



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Medical Laboratory Sciences
Course Syllabus

Course Information	
Course Title	Medical Microbiology Practical (1 credit hour)
Course Code	LM 223
Prerequisites	LM 221 (or co-requisite)
Course Website	http://www.just.edu.jo
Course Coordinator	Ms. Yasmeen Al-Shboul
Office Location	M1, L-2
Office Phone #	Ex. 23705
Office Hours	
E-mail	yashboul@just.edu.jo
Lab Supervisor	Master students
Course Description	
<p>This is a laboratory practical course introducing, among several topics, the principles of microbial/bacterial identification based on morphological, biochemical, growth pattern, and other properties. Students will experience performing bacterial isolation and culture, staining, biochemical testing, antimicrobial susceptibility testing, etc. Sessions involve discussions and demonstrations, followed by laboratory applications.</p>	

Textbook		
Title	Microbiology, A laboratory manual	
Author(s)	Cappuccino, Sherman	
Publisher	Pearson	
Year	2005	
Edition	7 th edition	
Book Website	www.aw-bc.com	
Assessment		
Assessment	Expected Due Date	Percentage
Midterm Exam	Week 7	40%
Evaluations, reports & quizzes	Week 3-12	20%
Final Exam	Week 15	40%

Course Content		
Week	Topics	Chapter in Textbook (handouts)
1	Course Introduction, General Microbiology laboratory & Safety Rules	Handouts
2	Microscopy & Examination of Stained cells	Handouts
3	Bacterial Staining, Direct & Indirect Simple Staining Techniques (Capsule Staining)	Handouts
4	Gram Staining	Handouts
5, 6	Acid Fast & Spore Staining	Handouts
7	Mid-term exam	Handouts
8	Nutritional Requirements, Media Types & Techniques for The Cultivation of Microorganisms	Handouts
9	Ubiquity of Microorganisms	Handouts
10	Physical & Chemical agents for The control of Microbial Growth. The Kirby-Bauer Antibiotic Sensitivity Test.	Handouts
11	Biochemical activities of Microorganisms 1	Handouts
11, 12	Biochemical activities of Microorganisms 2	Handouts
13	Revision	Handouts
14	Final Exam	
15, 16	University Final Exams	

Teaching & Learning Methods
<ul style="list-style-type: none"> • Power point lectures • Laboratory experiments <p>Teaching duration:</p> <ul style="list-style-type: none"> • 16 weeks; 3 hours/ week – lab practice

Reference(s) Handouts	
1. Handouts & e-learning	
2. Text book	
3. Additional reading-JUST library	

Useful Resources
Internet-links to Basic & Medical Microbiology lab.
Jordan University of Science and Technology Library

Nothing but the lab manual should be placed on the bench top. 3. The instructors will give a short lecture on the nature of the experiment to be performed and any special precautions that students should observe. 4. If working in pairs or groups, one member will obtain the required materials to be used and another student will obtain the required cultures. Cultures are to be transported in a test-tube rack and never carried by hand when moving about in the laboratory. 6. Plants should never be found in a microbiology laboratory. 4. Rapid and efficient manipulation of fungal cultures is required to prevent the dissemination of their reproductive spores (via aerosols) in the laboratory environment. Body Fluids When applicable, students should use their own body fluids. Industrial microbiology: The exploitation of microbes for use in industrial processes. . Laboratory equipment and work surfaces should be decontaminated with an. 7. A practical manual of soil microbiology laboratory methods, 1967. Page 1. Page 2. Page 3. Section 1. INTRODUCTION. Page 4. Page 5. Page 6. Page 7. Page 8. Page 9. Section 2. THE SOIL POPULATION - ANIMALS AND LABORATORY MANUAL. PURPOSE: Two diode application circuits, Clipper and Clamper circuits will be designed and performance of these will be investigated experimentally in the Laboratory Manual. Aug 31, 2010 - We have ... Laboratory Manual and Review on Clinical. Pathology. Author: Dr. Jelalu Kemal.

A great lab manual for the student or novice that wants to study microbiology. Lots of pictures and experiments. Bought as a gift. What other items do customers buy after viewing this item? Microbiology: A Laboratory Manual, Books a la Carte Edition (11th Edition) Loose Leaf. James G. Cappuccino. 4.8 out of 5 stars 9. General Microbiology Laboratory Manual. BIOL 142. By Paul W. Lepp. Second Edition. Biol 142 General Microbiology " Spring 2010. T. Able of. Before beginning to work with microorganisms it is important to understand the risks of working with potentially dangerous living organisms and working in a laboratory setting in general. The primary responsibility for your safety rests with you. You must understand and follow the rules outlined below, as well as, those provided by the instructor. The most important rule for staying safe in the laboratory is to use your common sense. You should become familiar with the location and use of the safety equipment in the laboratory which the instructor will point out. Lab Manual Overall Objectives. The objectives for each exercise of this Microbiology laboratory La LaboratoryManual for General Chemistry. 256 Pages 2013 5.83 MB 4,788 Downloads. to include diagrams of equipment set-ups because this may be the most added 50.00 mL DI water Laboratory Steels: Metallurgy and Applications, Third Edition. 403 Pages 1998 19.53 MB 27,163 Downloads New! STEELS provides a metallurgical understanding of commercial steel grades and the design Microbiology - Laboratory Exercises - justmed.eu. 449 Pages 2005 10.88 MB 6,022 Downloads. The an