



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

RTH226 Respiratory Care Techniques Practical - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. The respiratory care techniques lab provides a hands-on educational environment designed to complement theoretical knowledge with practical skills in the field of respiratory care. Students will engage in a series of interactive sessions covering fundamental respiratory care techniques and procedures, including but not limited to airway management techniques and artificial airway insertion 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	Publisher: Elsevier 2021

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Basic clinical lab competencies for respiratory care: an integrated approach	White, G.C.	5th Edition	

Class Schedule & Room

Section 1:
Lecture Time: Tue : 12:30 - 14:30
Room: LAB

Section 2:
Lecture Time: Tue : 10:30 - 12:30
Room: LAB

Section 3:
Lecture Time: Thu : 14:30 - 16:30
Room: LAB

Section 4:
Lecture Time: Thu : 10:30 - 12:30
Room: LAB

Section 5:
Lecture Time: Thu : 12:30 - 14:30
Room: LAB

Section 6:
Lecture Time: Tue : 14:30 - 16:30
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Basic Airway Management: Positioning, and Airway adjuncts	chapter 37 From Ref #1 , chapter 20 From Ref #2
Week 2	Airway management: Suctioning, Manual and Gas-powered resuscitator	chapter 37 From Ref #1 , chapter 21 From Ref #2
Week 3	Advance Airway management 1: Endotracheal intubation	chapter 37 From Ref #1 , chapter 21 From Ref #2
Week 4	Advance Airway management 2: Tracheotomy, and Alternative Airway Appliances	chapter 37 From Ref #1 , chapter 21 From Ref #2
Week 5	Physiology of Airway Clearance Therapies	chapter 44 From Ref #1 , chapter 16 From Ref #2
Week 6	Airway Clearance Therapy: Indications and Techniques	chapter 44 From Ref #1 , chapter 16 From Ref #2
Week 7	Lung Expansion Therapy1: Indications	chapter 43 From Ref #1 , chapter 17 From Ref #2
Week 8	Lung Expansion Therapy 2: Baseline Assessment and Devices	chapter 43 From Ref #1 , chapter 17 From Ref #2
Week 9	Lung Expansion Therapy: Initiation and Approach Selection	chapter 43 From Ref #1 , chapter 17 From Ref #2

Week 10	Aerosol Drug Therapy 1: Indication, Contraindications and Equipment	chapter 40 From Ref #1, chapter 15 From Ref #2
Week 11	Aerosol Drug Therapy 2: Aerosol Drug Delivery Systems	chapter 40 From Ref #1, chapter 15 From Ref #2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Perform various airway management techniques proficiently to establish and maintain a patent airway. [1PLO 2] [1L7S2, 1L7C4]	10%	
Demonstrate proficiency in performing endotracheal and nasotracheal suctioning by performing the procedure accurately and safely. [1PLO 2] [1L7S2, 1L7C4]	10%	
Differentiate types of artificial airways and select the optimal artificial airway for respiratory compromised patients based on the clinical scenarios. [1PLO 5] [1L7S1, 1L7C2]	10%	
Apply appropriate techniques to assess, confirm, and maintain artificial airway patency, besides troubleshooting and managing any placement issue of the artificial airways proficiently. [1PLO 2, 1PLO 5] [1L7S1, 1L7S2, 1L7C2]	10%	
Practice various airway clearance techniques, taking into consideration the patient's medical history, characteristics, and preferences. [1PLO 5] [1L7S1, 1L7S2, 1L7C2]	20%	
Discuss the roles of respiratory therapists in planning, implementing, and evaluating lung expansion therapy. [1PLO 1, 1PLO 2] [1L7K1, 1L7S2, 1L7S3, 1L7C4]	20%	
Describe the initiation, and modification of the aerosol drug therapy, to achieve safe and accurate delivery of the therapeutic dose. [1PLO 1, 1PLO 6] [1L7K1, 1L7S3, 1L7C1, 1L7C4]	20%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
20	35			35	10	

Relationship to NQF Outcomes (Out of 100%)						
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	L7C4
10	15	25	10	5	15	20

Policy	
Academic integrity	All graded clinical forms 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.

Attendance	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.
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