



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
كلية العلوم الطبية التطبيقية بالجبيل
College of Applied Medical Sciences in Jubail

Respiratory Care Program Students Handbook

برنامج الرعاية التنفسية
كتيب الطالبات

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History of Program Establishment

The Respiratory Care program in Jubail was started with the establishment of the College of Applied Medical Sciences in Jubail in 2017. The RC program aims to serve the local community by meeting the demand of the profession in the region.

The program prepares the graduates to be valuable members in the health care team, who are qualified to deal with various acute and chronic cardiopulmonary conditions in age groups ranging from newborns to the elderly.

The curriculum structure was guided by the required competencies of the respiratory care graduates, which was published by a panel from experts in the field. The competencies are covered through four years of lectures, laboratory practices, and clinical training. This is followed by a year of internship. The department collaborates with several national hospitals and medical centers for the clinical training and internship of students.



Faculty and Specialists Contact Information

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<https://www.iau.edu.sa/en/colleges/college-of-applied-medical-sciences-jubail/faculty>



Vision, Mission, and Program Goals

Vision

To be a leading program in the region, which is capable to serve the profession, the patients, and the community.

Mission

To graduate Respiratory Care Professionals competent in creative knowledge, research, and community service while observing Islamic values who can meet all national and international standards of the profession.

Program Goals

The program's goals are to complement the mission statement of the Respiratory Care department as follows:

1. Provide quality education in respiratory care.
2. Prepare respiratory care professionals that meet regulatory standards.
3. Exhibit ethical behavior in accordance with Islamic values.
4. Promote scientific research.
5. Promote social responsibility with effective community partnership



Program Learning Outcomes

Knowledge

- K1** Reproduce information related to the field of respiratory care.
- K2** Define concepts, theories, and principles of relevant specialties related to respiratory care.

Skills

- S1** Apply critical thinking and problem-solving skills to establish, evaluate, and modify respiratory care plan.
- S2** Demonstrate effective communication skills.
- S3** Produce scientific research and evidence-based protocols.
- S4** Utilize health information systems and biomedical technology to provide respiratory care services.
- S5** Operate and troubleshoot devices and equipment related to respiratory care.

Values

- V1** Demonstrate effective teamwork, leadership, and management skills.
- V2** Demonstrate academic integrity and work ethics through the commitment to Islamic values.
- V3** Establish professionalism, social responsibility, and accountability.



Graduates Attributes

The following are the graduate attributes identified for the Respiratory Care graduates:

1. Commits to the Islamic identity, compelled with ethical, legal, and cultural values.
2. Demonstrates social responsibility.
3. Engages in continuous learning and development within the field of RC.
4. Exhibits professionalism and effective communication skills.
5. Assumes leadership roles and be an active team member.
6. Shows initiative and determination.
7. Exercises critical thinking and problem-solving skills.
8. Employs digital, numerical and information technology towards the field of RC.

Admission Requirements

The student must successfully pass the preparatory year. The university council determines the number of students to be admitted based on the recommendations presented by the college council. Acceptance to the program is based on the available vacancies and grade point (GPA). A GPA not less than 3 out of 5 at the end of the preparatory year. Priority is offered to students according to GPA.



Program Study Plan

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours	Type of Requirement
1	ENGL 101	English Language	None	7	Institution
	BIOL 102	Biology		3	Institution
	CHEM 103	Chemistry		2	Institution
	PHYS 104	Physics		2	Institution
	PHEDU 162	Physical Education and Health		1	Institution
	ISLM 181	Creed and Ethics		2	Institution
2	ENGL 101	English Language	None	7	Institution
	BIOL 102	Biology		3	Institution
	CHEM 103	Chemistry		2	Institution
	PHYS 104	Physics		2	Institution
	COMP 111	Computer Skills		3	Institution
	ISLM 182	Arabic Language Skills		2	Institution
3	ENGL 101	English Language	None	7	Institution
	ENGL 102	English for Academic and Specific Purpose		4	Institution
	BIOL 102	Biology		3	Institution
	CHEM 103	Chemistry		2	Institution
	PHYS 104	Physics		2	Institution
	LRSK 141	Learning & Communication Skills		3	Institution
4	ISLM 282	Islamic Ethics and Values	None	2	Institution
	RT 215R	Introduction to RC Profession		2	Department
	ANAT 213R	Anatomy		3	College
	PHYL 214R	Physiology		4	College



