

## Course description

### Part 1

Informacje ogólne o przedmiocie / General information about the course		
1. Major of study: Pharmacy		2. Study level: long cycle master's studies
		3. Form of study: stationary
4. Year: V		5. Semester: IX-X
6. Course name: Practical Pharmacy		
7. Course status: obligatory		
8. Course contents: Practical preparation of the student to use the acquired knowledge and skills in the work of a pharmacist in generally accessible pharmacies. <b>Learning outcomes / reference to learning outcomes included in the standards</b> in terms of knowledge, the student knows and understands: E.W1, E.W2, E.W3, E.W4, E.W6, E.W7, E.W8, E.W9, E.W10, E.W11, E.W15, E.W17, E.W18; in terms of skills, the student is able to: E.U1, E.U2, E.U4, E.U8, E.U12, E.U14, E.U15, E.U25, E.U28; in terms of social competences, the student is ready to: establishing a relationship with the patient and colleagues based on mutual trust and respect; compliance with the confidentiality of health, patient's rights and the principles of professional ethics; presenting an ethical and moral attitude consistent with ethical principles and taking actions based on the code of ethics in professional practice; use of objective sources of information; formulating conclusions from own measurements or observations; accepting responsibility related to decisions made in the course of professional activity, in terms of your own safety and that of others.		
9. Number of hours for the course:		90
10. Number of ECTS points for the course:		6
11. Ways of verification and assessment of learning effects		
Learn effects	Ways of verification	Ways of assessment
In range of knowledge	Final grade - selection test and open questions	*
In range of skills	Observation	*
In range of competences	Observation	*
<p>* it is assumed that the rating means on the level:</p> <p><b>Very good (5,0)</b> - the assumed learning effects have been achieved and significantly exceed the required level</p> <p><b>Good plus (4,5)</b> - the assumed learning effects have been achieved and slightly exceed the required level</p> <p><b>Good (4,0)</b> – the assumed learning effects have been achieved on the required level</p> <p><b>Satisfactory plus (3,5)</b> – the assumed learning effects have been achieved on the average required level</p> <p><b>Satisfactory (3,0)</b> - the assumed learning effects have been achieved at the minimum required level</p> <p><b>Unsatisfactory (2,0)</b> – the assumed learning effects not have been achieved</p>		

## Course description

## Part 2

Inne przydatne informacje o przedmiocie		
<b>12. Name of Department, mailing address, e-mail:</b> Department of Community Pharmacy Faculty of Pharmaceutical Sciences in Sosnowiec Medical University of Silesia in Katowice  farmacja_apteczna@sum.edu.pl		
<b>13. Name and surname of the person responsible for the completion of the course:</b>  professor Paweł Olczyk; e-mail: polczyk@sum.edu.pl		
<b>14. Prerequisites for knowledge, skills and other competences:</b> Courses: Drug Form Technology I (DFT I), Drug Form Technology II (DFT II), Pharmacology, Pharmaceutical Care, Completion of professional practice in a generally accessible pharmacy and a hospital pharmacy		
<b>15. Number of students in the group</b>	In accordance with the resolution of the Senate of SUM	
<b>16. Materials for the classes</b>	Laws and regulations, a pharmacy computer program, sample medical prescriptions, leaflets of medicinal products	
<b>17. Place of the classes</b>	Seminar room Department of Community Pharmacy, Faculty of Pharmaceutical Sciences in Sosnowiec , Kasztanowa 3, 41-209 Sosnowiec,	
<b>18. Place and time of consultation</b>	Department of Community Pharmacy, Faculty of Pharmaceutical Sciences in Sosnowiec, Kasztanowa 3, 41-209 Sosnowiec, the hour of consultation is determined on the first exercises	
19. Learn effects		
Learning outcome number	Subject learning outcomes	Reference to learning outcomes included in standards
P_W01	Student knows the rules of dispensing drugs from a pharmacy based on a medical order and without a prescription, as well as the drug distribution system in Poland, knows the rules of recording medical prescriptions and storing drugs. Student knows the genesis and provisions of the Code of Ethics of the Pharmacist of the Republic of Poland. Student knows the rules of the professional self-government of pharmacists.	E.W3 E.W4 E.W6 E.W7
P_W02	Student knows the law regulations regarding the dispensing of medicinal products, medical devices, cosmetics and dietary	E.W11 E.W18

