

CLINICAL ONCOLOGY	
GENERAL INFORMATION	
Course coordinator	Professor Damir Gugić, MD, PhD
Assistant/Associate	Assistant Professor Ilijan Tomaš, MD, PhD Assistant Professor Josipa Flam, MD, PhD Mate Matić, MD, PhD Mirela Šambić Penc, MD
Study Programme	Integrated undergraduate and graduate university study of Medicine
Status of the course	Mandatory
Year of study, semester	4. year, 8. semester
ECTS	2
Workload (hours)	Lectures (5); Seminars (15); Exercises (10)
Expected number of students	76
COURSE DESCRIPTION	
Course objectives	
Get to know, understand and independently make decisions about oncology patients in the direction of targeted diagnosis and referral to tertiary forms of treatment	
Enrolment requirements and entry competencies	
Passed exams in Internal Medicine and Pathophysiology	
Learning outcomes at the Programme level	
1.1., 2.3., 3.4., 3.5., 4.2.	
Expected learning outcomes at the subject level (5-10 outcomes)	
<p>After listening to lectures, seminars and exercises, independent learning and passing the exam, students will be able to:</p> <ol style="list-style-type: none"> 1. Distinguish groups in the population that may be predisposed (harmful habits and lifestyle) to the development of malignant diseases. 2. Explain the mechanism of occurrence and action of malignant diseases and be aware of the possibility of spreading malignant disease. 3. Know the forms and mechanisms of today's possible forms of treatment of malignant diseases. 4. Describe the indications, contraindications, side effects and interactions of drugs used in the treatment of malignant diseases. 5. Distinguish different groups of drugs used in the treatment of malignant diseases (hormone therapy, chemotherapy, biological therapy, immunotherapy). 6. Know the benefits, dangers and side effects of radiotherapy. 	
Course content	
<p>Lectures: Epidemiology of malignant diseases, prevention and early diagnosis of malignant diseases, tumor biology, basics of chemotherapy and hormone therapy, approach and monitoring of cancer patients.</p> <p>Seminars: Tumors of the central nervous system, female reproductive system, breast tumors, tumors of the digestive system, urinary tract tumors, physical basics of radiotherapy, pediatric tumors, head and neck tumors, skin cancer, respiratory tumors, the role of family physicians in treating cancer patients, emergencies in oncology, soft tissue and bone tumors, supportive,</p>	

symptomatic treatment and palliative care, upcoming new oncology treatment options and early diagnosis.

Mode of teaching

Lectures; Seminars; Clinical exercises

Student obligations

Attendance at all forms of classes is mandatory, and the student must access all knowledge tests. A student may justifiably miss 30% of each form of instruction. Unfinished exercise must be colloquial.

Monitoring student work (*alignment of learning outcomes, teaching methods and grading*)

Teaching activity	ECTS	Learning outcome	Student activity	Assessment methods	Grade points	
					Min.	Max.
Class attendance	0,5	1-5	Presence in class, Interview with the lecturer, Active two-way	Record attendance and exercise diary	5	10
Seminars	0,5	1-5	Seminar paper related to the topic of the seminar that some students would like to do enters the final grade of the exam. Optional.	Attendance records and monitoring of commitment to teaching.	10	20
Exercises	0,5	1-5	Work in the oncology department with the mentorship and assistance of a mentor in recognizing various forms of malignant diseases and approaches to the oncology patient.		5	10
Final exam	0,5	1-5	Learning for the final exam	Oral exam	30	60
Total	2				50	100

Evaluation of final exam:

Student answer	Grade points
The answer meets the minimum criteria	30.0
The average answer with noticeable errors	40.0
The very good answer with minor errors	50.0
The exceptional answer	60.0

Calculation of final grade:

Grades obtained during the oral exam are added to the points earned during the course. The evaluation is performed by absolute distribution, ie on the basis of the final achievement and is compared with the numerical system as follows:

A - excellent (5): 80-100 points; B - very good (4): 70-79.99 points; C - good (3): 60-69.99 score points; D - sufficient (2): 50-59.99 points

Required reading (available in the library and through other media)

Title	Number of copies in the library	Availability through other media
1. E. Vrdoljak, I. B. Lovasić, Z. Kusić, D. Gugić, A. Juretić Klinička onkologija, 3. izdanje, Medicinska naklada Zagreb 2018.	18	
2. S. Anton, S. Mrđenović, D. Gugić Psihodinamski pristup oboljelima od karcinoma, Svjetla grada Osijek 2012.	1	

Additional reading

1. M. Oprić, M. Granić, D. Gugić et. al. Specijalna onkologija, Elit Medica Beograd 2004.

Course evaluation procedures

Anonymous, quantitative, standardized student survey on the subject and work of teachers conducted by the Office for Quality of the Medical Faculty Osijek.

Note /Other

E-learning is not included in the norm of subject hours, but it is used in teaching and contains links to various pages, video and audio materials available on the website.