

DESCRIPTION OF THE COURSE OF STUDY

Course code	12.6-3LEK-F-Fa	
Name of the course in	Polish	Farmakoeconomika
	English	Pharmacoeconomics

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	medicine
1.2. Mode of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study*	practical
1.5. Specialization*	lack
1.6. Unit running the course of study	Faculty of Medicine and Health Sciences UJK
1.7. Person/s preparing the course description	Dr hab. n. med. Ewa Orlewska, prof UJK
1.8. Person responsible for the course of study	Dr hab. n. med. Ewa Orlewska, prof UJK
1.9. Contact	ewa.orlewska@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	facultative
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	6-9 semesters of study
2.4. Prerequisites*	Pharmacology and clinical toxicology, statistics

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lectures: 15 hours, Classes – 20 hours
3.2. Place of classes	Lectures – in didactic rooms of the UJK, Classes – in didactic rooms of the UJK, each student has an individual access to a computer
3.3. Form of assessment	Students who have $\geq 50\%$ absenteeism during mandatory classes (classes, lectures) will not obtain credit. The obtaining of credit for classes will consist in an independent performance by the student of a given task (assigned work in Excel spreadsheet or Revman software). Credit for discipline: oral credit; to the credit will be admitted students who have obtained credit for classes.
3.4. Teaching methods	Conversation lecture, discussion
3.5. Bibliography	Required reading
	Further reading
	1. Methods for the Economic Evaluation of Health Care Programmes (Oxford Medical Publications, 2015) by Michael F. Drummond et al. 4th ed 2. Decision modelling for health economic evaluation (Oxford medical publications 2006) by Andrew Briggs et al. Cost-effectiveness in health and medicine by (Oxford University Press 1996) Marthe R. Gold et al. 1st ed

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives (including form of classes)
The aim of the discipline 'Pharmacoeconomics' is familiarizing students of the medical specialty with terminology of pharmacoeconomics, teaching the methods for evaluation the quality of life and usability of health states, conducting pharmacoeconomic analyses and interpretation of their results. Students should acquire the skill of solving decision-making problems based on the principles of evidence-based medicine and decision analysis.
4.2. Detailed syllabus (including form of classes)
Lectures:
1. Farmacoeconomika as a tool in making medical decisions (1 hour).
2. Causes of dynamic development of economic assessment of health programmes, factors responsible for an increase in costs of medical care (1 hour)
3. Basic definitions and methods of cost measurement in health care (2 hours)
4. Concept of health effect in pharmacological analysis: definitions, methods of measurement, sources of data (2 hours)
5. Main types of pharmacoeconomic analyses (1 hour).
6. Types of pharmacoeconomic investigations, definitions, general characteristics (2 hours.)

7. Study of the effectiveness of costs and usability of costs based on selected examples (1 hour.)
8. Study of the costs of disease based on selected examples. (1 hour.)
9. Interpretation of results of pharmacoeconomic analysis (intercremental analysis break-even point of treatment) (1 hour)
10. Analysis of effect on budget – characteristics, methodology. (2 hours)
11. Guidelines for performance of economic analyses, importance of pharmacoeconomy in the cost-reimbursement systems in selected countries (1 hour.)

Classes (4 hours each)

1. Metaanalysis of data
2. Modelling – decision tree
3. Modelling – Markov model
4. Investigation of the usability of health states
5. Modelling – analysis of the effect on budget.

4.3 Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of KNOWLEDGE:		
W01	knows the foundations of evidence-based medicine	D.W20.
W02	knows and understands the basic principles of pharmacotherapy of diseases of the elderly;	E.W10.
W03	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases;	E.W35.
W04	lists indications for the implementation of monitoring therapy;	E.W40.
W05	defines basic pharmacoeconomic concepts.	E.W41.
within the scope of ABILITIES:		
U01	selects the treatment which minimizes the social consequences for the patient;	D.U3.
U02	critically examines medical literature, including medical literature in English, and draws conclusions based on the available literature;	D.U17.
U03	plans diagnostic, therapeutic and preventive procedures;	E.U16.
U04	proposes individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy;	E.U18.

4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others*		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes					
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...
W01																					
W02																					
W03																					
W04																					
W05																					
U01																					
U02																					
U03																					
U04																					

*delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	61%-68%
	3,5	69%-76%
	4	77%-84%
	4,5	85%-92%
	5	93%-100%
classes (C)*	3	61%-68%
	3,5	69%-76%
	4	77%-84%
	4,5	85%-92%
	5	93%-100%

- **Thresholds are valid from 2018/ 2019 academic year**

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	35
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	20
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	15
<i>Preparation for the lecture*</i>	
<i>Preparation for the classes, seminars, laboratories*</i>	10
<i>Preparation for the exam/test*</i>	5
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
TOTAL NUMBER OF HOURS	50
ECTS credits for the course of study	2

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

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