

**MED 5012 –Infection Disease and Clinical Microbiology**

Course Name	Code	Semester	Type of course	Theory (hours)	Group Work (hours)	ECTS
Infection Disease and Clinical Microbiology	MED 5012	X	Mandatory	20	36	4
Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program “Medicine”					
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Educational course format	LECTURE, WORK IN GROUP					
Educational course volume	<b>Total:</b> 120 hours <b>Contact hours:</b> 60 h 1. Lecture – 20 h 2. Team work – 36 h 3. Midterm Exam – 2 h 4. Final Exam -2 h <b>Independent work</b> – 60 h					
Prerequisites	MED 2009- Basic Microbiology					
The purpose (s) of tutorial course/modules	The course aims to learn the ethiopathogenesis, epidemiology, clinical picture of the most widely spread infectious diseases, the modern methods of infectious diseases research and prevention principles, pathogenetic therapy principles.					
Teaching and learning strategy	<p><b>Lectures will be conducted</b> based on the application of verbal explanation method, demonstration- the method of visual presentation of the information.</p> <p>In order to develop the skills of making conclusions supported by the arguments the students, during the <b>group work</b>, 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. During the group working students will prepare poster in unknowing topics, then they will rate each other.</p> <p><b>When working on the project</b> the student will use the method of working on the book. Besides he/she has to get familiarized with publications, process the literature, search for the additional material and</p>					

	<p>present the project in slideshow format.</p> <p>During the <b>Poster</b> preparation, work on the unknown material in the limited time and then present it, also evaluate each other.</p>
<p><b>Assessment criteria</b></p>	<p><b>Maximum points - 100</b></p> <p><b>Midterm assessment - 60</b> points, that includes:</p> <ul style="list-style-type: none"> <li>• Attendance on lectures - 0.25 (0,25X20=5) points;</li> <li>• Activity on Group work -10 points;</li> <li>• Poster Presentation - 10 points;</li> <li>• Project preparation, presentation -10 points;</li> <li>• Role playing games- 5 points;</li> <li>• <b>Midterm Exam – 20</b> points</li> </ul> <p>Is held in the written test form (test consists of 40 multiple-choice questions, each question is rated as 0.5 score; total – 20 points).</p> <p><b>Group Work are Assessed Based on the Following Criteria</b> (maximum 10 point)</p> <p>10 points - Student has been able to present complete and thorough knowledge of the subject, a substantial amount of detailed and relevant information. Demonstrate considerable depth of understanding of the studied main and additional literature. Bring forward a balanced view of the main arguments on the issues.</p> <p>9 points - Student has been able to bring forward a consistent number of deductions on most of the topics tackled. make very good comments on the different perspectives on most of the issues. Demonstrates knowledge of the main readers.</p> <p>8 points - Student has been able to bring forward a consistent knowledge, Has properly developed terminology. Demonstrates knowledge of the main readers.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>3 points – Student demonstrates general/superficial and inconsistent knowledge of the subject. No sufficient knowledge of the literature.</p> <p>2 points - Student demonstrates general comments, no knowledge of the terminology, no consistency.</p> <p>1 point – Student demonstrates insufficient answer, not terminology awareness, chronologic manner of the answer, mostly wrong, no knowledge of literature.</p> <p>0 point: Student demonstrates not even elementary knowledge of the topics.</p> <p style="text-align: center;"><b>Poster/project preparation and Presentation Grading – Maximum 10 grades</b></p> <ol style="list-style-type: none"> <li>1. Content - 1;</li> <li>2. Problem outline - 1;</li> </ol>

