

**Course syllabus – part A**
Oncology**48SJ-ONC**
2025Z
ECTS: 4.00**SUBJECT MATTER CONTENT:****Lecture**

1 Biology of cancer: oncogenesis, abnormal cell division, malignant transformation, oncogenes, proto-oncogenes, antyionkogeny, the characteristics of cancer cells, apoptosis. 2 Basics of modern diagnosis and treatment of cancer: what is the cure in oncology, 5-year survival, mortality, primary and secondary prevention of cancer, screening, methods for diagnosing cancer, histopathological examination, tumor markers, tumor staging, Gleason grade, TNM system, degrees of clinical stage, treatment strategies for cancer, radical treatment, palliative treatment, combination therapy, prognostic factors and predictors. 3 radiotherapy of cancer radiotherapy radical palliative radiotherapy, radiation types, interaction of ionizing radiation with the atom to cell radiosensitivity and promieniowleczałość cancer therapeutic index dose fractionation, in emergency situations treated with radiation oncology, radiotherapy, stereotactic radiotherapy intraoperative brachytherapy, complications acute and late radiotherapy. 4 Systemic treatment of cancer: chemotherapy classic, types of cytostatics, mechanism of action, route of administration, regimens, chemotherapy, radical and palliative, acute and late complications of chemotherapy, hormonal therapy, targeted therapies, immunotherapy. 5 Patient after cancer treatment: control after treatment, physical problems, social and mental health, disability, rehabilitation, chronic fatigue, problems with nutrition, sexual problems, pregnancy after cancer treatment, quality of life.

SEMINAR

1. Gastrointestinal tract neoplasms. 2. Urogenital neoplasms. 3. Lung cancer and other cancers of the chest. 4. Breast cancer. 5. Genital tract neoplasms. 6. The head and neck neoplasms. 7. Sarcomas and skin cancers. 8. The central nervous system neoplasms. Seminars 1-8: epidemiology and etiology of various cancers, subjective and objective symptoms, environmental and genetic predisposition, screening, diagnostic imaging and functional, histopathological diagnosis, methods of treatment, results of treatment, observation after treatment, palliative treatment. 9. Radiotherapy: types of teletherapy and brachytherapy, the designation of irradiation, identifying critical areas, treatment planning, dose fractionation methods. 10. Cancer pain: the scale of the problem, the cause of pain, types of pain, the pain receptors, neuropathic pain, diagnosis, methods of pain assessment, principles of treatment of cancer pain, the WHO ladder, evaluation of treatment effect, breakthrough pain - diagnosis, treatment, drug-free treatment.

Legal acts specifying learning outcomes:

672/2020 (Medicine),

Status of the course: None**Group of courses:** None**Discipline:** Medical Sciences**Classes:**

Lecture (10 h)

Seminar (10 h)

Classes (45 h)

Step: Kierunek lekarski piąty rok semestr dziesiąty (oferta w jęz. angielskim dla obcokrajowców)**Program:** Medicine**Form of studies:** full-time**Level of studies:** uniform master's studies**Introductory subject:****Prerequisites:****Coordinators:**

Dawid Sigorski, dawid.sigorski@uwm.edu.pl

Seminar

Classes

1 Development of a patient's medical history of cancer: a) physical examination and symptoms, with particular attention to the interview focused on the diagnosis of cancer, environmental and genetic predisposition, b) planning diagnostic tests, c) the interpretation of the results of laboratory tests, imaging, functional, histopathology, d) putting the differential diagnosis and the final e) tumor staging, f) plan appropriate to the stage of cancer cancer treatment in the proper sequence (surgery, radiotherapy and systemic), g) plan diagnosis, treatment and control of potential side effects of treatment oncology, h) plan assessing the results of treatment, i) recognition of symptoms associated with cancer and suggest appropriate treatment - eg. cancer cachexia, pain, j) identification of nutritional needs and plan a possible dietary treatment, including paraenteralnego, k) recognize the psychological and social needs, propose remedial action, l) to propose a possible genetic counseling, m) the planning of control tests.

TEACHING OBJECTIVE:

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

M/NM+++++, M/NMA_P7S_KO+++, M/NMA_P7S_KR+++,
M/NMA_P7S_UW+, M/NMA_P7S_WG+++++

Symbols for outcomes related to the field of study:

K.1.+, K.2.+, K.3.+, E.U16.+, M/NM_E.W23.+, M/NM_E.W24.+,
M/NM_E.W25.+, M/NM_E.W26.+

LEARNING OUTCOMES (Knowledge, Skills, Social competence):

W1

U1

K1

TEACHING FORMS AND METHODS:

Lecture-['K1', 'U1', 'W1']-
Seminar-['K1', 'U1', 'W1']-
Classes-['K1', 'U1', 'W1']-

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Seminar-(Part in the discussion)-[]-
Classes-(Part in the discussion)-[]-
Lecture-(Written exam)-['K1', 'U1', 'W1']-

Literature:

1. **Onkologia.Podręcznik dla studentów i lekarzy**, Radosław Kordek, Via Medica,, 2024, Strony: , Tom: (literatura podstawowa)
2. **Onkologia Kliniczna**, Maciej Krzakowski, Via Medica, 2023, Strony: , Tom:1 i 2 (literatura podstawowa)
3. **ONKOLOGIA Podręcznik dla studentów medycyny. Pomoc dydaktyczna dla lekarzy specjalizujących się w onkologii**, Andrzej Deptała, Rafał Stec, Marta Smoter, AsteriaMed, 2021, Strony: , Tom: (literatura podstawowa)
4. **Zalecenia postępowania diagnostyczno-terapeutycznego w nowotworach złośliwych**, Maciej Krzakowski, Via Medica,, 2021, Strony: , Tom: (literatura podstawowa)
5. **Cancer - Principles and Practice of Oncolog**, Wolters kluver Health,, Vincent de Vita,, 2023, Strony: , Tom: (literatura uzupełniająca)



Detailed description of ECTS credits awarded - part B Oncology

48SJ-ONC
2025Z
ECTS: 4.00

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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|-----------------------------|------|
| - participation in: Lecture | 10 h |
| - participation in: Seminar | 10 h |
| - participation in: Classes | 45 h |
| - consultation | 5 h |
| Total: | 70 h |

2. Independent work of a student:

| |
|----------------|
| 15.00 h |
| 15.00 h |
| Total: 30.00 h |

Total (contact hours + independent work of a student): 100.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS,
ECTS Points = 100.00 h : 25 h/ECTS = **4.00** ECTS

Average: 4.00 ECTS

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|---|-----------|
| - including the number of ECTS credits for contact hours with the direct participation of an academic teacher | 2.80 ECTS |
| - including the number of ECTS credits for hours of independent work of a student | 1.20 ECTS |