

Information sheet for the course Introduction to College Physics

University: <i>Alexander Dubček University of Trenčín</i>					
Faculty: <i>Faculty of special technology</i>					
Course unit code: <i>SaOA/B/4-09/d</i>			Course unit title: <i>Introduction to College Physics</i>		
Type of course unit: <i>optional</i>					
Planned types, learning activities and teaching methods: <i>Two hours per week</i>					
Number of credits: <i>1</i>					
Recommended semester: <i>1st semester in the 1st year (full-time)</i> <i>1st semester in the 1st year (part-time)</i>					
Degree of study: <i>I. (bachelor)</i>					
Course prerequisites: <i>none</i>					
Student obligation: <i>Final score–credit: 100% active participation in the exercises, demonstrate basic knowledge during the semester, transmit the independently solved semester homework on time.</i>					
Learning outcomes of the course unit: <i>Provide students with a greater knowledge of the courses „College Physics I. and II.“.</i>					
Course contents: <i>Subject Physics. Physical quantities and units. Vectors in physics. Kinematics. Dynamics. Work and mechanical energy. Gravitational field. Mechanics of rigid body. Mechanics of liquids and gases. Mechanical vibration and waves. Thermodynamics. The electric field. Electric current. Magnetism. Electromagnetic induction.</i>					
Recommended of required reading: <i>ŠTUBŇA I. - KOŠINA S. - VALKO L. - HÚŠŤAVA Š. - PERICHTA P.: Zbierka príkladov z fyziky k prijímacím pohovorom, Trenčín: TnU AD Trenčín, 1999.</i> <i>ČERVEŇOVÁ M. - FLAŠÍKOVÁ N. - MACKOVÁ V. - SKOČKOVÁ, E.: Fyzika – Príklady na prijímacie pohovory, Bratislava: STU EF Bratislava</i> <i>FEDORKO P. - BUŠOVSKÝ P. - SKÁKALOVÁ V. - ŽILINSKÁ D.: Zbierka úloh z fyziky pre prosemináre, Bratislava: STU CHTF Bratislava, 1996</i> <i>KLOKOČNÍKOVÁ H. – KAPIČKOVÁ, O.: Fyzika - Příprava k přijímacím zkouškám na vysokou školu, Praha: Compas Praha, 1996</i> <i>KUBÍNEK, R. - LÁŘOVÁ, H.: Fyzika v příkladech a testových otázkách pro uchádzače o studium, Olomouc: Rubico, 1998</i>					
Language: <i>Slovak</i>					
Remarks: <i>The course is optional.</i>					
Evaluation history <i>Total number of students being evaluated: 0</i>					
A	B	C	D	E	FX
Lecturers: <i>PaedDr. Erika Hujová, PhD.</i>					
Last modification: <i>15.4.2014</i>					
Supervisor: <i>prof. Ing. Alexej Chovanec, CSc., guarantee of the study program “Vehicles Maintenance and Repair”.</i>					