



## Course Syllabus of Principles of Pharmacology

Faculty: Medicine and Health Sciences

Department: Health Sciences

Program: Bachelor in Medical Laboratory

### I. General information about the course instructor :

Name	Mohammed Battah	Office Hours(3 Hours Weekly)					
Location & phone number	2nd floor	Sat	Sun	Mon	Tue	Wed	Thu
Email	m.albattah@ust.edu				1		2

### II. General information about the course:

1.	Course Title :	Principles of Pharmacology				
2.	Course Code and Number :	BML234				
3.	Credit Hours :	Credit Hours				Total
		Theoretical	Seminar/Tutorial	Practical	Training	
		2	-	-	-	2
4.	Study Level and Semester:	2 <sup>nd</sup> level / 1 <sup>st</sup> semester				
5.	Pre-requisites :	None				
6.	Co-requisites :	None				
7.	Program in which the course is offered:	Bachelor in Medical Laboratory				
8.	Teaching Language:	English				
9.	Instruction location:	University of Science and Technology, Sana'a, Yemen				

جامعة العلوم والتكنولوجيا  
إدارة ضمان الجودة والاعتماد  
مصادقة  
APPROVED

عميد الكلية:  
د. عبد الله المخلافي

رئيس القسم:  
د. عبد الحبيب القباطي

المراجع:  
د. بثينة العمراني  
د. مجاهد نصار

الموصف:  
د. محمد بطاح

### III. Course Description

This course is intended as a basic concept to prepare students for understanding the information of general pharmacology, anti-microbial, different infectious diseases and different groups of Autocoids. The teaching will include lecture, collaborative learning, self-learning discussion and assignment. The students will be evaluated through report, written exam and Assignment evaluation.

### IV. Course Aims: This course aims to:-

1. Provides laboratory students with knowledge about basic sciences of drugs and pharmacology.
2. Assist student to choose the suitable antibiotics according to the site of infections.
3. Enable student to distinguish between different infectious diseases affecting body.
4. Enable student to work alone or within team.

### V. Course Intended Learning Outcomes (CILOs) :

1. Define the different terms in pharmacology and drugs.
2. Classify the different types of autocoids and drugs acting on them.
3. List the group of drugs used to treat the inflammations & gout as well as the best antibiotic used for infectious diseases
4. Match the suitable medication with the diagnosed disease
5. Design a therapy plan for covered inflammatory diseases based on the types of autocoids.
6. Compose the suitable regimens in diseases treatment according to pathogens and symptoms.
7. Interpret the rationale for choosing the suitable Antibiotics and other medication for different diseases based on sampling.
8. d1. Cooperate effectively while working with other health care professional



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المراجع :  
د. بثينة العمراني  
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## VI. Course Content

### First: Theoretical Aspects

No.	Course Topics/Units	Sub-topics	Week due	Contact Hours
1	Introduction (basic pharmacology)	pharmacodynamics & Drug receptors, Pharmacokinetics: absorption, distribution, metabolism and excretion, Route of drug administration Some important pharmacological terms	1 <sup>st</sup> - 4 <sup>th</sup>	8
2	Autocoids	Histamine and antihistamines, serotonin receptors agonist & antagonists Eicosanoids, and their uses, PAF, bradykinin	5 <sup>th</sup> - 6 <sup>th</sup>	4
3	Midterm Exam.		7 <sup>th</sup>	2
4	Anti-microbial agents	Introduction, Antibacterial agents, antifungal and antiviral	8 <sup>th</sup> - 11 <sup>th</sup>	8
5	Drugs used to treat the inflammations & gout	Non-steroidal anti-inflammatory drugs (NSAIDs), Anti-gout drugs	12 <sup>th</sup> - 14 <sup>th</sup>	6
6	Final exam.		15 <sup>th</sup>	2
		Total	15	30