MED 3021 - Medically important Microorganism
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Course Name	Code	Semester	Type of course	Theory (hours)	Application (hours)	ECTS
Medically Important Microorganisms	MED 3021	VI	Elective	10	16	2
Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program "Medicine"					
Author (s)	Professor Leila Akhvlediani, Doctor of Biology Mob: 593537072; T: +995422212535; Fax:+995422212537 Email: Leila.akhvlediani@bauinternational-uni.ge Consultation day -individually					
Educational course format	LECTURE, APPLICATION, LABORATORY, WORK IN GROUP					
Educational course volume	 Total: 60 acad. hours Contact hours: 30 h, that includes: Lecture – 10 h Laboratory -4 h Team work – 12 h Midterm Exam – 2 h Final Exam -2 h Independent work – 30 h 					
Prerequisites	MED 2003					
The purpose (s) of tutorial course/modules	The aim of the learning course is to study the medically important Gram-positive and Gram-negative bacteria, Viruses, Fungi and Protozoa.					
Teaching and learning strategy	Lectures will be conducted based on the application of verbal explanation method, demonstration- the method of visual presentation of the information. Laboratory work foresees doing experiments by the students themselves under the teacher's supervision that aims at elaboration of practical clinical skills; the students will also analyze the obtained results. In order to develop the skills of making conclusions supported by the arguments the students, during the group work, will defend and justify their opinions, when dealing with situation analysis, and analyze critically the situation created by their course mate. The students will also carry out the analysis of the clinical cases, interpret, classify, assess the data and make synthesis by means of connecting and confluencing of the components comprising the separate issues.					

	When working on the project the student will use the method of working on the book. Besides he/she h to get familiarized with publications, process the literature, search for the additional material and prese the project in slideshow format.
Assessment criteria	 Maximum score-100 Final Exam - 40 score Other components of midterm assessment are (total 60): Activity on Laboratory - 10 score: Activity on Group work -10 score: Activity on Group work -10 score Project preparation and presentation -10 score Midterm Exam - 20 score Laboratory Work is Assessed Based on the Following Criteria (maximum 5 point): 10-9 points: Laboratory method is planned correctly, the usage of the laboratory equipment and devices by the student is accurate. The student is able to make method recording correctly, can easily identify the mistakes made and plan the way of correction. The student is able to analyze the method exercised and interpret the results. Laboratory work is carried out accurately and completely: 4 points: Laboratory method is planned correctly. The student reveals the relevant knowledge when applying laboratory method is planned correctly. The student is noble to reveal the relevant knowledge when anylying the results. Laboratory work is performed with minor faults. 3 points: Laboratory method is planned correctly. The student is not able to reveal the relevant knowledge when using the laboratory equipment since he/she makes minor mistakes when applying laboratory devices; The student can make method recording correctly. Laboratory work is carried out with minor faults. 2 points: Minor mistakes are made in planning of the laboratory method; the student is not able to reveal the relevant knowledge when using laboratory method and equipment and devices, the student is able to make method recording correction. Laboratory work is carried out with essential faults. 1 point: Essential mistakes are made in planning laboratory method; the student is hardly familiar with the relevant knowledge when using laboratory method and equipment and devices. The task is not fulfilled. Group Work are Assessed Based on the Following Criteria (maximum
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8 points - Student has been able to bring forward a consistent knowledge, Has properly developed terminology. Demonstrates knowledge of the main readers.

7 points - Student has been able to present some factual information sufficiently linked with the topic. demonstrate a good understanding of the topics selected. make a good attempt to bring forward a balanced view of some arguments on the issues. Terminology is partially developed.

6 points - Student has been able to make some good comments on the different perspectives on some of the issues. Make poor deductions on most of the topics tackled. analyse some causes and results of human interactivity related to the issues.

5 points - Student has been able to demonstrate inconsistent comments on the different perspectives on some of the issues. Terminology is partially developed. Present mediocre level of knowledge. Make poor deductions.