Program Study Plan

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours	Type of Requirement
5	RT 216R	Medical Gas Therapy	None	3	Department
	RT 221R	Respiratory Anatomy and Physiology	ANAT 213R PHYL 214R	3	Department
	HIST 281	History and Civilization of KSA	None	2	Institution
	MLT 212R	Microbiology		2	College
	BIOCH 211	Biochemistry		2	College
6	RT 222	Patient Assessment	RT 221	3	Department
	RT 224R	Respiratory Care Therapeutics		4	Department
	RT 225	Clinical Practice I		3	Department
	PSYCO 226	Behavioral Sciences	None	2	College
7	RT 311R	Intro to Mechanical Ventilation	None	4	Department
	HIMT 322	Health Information System		2	Department
	RT 312	Respiratory Diseases I	RT 221R	3	Department
	RT 314R	Blood Gases	RT 221R	3	Department
8	RT 321	Management of Mechanical Ventilation	None	4	Department
	PHARM 312R	Respiratory Pharmacology	RT 221R	3	Department
	RT 315	Clinical Practice II	RT 311R RT 314R RT 225	3	Department
	BUS 381	Entrepreneurship	None	2	College



Program Study Plan

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours	Type of Requirement
9	RT 323	Respiratory Diseases II	RT 312	3	Department
	RT 324R	Basic Pulmonary Function Testing	None	3	Department
	RT 325	Clinical Practice III	RT 315	3	Department
	HIMT 329	Biostatistics	None	2	College
10	RT 411R	Neonatal & Pediatric Respiratory Care	None	3	Department
	RT 413R	Advance Pulmonary Function Testing		3	Department
	RT 415	Clinical Practice IV	RT 325	3	Department
	HIMT 416R	Research Methodology	None	2	Department
11	RT 412R	Ethics in Respiratory Care	None	2	Department
	RT 423R	Cardiopulmonary Intensive Care		4	Department
	RT 414	Pulmonary Rehabilitation	RT 323	3	Department
	HIMT 424R	Management in Health Care Org.	None	2	Department
12	RT 421R	Fundamentals of Polysomnography	None	3	Department
	RT 422R	Respiratory Care Examination Review		3	Department
	RT 425	Clinical Practice V	RT 415	3	Department
	RT 426R	Research Project	None	3	Department



Course Descriptions

First Year

❖ English Language

The purpose of this course is to build a comprehensive foundation of understanding about the process which will form the basis for connecting subsequent course work to the practice of the language in reading, writing and listening, both orally and in writing.

❖ English for Academic and Specific Purpose

The purpose of this course is to build a comprehensive foundation of understanding medical terminology about the process which will form the basis for connecting subsequent course work to the practice of the language in reading, writing and listening, both orally and in writing.

❖ Physics

This course aims to enable the students to understand the basic physical principles and their relations to the daily life activities, especially to those related to the future career of the students and to develop scientific thinking in all aspects of the student's life.

❖ Chemistry

This course covers the basic concepts, matter, units of the measurement, equations, atomic and molecular weights, chemical calculations, structure of the atom, periodic properties of the element, chemical bonding and molecular geometry, reactions in solutions and their calculations, gases, acids and bases.

❖ Biology

The course is designed to introduce students to the major discipline of the biology. It begins with an Introduction to the properties of the living and nonliving things. The course covers aspects of cell structure, cell membrane, transport processes, in and out of the cell as well as cell division.

