Information sheet for the course Engineering metrology

University : Alexander Dubček University of Trenčín Faculty: Faculty: of special technology Course unit code: M\$7/B/3-40/d Course unit title: Engineering metrology Type of course unit: compulsory Planned types, learning activities and teaching methods: Lectures - 2 hours weekly, laboratory seminars - 2 hours weekly, face to face method Number of credits: 3 Recommended semester: 6 th semester in the 3 rd year (full-time) 6 th semester in the 3 rd year (part-time) Degree of study: 1. (bachelor) Course prerequisites: none Assessment methods: 100% attendance on seminars, 60 % attendance on lectures, successful submission of the seminar paper, proof of acquired knowledge from the subject with using oral and written examination Learning outcomes of the course unit: The student has knowledge of cross-department focusing on application usage in the field of engineering metrology, dimensional and geometric inaccuracies machine parts, measurin, deviations and become familiar with gauges and measuring instruments. Course contents: Basic concepts - accuracy, measurement uncertainty, measurement units, methods of measurement. Measurement errors - gross, systematic, random. Dimensional inaccuracy of surface roughness. Gauges and measuring instruments. Basic lengt measurement of gears. Coordinate measurement of angles and cones. Measurement of surface roughness. Measurement and polar coordinates measurement of angles and cones. Measurement of	Saculty: Faculty of special					
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Last modification: 15.4.2014 Supervisor: Assoc. prof. Ing. Peter Lipták, CSc., guarantee of the study program "Mechanisms in Special Technology"