

DESCRIPTION OF THE COURSE OF STUDY

Course code	12.6-3LEK-F-Ki	
Name of the course in	Polish	Kardiologia interwencyjna
	English	Interventional cardiology

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
1.7. Person/s preparing the course description	Prof. dr hab. n. med. Marianna Janion
1.8. Person responsible for the course of study	Prof. dr hab. n. med. Marianna Janion
1.9. Contact	wnoz_ipp@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*	Knowledge within the scope of modules: morphological sciences and scientific essentials of medicine

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lectures, Classes	
3.2. Place of classes	Lectures – didactic rooms of the UJK Classes – Cardiology Clinic	
3.3. Form of assessment	Lectures – credit with grade Classes – credit with grade	
3.4. Teaching methods	conversation lecture, discussion, case study in natural conditions	
3.5. Bibliography	Required reading	1. Braunwald's Heart Disease Review and Assessment, ISBN: 9780323341349; 2. Cardiac Catheterization Handbook, ISBN: 9780323340397; 3. Textbook of Interventional Cardiology, ISBN: 9780323340380.
	Further reading	1. Park's Pediatric Cardiology for Practitioners, ISBN: 9780323169516; 2. Oxford Handbook of Cardiology, ISBN: 9780199643219.

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives (including form of classes) Acquisition of knowledge within the scope of interventional cardiology
4.2. Detailed syllabus (including form of classes) Lectures -15 hours 1. Studies in interventional cardiology: coronarography, intravascular ultrasound, measurement of fractional flow reserve, computed tomography (3 hours) 2. Coronary angioplasty in stable coronary disease and acute coronary syndromes (3 hours) 3. Interventional treatment of heart defects and defects of large vessels of the chest in adults (3 hours) 4. Interventional procedures within the region of the heart and large vessels: carotid artery angioplasty, aortic arch angioplasty, obliteration of the left atrial appendage, atrial septostomy, ablation, placement of venous filters. Intra-aortic balloon pump (3 hours) 5. Interventional procedures complications – prevention and management. New technologies in interventional cardiology (3 hours) Classes - 20 hours

1. Organization of work in the laboratory for interventional cardiology. Equipment and appliances used in interventional cardiology. Protection against radiation. Indications and contraindications for interventional cardiology procedures. (3 hours)
2. Preparation of a patient for coronography and coronary angioplasty. Evaluation of coronographic examination. Technique of performing the procedure. Management in acute coronary syndromes. Assessment of the grade of coronary blood flow TIMI. Angiographic assessment of perfusion of coronary microcirculation MBG (3 hours)
3. Indications for interventional cardiology procedures. Techniques of performing the procedures. Evaluation of outcomes. Possible complications. Performance of procedures in the states of emergency (6 hours).
4. Hybrid procedures. Artificial left ventricle. Miniaturisation of devices. Struggle with immunological barrier (3 hours)

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 eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;	F.W3.
W02	knows perioperative safety rules, preparing a patient for surgery, general and local anesthesia and controlled sedation;	F.W4.
W03	knows postoperative treatment and analgesic therapy as well as post-operative monitoring;	F.W5.
within the scope of ABILITIES:		
U01	assists during a typical surgery, prepares the surgical site and locally anesthetizes operated area;	F.U1.10

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																					
U01																					

*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%
others (...)*	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
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	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>	
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	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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