



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

RTH224 Respiratory Care Techniques - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This course focuses on learning the fundamental knowledge and skills required to provide general respiratory care for patients suffering from respiratory disorders. Students will learn various techniques, including but not limited to basic and advanced airway management techniques.

Teaching Method: On Campus

Text Book

Title	EGAN'S Fundamentals of Respiratory Care
Author(s)	Kacmarek R. M., Stoller J. K., Heuer A. J.
Edition	12th Edition
Short Name	Ref #1
Other Information	2021, Elsevier

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	MOSBY's Respiratory Care Equipment	Cairo, J. M.	11th Edition	2021

Class Schedule & Room

Section 1:
 Lecture Time: Tue, Thu : 09:30 - 10:30
 Room: N1302

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Basic Airway Management: Positioning, and Airway adjuncts	chapter 37 From Ref #1

Week 2	Airway management: Suctioning, Manual and Gas-powered resuscitator	chapter 37 From Ref #1
Week 3	Advance Airway management 1: Endotracheal intubation	chapter 37 From Ref #1
Week 4	Advance Airway management 2: Tracheotomy, and Alternative Airway Appliances	chapter 37 From Ref #1
Week 5	Physiology of Airway Clearance Therapies	chapter 44 From Ref #1
Week 6	Airway Clearance Therapy: Indications and Techniques	chapter 44 From Ref #1
Week 7	Lung Expansion Therapy1: Indications	chapter 43 From Ref #1
Week 8	Lung Expansion Therapy 2: Baseline Assessment and Devices	chapter 43 From Ref #1
Week 9	Lung Expansion Therapy: Initiation and Approach Selection	chapter 43 From Ref #1
Week 10	Aerosol Drug Therapy 1: Indication, Contraindications and Equipment	chapter 40 From Ref #1
Week 11	Aerosol Drug Therapy 2: Aerosol Drug Delivery Systems	chapter 40 From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Explain the rationale and the techniques for performing airway management, including positional maneuvers and airway adjuncts. [1PLO 2] [1L7S2, 1L7C4]	10%	
Identify the indications, contraindications, and potential complications related to the placement of artificial airways. [1PLO 1, 1PLO 2] [1L7K1, 1L7S2, 1L7C4]	20%	
Recall and list the indications, precautions, and potential complications associated with airway clearance and lung expansion therapies. [1PLO 1, 1PLO 2] [1L7K1, 1L7S2, 1L7C4]	20%	
Articulate the rationale behind airway clearance and lung expansion therapies, as well as demonstrate proficiency in describing the various techniques employed in these therapeutic interventions. [1PLO 1, 1PLO 2] [1L7K1, 1L7S2, 1L7C4]	15%	
Develop personalized airway clearance therapy plans, considering diagnosis, disease severity, and patient preference, to ensure treatment efficiency and adherence. [1PLO 4, 1PLO 5] [1L7S1, 1L7S2, 1L7S3, 1L7C2, 1L7C3]	15%	
Describe the indications, initiation, and modification of aerosol drug therapy, to demonstrate comprehension of essential concepts in respiratory care practice. [1PLO 1, 1PLO 2] [1L7K1, 1L7S2, 1L7C4]	10%	
Demonstrate and instruct patients to self-administer drug aerosol therapy and evaluate patients? technique of inhaler devices, to ensure safe and effective therapy. [1PLO 4, 1PLO 6] [1L7S3, 1L7C1, 1L7C3, 1L7C4]	10%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
32.5	42.5		12.5	7.5	5	

Relationship to NQF Outcomes (Out of 100%)							
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4
21.67	3	29.67	5.5	2.5	3	5.5	29.17

Policy	
Academic integrity	<p>All graded exams and documentation must be your own work. Helping other students to cheat in any way or form will not be tolerated. If we become aware of any violations of these rules, we will initiate the actions described in the Policy of Academic Integrity. Each student is responsible for having their daily documentation signed by their preceptors at each department, unit, or station.</p>
Attendance	<p>Regular attendance in both classroom and laboratory sessions is obligatory. Students who have unexcused absences will receive a written warning. Subsequent unexcused absences may lead to dismissal from the program, following the attendance policies detailed in the college catalogue. According to the JUST policy, if a student misses more than 10% of classes without excuse, the faculty member must assign a grade of zero.</p>

Date Printed: 2024-02-28