

<b>GENERAL INFORMATION</b>		
Course name	<b>Transplantation Medicine</b>	
Course director	<b>Prof. Lada Zibar, MD, PhD</b>	
Assistants	Prof. Mladen Merćep, MD, PhD Asst. Prof. Ozana Katarina Tot, MD, PhD Asst. Prof. Robert Blažeković, MD, PhD Asst. Prof. Ružica Palić Kramarić, MD, PhD	
Study program	<b>Integrated undergraduate and graduate university study program Medical Studies in German</b>	
Course status	Elective	
Year of study, semester	6 <sup>th</sup> year, 11 <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 (10+5+0)</b>
<b>COURSE DESCRIPTION</b>		
<b>Course objectives</b>		
Familiarize students with the specificities and novelties of transplantation medicine. Show new methods and possibilities in transplantology. Familiarize students with the medical and legal basis of transplantation medicine.		
<b>Course requirements</b>		
There are no specific requirements for this course except those defined in the study program curriculum.		
<b>Learning outcomes at the Programme level</b>		
<b>1.1., 1.2., 2.2., 2.3., 3.1., 3.3., 4.2.</b>		
<b>Expected learning outcomes (5-10 learning outcomes)</b>		
<b>Knowledge</b>		
<ol style="list-style-type: none"> <li>1. List the key events in the development of transplantation.</li> <li>2. Describe the determinants of the HLA system and other antigen systems important for transplantation. Explain the principles of laboratory immunological tests in transplantation.</li> <li>3. List the modern possibilities of transplantation of cells, tissues, human body parts and solid organs.</li> <li>4. Explain kidney, pancreas, liver and heart transplantation: pre-transplant treatment of recipient, donor, surgical procedure. Transplantation from a living or deceased donor.</li> <li>5. Recognize the basics of immunosuppressive therapy.</li> <li>6. Know the complications of transplantation, including acute and chronic rejection, infections, malignant diseases and surgical complications.</li> <li>7. State the basic ethical principles in transplantation and legal provisions as well as the organization of the transplantation system.</li> </ol>		
<b>Skills</b>		
<ol style="list-style-type: none"> <li>1. Interpret the clinical condition of a kidney transplant candidate in terms of indications and contraindications and immune profile.</li> <li>2. Interpret the clinical condition of a liver transplant candidate in terms of indications and contraindications.</li> </ol>		
<b>Course content</b>		
Development of transplantation. Immunology of transplantation. Transplantation of solid organs. Transplantation of cells, tissues and human body parts. Immunosuppression. Complications – acute and chronic rejection, infections, malignant diseases and surgical complications. Ethics, law and organization in transplantation.		

<b>Form of instruction</b>		<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars workshops <input type="checkbox"/> exercises <input type="checkbox"/> distance learning <input type="checkbox"/> field course	and	<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	x
Portfolio						
<b>Assessment and evaluation of students during class and on the final exam</b>						
Regular attendance and active participation in all forms of instruction are mandatory. For the successful conduction of seminars and exercises, a prior preparation of the student is required. Exercises can only be attended in prescribed work clothes (white coat). Classes are conducted at the prescribed time. It is not allowed to bring food and drinks to the exercises. It is forbidden to use mobile phones during classes as well as during examinations. The student must participate in at least 70% of classes to pass the course.						
<b>Mandatory reading</b>						
1. Krukemeyer und Lison: Transplantationmedizin: Ein Leitfaden für den Praktiker. De Gruyter Verlag; 2006.1.						
<b>Additional reading</b>						
1. Published peer-reviewed articles on contemporary notions about the mentioned topics.						
<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>			
Krukemeyer und Lison: Transplantationmedizin: Ein Leitfaden für den Praktiker. De Gruyter Verlag; 2006.1.	A purchased license for online textbooks shall be used <a href="https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117">https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117</a> Access will be granted to all students enrolled in the study program					
<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.						