

Anesthesia and Resuscitation Technology Department :

The Anesthesia and Resuscitation is a new department that has been newly established in the academic year of 2020\2021 after the program has been accredited by the AQAC and it is now the 6th department of Faculty of Health Professions .

The department has been established to keep pace with the development of medical and health professions in Palestine and respond to the need of this specialty in the Palestinian health services.

Department goals:

The objectives of the department are to prepare qualified graduates of anesthesia and resuscitation technicians at a high level of professional competence in the field of anesthesia and resuscitation through:

- Working on the use of specialized scientific knowledge, modern technology, and the best international educational means in teaching and developing the capabilities, abilities, performance and skills of students in the field of anesthesia and technical resuscitation.
- Providing distinguished educational, practical and applied experience that enables the serious student to become a specialist in anesthesia and technical resuscitation, and a pioneer in his profession to be emulated.
- The optimal use of the available resources of qualified trainers, modern technologies and the appropriate environment for training and qualitative and specialized education to combine scientific competence and applied skills of medical cadres in medical services and the public and private sectors in Palestine
- Reaching international standards in spreading knowledge and skills related to responding and dealing with emergency medical cases.
- To provide students with basic concepts of quality management and techniques for managing and dealing with general accidents with multiple injuries, leadership, planning, management and human resources.
- Preparing students to obtain a license to practice the profession locally and internationally
- Providing the student with the necessary training related to medical services in hospitals
- The ability to conduct the necessary research in the field of anesthesia to develop the profession

Program Goal

The anesthesia technician is one of the important health team members health care, who assesses the health of the patient, before, during and after surgeries in hospitals and specialized surgical centers and follow-up of critical cases in resuscitation rooms, developing a treatment plan, and dealing with crises. The primary goal of the anesthesia technology program is to

improve the status and quality of anesthesia medical care by supplying Health Care Organizations and Anesthesiology departments within the hospitals with highly educated and trained anesthesia technician .

Program Objectives:

1. Provide students with the necessary knowledge related to medical services in the field of anesthesia and resuscitation in addition to a broad base in the English language and other basic sciences.
2. Provide students with basic knowledge of the value of health and wellness and legal issues that affect decisions taken in the environment and surroundings of operating and recovery rooms in the hospital.
3. Developing the students' cognitive aspect, documentation of patient medical history, and physical examination techniques in order to assess the patient's health status.
4. Develop the student's competence in assessing the patient's health status, the process of critical thinking, clinical decision-making and the process of effective communication and communication.
5. Provide students with solid knowledge in the art of managing a medical and health crisis effectively.
6. Training students on emergency procedures, resuscitation, cardiac resuscitation methods for adults, children and newborns, and patient safety management
7. Provide students with the necessary knowledge on medications: indications, contraindications, dosage, and the mechanism of action of drugs used in emergency situations before and after hospital admission, with the emphasis on quality of medical care provided to adult and child during cardiac arrest or cardiovascular emergencies.
8. Providing students with basic concepts of quality management, techniques for managing and handling general accidents with multiple injuries, leadership, planning, management and human resources.
9. Promote the process of applying evidence-based medical practice to achieve the desired professional excellence and competency.
10. Promote the process of self-learning and continuous medical education to achieve professional development.
11. Provide the student with the necessary training related to medical services in hospitals.
12. Introduce the student to the ethics and regulations of the anesthesia and resuscitation profession, and train students to provide professional care to the patient.

Acquired skills

Graduates of this program are expected to perform the following tasks which represent the job description of this profession:

- Practice safe and effective health care, by following established policies, procedures, legislation, regulations, and standards.

