



Pharmaceutical Microbiology
Title: Pharmaceutical Microbiology.
Course number: 222 PHT
Semester: Fourth Semester (Second year).
Duration: 3 + 1 Units (5 contact hours) per week.
Aims: To enable the student to understand general, medical and pharmaceutical microbiology.
Objectives: Upon successful completion of the course the student should know general aspects of bacteriology, virology, mycology, medical and pharmaceutical microbiology and parasitology.
Contents: Lectures: History, properties, classification, morphology, physiology, biochemistry of microorganisms. Genetics of microorganisms, viruses and fungi, culture media, growth and multiplication of these organisms. Medical microbiology, disinfection, antisepsis, preservation, sterilization, evaluation of antimicrobial agents, evaluation of drug and analytical microbiology, evaluation of antiseptics, preservatives, disinfectants, sterilants and antibiotics and their assays and parasitology.
Practical: Stains, culture media, bacteriological techniques, effect of antiseptics, evaluation and assay of antibiotics, identification of microbes and other related experiments.
Minimum course requirements: 45 (3 x 15) Unit lectures and 30 (2 x 15) practical hours per level.
Evaluation methods:



-Quizzes	10%
- Mid term examination	25%
- Practical examinations	25%
- Final examination (written)	40%
Text Books (latest editions):	
1- Fundamentals of Microbiology, Martin Frosbisher, Sander Company Philadelphia.	
2- Medical Microbiology, Patrick R. Murray, Ken S. Rosenthal, George S. Kobayashi, Michael A. Pfaller.	
3- Parasitology, Jack Chernin.	
Recommended books (latest editions):	
1- Microbiology: A Laboratory Manual, James G. Cappuccino, Natalie Sherman, San Francisco: Benjamin Cumming.	
2- Microbiology, J.R. Pelczar and E.C.Chan, McGraw-Hill, Book Company.	
3- Microbiology in Action, J. Jeritage.	
4- Microbiology for the Health Sciences, Macrus M. Jensen.	
5- Pharmaceutical Microbiology, Hugo W.B., Russel A.D., Blackwell Science.	
6- Medical Microbiology and Immunology L: Examination and Board Review, Warren Levinson, Ernst Jawetz, Boston: McGraw-Hill Inc.	