

Course Title	Microbial biochemistry	
Course Code	BC5108	
Course type	Optional	
Academic Year	2016/2017	
Coordinator	Prof. Tarek M. Mohamed	
Other Staff	Mai El-Keiy	
Semester	Semester 2	
Level	Level one	
Pre-Requisite	BC5101	
Course Delivery	Lecture	14 x 1h lectures
	credit	1h
Parent Department	Chemistry Department	

Contents

	(one hour/week)
Lecture 1	Principles and practices of sterilization:
Lecture 2	Clean and aseptic areas and GMP
Lecture 3	Antimicrobial agents and their evaluation:
Lecture 4	Antimicrobial agents and their evaluation:
Lecture 5	Microbiological aspects of pharmaceutical processing
Lecture 6	Microbial Contamination and spoilage of Pharmaceutical Products
Lecture 7	Activity
Lecture 8	Traditional biotechnology:
Lecture 9	Molecular biotechnology: fundamentals of recombinant DNA technology
Lecture 10	Molecular biotechnology: production of therapeutically useful substances by recombinant DNA technology
Lecture 11	Additional applications of microorganisms in the sciences
Lecture 12	Microbiological Assays in Pharmacy. The principles and techniques of microbiological assays of drugs.
Lecture 13,14	Microbiological Tests in Pharmacy. The principles and techniques of microbiological analysis and tests; quality assessment of drugs, cosmetics and food.