

## الخطة الدراسية لبرنامج الشهادة الجامعية المتوسطة في تخصص التخدير والأنعاش

تتكون الخطة الدراسية لبرنامج الشهادة الجامعية المتوسطة في تخصص (التخدير والأنعاش) من (72) ساعة معتمدة موزعة على النحو التالي:

عدد الساعات المعتمدة	المتطلبات	الرقم
12	متطلبات الجامعة	أولاً
18	متطلبات البرنامج	ثانياً
42	متطلبات التخصص	ثالثاً
72	المجموع	



## الخطة الدراسية لتخصص التخدير والإنعاش

First: University requirements (12 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
22001101	Arabic Language	3	3	-	
22002101	English Language	3	3	-	
21901100	Islamic Culture	3	3	-	
21702101	Computer Skills	3	1	4	
<b>Total</b>		<b>12</b>	<b>10</b>	<b>4</b>	

Second: Program requirements (18 credit hours) as follow:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21301123	Medical Physics	3	3	-	
21301131	Biochemistry	2	2	-	
21301132	Biochemistry/ Practical	1	-	3	21301131*
21102111	Anatomy	3	3	-	
21102113	Physiology	3	3	-	21102111*
21102115	Medical Sociology	3	3	-	
21102117	Medical Terminology	3	3	-	
<b>Total</b>		<b>18</b>	<b>17</b>	<b>3</b>	

\* Co-requisite



**Third:** Specialization Requirements (42 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21101241	Ambulatory anesthesia	2	2	-	
21101143	Anesthesia instruments	2	2	-	
21101111	Anesthesia basic physics	2	2	-	
21101113	Basics in nursing care	2	1	3	
21101251	Cardiopulmonary resuscitation	2	1	3	
21101121	General anesthesia 1	3	3	-	
21101223	General anesthesia 2	3	3	-	21101121
21101261	Intensive care unit	2	1	3	
21101245	Internal medicine and anesthesia	3	3	-	
21101171	Operating rooms	3	2	3	
21101181	Pain management	2	1	3	
21101131	Pathophysiology	3	3	-	
21101133	Pharmacology for anesthesia	3	3	-	
21101291	Surgical principles	2	2	-	
21101293	Local and regional anesthesia	2	2	-	
21101100	Field training 1*	3	-	-	
21101200	Field training 2*	3	-	-	
	<b>Total</b>	<b>42</b>	<b>31</b>	<b>15</b>	<b>-</b>

\* Field training equivalent to 280 training hours.



الخطة الاسترشادية  
السنة الأولى

الفصل الدراسي الثاني			الفصل الدراسي الأول		
الساعات المعتمدة	اسم المادة	رمز المساق	الساعات المعتمدة	اسم المادة	رمز المساق
3	General anesthesia 1	21101121	3	Arabic language	22001101
3	Computer skills	21702101	3	Islamic culture	21901100
3	Operating rooms	21101171	3	Medical terminology	21102117
3	Medical Physics	21301132	3	Anatomy	21102111
3	English Language	22002101	3	Physiology	21102113
3	Medical sociology	21102115	2	Biochemistry	21301131
			1	Biochemistry/ Practical	21301132
18	المجموع		18	المجموع	



السنة الثانية					
الفصل الدراسي الثاني			الفصل الدراسي الأول		
الساعات المعتمدة	اسم المادة	رمز المساق	الساعات المعتمدة	اسم المادة	رمز المساق
2	Anesthesia instruments	21101143	2	Basics in nursing care	21101113
2	Pain management	21101181	3	Pharmacology for anesthesia	21101133
2	Ambulatory anesthesia	21101241	2	Anesthesia basic physics	21101111
2	Intensive care unit	21101261	3	General anesthesia 2	21101223
2	Surgical principles	21101291	3	Pathophysiology	21101131
2	Local and regional anesthesia	21101293	2	Cardiopulmonary resuscitation	21101151
3	Internal medicine and anesthesia	21101245	3	Field training 1	21101100
3	Field training 2	021101200			
18	المجموع		18	المجموع	



وصف مختصر  
لمواد تخصص التخدير والإنعاش

اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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لغة عربية

22001101

3 (3-0)

تتضمن هذه المادة مجموعة من المهارات اللغوية بمستوياتها وأنظمتها المختلفة: الصوتية، والصرفية، والنحوية، والبلاغية، والمعجمية، والتعبيرية، وتشتمل نماذج من النصوص المشرقة: قرآنية، وشعرية، وقصصية، من بينها نماذج من الأدب الأردني؛ يتوخى من قراءتها وتدوقها وتحليلها تحليلاً أدبياً؛ تنمية الذوق الجمالي لدى الطلاب الدارسين.

اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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لغة إنجليزية

22002101

3 (3-0)

English is a general course. It covers the syllabuses of listening, speaking, reading, writing, pronunciation and grammar, which are provided in a communicative context. The course is designed for foreign learners of the English language, who have had more than one year of English language study. The extension part would be dealt with in the class situation following the individual differences.

اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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- ثقافة إسلامية
- 21901100
- 3 (3-0)
1. تعريف الثقافة الإسلامية وبيان معانيها وموضوعاتها والنظم المتعلقة بها – وظائفها وأهدافها
  2. مصادر ومقومات الثقافة الإسلامية والأركان والأسس التي تقوم عليها .
  3. خصائص الثقافة الإسلامية .
  4. الإسلام والعلم ، والعلاقة بين العلم والإيمان
  5. التحديات التي تواجه الثقافة الإسلامية .
  6. رد الشبهات التي تثار حول الإسلام .
  7. الأخلاق الإسلامية والآداب الشرعية في إطار الثقافة الإسلامية
  8. النظم الإسلامية .

اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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مهارات حاسوب

21702101

3 (1-4)

An introduction to computing and the broad field of information technology is given. Topics covered include the basic structure of digital computer system, microcomputer, operating systems, application software, data communication and networks, and the internet. Hands-on learning emphasizes Windows xp , MS-office2000, and the internet.

اسم المادة	رقم المادة	الساعات المعتمدة (نظري، عملي)
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Medical Physics

21301123

3 (3-0)

This course is designed to acquaint the students with knowledge about forces ad units of forces, energy changes in the body, heat loss from the body, and breathing mechanism. It helps the students acquire knowledge about electric signals of the body, general properties of sound in the body as a drum (percussion in medicine) and vision defects and corrections. Moreover, it makes the students recognize sources of radioactivity, nuclear medicine imaging devices, and the dose in nuclear medicine and therapy with radioactivity.

<b>Biochemistry</b>	<b>21301131</b>	<b>2 (2-0)</b>
Biochemistry course introduces the basic essential information to the college students to know the biomaterials which we deal with during over daily activities, classification, chemical structure, reactions and how the human body metabolizes such biomolecules work.		
<b>Biochemistry/ Practical</b>	<b>21301132</b>	<b>1 (0-3)</b>
This course deals with performing practical applications for the different classes of biomolecules including carbohydrates, lipids and proteins.		
<b>Anatomy</b>	<b>21102111</b>	<b>3 (3-0)</b>
The course deals with structural anatomy of the body as a whole to provide the students with knowledge of the structure of the body of the human being. This course deals all the systems of the body in an attempt to make it easy for the paramedical students to recognize the organs of the body.		
<b>Physiology</b>	<b>21102113</b>	<b>3 (3-0)</b>
This course is designed to provide the students with the knowledge of the functions performed by the various parts and organs of the human body. It also deals with the integrity of the body systems as a whole to let the student recognize the physiological changes that happen within the human body and how the body systems work.		
<b>Medical sociology</b>	<b>21102115</b>	<b>3 (3-0)</b>
يتناول هذا المساق المضمون المعرفي لعلم الاجتماع من حيث الفكر الاجتماعي والرعاية الصحية. فيقدم عرضاً لمفاهيم: الصحة، المرض، الرعاية الصحية، الخدمة الصحية والسلوك المرضي. وكذلك يتناول الدور الذي يمارسه المجتمع في الخدمة الصحية والسياق الاجتماعي للصحة والمرض وانعكاسات مفهوم الصحة والمرض على الخدمات الصحية. ثم يتناول المساق أهم الميادين الدراسية في العلوم الاجتماعية والسلوكية وذلك لفهم السلوك الاجتماعي على المستوى النظري والعملية من التطرق إلى مفاهيم: المعايير، الاتجاهات و القيم.		
<b>Medical terminology</b>	<b>21102117</b>	<b>3 (3-0)</b>
This course is designed to develop a working knowledge of the language of medicine to let students acquire word building skills by learning word roots , suffixes, prefixes and abbreviations. By relating terms to body systems, students should identify the proper use of words in a medical environment. Knowledge of medical terminology enhances the students' ability to communicate and practice his/her work successfully on the purpose of providing health services.		
<b>Ambulatory anesthesia</b>	<b>21101241</b>	<b>2 (2-0)</b>
This course provides the anesthesia assistant technician student with basic information regarding the anesthesia outside operating rooms in addition to Day Case surgeries. The course will concentrate on the concepts, rules, and regulations controlling the ambulatory anesthesia and the use of medications in addition to managing the anesthesia tools and controlling patient's factors and the role of the anesthesia assistant technician in the process of medication administration.		

<b>Anesthesia instruments</b>	<b>2110114</b>	<b>2 (2-0)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding Anesthesia Instruments. The course will concentrate on Introducing these instrument to the student. It also concentrates on the way such instrument is built and its application in daily clinical practice. It also explains the way such instruments are maintained and make it ready to use.

<b>Anesthesia basic physics</b>	<b>21101111</b>	<b>2 (2-0)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding physics related to Anesthesia. The course will concentrate on the Gas laws, Fluid mechanics, and conditions regarding the gas exchange across lungs and the physical principles that control it. It also concentrate on how some of the machines operate like monitors in OR. It also gives some emphasis on the dangers encountered in OR and how to handle.