❖ Creed and Ethics

The curriculum targets the definition of the main concepts to the Islamic culture and their axes, the clarification of the pillars of the Islamic culture and the Islamic attitude from the other cultures, the study of the contemporary challenges that face the Islamic culture and the Islam attitude from them, the notification of the human rights in Islam and the clarification of their importance and their sources and the clarification of the Kingdom of Saudi Arabia attitude from the Universal Declaration of Human Rights.



Course Descriptions

First Year

❖ Physical Education and Health

This course shows the importance of sports and its impact on human health and how playing sports helps to maintain human health.

❖ Learning and Searching skills

This course is designed to help new students in the college of Applied Medical Science develop basic skills needed to successfully complete their training. These skills consist, mainly, of effective reading, note taking, stress and time management, memory building, presentation skills, and preparing for exams. Students will be given the chance to apply these skills in their first biology course. This training will help the students perform better academically. The techniques learned in this first course will be applied to other courses as well.

❖ Arabic Language Skills

The course focuses on four main axes: discussing the problems of practicing the Arabic language, speaking and writing, writing and spelling rules, language skills through the study of texts, and applied skills in the Arabic language.

Second Year

❖ Physiology

This course is designed to provide the student with basic knowledge of the normal function of the human body and what takes place when disease or illness disrupts the normal processes. Basic aim is to highlight the relationship between systems and how they help to maintain the functioning of the whole body. Special emphasis is laid on homeostasis and the control systems that maintain it.

❖ Introduction to Respiratory Care Profession

This course introduces students to the profession of respiratory care, history of the profession, job description, and structure of the profession. In addition, basic knowledge about respiratory equipment will be provided.

❖ Anatomy

This course provides general scientific knowledge concerning normal structure of human body systems. In addition, it gives basic knowledge about surface markings and radiological anatomy of the important structures and skeleton. It also provides basic principles for the understanding some clinical findings in relation to anatomical basis.



Course Descriptions

Second Year

❖ Islamic Ethics and Values

The course deals with virtuous morals, values and morals in practice, and the legal rooting of them from the Qur'an and Sunnah, and agreement with common sense, moderation and community identity, , related skill and applied activities. Society in morals and values and applying the student's knowledge balance in practice.

❖ Medical Gas Therapy

This course provides core knowledge of different therapeutic modalities and procedures such as oxygen therapy, humidity, medical gases, and oxygen analyzers. The course also introduces students to the principle of infection control.

❖ Biochemistry

This course will enable students to understand the basic process of life in molecular terms using the cell as a unit of molecular study, recall the major metabolic diseases and summarize the molecular basis of diseases. In addition, students will be able to distinguish between normal and abnormal metabolic pathways. They will have the ability to lead a group of students in accomplishing an assignment. In addition, students will have the confidence to challenge other people's views and appreciate the impact of information technology on the practice of their specialty.

❖ Microbiology

The course will introduce the basic concepts of the microbial world, with emphasis on common infectious diseases, immune system and immune response, antibiotics, antimicrobial resistance, vaccination, infection control and sterilization.

❖ History and Civilization of KSA

The course includes a review of the historical and civilizational aspects of the Kingdom of Saudi Arabia and its cultural heritage, the efforts of its rulers in building the political and civilized state and their role in serving Arab, Islamic, and humanitarian causes, and achieving Vision 2030 in the field of tourism and national heritage.



Course Descriptions

Second Year

❖ **Respiratory Anatomy and Physiology**

This course provides background, coherent knowledge and concepts of respiratory system anatomy and cardiopulmonary physiology that students require to progress in the comprehensive curriculum of respiratory care. Students will become acquainted with the physiological aspects of including pulmonary ventilation and circulation, physical principles of gas exchange, transport of gases, and regulation of respiration, acid base balance and arterial blood gases, and alteration of these physiological principles in different pulmonary pathophysiology.