4 points - Student demonstrates general overview of the topics. Terminology is not developed. Information sufficiently linked with the topic. Demonstrate irrelevant understanding of the literature. **3 points** – Student demonstrates general/superficial and inconsistent knowledge of the subject. No sufficient knowledge of the literature.

2 points - Student demonstrates general comments, no knowledge of the terminology, no consistency.
1 point - Student demonstrates insufficient answer, not terminology awareness, chronologic manner of the answer, mostly wrong, no knowledge of literature.

0 point - Student demonstrates not even elementary knowledge of the topics.

Project preparation – presentation criteria (max. 10p)

- 1. Problem Importance 1 p;
- 2. Proper planning 1 p;
- 3. Review of the literature (data) on the issue -1 p;
- 4. Relevance of research methods with the research goal 1 p;
- 5. Deductions accuracy and correlation with the main text 1 p;
- 6. Accuracy of the cited literature, trusted sources 1 p;
- 7. Writing accuracy -1 p;
- 8. Language and style accuracy 1 ქულა;
- 9. Visual and technical sides of the material 1 p;
- 10. Culture of dispute and listening 1 p.

Midterm exam is a test (multiple choice) that contains 40 questions, each rated 0.5p.

The student is allowed to pass the final exam, if he accumulates not less than 11 points for the midterm evaluations (considering that he will get the maximum score at the final exam).

Final exam is also the test (both open and closed questions). It consists of 60 open and closed multiplechoice questions; each one rates 0.5 p (30 p in total) and 10 open questions or situational tasks, each rating not more than 1p.

Final exam is scored with not more than 40p.

The final exam is considered to be passed if a student accumulates **70% or more** of the maximum exam score (40X70 / 100 = 28 points).

Credit is awarded to if student accumulates 51 p out of 100 p.

Positive assessment:

- (A) Excellent 91p and more;
- (B) Very good 81-90p;
- (C) Good 71-80 p;

	 (D) Satisfactory - 61-70 p; (E) Enough - 51-60 p; 				
	 Negative assessment: (FX) didn't pass - 41-50p that means that student needs more work to pass it and is allowed to pass additional exam; (F) failed - 40p or less that means that student shall take the course again. The student has the right to pass an examination in the same semester. The interval between the final and additional exams to be not less than 10 days. 				
The basic literature	1. Medical Microbiology . Murray PR, Rosenthal KS, Pfaller PA (eds) Sixth edition. Mosby Elsevier Philadelphia, PA; 2009;				
The auxiliary literature	 Jawetz, Melnick, Adelberg's. Medical Microbiology. Brooks GF, Carroll KC, Butel JS, Morse SA, Mietzner TA (eds) 25th edition. Mc Graw Hill C. 2010; 				

The tutorial/learning course content (week by week)

N	Topics	Lecture (hour)	Work in group Appl. (hour)	Lab
	Gram-positive bacteria important in human health	2	3	1
	Gram-negative bacteria important in human health	2	3	1
	Midter Exam		2	
	Medically important Viruses	2	3	1
	Medically important Fungi	2	3	1
	Medically important Protozoa	2		
	Final Exam		2	

Learning Outcomes

Criteria	Competences		
	After completing this course the students are going to:Get knowledge about the medically important bacteria and the general		
Knowledge and understanding	properties of the bacterial infections;		
	 Explain fungal infections and medically important fungi. 		
	Is able to:		
	• Describe the general principles of laboratory diagnostic methods and the		
Communication skills	fields of their application.		
	 Describe of life cycles of microorganisms; 		
	• Diversity of medically important Protozoa;		
T	Is able to apply the full range of information resources, to manage their own		
Learning Skills	learning process. Is aware of the need for constant updating of knowledge;		
Value	Is able to assess his/her attitude and contribute in the process in forming new		
	values;		