



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Respiratory Therapy Department

RTH362 Cardiac And Respiratory Diseases - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 Credit Hours. This course provides students with a profound understanding of the etiology, risk factors, pathophysiology, clinical assessment and diagnostic procedures, treatment modalities, current research, and emerging therapies for a spectrum of disorders affecting the cardiovascular and respiratory systems. Discuss some diseases of the nervous system that affect breathing and conditions related to direct and indirect effects on the respiratory system. This course combines didactic lectures with case studies, and interactive discussions to enhance critical thinking and problem-solving skills. By the end of the course, students will be well-equipped with the basic knowledge and skills necessary to assess and formulate effective treatment plans to contribute to comprehensive care for patients with cardiac and respiratory diseases.

Teaching Method: On Campus

Text Book

Title	Egan's Fundamentals of Respiratory Care
Author(s)	Robert Kacmarek, James Stoller and Albert Heuer
Edition	12th Edition
Short Name	Ref #1
Other Information	Year,2021. Publisher: Elsever

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Brunner & Suddarth's Textbook of Medical-Surgical Nursing	Brunner & Suddarth's	15th Edition	Year,2022. Publisher: North America Edition Philadelphia: J.B. Lippincott.

Instructor

Name	Dr. Ala Ashour
Office Location	-
Office Hours	

Email	afashour@just.edu.jo
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Class Schedule & Room
<p>Section 1: Lecture Time: Mon, Wed : 08:30 - 10:00 Room: N1302</p> <p>Section 2: Lecture Time: Mon, Wed : 11:30 - 13:00 Room: M1301</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
1163130	RTH313 Respiratory Physics	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Upper Respiratory Tract Infections (URTI)	From Ref #2
Week 2	Lower Respiratory Tract Infections (LRTI)	From Ref #1 , From Ref #2
Week 3	Obstructive Lung Diseases	From Ref #1 , From Ref #2
Week 4	A. Lung Diseases. B. Interstitial Lung Disease (ILDs)	From Ref #1
Week 5	Pleural Diseases	From Ref #2
Week 6	Pulmonary Vascular Disease	From Ref #1 , From Ref #2
Week 7	Acute Respiratory Distress Syndrome (ARDS)	From Ref #1
Week 8	Respiratory Management of Trauma, Obesity, Near Drowning, and Burns	From Ref #1
Week 9	Lung Cancer	From Ref #1
Week 10	Neuromuscular and Other Diseases of the Chest Wall	From Ref #1
Week 11	A. Disorders of Sleep B. Acute Respiratory Failure (ARF)	From Ref #1 , From Ref #2
Week 12	Heart Failure (HF) Pericardial Effusion and Cardiac Tamponade	From Ref #2
Week 13	Coronary Artery Diseases (CAD)	From Ref #2
Week 14	Hypertension (HTN)	From Ref #2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Memorize the anatomical structures and physiological functions of the respiratory and cardiovascular systems. [100PLO 1] [100L7K1]	5%	
Discuss the pathophysiology and common signs and symptoms associated with respiratory and cardiac disorders. [1PLO 1] [50L7K1, 50L7S2]	5%	
Describe the principles of diagnostic testing for respiratory and cardiac conditions	5%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
10						

Relationship to NQF Outcomes (Out of 100%)	
L7K1	L7S2
7.5	2.5

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during a lecture, leaving a lecture before its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied to cases of cheating and/or plagiarism
Cell phone	The use of cellular phones is prohibited in classrooms and during exams. The cellular phone must be switched off in classrooms and during exams.
Attendance	No points will be counted for points attendance in this class, however, attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!
Absences	University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulations for more details)
Make-up Exam	Make-up exams are entitled to students who miss the exam with an accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulations for more details).
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important to the instructor. You can contact your instructor using the e-mail or during office hours.