

DESCRIPTION OF THE COURSE OF STUDY

Course code	0912.7.LEK.D.SMI	
Name of the course in	Polish	Naukowa informacja medyczna
	English	Scientific medical information

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 studies
1.4. Profile of study*	General academic
1.5. Person preparing the course description	Dr Jarosław Rachuna
1.6. Contact	jaroslaw.rachuna@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites*	Not applicable

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lectures:15h (including 10 hours of e-learning)	
3.2. Place of classes	Traditional classes in the didactic room of JKU/ e-learning platform	
3.3. Form of assessment	Credit with grade	
3.4. Teaching methods	Lectures: informative lecture, interactive lecture, problem-based lecture	
3.5. Bibliography	Required reading	1. Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 (GDPR) on the protection of natural persons with regard to the processing of personal data. 2. Act of 4 February 1994 on Copyright and Related Rights (Journal of Laws of 1994, No. 24, item 83, as amended). 3. Greenhalgh T. How to Read a Paper: The Basics of Evidence-Based Medicine and Healthcare. Wiley-Blackwell, 2019
	Further reading	1. Sackett DL et al. Evidence-Based Medicine: How to Practice and Teach EBM. Elsevier, 2019 2. WHO. Guidelines on Ethical Issues in Public Health Surveillance. WHO, 2017

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES**4.1. Course objectives (including form of classes)****Lectures**

- C1. Introduction to the fundamental concepts and tools of medical information.
 C2. Development of knowledge regarding the assessment of the quality of medical information and the principles of evidence-based medicine (EBM).
 C3. Presentation of ethical and legal challenges related to the access, storage, and sharing of patient data.
(including e-learning)
 C4. Presentation of sources of medical knowledge (databases, clinical guidelines, scientific literature) and methods of their retrieval.
 C5. Familiarization with information technology tools and clinical decision support systems.
 C6. Development of a critical approach to medical information and informed clinical decision-making.

4.2. Detailed syllabus (including form of classes)**Lectures**

1. Fundamentals of Medical Information and Evidence-Based Medicine (EBM) – sources of medical knowledge, hierarchy of evidence, introduction to information retrieval in databases (W01)

2. Information Systems in Healthcare and Ethical-Legal Aspects – electronic medical records, clinical decision support systems, patient data protection, GDPR, and ethics of information access (W02) (including e-learning)
1. Fundamentals of Medical Information and EBM – concepts, hierarchy of scientific evidence, the significance of information in clinical practice (W01, U01)
2. Information Retrieval in Scientific Sources – PubMed, Cochrane, ClinicalTrials.gov, search filters, query strategies (U01, K03)
3. Assessment of Source Reliability and Literature Analysis – systematic reviews, meta-analyses, critical reading of publications (U01)
4. Legal and Ethical Aspects of Medical Information – GDPR, patient data protection, professional confidentiality, responsibilities of physicians and the healthcare team (K)

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of KNOWLEDGE :		
W01	Knows The basic computer and biostatistical tools used in medicine;	B.W23.
W02	Knows The possibilities of modern telemedicine as a tool to support the work of a physician;	B.W25.
within the scope of ABILITIES :		
U01	Look for reliable information about medicinal products, with particular emphasis on the Summary of Product Characteristics (SmPC) and databases;	C.U12.
within the scope of SOCIAL COMPETENCE :		
K01	Demonstrates the ability to noticing and recognizing own limitations and making self-assessment of deficits and educational needs;	K.S5.
K02	Shows competence in the use of objective sources of information;	K.S7.
K03	Able to formulating opinions on various aspects of professional activity;	K.S10.
K04	Capable of accepting responsibility for decisions made in the course of professional activity, including in terms of one's own safety and that of others.	K.S11.

4.4. Methods of assessment of the intended learning outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self- study*			Group work*			Others* Observati on		
	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													+								
U01													+								
K01-K04													+								

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L) (including e-learning)	3	61%- 68% meeting the instructor's course requirements
	3,5	69%-76% meeting the instructor's course requirements
	4	77%-84% meeting the instructor's course requirements
	4,5	85%-92% meeting the instructor's course requirements
	5	93%-100% meeting the instructor's course requirements

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>	15
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	10
<i>Preparation for the lecture*</i>	10
<i>Preparation for the classes, seminars, laboratories*</i>	
<i>Preparation for the exam/test*</i>	
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
<i>TOTAL NUMBER OF HOURS</i>	25
ECTS credits for the course of study	1

**delete as appropriate*

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

.....