



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

RTH352 Respiratory Care For Children And Newborns

Second Semester 2023-2024

Course Catalog

3 Credit Hours. This course is designed to cover major aspects of neonatal and pediatric respiratory care such as fetal lung development circulation, and cardiopulmonary transition at birth. NRP and PALS, and N & P assessment, respiratory care procedures, common respiratory diseases in neonates, pediatrics, and their proper management. This course also focuses on introducing the student to how to deal with newborns and children. Emphasis is placed on artificial respirators for this category, as well as chest physical therapy procedures, blood gases, and medical conditions related to them.

Teaching Method: On Campus

Text Book

Title	Neonatal and Pediatric Respiratory Care
Author(s)	Walsh, B. K.
Edition	6th Edition
Short Name	Ref #1
Other Information	Year,2022. Publisher: Elsever

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Egans Fundamentals of Respiratory Care	Robert Kacmarek, James Stoller and Albert Heuer	12th Edition	Year,2021. Publisher: Elsever

Instructor

Name	Dr. Ala Ashour
Office Location	-
Office Hours	
Email	afashour@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 14:30 - 16:00 Room: N1303

Prerequisites		
Line Number	Course Name	Prerequisite Type
1163450	RTH345 Pulmonary Radiography Practical	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Fetal lung development	From Ref #1 , From Ref #2
Week 2	Fetal Gas Exchange and Circulation	From Ref #1
Week 3	Antenatal Assessment and High-Risk Delivery	From Ref #2
Week 4	Examination and Assessment of the Neonatal and Pediatric Patient	From Ref #1 , From Ref #2
Week 5	First Exam	
Week 6	Oxygen Administration, Administration of Gas Mixtures	From Ref #1 , From Ref #2
Week 7	Aerosols and Administration of Inhaled Medication	From Ref #1
Week 8	Airway Clearance Techniques and Hyperinflation Therapy	From Ref #1 , From Ref #2
Week 9	Second Exam	
Week 10	Airway Management / Surfactant Replacement Therapy	From Ref #1 , From Ref #2
Week 11	Noninvasive Mechanical Ventilation and Continuous Positive Pressure	From Ref #2
Week 12	Invasive Mechanical Ventilation	From Ref #2
Week 13	Neonatal and Pediatric Respiratory Disorders: Presentation, Diagnosis, and Treatment	From Ref #1
Week 14	Neonatal and Pediatric Respiratory Disorders: Presentation, Diagnosis, and Treatment	From Ref #1

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

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 point?s 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

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