GENERAL INFORMATION														
Course name		Basic M	Basic Medical Laboratory Diagnostics 2											
Course director		Prof. Ljubica Glavaš-Obrovac, PhD												
Assistants			Asst. Prof. Sanja Mandić, PhD Asst. Prof. Stana Tokić, PhD											
Study program		program	Integrated undergraduate and graduate university study program Medical Studies in German											
Course status		Elective												
Year of study, sem														
Credits allocated a	redits allocated and form		ECTS student workload				1							
of instruction	of instruction		of teachir	ng hours (L+S	6+E)	15 (5+5+5	15 (5+5+5)							
COURSE DESCRIPTION														
Course objectives														
Familiarize students with the principles of the operation of a biomedical laboratory and the use														
of modern biochemical methods in diagnostics and research														
Course requirements There are no specific requirements for this course except those defined in the study program														
	fic re	equirements to	r this cou	irse except th	ose defi	ned in the stud	ay progran							
curriculum.														
Learning outcomes relevant to the study program														
1.1., 1.2., 2.1., 3.4.														
Expected learning outcomes (5-10 learning outcomes)														
Upon completing the course, the student will be able to:														
1. Understand the principle of the operation of a molecular diagnostics laboratory														
 Apply the acquired knowledge in preparing samples for molecular analysis Independently analyze DNA sample by using PCR technique 														
4. Interpret ob	-	-	ample by		schnique									
Course content	lant													
Organization of a	mo	lecular diagno	stics Jah	oratory Sou	rce and	sample pror	aration fo							
molecular biologica expression. DNA a hybridization techni (SSCP) analysis. sequencing). DNA obtained by automa	al a nd l que Dete ana	nalysis. Mode RNA isolation t . Polymerase c ermination of .lysis in diagno	rn metho echnique hain reac the nucl ostics and	ods of analyz s. Nucleic ac tion. Single-s eotide seque therapy. Int	zing DN id electro trand cor ence in erpretatio	A sequences ophoresis. So nformation pol a DNA mole on of electrop	and gene uthern Blo ymorphisn cule (DNA							
Form of instructio	⊠semin ⊠exerci	 ➢lectures ➢seminars and workshops ➢exercises ☑distance learning 			☐individual assignments ☐multimedia and internet ☐laboratory ☐mentoring activities									
		field course			other									
Student obligation	าร													
Come to class pre	pare	ed by studying	the reco	mmended lite	erature fo	or each unit a	nd activel							
participate in all for														
pass the course.														
Monitoring studer	nt le													
Attendance	x	Active	x	Seminar		Experimenta								
		participation	^	paper		work								
Written exam		Oral exam		Essay		Research								

Project		Continuous assessment		Paper		Practical work	x					
Portfolio												
Assessment and evaluation of students during class and on the final exam												
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.												
Mandatory reading												
1. T.Reinard. Molekularbiologische Methoden, 2. Auflage, Ulmer UTB; 2010.												
Additional reading												
1. Rolf Knippers. Molekulare Genetik. Georg Thieme Verlag KG; 2015.												
The number of copies of mandatory reading in proportion to the number of students												
currently taking this course												
Title				Number of c		Number of stude						
A purchased license for online textbooks shall be used <u>https://bfdproxy48.bfd-</u>												
online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-												
online.de%2fameos%2fbfdAboGateway%3fabold%3d264117												
Access will be granted to all students enrolled in the study program												
Quality monitoring methods ensuring the acquisition of knowledge upon completion, skills and competences												
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.												