DESCRIPTION OF THE COURSE OF STUDY

Course code	0912.4.LEK.D.El								
Name of the course in	Polish	Elektrofizjologia							
	English	Electrophysiology							

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. hab. n. med. Prof. UJK Anna Polewczyk
1.6. Contact	anna.polewczyk@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites*	

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classe	S	Classes: 25h (including 5h of e-learning)					
3.2. Place of classes	S	Courses in the teaching rooms of the UJK/ e-learning platform					
3.3. Form of assess	ment	Credit with grade					
3.4. Teaching meth	ods	Classes:					
3.5. Bibliography	Required reading	Dr. David Callans. Josephson's Clinical Cardiac					
		Electrophysiology					
		Techniques and Interpretations. Wolters Kluwer Health, 2024					
	Further reading	Kołodzińska A, Główczyńska R, Grabowski M.					
		Elektrokardiologia. PZWL 2022					

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)

Classes

- C1. Obtaining information about heart rhythm disorders
- C2. Obtaining information on the indications for electrophysiological testing (EPS) and cardiac ablation as well as complications of EPS and ablation
- C3. Obtaining information on the principles of cardiac pacing and complications associated with cardiac implantation electronic devices

(including e-learning)

4.2. Detailed syllabus (including form of classes)

Classes

- 1. Diagnosis of cardiac arrhythmias. 5 h
- 2. Indications for electrophysiological testing and cardiac ablation. Complications of electrophysiological testing and ablation. Prevention and treatment. 5 h e-learning
- 3. Indications for implantable cardiac pacemakers principles of cardiac pacing. Complications associated with implanted permanent cardiac pacing devices. 5 h (including e-learning)

4.3. Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
W01	Knows basic principles of stimulation and conduction in the nervous system and higher nervous functions, as well as physiology of striated and smooth muscles;	B.W19.
W02	Knows the functions and mechanisms of regulation of all organs and systems of the human body as well as the dependence between them;	B.W20.
	within the scope of ABILITIES :	
U01	Is able to perform simple function tests evaluating the functioning of the human body as a stable regulation system (stress and exercise tests) and interpret the figures on the basic physiological variables;	B.U7.
	within the scope of SOCIAL COMPETENCE :	
K01	Is able to recognize his/her own limitations and self-evaluate educational deficiencies and needs;	K.S5.
K02	Is able to use reliable information sources;	K.S7.
K03	Is able to give opinions concerning various aspects of professional activity;	K.S10.
K04	Is able to take responsibility for own decisions made during professional activities including own safety and safety of other people;	K.S11.

4.4. Methods of assessment of the intended learning outcomes																					
	Method of assessment (+/-)																				
Teaching outcomes	Exam oral/written * Form of classes		Test* Form of classes		Project* Form of classes		Effort in class* Form of classes		Self- study* Form of classes		Group work*			Others* Observation							
(code)											Form of classes		Form of classes								
	L	C	:	L	С		L	С		L	C		L	C		L	C		L	C	
W01										+	+		+	+		+	+				
W02										+	+		+	+		+	+				
U01										+	+		+	+							
K01-K04										+	+		+	+							

^{*}delete as appropriate

4.5. Crit	4.5. Criteria of assessment of the intended learning outcomes								
Form of classes	Grad e	Criterion of assessment							
lasses (C) (including e-learning)	3	From 61%-68% learning programme content on the basic level, replies chaotic, leading questions necessary.							
ng e-l	3,5	From 69%-76% learning programme content on the basic level, answers systematized, requires assistance from the teacher.							
ıcludi	4	From 77%-84% learning programme content on the basic level, answers systematized, independent. Solving of problems in typical situations.							
(in	4,5	From 85%-92% the scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations.							
Classes (5	From 93% -100% the scope of presented knowledge exceeds the basic level based on independently acquired scientific sources of information.							

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

Category	Student's workload Full-time studies			
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE	25			
TEACHER /CONTACT HOURS/				
Participation in lectures*				
Participation in classes, seminars, laboratories*	25			
Preparation in the exam/final test*				
Others*				
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	25			
Preparation for the lecture*				
Preparation for the classes, seminars, laboratories*	25			
Preparation for the exam/test*				
Gathering materials for the project/Internet query*				
Preparation of multimedia presentation				
Others*				
TOTAL NUMBER OF HOURS	50			
ECTS credits for the course of study	2			

^{*}delete as appropriate

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