	supplements from pharmacies, knows the legal acts concerning the pharmaceutical market of a generally accessible pharmacy, knows the basic sources of information about the drug (books, magazines, databases).	
P_W03	Student knows and understands the rules of functioning a generally accessible pharmacy and rules of supplying pharmacy, knows and understands the principles of safety and hygiene at work.	E.W1 E.W2
P_W04	Student knows the rules of drug application depending on drug form, as well as the type of packaging and dosing system, knows and understands the principles of determining the patient's drug needs.	E.W8 E.W17
P_W05	Student knows and understands the importance and role of a pharmacist in supervising the pharmacotherapy of chronically diseases patients, knows the issues of modern pharmacotherapy of selected civilization diseases and diseases requiring chronic treatment based on the principles of medical procedure referred to as evidence-based medicine, therapeutic standards and guidelines of Polish and European medical societies, student knows and understands causes of occurrence and methods of preventing and reducing the incidence of drug-related complications caused by: off-label use of drugs, disregarding contraindications and limitations to their use, irrational pharmacotherapy, advertising of drugs in mass media and widespread availability of drugs, especially those available over the counter (OTC).	E.W7 E.W9 E.W10 E.W11 E.W15
P_U01	Student fills a medical prescription with the use of a pharmacy computer program and provides relevant information on the drug dispensed, taking into consideration the method of taking, depending on its pharmaceutical form, conducts a pharmaceutical consultation when dispensing an over-the-counter (OTC). Student lists the forms of performing the profession of pharmacist and presents the regulations for obtaining the right to practice the profession of pharmacist, indicates medical products and medicinal devices requiring special storage conditions.	E.U1 E.U2 E.U8 E.U15
P_U02	Student prepares a patient education plan to solve detected drug problems, indicates the correct way to deal with the drug during its use, describes the stages of drug using procedure in an open and hospital pharmacy, describes the stages of procedure with a drug in an open and hospital pharmacy from the moment of the decision on the order to its release to the patient, demonstrates method of use medical devices and diagnostic tests as well as conducts a conversation with the patient in order to advise a medicinal product or another product in a pharmacy, determines and differentiates the scope of health information necessary in the	E.U4 E.U12 E.U14 E.U25 E.U28

	process of pharmaceutical care for patients with various chronic diseases.	
<b>20. Forms and topics of classes</b>		<b>Liczba godzin</b>
<b>20.3. Practice</b>		<b>90</b>
1.	Practical implementation of the rules of interpersonal communication and the Pharmacist's Code of Professional Ethics	5
2.	Overview of the current legal regulations regarding the implementation of medical prescriptions - examples of 5 medical prescriptions - self-filling in medical prescriptions	5
3.	Overview of the current legal regulations regarding the implementation of medical prescriptions - examples of 5 medical prescriptions - self-filling in medical prescriptions	5
4.	Overview of the current legal regulations regarding the implementation of medical prescriptions of narcotic and psychotropic drugs - examples of medical prescriptions - self-filling in medical prescriptions	5
5.	Overview of the current legal regulations regarding the implementation of medical prescriptions of drug made - examples of medical prescriptions - self-filling in medical prescriptions	5
6.	Pharmaceutical consulting in gastroenterology- examples of medical prescriptions - self-filling in medical prescriptions	10
7.	6. Pharmaceutical consulting in nicotineism, alcoholism and addiction - examples of medical prescriptions - self-filling in medical prescriptions	5
8.	Pharmaceutical consulting among geriatric patients- examples of medical prescriptions - self-filling in medical prescriptions	5
9.	Pharmaceutical consulting among depression and neurosis patients - examples of medical prescriptions - self-filling in medical prescriptions	5
10.	Practical exercises in the prescription room of the Training Pharmacy in the field of prescription difficulties concerning ointment preparation procedures, analysis of prescription drug regulations - independent pricing of master prescriptions.	8
11.	Practical exercises in the prescription room of the Training Pharmacy in the field of prescription difficulties concerning suppositories	7
12.	Practical classes in the field of pharmaceutical consulting - students' own work in selected diseases, preparation of a multimedia presentation - case studies. Practical classes in the field of pharmaceutical consulting at the expedition room of the Training Pharmacy.	5
13.	Pharmaceutical consulting for patients with varicose veins and hemorrhoids	5
14.	Pharmaceutical consulting for patients using vitamins and minerals	5
15.	Pharmaceutical consulting for oncological patients	5
16.	Filling in medical prescriptions of medicinal products and medical materials in the pharmacy program - practical completion of the course	
<b>21. Readings</b>		
<b>1. Basic readings</b>		
Laws and regulations on drug marketing in pharmacies		
Practical pharmacy , R. Jachowicz et al., second edition, PZWL Warszawa2016		
<b>2.Supplementary readings</b>		
Pharmacology compendium W. Janiec, PZWL, Warszawa 2016		

**22. Detail evaluation criteria**

In accordance with the recommendations of the inspection bodies

Completion of the course – student has achieved the assumed learning outcomes

Detail criteria for completion and evaluation of the course are specified in the course regulations