❖ **Patient Assessment**

This course provides an introduction to examination skills and techniques used in diagnosis of pulmonary disease. The course involves study of patient respiratory history, physical examination of the chest, radiological & laboratory assessment and documentation of the data in the medical chart.

❖ **Respiratory Care Therapeutics**

This course provides core knowledge of essential respiratory care procedures such bronchial hygiene therapy, aerosol therapy, airway management, and manual/gas powered resuscitators; Also, it will aid the student to understand the application, indications & contraindications, hazards, and complications of these procedures.

❖ **Clinical Practice I**

Clinical Practice Course I is designed for the students in which they will be exposed to the hospital environment and experience contact with other health care professionals and ancillary personnel. During this course, they will be participating with various respiratory care procedures involving from initial patient assessment up to the application of the required therapy. Students will be tasked to perform certain procedures inherent to your function as respiratory therapist. They will apply the theoretical concepts of respiratory care.

❖ **Behavior Sciences**

This course provides the students with an understanding of the psychological/behavioral and social components of health and illness. The focus is laid on understanding the complexity of relationships between healthcare provider, patients, their families, the community with the health issues.



Course Descriptions

Third Year

❖ Introduction to Mechanical Ventilation

This course aims to provide students with introductory knowledge about mechanical ventilation. Basic concepts of ventilator structure and function will be described and used as a foundation for subsequent semesters. Students are expected to gain fundamental knowledge and skills necessary to operate and monitor basic modes of mechanical ventilation.

❖ Respiratory Disease I

This course was designed to provide students with an overview of some respiratory diseases including, diseases of the airways, infectious diseases of the lung, and neoplastic lung diseases. Students will become acquainted with the pathogenesis, pathophysiology, clinical pictures, investigations procedure and line of treatment for these diseases.

❖ Blood Gases

This course introduces students to the concept of acid-base and blood gas interpretation. It also teaches fundamental principles of blood gases physiology, sampling techniques, sample analysis, and interpretation of results.

❖ Health Information System

This course will explore the concepts and applications of major information systems methodologies and approaches in the delivery of modern healthcare systems and their application in respiratory care technology. The course provides an overview of various health information systems, with emphasis on case studies of systems utilized in areas such as respiratory care, clinical decision-support, disease surveillance, imaging, and patient safety. Legal and ethical issues related to security, confidentiality, and the uses of informed consent are also addressed.

❖ Respiratory pharmacology

This course introduces the student to understand the basic principles of pharmacology, its terminology and the systems set to control and promote safety and quality of drug use. In addition, students will be able to understand the mechanisms of drug action and to appreciate the principles of pharmacokinetics and the mechanisms underlying adverse drug reactions, interactions and toxicities. Students will also be introduced to the mechanisms and side effects of drugs acting on various systems, such as, the autonomic nervous system, cardiovascular system, gastrointestinal tract, endocrine system.



Course Descriptions

Third Year

❖ **Clinical Practice II**

The course is designed to facilitate clinical exposure to the various wards or units of the clinical affiliate. During the course, students will be tasked to observe, assist, and perform various respiratory care procedures. These procedures will be based on the performance objective set in the clinical practice course and comprises mainly the topics airway management, bronchial hygiene therapy, airway suctioning, arterial blood sampling and interpretation. In addition, students will apply the theoretical concepts of general indication, function of Mechanical ventilator (modes, parameters, alarms, and graphics), process of weaning, and extubation.

❖ **Management of Mechanical Ventilation**

This course is a continuation to the course: Introduction to Mechanical Ventilation, with emphasis on advanced modes used in mechanical ventilation of various disease states, neonatal, home care, and long-term ventilation. The course also puts emphasis on management strategies of mechanical ventilation according to disease entities.