	<ol style="list-style-type: none"> <li>3. Review of the literature on the issue -1;</li> <li>4. Research methods relevance with the research goals - 1;</li> <li>5. Logical argumentation - 1;</li> <li>6. Deductions accuracy and correlation with the main text - 1;</li> <li>7. Visual and technical parts of the material - 1;</li> <li>8. Reliability of the sources - 1;</li> <li>9. Accuracy of the cited literature - 1;</li> <li>10. Language and style accuracy- 1.</li> </ol> <p>Students are admitted to the final examination if they score no less than 51 points through the midterm exam and final examinations.</p> <p><b>Final Exam – 40</b></p> <p>Is held in the written test form (test consists of 60 multiple-choice close questions, each question is rated as 0.5 points and 10 open questions each question is rated as 1 score).</p> <p>The final exam would accounted as passed in case of maximum 70% or more (<math>40 \times 70 / 100 = 28</math> points).</p> <p>Credit will be given to the student if he has collected at minimum 51 scores out of 100.</p> <p>The students' assessment has to be done in the following way:</p> <p><b>Positive rate:</b></p> <ul style="list-style-type: none"> <li>• (A) Excellent- 91 or more points;</li> <li>• (B) Very Good- 81-90 points;</li> <li>• (C) Good- 71-80 points;</li> <li>• (D) Satisfactory- 61-70 point;</li> <li>• (E) Enough- 51-60 points;</li> </ul> <p><b>Negative rate:</b></p> <ul style="list-style-type: none"> <li>• (FX) Failure - 41-50 points, which means that a student needs to work more and an independent and considerable further work is required to pass the exam once again to be re-awarded;</li> <li>• (F) Fail - 40 points or less, which means that the student's diligence is not sufficient and student has to learn the subject all over again.</li> </ul> <p>Student can pass the additional exam during the same semester.</p> <p>The time interval between the final and the additional exams should be not less than 10 days.</p>
<b>The basic literature</b>	<ol style="list-style-type: none"> <li>1. Levison, W. Review of Medical Microbiology &amp; Immunology, 2010</li> <li>2. Jawetz, Melnick, &amp; Adelberg's Medical Microbiology, 25th edition, 2010</li> <li>3. Robbins &amp; Cotran Pathologic Basis of Disease, 8th Edition, 2010</li> <li>4. Basic and Clinical Pharmacology, 12th edition, 2011</li> </ol>
<b>The auxiliary literature</b>	CLINICAL MICROBIOLOGY AND INFECTION DISEASE. SPISER W. JOHN. EDINBURGH. 2008

#### The tutorial/learning course content

Week	Topics	Lecture (hour)	Work in group (hour)
1	Introduction to medically-important microorganisms, diagnostic methods, signs and symptoms in infectious diseases	1	3

	Acute intestinal infections	2	3
	Botulism, yersiniosis, Leptospirosis	1	3
	Protozouri infections	1	3
	Influenza, acute respiratory infections	2	3
	Hepatitis	2	3
	<b>Midterm Exam</b>		2
2	Toxic nutritional infections	2	3
	Erysipelatous inflammations, anthrax	1	3
	AIDS and associated infections	2	3
	Meningococcal infection	2	3
	Sepsis	2	3
	Diagnosis and management of infectious and toxic shock	2	3
	<b>Final Exam</b>		2

### Learning Outcomes

Criteria	Competences
<b>Knowledge and understanding</b>	At the end of the course students will will have a deep knowledge about infectious diseases ethiopathogenesis, epidemiology, clinic, diagnosis, treatment and prevention. be able to: to explain the mechanisms of action of antimicrobial chemotherapeutics, clinical indications, prominent side effects and drug interactions.
<b>Applying knowledge</b>	Student will be able to: <ul style="list-style-type: none"> <li>• use the biochemical and microbiologic diagnostic methods of infectious diseases;</li> <li>• identify and differentiate prominent pathogens via the microscope;</li> <li>• determine the exact diagnosis and differential diagnosis,</li> <li>• design the quick action plan and to have fast response in case of especially dangerous diseases.</li> </ul>
<b>LEARNING SKILLS</b>	Is able to apply the full range of information resources, to manage their own learning process. Is aware of the need for constant updating of knowledge;
<b>Values</b>	Student will be able to demonstrate the ethical aspects of professional activity, analyze situation properly and make correct decision. Student will understand the different philosophical and religious attitude, the moral standards of society and the importance of individual values. The patient will be able to defend the

	rights of patients, support them and express the compassion. Is able to assess his/her attitude and contribute in the process in forming new values
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