## Information sheet for the course Special articles II – Theory of cutting property and workability

possible application in science and research.         Course contents:         Machining of metal materials and porosity of cutting tool materials. Definition machinabiliti         Účelovovzťažné criteria machinability. The effect of chemical composition of the material to to machinability. Definition Reznos. Cutting tool materials. Experimental research machinabiliti         and cutting ability. The application of advanced materials cutting. Machining of difficult machine materials. Dry, hard and high contact ion.         Recommended of required reading:         [1] BEŇO, J.: Teória rezania kovov. Košice, Vienala, 1999.         [2] BÉKÉS, J HRUBEC, J KICKO, J LIPA, Z.: Teória obrábania. Bratislava, Vydavateľstvo STU, 1999.         [3] HRUBEC, J.: Obrobiteľnosť - metódy trieskového obrábania. Bratislava, ES SVŠT, 1981.         [4] NESLUŠAN, M CZÁN, A.: Obrábanie titanových a niklových zliatin. Žilina, EDIS, 2001.         [5] MIKOVEC, M.: Obrábění materiálů s vysokou pevností a tvrdostí. Praha, SNTL, 1982.         Language: Slovak         Remarks:         The subject is provided in the winter semester of the second year of full-time study. Compulsory subject.         Evaluation history         Total number of students being evaluated: 0         A       B       C       D       E       FX         0       0       0       0       0       0	University: Al	exander Dubček	University of T	renčín			
Course unit code: STaM/D/3-33/d       Course unit title: Special articles II – Theory cutting property and workability         Type of course unit: optional       Planned types, learning activities and teaching methods:         2 lecture hours, attendance teaching method.       Number of credits: 5         Recommended semester: 3 <sup>st</sup> semester in the 2 <sup>nd</sup> year       Degree of study: III.         Course prerequisites: none       Assessment methods:         Active participation in laboratory exercises and submission semester work. The test consists of a written test and an oral preparation in the range of curriculum subject.         Learning outcomes of the course unit:         The student will be able to analyze the nature of workability and cutting property, the experimentally determined and practically applied in demanding machining operations wi possible application in science and research.         Course contents:         Machining of metal materials and porosity of cutting tool materials. Definition machinability deformation of advanced materials cutting. Machining of difficult machinability. The application of advanced materials cutting. Machining of difficult machinability. The application of advanced materials cutting. Machining of difficult machinability. The application of advanced materials cutting. Machining of difficult machinability. The application of advanced materials. Experimental research machinability and cutting ability. The application of advanced materials cutting. Machining of difficult machine materials. Dry, hard and high contact ion.         Recommended of required reading:       [1]         [2] BEKÉS, J IRUBEC, J K	Faculty: Facul	lty of special tec.	hnology				
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Supervisor: prof. Ing. Vojtěch Hrubý, CSc., guarantee of the study program "Technologies and			Hrubý, CSc., gi	arantee of the st	udy program "Te	chnologies and	
Materials in Mechanical Engineering", Assoc. prof. Ing. Ondrej Híreš, CSc., Assoc. prof. Ing.							
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