

H – Personální zabezpečení – přednášející / Teaching Staff – Lecturer							
Název VŠ / součásti / Name of university / faculty	Technical University of Liberec				Faculty of Mechatronics, Informatics and Interdisciplinary Studies		
Název SP / Name of study program	Electrical Engineering and Informatics / Engineering of Interactive Systems						
Jméno a příjmení / Lecturer (First name and last name)	Jaroslav Nosek				Tituly / Titles	Prof. Ing. CSc.	
Rok narození / Year of birth	1944	typ vzt. / Type of employment	Full time	Rozsah / Range of employment	100%	do kdy / employed till	2015
Přednášky v předmětech / Lectures in subjects	Smart Sensors and Actuators, Electrical Power Systems, Electrical Transducers of Physical Quantities, Piezoelectric Resonators						
Údaje o oboru vzdělání na VŠ a o praxi od absolvování VŠ, vč. studia v doktorském SP / Education, titles received and previous employment							
Education and earned degrees: 1998 Profesor in Physics by Technical University of Liberec 1997 Assoc. Prof. in Radioelectronics by Czech Technical University in Prague, Faculty of Electrical Engineering 1985 Assoc. Prof. in Technical Cybernetics by Technical University of Liberec 1983 CSc. (Ph.D.) in Theoretical Electrotechnics by Czech Technical University in Prague, Faculty of Electrical Engineering 1968 Ing. by Czech Technical University in Prague, Faculty of Electrical Engineering Career history: Since 1995 Technical University of Liberec, Faculty of Mechatronics and Interdisciplinary Engineering, Dept. of Electrical Engineering, since 2007 Institut of Mechatronics and Technical Informatics (Professor, Vice-dean for Education Affairs) 1987-1995 Technical University of Liberec, Dept. Of Electrical Engineering, (Assoc.Prof.) 1984-1987 Université des Sciences et de la Technologie, Institut de Physique, Alger, Algérie (Assoc.Prof.) 1971-1984 Technical University of Liberec, Dept. Of Electrical Engineering, (Asistent -MA) 1971 Industrial College in Jičín (Teacher) 1968-1970 ELP (ASEA-Brown-Boveri) Jablonec n.N., Designer of Automated Production Systems.							
Přehled o publikační a další tvůrčí činnosti za posledních 5 let / A short list of the most relevant publications and R&D achievements within in the last 5 years							
1] Nosek,J.: Actuators in Mechatronics Systems, pp. s.89-135, 4th chap. in the book <i>Mechatronics</i> (Edited by L.Maixner). Computer Press Brno, 2006 (in Czech). [2]Burianova, L., Pustka, M., Nosek, J.: Forced Vibrations of Piezoelectric Ceramic Bars Polarized in the Longitudinal Direction, <i>IEEE Trans. Ultrasonics, Ferroelectrics, and Frequency Control</i> , vol.56, no.1 (2009), pp.175-181, ISSN 0885-3010. [3] Nosek,J., Pokorný, M., Sulc, M., Burianova, L., Soyer, C., Remiens, D.: Thin Pb(Zr _x Ti _{1-x})O ₃ (PZT) rhombohedral compositions deposited on the Si-substrate and its non-linear piezoelectric response. <i>Ferroelectrics</i> , vol.351, June 2007, pp.112-121. ISSN 0015-0193. [4] Nosek,J., Pustka,M.: Determination of the Electromechanical Coupling Factor of Gallium Orthophosphate (GaPO ₄) and its Influence on Resonance-Frequency Temperature Dependencies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , vol.53,1, January 2006, pp.10-14, ISSN 0885-3010. [5] Nosek,J.: A precise measurement of some nonlinear effects and its application to the evaluation of nonlinear elastic constants of quartz and GaPO ₄ . <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , vol. 50, 4, (April 2003), pp.386-391, ISSN 0885-3010. [6] Kamba,S., Buixaderas, E., Petzelt, J., Fousek, J., Nosek, J., Bridenbaugh, P.: IR spectroscopy on [Pb(Zn _{1/3} Nb _{2/3})O ₃] 0.92 – [PbTiO ₃] _{0.08} and [Pb (Mg _{1/3} Nb _{2/3} O ₃) _{0.71} - [PbTiO ₃] _{0.29} single crystals. <i>Journal of Applied Physics</i> , vol.93, 2, (January 2003), pp.933-939 [7]Fousek, J., Cross, L.E., Nosek, J.: Domain phenomena in single crystalline and ceramics ferroic: unresolved and attractive problems. Elsevier Science Publishers, <i>Journ. Microelectronics Engineering</i> , 66 (2003) I-4, April 2003, pp.574-583. [8] Nosek,J.: Contribution to the non-linear properties of the SAW transducers, <i>Proc.TimeNav'07 and IEEE-FCS'07</i> , Geneva, Switzerland, May 29-June 1, 2007, pp.208-215. [9] Nosek,J., Sulc, M., Zheng, Z., Radobersky, T., Burianova, L.: Some Non-linear Electromechanical Properties of							

Thin PZT and ZnO Compositions Deposited on the Si-substrate. 11th European Meeting on Ferroelectricity, EMF-11, Bled, Slovenia, 3-7 Sept. 2007, (to appear in *Ferroelectrics*).

Působení v zahraničí / Stays abroad		<p>Since 1991: Université Paul Sabatier, Toulouse, INP-ENSEEIH Toulouse, France (regular yearly research and courses stages, supported by Erasmus LLP program in the last years)</p> <p>1996: Pennsylvania State University, Material Research Laboratory, State College, USA.</p> <p>1984 - 1987: Université des Sciences et de la Technologie, Institut de Physique, Alger, Algérie (Maitre des Conférences)</p> <p>Since 1993: Active participation on the world conferences in the area of Ultrasonics, Ferroelectrics, and Frequency Control (IEEE Member).</p>		
Obor habilitačního nebo jmenovacího řízení nebo udělení vědecké hodnosti / Habilitation and PhD degree – Branch		Physics (prof.) Technical Cybernetics (Assoc.Prof.) Theoretical Electrotechnics (CSc.-Ph.D.)	ohlasy publikací / number of SCI citations	
Habilitation and PhD degree - year and institution		Prof. (1998) by Technical University of Liberec, Ph.D. (1983) by Czech Technical University in Prague)	mezinár. / international	tuzem. / national
Podpis přednášejícího / Lecturer signature			125 (SCI)	5
			Datum / date	26 January 2009