012-4483-7,
<http://www.springerlink.com/content/97744668843ukp07/>
<http://www.springer.com/home?SGWID=0-0-1003-0-0&aqId=2388273&download=1&checkval=51c4b487d0f43b24be21924d58a0daf9>
17. **Dudás I. - Bodzás S. - Mándy Z.:** Solving the pitch fluctuation problem during the manufacturing process of conical thread surfaces with lathe center displacement, International Journal of Advanced Manufacturing Technology, Springer, ISSN 0268-3768 (Online), 2013.06.14. (Online), Volume 66, Numbers 9 – 12 (Online), ISSN ISSN 0268-3768 (Print), Volume 69, Issue 5 (2013), pp. 1025 - 1031 (**IF 1.779**)
DOI 10.1007/s00170-013-5010-1,
<http://link.springer.com/article/10.1007%2Fs00170-013-5010-1>
<http://www.springer.com/home?SGWID=0-0-1003-0-0&aqId=2485615&download=1&checkval=b52fa61a5054910ead25d69d932b7803>