

<b>College:</b> Comenius University in Bratislava	
<b>Faculty:</b> Faculty of Pharmacy	
<b>Course code:</b> KGF/06-Mgr/00	<b>Course title:</b> <b>Pharmaceutical Technology (2)</b>
<b>Type, scope and method of educational activities:</b> 4 hours of lectures / 5 hours of laboratory practical exercises, weekly, obligatory attendance	
<b>Number of credits:</b> 10 credits	
<b>Recommended term/trimester of study:</b> 7 <sup>th</sup> and 8 <sup>th</sup> semester (Mgr.)	
<b>Study degree:</b> 1 <sup>st</sup> + 2 <sup>nd</sup> degree (Mgr.)	
<b>Prerequisite courses:</b> Pharmaceutical Technology (1)	
<b>Conditions for the completion of the course:</b> Assessment through a written examination, for successful completion at least 70 %. Assessment A: 95 – 100%, B: 88 – 94%, C: 82 – 87%, D: 76 – 81%, E: 70 – 75%.	
<b>Learning outcomes:</b> By passing the course, the student will have a complex theoretical knowledge of the drugs as dispersion and application systems and practical experience in compounding of dosage forms.	
<b>Brief course outline:</b> <ul style="list-style-type: none"> <li>• Vaginal drug delivery.</li> <li>• Rectal drug products.</li> <li>• Granules.</li> <li>• Tablets.</li> <li>• Coated tablets.</li> <li>• Dosage microforms.</li> <li>• Quality assurance in pharmaceutical production and quality control.</li> <li>• Nasal dosage forms.</li> <li>• Modified release peroral dosage forms.</li> <li>• Delivery of pharmaceutical proteins.</li> <li>• Transport of drug through biological membranes.</li> <li>• Transdermal therapeutic systems.</li> <li>• Capsules for peroral administration.</li> <li>• Pharmaceutical packs and packaging.</li> <li>• Stability and stabilization of drug products.</li> <li>• Biologics.</li> <li>• Technological aspects of vaccine production.</li> </ul>	
<b>Recommended literature:</b> Aulton, M. E.: Aulton's Pharmaceutics: the design and manufacture of medicines. Edinburgh: Churchill Livingstone, 2018 European Pharmacopoeia 10th edition Lectures in Pharmaceutical technology Tichý E., Starýchová L., Čuchorová M.: Solid dosage forms – Laboratory practices, Bratislava UK, 2015 Tichý E., Špaglová M., Bartoníková K.: Liquid dosage forms – Laboratory practices, Bratislava UK, 2016 Tichý E., Šimunková V., Halenárová A.: Emulsions, suspensions, ointments, creams, pastes, suppositories and pessaries – Laboratory practices, Bratislava UK, 2017	
<b>Language of the course:</b> English	
<b>Assessment of the courses: 2019/2020</b> A = 30,4%, B = 40,8%, C = 18,3%, D = 5,3%, E = 4,1%, Fx = 0%	
<b>Teachers:</b> <i>Lectures:</i> M. K. Lawson, MSc., PhD., PharmDr. A. Lengyelová, PharmDr. V. Mikušová, PhD., PharmDr. M. Molitorisová, PhD., PharmDr., ThLic. M. Raučinová, PhD., PharmDr. V. Šimunková, PhD., doc. RNDr. M. Špolíková, PhD., RNDr. A. Vrána, Mgr. Jarmila Ferková, PharmDr. M. Špaglová, PhD. <i>Practical exercises:</i> M. K. Lawson, MSc., PhD., PharmDr. A. Lengyelová, PharmDr. V. Šimunková, PhD., PharmDr. M. Špaglová, PhD., PharmDr. Veronika Mikušová, PhD.	
<b>Last modified date:</b> 8. 02. 2021	
<b>Approved by:</b> PharmDr. M. Molitorisová, PhD.	