- Have the knowledge and skills necessary to achieve the safe operation and maintenance of anesthesia equipment and devices.
- Be fully prepared to provide the required health services in emergency situations, and to assess the medical condition, bruising and emergency injury, taking into account safety issues.
- Incorporate the principles of pathophysiology and evaluate the results to form a diagnosis of the condition and to implement a treatment plan for a patient with a general pathogenic illness, multiple injuries, a pediatric, gynecological, or elderly emergencies.
- Ability to apply advanced emergency techniques such as endotracheal intubation, the effective use and monitoring of an automated external cardiac defibrillator, cardiac arrhythmias with simultaneous electrical shock or percutaneous cardiac pacemaker, ventricular cage ventilation, and the initiation and fixation of the venous or passage through the bone in some stage Before entering the hospital when necessary.
- Demonstrate effective communication skills as a member or leader of the anesthesia team, and learn about the impact of team dynamics on the performance of the team as a whole.
- Document the essential elements in assessing patient condition , care and transportation effectively.
- Follow instructions and possess advanced Cardiac life support and recovery skills for adults and children that include quality of care given to patients with cardiac arrest and other cardiopulmonary emergencies with the ability to maintain the stability of the patient's health condition.

Admission requirements for the department:

Obtaining a high school diploma or its equivalent in the scientific branch with a minimum average of 70%

Career prospects of the program:

The graduates are expected to work as anesthesia technician in the following sites

- Centers of ambulance and emergency services of all kinds
- Critical Care and Early Care Units.
- Medical training for basic and advanced CPR field.
- Work in educational and academic institutions
- Recovery room in the hospital
- Daily surgery centers

- Embryo and fertilization centers
- Specialized ophthalmology centers
- Endoscopy centers for the digestive system
- Civil defense centers or centers similar in other countries (Red Crescent and Red Cross)

Full Academic Plan

First year /First semester				First year / Second semester			
Course Title	اسم المساق	Course No.	Cr . Hr .	Course Title	اسم المساق	Course No.	Cr . Hr .
Biology for Health Professions	أحياء للمهن الصحية	0200101	3	Anatomy and physiology1	التشريح ووظائف الاعضاء 1	0201102	3
General chemistry	كيمياء عامة	0201101	3	Basic nursing1 theory	اساسيات التمريض 1	0201103	3
UR (University Requirement)	متطلب جامعي اجباري		2	Basic nursing 1 clinical	اساسيات التمريض 1 عملي	0201104	2
UR (University Requirement)	متطلب جامعي اجباري		2	UR	متطلب جامعي اجباري		2
UR (University Requirement)	متطلب جامعي اجباري		3	UR	متطلب جامعي اجباري		2
Medical Physics for anesthesia	الفيزياء الطبية للتخدير	0207101	2	UR	متطلب جامعي اجباري		3
English Skills Level 1A	مهارات لغة انجليزية مستوى 1 أ	0400170	3	English skills level 1B	لغة انجليزية مستوى 1ب	0400171	3
Total			18	Total			18
First year /Summer semester				الفصل الصيفي للسنة الأولى اجباري لجميع الطلاب			
Course Title	اسم المساق	Course No.	Cr .				

			Hr				
English Skills Level 2	لغة انجليزية مستوى 2	04001 72	4				
UE	متطلب جامعي اختياري		3				
DE	متطلب دائرة اختياري		2				
Total			9				
Second year / First semester				Second year / Second semester			
Course Title		Course No.	Cr . Hr	Course Title		Course No.	Cr . Hr
Anatomy and physiology II	التشريح ووظائف الاعضاء 2	02012 02	4	Health Assessment	التقييم الصحي	02012 01	2
Introduction to anesthesia	مقدمة في التخدير	02072 01	3	Microbiology	احياء دقيقة	02012 09	3
Introduction to anesthesia clinical	مقدمة في التخدير عملي	02072 02	2	Pathophysiology for anesthesia	علم الامراض للتخدير	02072 03	2
Pharmacology	علم الادوية	02012 07	3	Advanced Pharmacology for Anesthesia	علم الادوية المتقدم للتخدير	02072 04	3
UE	متطلب جامعي اختياري		3	Anesthesia Equipment	ادوات واجهزة التخدير والانعاش	02072 05	3
Paragraph writing	مهارات الكتابة بمستوى الفقرة	04001 84	2	Anesthesia Equipment clinical	ادوات واجهزة التخدير والانعاش عملي	02072 06	3
				English Communication Skills	مهارات الاتصال باللغة الانجليزية	04001 85	2
Total			17	Total			18
Third year / First semester				Third year / Second semester			
Course Title		Course No.	Cr . Hr	Course Title		Course No.	Cr . Hr

