Subject name	ECTS Code
Clinical Pharmacology	
N 6 144 11 41 11 4	

# Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE

# Studies

Field of study	degree	mode	major	specialization
medical	Uniform Master's	Stationary/non-stationary		

# **Surname of instructor (instructors)**

Amount of ECTS points	
Description of awarding ECTS points:	
Activity	Student
Activity	workload
Participation in lectures	- hours
Participation in practical classes	15 hours
Preparation for practical classes	
and colloquiums	5 hours
Examination preparation	10 hours
Consultations	5 hours
Total number of hours	35 hours / 30
Amount of ECTS points per module	1ETCS
	Activity  Participation in lectures  Participation in practical classes  Preparation for practical classes and colloquiums  Examination preparation  Consultations  Total number of hours  Amount of ECTS points per

# Didactic cycle 7<sup>th</sup> semester

Subject status	Language of instruction
• mandatory / facultative	Polish Overview of medical databases in English
Didactic methods Lectures	Forms and methods of passing and general grading criteria or examination requirements
Tests, Reports, Demonstrations, presentations	A. Method of passing  • examination
	B. Forms of passing:
	C. Basic grading criteria Requirements are individually specified and correspond to the educational effects

# **Definition of preparatory subjects and initial requirements**

Familiarity with anatomy, biochemistry, physiology, microbiology, pharmacology and toxicology, and propedeutics of internal medicine

# Subject aim

- 1. The aim of the learning process is to acquire knowledge about drugs and their use for pathological conditions with particular emphasis on organ failure and during pregnancy
- 2. Becoming familiar with principles of conducting clinical examinations and principles of GCP
- 3. The aim of the subject "Clinical Pharmacology" is also to prepare the students to acquire practical abilities of performing simple pharmaco-economic calculations
- 4. During the course students also become familiar with the principles of using pharmacological manuals and databases on technical products
- 5. The students also become familiar with the recommendations and principles of individualization of monitored therapy, therapy of the elderly and principles of palliative care and treating pain in terminal conditions.

#### Curriculum

#### Exercise classes

Exercise class topics

- 1. Monitored therapy, individualization of therapy
- 2. Geriatric therapy principles, limitations, geriatric assessment
- 3. Principles of conducting clinical examinations. Principles of GCP
- 4. Basic pharmacological terminology and calculations
- 5. Treating chronic pain, and treatment of postoperative and cancer pain. Terminal patient futile therapy
- 6. Principles of rational antibiotic therapy as well as antibiotic prophylaxis
- 7. Practical multimedia classes Advertising in medicine
- 8. Supplements and OTC drugs legal and ethical conditions of their use
- 9. Overview of Pub med medical databases preparing a short scientific topic
- 10. Presentations of topics prepared by the students

# Literature

#### A. Basic literature:

- 1. Korbut R. (ed.) Farmakologia, Warszawa, 2017 PZWL (2<sup>nd</sup> edition)
- 2. InternaSzczeklika 2019, MedycynaPraktyczna
- 3. Orzechowska Juzwenko, K., Farmakologia Kliniczna Znaczenie w praktyce medycznej. WM Górnicki 2006
- 4. Maciejczyk A., Kruk M.: Bezpieczeństwo farmakoterapii, Medipage, Warszawa 2017

# **B.** Supplementaryliterature

1. Brodniewicz T.: Badania Kliniczne, CeDeWu, Warszawa 2015

# **Educational effects:**

Effect no	Description of an educational effect Number of educational effects	Form of grade Form of didactic classes
Knowledge	;:	
W1 W2	E.W10 Knows the basic principles of pharmacotherapy of the elderly	Written test examination Presentation, oral response,
W3 W4 W5	E.W28 Knows the principles of palliative treatment of a terminally ill patient E.W29 Knows the principles of treating pain, including cancer and chronic pain E.W42	Practical solving of pharmaco- economic problems Discussion and solving of clinical problems in groups NE (Non-clinical exercises)

	Knows the recommendations to implement monitored therapy	SE – self-education	
	E.W43 Knows basic pharmaco-economic terminology		
Abilities:	•		
U1	E.U17	Written test examination	
U2	Can conduct an analysis of possible harmful side effects of individual drugs and the interactions between them	Presentation, oral response, Practical solving of pharmaco-	
	E.U18 Suggests an individual approach to the therapeutic guidelines in force as well as other treatment methods in face of an unsuccessful or contradictive standard therapy	economic problems Discussion and solving of clinical problems in groups NE (Non-clinical exercises)	
	E.U19 Diagnoses the symptoms of drug dependence and suggest treatment	SE – self-education	
	E.U31 Interpret the pharmaceutical characteristics of medicinal products and critically assess advertising materials which deal with drugs		
Social com	npetencies:		
K1	Uses objective information sources	NE – (Non-clinical exercises)	
K2	Puts the good of the patient above everything else		

<b>Educational effect</b>	For a grade of 3	For a grade of 4	For a grade of 5
W1	The final test consists of 50 multiple choice questions		
W2	In order to receive a credit for the examination a student must complete at least 61% of it correctly		
W3	Insufficient (2.0) – below 61%		
U1	Sufficient (3.0) – 61-69%		
U2	Satisfactory (3.5) – 70-76%		
<b>K</b> 1	Good (4.0) – 77-84%		
K2	Very Good (4.5) – 85-92%		
	Excellent (5.0) – 93-100%		
	In order to take the examination the student must be present during all exercise classes and receive a positive grade from a scientific presentation completed with the use of medical databases		