

## DESCRIPTION OF THE COURSE OF STUDY

<b>Course code</b>	<b>12.6-3LEK-F-OTM</b>	
<b>Name of the course in</b>	Polish	<b>Ocena technologii medycznych</b>
	English	<b>Medical technology assessment</b>

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

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

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

<b>2.1. Affiliation with the module</b>	optional – faculty
<b>2.2. Language of instruction</b>	English
<b>2.3. Semesters in which the course of study is offered</b>	Choice between 2nd-9th semester
<b>2.4. Prerequisites*</b>	Pharmacology and toxicology, clinical pharmacology, statistics, medical ethics

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

<b>3.1. Form of classes</b>	<b>Lectures: 15, classes: 20</b>	
<b>3.2. Place of classes</b>	Lectures – Courses in the teaching rooms of JKU classes – Courses in the teaching rooms of JKU, each student has an individual access to a computer	
<b>3.3. Form of assessment</b>	Students, who are absent $\geq 50\%$ during compulsory classes (exercises, lectures) do not receive credit. Passing classes will be based on independent performance by the student given tasks (assignments in an Excel spreadsheet or a program Revman). Completion of the course: oral exam; to obtain credit the students must pass classes	
<b>3.4. Teaching methods</b>	Conversational lecture, discussion	
<b>3.5. Bibliography</b>	<b>Required reading</b>	The Medical Technology Assessment Evidence-Based Decision-Making Handbook: Practical Guidance, Advice, Strategies, Tips and Efficiencies, ISBN: 9781511901703.
	<b>Further reading</b>	

### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

<p><b>4.1. Course objectives</b> (including form of classes)</p> <p>The aim of the course „Medical technology assessment” is to acquaint students of Medicine with the basics of the rational making medical decisions based on the clinical and economic results, teaching methods of assessment of health programs as well as critical evaluation of the reports   of medical technology. Students should acquire skills to solve decision making problems based on the principles of evidence-based medicine and decision analysis.</p>
<p><b>4.2. Detailed syllabus</b> (including form of classes)</p> <p>Lectures:</p> <ol style="list-style-type: none"> <li>1. Health Technology Assessment as an interdisciplinary science (1 hour).</li> <li>2. The reasons for the emergence and development of health technology assessment, goals of HTA agencies (1 hour).</li> <li>3. Guidelines for conducting health technology assessment (analysis of the problem of decision-making, clinical and economic analysis, impact analysis, rationalization) 5 hours.</li> <li>4. Methods of measuring the quality of life (2 hours).</li> <li>5. Methods of measuring the usability of health states. (2 hours).</li> <li>6. The budget impact analysis - characteristics, methodology (2 hours).</li> <li>7. Principles of medical decision making, the role of the physician in choosing treatment (2 hours).</li> </ol>

Classes (each 3 hours):

1. Medical databases – use in practice.
2. A meta-analysis of clinical trials.
3. The use of modeling techniques for medical purposes (profitability analysis).
4. The use of modeling techniques for medical purposes (analysis of the impact on the budget).
5. Multivariate analysis of decision-making.

#### 4.3 Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of <b>KNOWLEDGE:</b>		
W01	knows the basic trends of therapy development, in particular the possibility of applying cell therapy, gene therapy as well as targeted therapy in specific diseases;	C.W41.
W02	knows the foundations of evidence-based medicine;	D.W20.
W03	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases;	E.W35.
W04	defines basic pharmacoeconomic concepts.	E.W41.
within the scope of <b>ABILITIES:</b>		
U01	uses the knowledge of the laws of physics to explain the impact of external factors such as temperature, acceleration, pressure, electromagnetic fields and ionizing radiation on the body and its elements;	B.U1.
U02	selects the treatment which minimizes the social consequences for the patient;	D.U3.
U03	critically examines medical literature, including medical literature in English, and draws conclusions based on the available literature;	D.U17.
U04	plans diagnostic, therapeutic and preventive procedures;	E.U16.
U05	proposes individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy;	E.U18.
within the scope of <b>SOCIAL COMPETENCE:</b>		
...K01		
...		

#### 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			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...
W01																					
W02																					
W03																					
W04																					
U01																					
U02																					
U03																					
U04																					
U05																					
...K01																					
...																					

\*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% correct answers
	3,5	69% - 76% correct answers
	4	77% - 84% correct answers
	4,5	85 % -92% correct answers
	5	93-100
classes (C)*	3	61% -68% correct answers
	3,5	69% - 76% correct answers
	4	77% - 84% correct answers
	4,5	85 % -92% correct answers
	5	93-100
others (...)*	3	
	3,5	
	4	
	4,5	
	5	

#### 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>	<b>35</b>
<i>Participation in lectures*</i>	<b>15</b>
<i>Participation in classes, seminars, laboratories*</i>	<b>20</b>
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	<b>15</b>
<i>Preparation for the lecture*</i>	
<i>Preparation for the classes, seminars, laboratories*</i>	<b>10</b>
<i>Preparation for the exam/test*</i>	<b>5</b>
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
<b>TOTAL NUMBER OF HOURS</b>	<b>50</b>
ECTS credits for the course of study	<b>2</b>

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

.....