

<b>GENERAL INFORMATION</b>		
Course name	<b>ECG in Clinical Practice 1</b>	
Course director	<b>Prof. Jure Mirat, MD, PhD</b>	
Assistants	Asst. Prof. Aleksandar Kibel, MD, PhD	
Study program	<b>Integrated undergraduate and graduate university study program Medical Studies in German</b>	
Course status	Elective	
Year of study, semester	3 <sup>rd</sup> year, 5 <sup>th</sup> semester	
Credits allocated and form of instruction	ECTS student workload	<b>1</b>
	Number of teaching hours (L+S+E)	<b>15 (5+5+5)</b>
<b>COURSE DESCRIPTION</b>		
<b>Course objectives</b>		
Define electrocardiography terms and physiological and pathophysiological basics of cellular electricity. Analyze, differentiate and explain different electrocardiographic phenomena.		
<b>Course requirements</b>		
There are no specific requirements for this course except those defined in the study program curriculum.		
<b>Learning outcomes relevant to the study program</b>		
<b>1.2., 2.1., 3.4.</b>		
<b>Expected learning outcomes (5-10 learning outcomes)</b>		
Upon successful completion of this course, the student will be able to:		
<ol style="list-style-type: none"> <li>1. Independently produce an electrocardiogram;</li> <li>2. Systematically analyze physiological forms of electrocardiogram;</li> <li>3. Systematically analyze pathological forms of electrocardiogram;</li> <li>4. Define pathological state;</li> <li>5. Interpret pathological states and provide arguments.</li> </ol>		
<b>Course content</b>		
<ul style="list-style-type: none"> <li>• Basics of cellular electricity;</li> <li>• Leads and electrode placement;</li> <li>• Electrocardiogram reading system and recording rules;</li> <li>• Analysis of rhythm and frequency;</li> <li>• Analysis of the electrical axis;</li> <li>• Analysis of waves, segments and intervals;</li> <li>• Ventricular hypertrophy and atrial enlargement;</li> <li>• Electrocardiogram in ischemic heart disease.</li> </ul>		
<b>Form of instruction</b>	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> distance learning <input type="checkbox"/> field course	<input type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and internet <input type="checkbox"/> laboratory <input type="checkbox"/> mentoring activities <input type="checkbox"/> other
<b>Student obligations</b>		
Come to class prepared by studying the recommended literature for each unit and actively participate in all forms of instruction. The student must participate in at least 70% of classes to pass the course.		
<b>Monitoring student learning</b>		

Attendance	x	Active participation	x	Seminar paper		Experimental work	
Written exam	x	Oral exam	x	Essay		Research	
Project		Continuous assessment		Paper		Practical work	
Portfolio							
<b>Assessment and evaluation of students during class and on the final exam</b>							
Students' performance will be evaluated during class and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During classes, a student can earn a maximum of 100 points. Students can earn a maximum of 20 points during classes through different types of activities. On the final exam, students can earn a maximum of 80 points. The final grade represents the sum of the points earned during classes and on the final exam.							
<b>Mandatory reading</b>							
1. Kurzlehrbuch EKG endlich verständlich: Mit StudentConsult-Zugang. Ohly A, Kiening M. Urban & Fischer Verlag/Elsevier GmbH; 2nd edition: 2015							
<b>Additional reading</b>							
1. Mirat Jure. EKG u kliničkoj praksi – Uvod u elektrokardiografiju [ECG in Clinical Practice – Introduction to Electrocardiography]. Medicinski fakultet Osijek 2014 – German translation Guidelines for the interpretation of the neonatal electrocardiogram A Task Force of the European Society of Cardiology European Heart Journal (2002) 23, 1329–1344 doi:10.1053/euhj.2002.3274, available online at <a href="http://www.idealibrary.com">http://www.idealibrary.com</a>							
<b>The number of copies of mandatory reading in proportion to the number of students currently taking this course</b>							
<i>Title</i>				<i>Number of copies</i>		<i>Number of students</i>	
1. Kurzlehrbuch EKG endlich verständlich: Mit StudentConsult-Zugang. Ohly A, Kiening M. Urban & Fischer Verlag/Elsevier GmbH; 2nd edition: 2015				20		60	
<b>Quality monitoring methods ensuring the acquisition of knowledge upon completion, skills and competences</b>							
The quality of course performance is monitored through an anonymous student survey on the quality of the organization and conduction of classes, the course content and the work of professors. The usefulness of the lectures from the students' perspective, the curriculum content, the professor preparedness, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. The curriculum and its execution are administratively compared. The participation of students in lectures and exercises, as well as the excuses for missing classes, are controlled and analyzed.							