

## DESCRIPTION OF THE COURSE OF STUDY

<b>Course code</b>	<b>12.6-3LEK-F-R</b>	
<b>Name of the course in</b>	Polish	<b>Radioterapia</b>
	English	<b>Radiotherapy</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 UJK
<b>1.7. Person/s preparing the course description</b>	dr n. med. Stanisław Gózdź
<b>1.8. Person responsible for the course of study</b>	dr n. med. Stanisław Gózdź
<b>1.9. Contact</b>	stanislawgo@onkol.kielce.pl

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

<b>2.1. Affiliation with the module</b>	facultative
<b>2.2. Language of instruction</b>	English
<b>2.3. Semesters in which the course of study is offered</b>	
<b>2.4. Prerequisites*</b>	Oncology

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

<b>3.1. Form of classes</b>	Lectures – 15 hours, Classes 20 hours	
<b>3.2. Place of classes</b>	Classes in didactic rooms of the UJK, Radiotherapy Clinic, Kielce Region Cancer Centre	
<b>3.3. Form of assessment</b>	lecture – with grades	
<b>3.4. Teaching methods</b>	Conversation lecture, multimedia presentation	
<b>3.5. Bibliography</b>	<b>Required reading</b>	1 Perez and Brady- Principles and Practice of Radiation Oncology, Sixth Edition: Lippincott, Williams&Wilkins 2013. 2. Khan Faiz- Treatment Planning in Radiation Oncology, Second Edition: Lippincott, Williams&Wilkins 2007. 3. Lee N., Lu J. (Editors)- Handbook of Evidence-based Radiation Oncology, Springer 2007.
	<b>Further reading</b>	1. Hansen E., Roach III M. (Editors)- Handbook of Evidence-based Radiation Oncology, Springer 2007. 2. Moeller T., Reif E.-Pocket Atlas of Sectional Anatomy, Thieme 2007. 3. Steel G.-Basic Clinical Radiobiology, Third Edition, Taylor&Francis 2002.

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

<b>4.1. Course objectives (including form of classes)</b>
C1 Obtaining knowledge of the possibilities of contemporary cancer therapy by the method of radiotherapy.
C2 Knowledge of adverse effects of radiotherapy
C3 Shaping proper attitude of physician with respect to patients covered with oncologic care
<b>4.2. Detailed syllabus (including form of classes)</b>
<b>Lectures</b>
1. Introduction to radiotherapy. 2 hours.
2. Organization of work at the department of radiotherapy. Equipment used in radiotherapy (2 hours)
3. Types of radiotherapy. Planning of radiotherapy 2D, 3D in selected types of cancer (3 hours)
4. Planning of brachytherapy in selected types of cancer (3 hours)
5. Palliative radiotherapy (1hour)
6. Combined treatment of cancer (2 hours)
7. Prevention and alleviation of complications of radiotherapy and combined treatment (1hour)
7. Credit (1hour)
<b>4.3 Education outcomes in the discipline</b>

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of <b>KNOWLEDGE:</b>		
W01	knows the physical principles of selected therapeutic techniques, including ultrasound and radiation;	B.W9.
W02	knows the principles of combination therapies in oncology, algorithms for diagnostic and therapeutic procedures in most common human cancers;	E.W26.
W03	knows and understand the causes, symptoms, principles of diagnosis and therapeutic management of the most common problems of palliative medicine, including: a) the symptomatic treatment of the most common somatic symptoms, b) the procedures applied in cancer cachexia syndrome and the prevention and treatment of bedsores, c) the most common emergencies in palliative medicine;	E.W27.
W04	knows the rules of palliative procedures for the terminally ill patients;	E.W28.
W05	knows the principles concerning the treatment of pain, including cancer and chronic pain;	E.W29.
W06	knows eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;	F.W3.
within the scope of <b>ABILITIES:</b>		
U01	plans diagnostic, therapeutic and preventive procedures;	E.U16.
U02	interprets laboratory tests/results and identifies the reasons for deviations;	E.U24.
U03	plans specialist consultations;	E.U32.

#### 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																					
W04																					
W05																					
W06																					
U01																					
U02																					
U03																					

\*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
<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)

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