

Department of Respiratory Care

Course Specification of applied Pharmacology

Course No. (02 01 827)

2023/2024

LXXII. Course Description:

This course introduces the fundamental principles of pharmacology and focuses on the medications used in respiratory care. Students will explore drug classifications, mechanisms of action, routes of administration, indications, side effects, and contraindications of common respiratory medications. The course covers bronchodilators, anti-inflammatory agents, mucolytics, and other drugs relevant to the treatment of respiratory diseases. Emphasis is placed on the safe and effective administration of aerosolized medications, patient education, and the role of respiratory drugs in critical care settings.

V. Course Content:

Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	WeekDue	Contact Hours
1	• Basic Concepts and Principles in Pharmacology	1	2
2	• Administration of Aerosolized Agents	2	2
3	• Central and Peripheral Nervous Systems	3	2
4	• Adrenergic (Sympathomimetic) Bronchodilators	4	2
5	• Anticholinergic (Parasympatholytic) Bronchodilators	5	2
6	• Mucous controlling drug therapy	6	2
7	• Xanthine and surfactant	7	2
8	• Midterm Exam	8	2
9	• Corticosteroids	9	2
10	• Nonsteroids antiasthma drugs	10	2
11	• Aerosol anti infective	11	2
12	• Antimicrobial agent	12	2
13	• Cold and cough agent	13	2
14	• Critical Care pharmacology	14	2
15	• Cardiovascular pharmacology and Selected Agents of Pulmonary Value,	15	2
16	• Final exam	16	2
Number of Weeks /and Units Per Semester		16	32

B - Practical Aspect: (if any)				
S	Tasks/ Experiments	Number of weeks	contact hours	CILOs
1	Not applicable	-	-	-
TOTAL		-	-	-
Number of Weeks /and Units Per Semester		-	-	-

VI. Teaching strategies of the course:

- 105. Lecture method
- 106. Brainstorming
- 107. Demonstration
- 108. Case study discussions

LX. Schedule of Assessment Tasks for Students during the Semester

Theoretical part

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance and Activities	15 th week	5	5%	a, b
2	Student assignment	5 th and 12 th week	5	5%	b
3	Mid-term exam	7 th or 8 th week	20	20%	a, b
4	Final exam	16 th -17 th week	70	70 %	a, b, c, d
Total Theory Weight			100	100%	