Attachment No. 1 to Rector's ordinance No. /2016

DESCRIPTION OF THE COURSE OF STUDY

Course code	**12.6-3LEK-F-GwO**	
Name of the course in	Polish	**Genetyka w onkologii**
	English	**Genetics in oncology**

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, Kielce Region Oncology Centre
1.7. Person/s preparing the course description	dr hab. Pałyga Jan,. prof. UJK
1.8. Person responsible for the course of study	dr hab. Pałyga Jan, prof. UJK
1.9. Contact	stanisławgo@onkol.kielce.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*	Genetics

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes		Lecture: 15 hours, Classes 20 hours
3.2. Place of classes		Lecture – Classes in didactic rooms of the UJK, Kielce Region Cancer Centre
3.3. Form of assessment		Lecture – with grade
3.4. Teaching methods		conversation lecture
3.5. Bibliography	**Required reading**	Principles of Cancer Genetics, 2016, ISBN: 9789401774826
	Further reading	Cancer Genetics, ISBN: 9781441960320

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives ***(including form of classes)***

C1 – Obtaining knowledge of the mechanism of inheritance of cancerous diseases
C2 – Obtaining knowledge of the principles of genetic counselling
C3 – Shaping proper attitudes of physicians towards patients using genetic counselling

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

Lectures

1) Clinical genetics of breast and ovarian cancer (BRCA1 test) (2 hours)
2) Hereditary colorectal cancer predisposition syndromes (2 hours)
3) Clinical genetics of medullary thyroid carcinoma (MEN 2) (2 hours)
4) Retinoblastoma – model cancer on the genetic background (2 hours)
5) 5. Neurofibromatosis (NF1,NF2) (2 hours)
6) Clinical genetics of melanoma, prostate cancer, gastric cancer (2 hours)
7) DNA tests for moderate increased risk of malignant cancer (2 hours)
8) Credit (1 hour)

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 foundation for the diagnosis of gene and chromosome mutations responsible for hereditary and acquired diseases, including cancer;	C.W9.
W02	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.
W03	knows the basis of early detection of cancer and principles of screening in oncology;	E.W24.
W04	knows the possibilities of modern cancer therapy (including multimodal therapy), the prospects for cell and gene therapies and their adverse effects;	E.W25.
W05	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases;	E.W35.
within the scope of **ABILITIES:**		
U01	analyses genetic crossing over, pedigree qualities and human diseases as well as the estimated risk of having a child with chromosomal aberrations;	C.U1.
U02	makes a decision on the need to perform cytogenetic and molecular tests;	C.U3.
U03	makes morphometric measurements, analyzes the developmental profile and records the diseases' karyotypes;	C.U4.
U04	assesses the risk of disclosure of a particular disease in the offspring based on family predisposition and the influence of environmental factors;	C.U5.

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																					
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
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	**35**
*Participation in lectures**	**15**
*Participation in classes, seminars, laboratories**	**20**
*Preparation in the exam/ final test**	
*Others**	
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	**15**
*Preparation for the lecture**	
*Preparation for the classes, seminars, laboratories**	**10**
*Preparation for the exam/test**	**5**
*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**

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

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