**University:** Comenius University in Bratislava  
**Faculty:** Faculty of Pharmacy  
**Course Code:** KFChL/06-Mgr-A/00  
**Course Name:** Physics  

**Type, Extent and Method of Educational Activities:**  
2 hours lectures/2 hours laboratory practical per week, full-time study  

**Number of Credits:** 5 credits  

**Recommended Study Semester/Trimester:** 1. semester (Master degree program)  
**Study Level:** 1.+2. stage (Master degree program)  

**Prerequisite Courses:** ---  

**Conditions for Course Completion:** Laboratory practical: student is obliged to perform all laboratory experiments prescribed by the teacher and hand in all reports (assessment 0-4 points per report). Student will write at least two tests during semester (assessment 0-6 points per test). One of the experiments will be repeated by every student individually at the end of semester (assessment 0-6 points) and a final test will be written (assessment 0-4 points). The total assessment of laboratory practical is the sum of the average value of reports, tests plus final experiment plus final test. Laboratory practical is successfully completed when the student achieves at least 10 points. The examination has a form of written test. The assessment of this test is added to the assessment of the laboratory practical and this sum determines the mark. The total assessment of the subject: A 92-100 %, B 84-91 %, C 76-83 %, D 68-75, E 60-67, Fx 59% and less.  

**Results of Education:** By the completion of the subject student will achieve basic knowledge from these scopes of physics which are necessary for understanding of logical relationships in other subjects especially physical chemistry and pharmaceutical technology. Student will acquire skills needed for successful experimental work in laboratory  

**Course Description:**  
Lectures:  
Physical quantities and units.  
Mechanical work and energy.  
Solid body mechanics.  
Hydrostatics and hydrodynamics.  
Heat, thermodynamics.  
Electrostatics. Electrical current.  
Magnetism.  
Radiation.  

Lectures are supplemented by laboratory practical. Experiments are aimed mainly at measuring of properties of liquids (density, surface tension, viscosity), measurement of air humidity, boiling and thaw point, determination of solution concentration by refractive index and polarimetry.  

**Recommended Literature:**  
Nicholas Giordano: College Physics, Reasoning & Relationship, Volume 1 and 2, Purdue University, BROOK/COLE Gengage Learning., Boston 2013  

**Language Requirements:** English language  

**Notes:** ---  

**Course Evaluation:** total number of evaluated students: 294  
A 15.3%, B 15.0%, C 20.1%, D 18.4%, E 29.6% a Fx 1.4%  

**Teachers:**  
lectures: RNDr. A. Búcsi, PhD., doc. RNDr. Jana Gallová, PhD.  
Laboratory practical: RNDr. A. Búcsi, PhD., Mgr. T. Kondela, Ing. J. Oremusová, CSc., doc. RNDr. D. Uhriňová, PhD.  

**Date of Last Update:** 19. 9. 2016  
**Approved by:** doc. RNDr. Jana Gallová, PhD.