Course Specifications

General Information

Course name	ANTIBIOTICS
Course number	BIOL4288
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Know General principle of antimicrobial use

Intended Learning Outcomes

Knowledge and Understanding	* General principle of antimicrobial use, mechanism of antimicrobial resistance, antibiotic that inhibit cell wall & cell membrane & protein synthesis, antibiotics that affect nucleic acid & metabolites.

Course Contents

1 - General principle of antimicrobial use
2 - Mechanism of antimicrobial resistance
3 - Inhibitors of cell wall (beta-lactams Abs)
4 - Other inhibitors of cell wall (vancomycin, bacitracin, fosphomycin, cycloserine)
5 - Inhibitors of cell membrane (polymyxin B, imidazoles, amphotericin B)
6 - Inhibitors of protein synthesis (aminoglycosides, tetracyclines, macrolides)
7 - Clindamycin, stretogramins, chloramphenicol
8 - Inhibitors of nucleic acids (fluoroquinolones, nitroimidazoles)
9 - Antimetabolites (sulfonamides)
10 - rifamycin

Students Assessment

Assessment Method	TIME	MARKS
Assessment		30
Midterm Exam		30
Final Exam		40