


<b>University of Niš</b> <b>Faculty of Medicine</b>	<b>Study program:</b> <b>INTEGRATED ACADEMIC STUDIES OF MEDICINE</b> <i>ACCREDITATION 2018</i>	
<b>Course: Clinical oncology</b>		
<b>Course head:</b> Prof. dr Ivan Petković		
<b>Course status:</b>	Required	
<b>Semester: XI</b>	<b>Study year: VI</b>	
<b>ECTS: 2</b>	<b>Course code: M-VI-50</b>	
<b>Course purpose:</b>		
<p>Acquaintance with the most important clinical principles in oncology. Since the students acquired basic knowledge in cellular oncology, internal medicine, imaging diagnosis and surgical disciplines, as well as some basic skills, the purpose of the course is to integrate them into the specific requirements of clinical oncology. Oncology-oriented way of thinking needs to be adopted in the areas of prevention, early detection, curative and palliative therapy, involving ethical and psychosocial aspects.</p>		
<b>Course outcome:</b> (knowledge, skills, attitudes)		
<p>Students will acquire the necessary knowledge in clinical oncology, adopt the skills of oncological examination (with focus on screening programs), and be prepared to work with oncologic patients in primary health care.</p>		
<b>No. of classes of active teaching: 45</b>		
<b>Lectures: 15</b>	<b>Practice: 30</b>	
<b>Course content</b>		
<u>Theory</u>		
<p>Students will learn about descriptive and analytical epidemiology, focusing on selective screening and definition of high risk groups for most common malignant tumors. Natural course of a malignant disease is considered, as well as significance of oncogenes and tumor suppressor genes. Special attention is paid to specific oncologic therapies (chemo, hormonal, radiotherapy, immunotherapy, and „target“ therapies), their mechanism of action, mode and time of administration, toxic effects, and complications. Since treatment protocols have been defined for the leading sites of malignant diseases, students will learn about them as well. Students will learn about clinical diagnosis, histopathologic diagnosis, and minimum patient management for staging purposes. In addition to the TNM system, special attention is paid to specific staging systems for individual common malignancies. Students will also learn about prognostic and predictive factors on the part of both the tumor and the patient relevant for the therapeutic approach – tissue and serum, standard and new biomarkers. All ethical aspects will be considered, with the stress put on quality of life issues.</p>		
<u>Practice</u>		
<p>Focuses on most common tumor sites and is realized through small group work (patient examinations, case reports with discussion and therapy suggestion, demonstration of dissolving and administering cytostatic, hormonal, target therapies, as well as pain therapies, adoption of communication skills when oncologic patients, their families and relatives are concerned). Students will also learn about specific oncological documentation.</p>		
<b>Seminars: Required 3 of 10 offered seminars</b>		
	Medicamentous therapy of malignant tumors	
	Screening for breast, cervical, prostate, large bowel and skin cancer	
	Prognostic and predictive risk factors for breast cancer and genetically determined breast cancer	
	Significance of tissue and serum marker measurement in clinical oncology	
	Myeloablative therapy and transplantation of hematopoietic stem cells	
	Paraneoplastic syndromes	
	Contemporary approach to diagnosis and therapy of ovarian cancer	
	Education/training: clinical examination of the breast	
	Supportive therapy (antiemetic therapy, pain therapy)	
	Contemporary classification of lymphoproliferative diseases	

<b>Recommended literature:</b>
<ol style="list-style-type: none"> <li>1. Filipović S. Osnovi kliničke onkologije, Medicinski fakultet Univerziteta u Nišu 2009. Osnovni udžbenik.</li> <li>2. De Vita et al. Principles and Practice of Oncology, 2011. Za pripremu seminara.</li> </ol>
<b>Teaching methods:</b>
<ul style="list-style-type: none"> <li>▪ Interactive theoretical and practical teaching</li> <li>▪ Consultations</li> <li>▪ Seminar papers</li> <li>▪ Small group work</li> </ul>
<b>Required previously passed exams:</b>
Internal medicine
<b>Grade (max. 100 points)</b>
<b>Pre-exam obligations</b>
<ul style="list-style-type: none"> <li>▪ Attendance and activity at lectures: 0 – 6 points</li> <li>▪ Activity at practice classes: 0 – 8 points</li> <li>▪ Seminar papers: 0 – 6 points</li> </ul>
<b>Final exam</b>
<ul style="list-style-type: none"> <li>▪ Practical exam: 0 – 30 points</li> <li>▪ Oral exam: 0 – 50 points</li> </ul>