❖ **Entrepreneurship**

The course deals with the concept of entrepreneurial thought and the importance of entrepreneurship on the personal and economic levels. It reviews how to transform ideas into applied projects in accordance with the foundations and plans for establishing sound commercial projects, and achieving the Kingdom's 2030 vision in the field of creating job opportunities by supporting entrepreneurship. The course aims to introduce the principles and foundations of entrepreneurship and its practical applications and find pioneering solutions to existing social problems, in addition to acquiring the basic skills to run any entrepreneurial project successfully.

❖ **Respiratory Disease II**

This course was designed to provide students with an overview of some respiratory diseases including lung cancer, ARDS and respiratory failure. Students will become a quested with the pathogenesis, pathophysiology, clinical pictures, investigations and line of treatment for these diseases.



Course Descriptions

Third Year

❖ **Basic Pulmonary Function Testing**

This course the students will be introduced to diagnostic tests performed in the pulmonary function lab, providing them with the basic technical skills of pulmonary function testing including an introduction to instrumentation, physical principles of clinical measurements, procedures for measuring the lung functions for ventilation and mechanics of breathing, clinical application of spirometry, flow volume loops, bronchodilator response and interpretation of test results together with their relation to various pathophysiology's.

❖ **Clinical Practice III**

Clinical Practice III provides a challenging new phase to clinical practice as the students will be having the opportunity to experience critical care management. The advanced respiratory care procedures require the student to develop further their critical thinking skills as well as prepare them mentally, psychologically and emotionally to provide respiratory care to critically ill patients in need of mechanical ventilation and other advanced cardiopulmonary life support within the scope of respiratory care. It also provides experience on the basic and advanced cardiopulmonary function testing.

❖ **Biostatistics**

This course introduces basic statistical concepts that include both descriptive and inferential statistics. The course is intended to qualify students to professionally conduct and evaluate health related and biomedical research starting from learning sampling techniques, to collecting, managing, presenting data, analyzing, and interpreting results. Specific topics include tools for describing central tendency and variability, probability and probability distributions, hypothesis testing, methods for performing inference on population means and proportions, correlation and regression.

Fourth Year

❖ **Neonatal and Pediatric Respiratory Care**

This course is designed to cover major aspects of neonatal and pediatric respiratory care. The course involves the study of topics about fetal lung development, fetal circulation, cardiopulmonary transition at birth, neonatal and pediatric resuscitation, neonatal and pediatric assessment, respiratory care procedures, common respiratory diseases in neonates and pediatrics and their proper management.



Course Descriptions

Fourth Year

❖ **Advance Pulmonary Function Testing**

This course focuses on the measurement of lung volumes indirectly [gas dilution techniques and body plethysmograph]. It also describes the measurement of pulmonary diffusing capacity using small volumes of carbon monoxide (DLCO). Diagnosis of specific pulmonary disorders requires that appropriate tests be performed. For example, forced expiratory volume in 1 second (FEV1) may be analyzed after inhalation challenge (methacholine) or exercise to quantify airway reactivity. Finally, cardiopulmonary exercise testing allows evaluation of the heart and lungs under the conditions of increased metabolic demands.

❖ **Clinical Practice IV**

Clinical Practice IV provides a whole new clinical experience for respiratory care students. They will be dealing with the same respiratory care procedures; these are applied to neonatal and pediatric patients.

❖ **Research Methodology**

This course provides students with the fundamentals of performing research, starting with the research question to final dissemination of research results, ethical aspects of research and writing a research proposal will be addressed. Further, students will work in groups to prepare a proposal for the research project that will be carried out in the following semester.

❖ **Ethics in Respiratory Care**

This course provides students with introductory knowledge about ethical and legal issues in health care. Implications of ethical and moral issues in respiratory care are emphasized in this course. The aim is to increase awareness of Respiratory Care practitioners for ethical dilemmas, professional communications, and critical decisions encountered during clinical practice. Medical ethics from Islamic perspective and some important Islamic ruling in contemporary medical issues are also covered in this course.

