**description of the course of study**

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| **Discipline code** | 0912-7LEK-C5.6-O |
| **Name of discipline** | Polish | ***Onkologia*** ***Oncology*** |
| English |

1. **LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES**

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| **1.1. Field of study** |  |  |  |  | medicine |
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| **1.2. Mode of study** |  |  |  |  | Full-time |
|  |  |  |  |  |  |  |
| **1.3. Level of study** |  |  |  |  | Uniform Master’s study |
| **1.4. Profile of study\*** |  |  |  |  | General academic |
|  |  |  |  |  |  |  |
| **1.5. Person/s preparing the course description** |  | Piotr Kędzierawski MD PhD |
|  |  |  |  |  |
| **1.6. Contact** |  |  |  |  | stanislawgo@onkol.kielce.pl |

1. **General characteristicS of the course of study**

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| **2.2. Language of instruction** | English |
| **2.4. Prerequisites\*** | Basic knowledge of oncology |

1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| * 1. **The form of classes**
 | **Lectures - 15 hours** (including 3 hours of e-learning)**, classes – 15 hours, practical classes - 25 hours** |
| **3.2. The place of classes** | The Faculty of Medicine Jan Kochanowski University, Holycross Cancer Centre, 3 Artwiński Street  |
| * 1. **The credit form**
 | **Lectures - pass, Exercises - test** |
| * 1. **Didactic methods**
 | Lecture with conversation, Multimedia presentation, Case presentation, Disscusion, Seminars, Practical classes |
| * 1. **The list of literature**
 | **Basic** | Oncology Lecture Notes M. Bower, J. Waxman 3rd EditionBasic Science of Oncology, 5th Edition ISE, Ian F. Tannock  |
| **Supplementary** | Presented lectures  |

1. **Objectives, syllabus CONTENT and intended teaching outcomes**

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| **4.1.Course objectives *(including form of classes)***C1 Epidemiology, diagnostics, therapy of cancersC2 The principles of cancer pain treatmentC3 Screening in oncologyC4 The specificity of working with oncological patients |
| **4.2. Detailed syllabus *(including form of classes)*****Lectures - 15 hours**1. The epidemiology of cancers. Screening in oncology. 2. Oncogenesis and cancers biology. 3. Basic symptomatology in oncology. Diagnostics4. Combined treatment in oncology. 5. Systemic treatment in oncology.6. Radiation threapy in oncology. 7. Emergencies in oncology.**Seminars - 15 hours + Exercises - 25 hours** Days: 4 (Monday- Thursday)  8-10.15 - seminars 3 hours each, place: A conference hall, the main building, floor 2 10.30-15.00 or 15.45 - practical classes, place: Clinical Oncology, Radiotherapy and Gynecology Clinics, information about the place of practical classes to be passed during a seminar (the first seminar subject is realised with a week in advance) **Subjects of seminars**1. Oncological surgery - radical, palliative, reconstructive, profilactic.
2. Organization of the work in oncological hospital.
3. Systemic therapy in the stationary clinic and the outpatient clinic.
4. Basics of radiation oncology.
5. Pediatric oncology.

 **Practical classes - 25 hours per 1 group, the number of groups - 2** **Time: (6 hrs x 45 min) - a student stays in 1-3 clinics**Lung cancer - diagnostics, clinical symptoms, treatment. Gastrointestinal cancers - diagnostics, clinical symptoms, treatment. (Tuesday, Thursday) Place: Clinical Oncology Clinic, floor 2Breast cancer - diagnostics, symptoms, treatmentProstate cancer - diagnostics, symptoms, treatment  (Monday, Wednesday) Place: Radiotherapy Clinic, ground floorGynecological cancers  (Tuesday, Thursday) Place: Gynecology Clinic, floor 1Head and neck cancers, Brain tumours (Monday, Wednesday)  Place: Radiotherapy Clinic, ground floor An exam follows passes of seminars and exercises. The time of an exam to be determined. |
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* 1. **Education outcomes in the discipline**

