

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KFChL/13-Mgr/22	Course title: Problem solving in Physics
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1., 3., 5., 7., 9.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Student writes at least two tests during semester and the assessment of these tests determines the final mark. The limit for successful completion of the subject is 60%. Conditions for Course Completion could be changed in the case of distance form of study. Assessment: A 92-100 %, B 84-91 %, C 76-83 %, D 68-75, E 60-67, Fx 59% and less. Scale of assessment (preliminary/final): 100/0	
Learning outcomes: By completion of the subject student acquires skills in solving problems in physics in the extent needed for pharmacy students. Physical principles are applied to problems regarding different parts of pharmacy, medicine and daily life.	
Class syllabus: Problems solved during seminar are related to the topic of lectures in the subject Pharmaceutical physics: Physical quantities and units. Kinematics and dynamics of mass point. Newton's laws. Mass and gravity. Mechanical work and energy. Solid body mechanics. Hydrostatics and hydrodynamics. Heat, thermodynamics. Electrostatics. Electrical current. Magnetism. Radiation.	
Recommended literature: Videoprednášky prístupné cez MS Teams Kopecký, F.: Prehľad fyziky pre farmaceutov I. (Mechanika, hydromechanika a náuka o teple). 4. vydanie, Bratislava, Univerzita Komenského, 1999. 184 s. (skriptá, http://www.fpharm.uniba.sk/index.php?id=2665). Sarka, K., Kopecký, F.: Prehľad fyziky pre farmaceutov II. (Elektrina, magnetizmus a žiarenie). Bratislava, Univerzita Komenského, 1988. 104 s. (skriptá, http://www.fpharm.uniba.sk/index.php?id=2665). Krempaský, J.: Fyzika. Bratislava, Alfa 1982. 752 s. Halliday D., Resnick R., Walker J: Fyzika. Prometheus. Praha, 2000	
Languages necessary to complete the course: Slovak language	

Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: RNDr. Alexander Búcsi, PhD., doc. RNDr. Jana Gallová, CSc., Ing. Jarmila Oremusová, CSc.						
Last change: 30.03.2022						
Approved by: doc. RNDr. Jana Gallová, CSc.						