

1. COURSE DESCRIPTION – GENERAL INFORMATION			
1.1. Course teacher	Associate Professor Renata Jurišić-Grubešić, PhD Assistant Professor Željka Vanić, PhD Professor Sanda Vladimir-Knežević, PhD	1.6. Year of study	4 <sup>th</sup>
1.2. Name of the course	<b>Pharmacy Practice 2</b>	1.7. Credit value (ECTS)	3
1.3. Associate teachers	Teacher practitioners working in the pharmacy (Mentors-pharmacists)	1.8. Type of instruction (number of hours L+E+S+e-learning)	0+60+0
1.4. Study programme (undergraduate, graduate, integrated)	Integrated study of Pharmacy	1.9. Expected enrolment in the course	130
1.5. Status of the course	Compulsory	1.10. Level of use of e-learning (1, 2, 3 level), percentage of instruction in the course on line (20% maximum)	-
2. COURSE DESCRIPTION			
2.1. Course objectives	Introduction with basic determinants, requirements and application of Good Pharmacy Practice (GPP).		
2.2. Enrolment requirements and required entry competences for the course	Prerequisites: practical training in Pharmacy Practice 1 completed Pharmacology and Magistral formulation courses completed, passed examination in Drug Formulation and Pharmacognosy 2.		
2.3. Learning outcomes at the level of the study programme to which the course contributes	<ul style="list-style-type: none"> <li>• Development and implementation of problem solving skills in the production of extemporaneous and galenic preparations.</li> <li>• Quality assurance in the production process of extemporaneous and galenic preparations by applying the principles of Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP).</li> </ul>		
2.4. Expected learning outcomes at the level of the course (4-10 learning outcomes)	<p>On completion of the course the student will be able to:</p> <ol style="list-style-type: none"> <li>1. Manufacture magistral and extemporaneous preparations;</li> <li>2. Manufacture galenic preparation;</li> <li>3. Apply pharmacopoeial and related regulations at the pharmacy;</li> <li>4. Differentiate nonprescription medicines (BR-nonprescription drugs dispensed in community pharmacies only and BRX- nonprescription drugs dispensed both in community pharmacies and in special used stores for retail sale of medicinal products);</li> </ol>		

	5. Differentiate food supplements (herbal preparations, vitamins and minerals, dietary products, etc.).					
2.5. Course content broken down in detail by weekly class schedule (syllabus)	<p>EXERCISES:</p> <ul style="list-style-type: none"> <li>Describe food supplements (herbal preparations, vitamins and minerals, dietary products, etc.)</li> <li>Participate in the production of extemporaneous preparations (dosage control, compounding, labelling, keeping records)</li> <li>Application of pharmacopeial and related regulations at the pharmacy</li> <li>Describe nonprescription medicines (BR-nonprescription drugs dispensed in community pharmacies only and BRX-nonprescription drugs dispensed both in community pharmacies in special used stores for retail sale of medicinal products): purpose, dosage, side effects, use limitations, potential interactions with other medicines and food supplements</li> <li>Compare similar and/or related preparations from different manufacturers: purpose, dosage, side effects, use limitations, potential interactions with other medicines and food supplements, comparison of similar and/or related preparations from different manufacturers</li> </ul>					
2.6. Type of instruction	lectures seminars and workshops exercises online in entirety mixed e-learning <b>field work</b>		independent study multimedia and the internet laboratory work with the mentor (other)		2.7. Comments:	
2.8. Student responsibilities	Practical work in the community pharmacy supervised by mentor-pharmacists and preparation of reports on the completed pharmacy practice.					
2.9. Screening of student's work (specify the proportion of ECTS credits for each activity so that the total number of CTS credits is equal to the credit value of the course)	Class attendance		Research		Practical training	2
	Experimental work		Report	1		
	Essay		Seminar essay		(Other--describe)	
	Tests		Oral exam		(Other—describe)	
	Written exam		Project		(Other—describe)	
2.10. Grading and evaluation of student work over the course of instruction and at a final exam	During the course, students are required to keep a diary on the basis of which they prepare REPORT ON THE CONDUCTED PHARMACY PRACTICE 2 which is approved and signed by mentor pharmacist. On the basis of completed practical part of the course and successful report, the student gets 3 ECTS credits (status passed).					
2.11. Required literature (available at the library and via other media)	<b>Title</b>					
	European pharmacopoeia , 2008, vol. 6 (or older editions)*					
	Croatian pharmacopoeia, 2007, vol. 1;* new edition available online					
	Drug Registry RH 2014, Association of employers in healthcare, Zagreb, 2014.*					
	I. Francetić, Pharmacotherapy Handbook, 6th Ed., Medical Edition, Zagreb 2010*					
* required literature is available in teaching community pharmacies - training units						
2.12. Optional literature	Optional literature is available in teaching pharmacies-training units.					
2.13. Methods of monitoring quality	Learning outcomes 1-5 should be assessed during field work under mentor supervision and described in written report,					

that ensure acquisition of exit  
competences

and evaluated during the final exam.