Cardiac Physiology and Electrocardiogram (ECG)	فسيولوجيا القلب وتخطيط القلب	0207308	1	Biostatistics for Health Professions	الاحصاء الحيوي للمهن الصحية	0200301	3
First Aid and patient safety	الاسعاف الاولي وسلامة المريض	0200201	2	Medical ethics	الاخلاقيات الطبية	0200202	2
Introduction to Public Health & Epidemiology	مدخل الى الصحة العامة وعلم الوبئة	0201304	3	Principles and Methods of Pain Management	مبادي ووسائل علاج الالم	0207301	2
Principles of Airway Management	مباديء ادارة مجرى التنفس	0207302	2	Anesthesia for Special Surgeries I	التخدير للعمليات الجراحية الخاصة 1	0207306	3
Principles of Airway Management Clinical	مباديء ادارة مجرى التنفس عملي	0207303	2	Anesthesia for Special Surgeries I Clinical	التخدير للعمليات الجراحية الخاصة 1 عملي	0207307	1
				Advanced cardiopulmonary Resuscitation (ACLS)	الانعاش القلبي الرئوي المتقدم	0207409	2
Internal Medicine for anesthesia	الطب الباطني للتخدير	0207304	2	DE	متطلب دائرة اختياري		2
Surgery for anesthesia	الجراحة للتخدير	0207305	2	DE	متطلب دائرة اختياري		2
Communication and mental health	الاتصال والصحة العقلية	0201310	3				
Total			17	Total		17	
Fourth year / First semester				Fourth year / Second semester			
Course Title		Course No.	Cr . Hr .	Course Title		Course No.	Cr . Hr .

Health Informatics	المعلوماتية الصحية	02014 05	2	Health Accreditation	الاعتماد الصحي	02004 01	2
Anesthesia for Special Surgeries II	التخدير للعمليات الجراحية الخاصة 2	02074 01	3	Regional Anesthesia Techniques	التخدير الموضعي	02074 07	3
Anesthesia for Special Surgeries II Clinical	التخدير للعمليات الجراحية الخاصة 2 عملي	02074 02	1	Post Anesthesia Care	وحدة رعاية ما بعد التخدير	02074 08	3
Intensive Care Unit	وحدة العناية المركزة	02074 03	3	Environmental Hygiene and Safety	صحة وسلامة البيئة	02074 06	2
Intensive Care Unit Clinical	وحدة العناية المركزة عملي	02074 04	3	Graduation Project	مشروع التخرج	02074 50	1
Scientific Research for Health Professions	البحث العلمي للمهن الصحية	02003 02	3	Internship	الامتياز	02074 51	2
DE			2	Principles of Health Management	مبادئ الادارة الصحية	02074 05	2
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136 credit hours + 10 credits remedial

Total credits

english courses

Department Electives			
Course Title	اسم المساق	Course No.	Cr . Hr .
Sociology	علم اجتماع	02014 60	2
Psychology	علم النفس	02014 61	2

Applied Clinical Psychology	علاج النفس التطبيقي	02014 62	2
Health and Wellness	الصحة والرفاه	02014 63	2
Health Education	التثقيف الصحي	02014 64	2
Family Health	صحة الاسرة	02014 65	2
Blood and body fluids	الدم وسوائل الجسم	02074 73	2
Human Growth and Development	نمو وتطور البشر	02014 67	2
Anesthesia for Day Care Surgeries	التخدير للجراحات اليومية	02074 72	2
Nutrition and dietetics	التغذية والعلاج الغذائي	02014 66	2
Neonatal Anesthesia	التخدير لحديثي الولادة	02074 74	2
Coronary Care Unit (CCU)	العناية الحثيثة لأمراض القلب	02074 75	2
Alternative Therapy	العلاج البديل	02014 68	2
Special Topics	موضوعات خاصة	02014 71	1

Team Members Pictures and short biography