❖ **Pulmonary Rehabilitation**

This course is designed to provide students with comprehensive information on the structure of pulmonary rehabilitation program and the role of the respiratory care practitioner in this program. This course provides information about the pharmacological and nutritional profile of chronic pulmonary disorders, smoking cessation program, travel with pulmonary disorders, health education, therapeutic respiratory exercise and respiratory home care.



Course Descriptions

Fourth Year

❖ **Cardiopulmonary Intensive Care**

This course provides the students with core knowledge with different essential monitoring and diagnostic techniques and modalities for patients with cardiopulmonary disorders in the intensive care unit. They also learn about some very common complications and their management in ICU settings including any procedure and its associated complication.

❖ **Management in Health care Organization**

The course introduces students to the basic management functions and management key competencies. Emphasis is placed on management theories, nature of the healthcare organizations and its complexity in addition to other contemporary topics in the field of healthcare management.

❖ **Research Project**

This course provides students with the opportunity to apply research skills and carry out a research project related to respiratory care under the supervision of a faculty member. Students will be required to conduct literature review and perform data collection, statistical analysis, writing up of the research paper.

❖ **Clinical Practice V**

Clinical Practice V concludes the clinical practice courses for respiratory care students as they prepare themselves for the challenges of internship program. Clinical Practice V is designed to facilitate training in all aspects of respiratory care: basic and advanced therapeutics and diagnostics.

❖ **Respiratory Care Examination Review**

This course aims to give students Comprehensive Review of core respiratory care materials taught in previous semesters. The goal is to refine knowledge and relate theory to clinical practice. Contents covered in American board exams, namely CRT and RRT will be used to guide learning. Students will be given periodic mock clinical simulations of different patient cases related to respiratory care. This course should prepare students for respiratory care credentialing exams. Each week will be for self-study to review the material uploaded to the blackboard. At lecture time, the two hours will be group discussion and Q&A and the third hour will be a quiz taken from the RRT and CRTT exam, questions of the quiz will be given feedback immediately through the blackboard. Students are expected to come prepared to the class and read the assigned chapters.



Course Descriptions

Fourth Year

❖ **Fundamentals of Polysomnography**

This course is designed to give students an overview of current knowledge of sleep medicine, sleep disorders, and event recording during sleep (Polysomnography, PSG). Students will be introduced to the fundamental procedures of recording events during sleep, common sleep-related respiratory disorders and CPAP titration during sleep study.

Internship Program

After a successful completion of all courses and academic requirements, the student should have 12 months (52 weeks) of internship in clinics and hospital. Training includes applied clinical practice in all disciplines of Respiratory Care that have been studied during the four years of college. Covering the following areas: -

- ❖ Adult Intensive Care Unit
- ❖ Pediatric Intensive Care Unit
- ❖ Neonatal Intensive Care Unit
- ❖ Emergency Department
- ❖ Pulmonary Function Test Clinic
- ❖ Medical Words
- ❖ Sleep Lab



Teaching and Learning Strategies

Program Learning Outcomes, Assessment Methods, and Teaching Strategy are aligned to articulate a consistent agreement between student learning and teaching.

Teaching Strategies

- ❖ Interactive lectures
- ❖ Skill laboratory
- ❖ Simulations
- ❖ Case studies
- ❖ Large and small group discussions
- ❖ Assignment
- ❖ Bed side clinical
- ❖ Field Experience
- ❖ E-learning activities

Assessment Methods

- ❖ Quizzes
- ❖ Written midterm and final examinations consisting of MCQs, MEQs, SAQs
- ❖ Assignments with predefined guidelines and rubrics
- ❖ Respiratory care skill laboratory evaluation (Practical Examination)
- ❖ Clinical performance evaluation (Field Experience)
- ❖ Student reflection



Examination Policies

Refer to rules and regulation link from Imam Abdulrahman bin Faisal University by [clicking here](#) or copying the website link given below:

https://www.iau.edu.sa/sites/default/files/resources/rules_regulations_-_course_exams_university_level_2017.pdf

Student Support Services

Student Academic Counseling

The Student Support System aims to support students in the areas of academic advising, psychological and social counseling, as well as tutoring classes and student activities. It is an electronic system available at the university website via the electronic services portal.