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| **Code** | **A student who passed the course,** | **Relation to teaching****outcomes** |
| within the scope of **knowledge**, knows and understands: |
| W01 | environmental and epidemiological conditions for the most common diseases; | E.W1. |
| W02 | environmental and epidemiological conditions of the most common human cancers; | E.W23. |
| W03 | the basis of early detection of cancer and principles of screening in oncology; | E.W24. |
| W04 | the possibilities of modern cancer therapy including multimodal therapy, the prospects for cell and gene therapies and their adverse effects; | E.W25. |
| W05 | the principles of combination therapies in oncology, algorithms for diagnostic and therapeutic procedures in most common of human cancers; | E.W26. |
| W06 | principles of diagnosis and therapeutic management of the most common problems of palliative medicine, including: 1) the symptomatic treatment of the most common somatic symptoms, 2) the procedures applied in cancer cachexia syndrome and the prevention and treatment of bedsores, 3) the most common emergencies in palliative medicine;  | E.W27. |
| W07 | the rules of palliative procedures for the terminally ill patients; | E.W28. |
| W08 | the principles concerning the treatment of pain, including cancer and chronic pain; | E.W29. |
| within the scope of **ABILITIES**, knows how to: |
| U01 | make a decision, if need be, to perform cytogenetic and molecular tests;  | C.U3. |
| U02 | conduct full and targeted physical examination of an adult patient; | E.U3. |
| U03 | assess a patient’s general condition, consciousness and awareness; | E.U7. |
| U04 | perform differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U05 | assess and describe the somatic and mental state of patients; | E.U13. |
| U06 | recognize states of a direct threat to life; | E.U14. |
| U07 | plan diagnostic, therapeutic and preventive procedures; | E.U16. |
| U08 | conduct analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U09 | qualify the patient for home treatment and hospitalization;  | E.U20. |
| U10 | recognize states in which functional status of a patient or his/her preferences restrict the treatment in accordance with specific guidelines for the disease; | E.U21. |
| U11 | interpret laboratory test results and identify the reasons for deviations; | E.U24. |
| U12 | apply dietary treatment with the consideration of enteral and parenteral feeding; | E.U25. |
| U13 | assist when the following procedures and medical treatments are performed:1) transfusions of blood and blood products,2) drainage of the pleural cavity,3) puncture of the pericardium,4) puncture of the peritoneal cavity,5) lumbar puncture,6) needle biopsy,7) epidermal tests,8) intradermal and scarification tests and interpret their results; | E.U30. |
| U14 | plan specialist consultations; | E.U32. |
| U15 | comply with the aseptic and antiseptic rules; | F.U3. |

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| * 1. **Methods of assessment of the intended teaching outcomes**
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| **Teaching** **outcomes*****(code)*** |  **Method of assessment (+/-)** |
| **Exam written****(test) – practical and theoretical parts**  | **Test\*** | **Project\*** | **Effort** **in class\*** | **Self-study\*** | **Group work\***  | **Others\*****Final passing out written and practical parts** |
| ***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* | *PC* |
| W01 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| W02 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| W03 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| W04 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| W05 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| W06 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U01 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U02 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U03 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U04 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U05 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U06 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U07 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U08 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U09 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U10 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U11 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U12 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U13 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |
| U14 |  |  |  | ***x*** | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |  | ***x*** |  |  |  |  |

***\*remove unnecessary***

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| * 1. **Criteria of assessment of the intended teaching outcomes**
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| **Form of classes** | **Grade** | **Criterion of assessment** |
| **Lectures (L)** | **3** | Basic mastering of content, chaotic answers, supplementary questions necessary. 61% - 68% |
| **3,5** | Basic mastering of content, systematic answers, still needs a teacher’s assistance. 69% - 76% |
| **4** | Basic mastering of content, systematic and own answers. Problem solving in typical situations. 77% - 84% |
| **4,5** | The range of presented knowledge exceeds the basic level based on supplemented writings. Problem solving in new and complex situations. 85 % -92% |
| **5** | The range of presented knowledge exceeds the basic level based on individually obtained scientific sources. 93% - 100% |
| **Classes (C) \*** | **3** | Basic mastering of content, chaotic answers, supplementary questions necessary. 61% - 68% |
| **3,5** | Basic mastering of content, systematic answers, still needs a teacher’s assistance. 69% - 76% |
| **4** | Basic mastering of content, systematic and own answers. Problem solving in typical situations. 77% - 84% |
| **4,5** | The range of presented knowledge exceeds the basic level based on supplemented writings. Problem solving in new and complex situations. 85 % -92% |
| **5** | The range of presented knowledge exceeds the basic level based on individually obtained scientific sources. 93% - 100% |

**5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

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| **Category** | **Liability on a Student** |
| **Full-time studies**  |
| *Total number of hours with the assistance of the Teacher (contact hours)*  | ***55*** |
| *Participation in lectures\** | **15** |
| *Participation in exercises, conversations, laboratory classes\** | **40** |
| *Participation in the exam or colloquium\** |  |
| *Others (which ones?)\** |  |
| *Independent individual Student’s activities (non-contact hours)* | ***45*** |
| *Preparation to a lecture\** |  |
| *Preparations to exercises, conversations, laboratory classes \** |  |
| *Preparation to the exam or colloquium \** |  |
| *Collecting materials to a project or the internet query\** |  |
| *Development of a multimedia presentation\** |  |
| *Others (which ones?)\** |  |
| ***Total number of hours*** | ***100*** |
| **ECTS Points for the subject** | **4** |

***\*remove unnecessary***

***I hereby accept*** *(Date and signature of a person conducting the subject during an academic term)*

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