The system also provides a wide range of services for students such as grievance requests, complaints, suggestions, regulations and manuals, news, articles, advertisements, alerts, and contact information of the administrative and service offices in the college. It also allows the evaluation of system services.

<https://www.iau.edu.sa/en/administration/offices-of-the-vice-presidents/office-of-the-vice-president-for-academic-affairs/projects/student-support/student-support-system>



Academic Advisors Contact Information

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Mrs. Fay ali Albuainain	Demonstrator	faalbuainain@iau.edu.sa	-
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Graduation Requirements

To obtain a Bachelor of Technology in Respiratory Care from Imam Abdulrahman Bin Faisal University, the student must complete the following graduation requirement:

- A. Completion of total credit units which are 134 credit hours
- B. Following successful completion of the four years in the undergraduate Respiratory Care program, the student must spend 52 weeks of hospital-based internship period
- C. GPA should not be less than 2 out of 5

For more information, click [here](#) or refer to the link below

<https://www.iau.edu.sa/en/administration/deanships/deanship-of-admissions-and-registration/regulations-and-manuals>



Employment Opportunities

At CAMSJ, our alumni are connected through a LinkedIn group where employment opportunities are announced periodically. Moreover, the connection is encouraged through other social media outlets such as Twitter (https://twitter.com/IAU_alumni) and IAU's official snapchat account to be updated with any other opportunities.

Respiratory Therapy Specialist usually work in the following areas:

- ❖ Intensive Care Unit
- ❖ Neonatal Care Unit
- ❖ Emergency Department
- ❖ Pulmonary Function Test
- ❖ Medical Words
- ❖ Sleep Lab



Role of Respiratory Therapy Specialist

Respiratory Care Specialist play a vital role in evaluating, assessing and diagnosing patients with respiratory disorders through performing various examinations like:

- ❖ Physical Examination
- ❖ Pulmonary Function Testing
- ❖ Arterial Blood Gases
- ❖ Exercise challenge test
- ❖ Sleep Disorders test.
- ❖ Handling mechanical ventilators in Intensive Care Units and making appropriate adjustments on them based on the patient's blood gases and disorder.
- ❖ Teaching patients with Bronchial Asthma and Chronic Obstructive Pulmonary Disease use of inhalers and how to cope with their condition.
- ❖ Providing Bronchial Hygiene and Lung Expansion Therapy for patients with excessive production of secretions and post-op patients.
- ❖ Educating patients and families about lung diseases so they can maximize their therapy and recovery.
- ❖ Providing home care through evaluating patients and educating them and their family about the disease condition and how to provide respiratory home care.



Program Achievements and Extracurricular Activities

The CAMSJ encourage the students to prepare and join various extracurricular activities organized by Students Activities Units and managed by the Vice Dean of the Academic Affairs. Scheduled time was applied to all levels in the college to give them opportunity and time to participate or attend these activities.

CAMSJ Extracurricular Activities

- ❖ Students Council
- ❖ Activities Clubs

RC Program Extracurricular Activities

- ❖ Respiratory Care Week
- ❖ Chronic Obstructive Pulmonary Disease (COPD) Day
- ❖ Bronchial Asthma Day
- ❖ Sleep Awareness Campaign
- ❖ Respiratory Care students' symposium
- ❖ Nasma" initiative to raise awareness of the harms of smoking on the body, teeth, and mouth, in collaboration with College of Dentistry.

* For more information, you can contact the students' activities unit through CAMSJ.SA@iau.edu.sa



CAMSJ Contact Information

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