<b>Basics in nursing care</b>	<b>21101113</b>	<b>2 (1-3)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding nursing care of the surgical patients. The course will concentrate on the contents, personnel, and conditions regarding the care of surgical patients in the evening of the operation and on the next morning until the patient once again in the floor. Sterilization techniques are mentioned here also.

<b>Cardiopulmonary resuscitation</b>	<b>21101151</b>	<b>2 (1-3)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding CPR. The course will concentrate on the various steps governing CPR weather basic life support or advance one; it also explains the role of certain medications in the process of CPR. It also defines some of the conditions that need immediate concern and explains the neonatal resuscitation.

<b>General anesthesia 1</b>	<b>21101121</b>	<b>3 (3-0)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding General Anesthesia. The course will concentrate on the preoperative evaluation and the three stages of anesthetic intervention, namely the induction, the maintenance and the emergence periods and finally the role of PACU in OR.

<b>General anesthesia 2</b>	<b>21101223</b>	<b>3 (3-0)</b>
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This course provides the anesthesia assistant technician student with basic knowledge regarding General anesthesia for various conditions. The course will also concentrate on the complication encountered with each system it also mention some of the conditions that affect general anesthesia such as alcoholism, obesity and burns.



<b>Intensive care unit</b>	<b>21101261</b>	<b>2 (1-3)</b>
<p>This course provides the anesthesia assistant technician student with basic knowledge regarding Intensive Care Unit. The course will concentrate on the contents, personnel, and conditions regarding the control of ICU atmosphere, Instruments and with special emphasis on hazards encountered in ICU. It also defines some of the medical conditions that need ICU admission.</p>		
<b>Internal medicine and anesthesia</b>	<b>21101145</b>	<b>3 (3-0)</b>
<p>This course provides the anesthesia assistant technician student with basic information regarding the medical disease. The course will concentrate on the concepts, rules, and regulations controlling the way to handle medical diseases pre, intra and postoperatively.</p>		
<b>Operating rooms</b>	<b>21101171</b>	<b>3 (2-3)</b>
<p>This course provides the anesthesia assistant technician student with basic knowledge regarding operating rooms. The course will concentrate on the contents, personnel, and conditions regarding the control of OR atmosphere, sterility and scavenging systems with special emphasis on hazards encountered in OR. It also defines the duties of each worker in the area and the interpersonal relationships and their relevance to team work.</p>		
<b>Pain management</b>	<b>21101181</b>	<b>2 (1-3)</b>
<p>This course provides the anesthesia assistant technician student with basic knowledge regarding causes of acute pain and chronic pain and the ways to treat them it also mentions the postoperative pain causes and management. It also emphasizes the labor pain and the way to deal with it.</p>		
<b>Pathophysiology</b>	<b>21101131</b>	<b>3 (3-0)</b>
<p>This course focuses on the physiological changes that occur due to external and internal environmental stresses, pathological processes and the response that produces signs and symptoms. The content is based on common health problems, including special health needs of children and the elderly. The student will explore a variety of concepts in pathology which will be utilized in decision-making and actions related to other anesthesia technician student courses.</p>		
<b>Pharmacology for anesthesia</b>	<b>21101133</b>	<b>3 (3-0)</b>
<p>This course provides the anesthesia assistant technician student with basic information regarding the anesthetic drugs starting from a brief historical back ground then defining the drugs, their pharmacokinetics and pharmacodynamics. It also touches the various groups of anesthetics, their mechanism of action and their side effects and the role of the anesthesia assistant technician in the process of medication administration. It also provides the anesthesia assistant technician student with basic information regarding the anesthetic drugs given pre, intra and postoperatively. It explains why such drugs are given and their mode of actions plus their side effects. It also clarifies the role of the anesthesia assistant technician in the process of medication administration.</p>		

<b>Surgical principles</b>	<b>21101291</b>	<b>2 (2-0)</b>
<p>This course provides the anesthesia assistant technician student with basic knowledge regarding the surgical patient. It sheds light on surgical conditions encountered in floor and OR, with special emphasis on infection control in OR. Multi trauma patients are mentioned with the ways to handle them effectively</p>		
<b>Local and regional anesthesia</b>	<b>21101293</b>	<b>2 (2-0)</b>
<p>This course provides the anesthesia assistant technician student with basic knowledge regarding local &amp; regional anesthesia. The course will concentrate on the concepts, rules, and regulations controlling local &amp; regional anesthesia and the use of medications in addition to managing the anesthesia tools and controlling patient's factors and the role of the anesthesia assistant technician in the process of instruments knowledge and preparations.</p>		
<b>Field training 1</b>	<b>21101100</b>	<b>3 (280 training hours)</b>
<p>This course provides the Anesthesia and Recovery students with basic training regarding occupational ethics, operation rooms annexes, importance of sterilization, how to deal with special instruments, and patient reception and supervision before Anesthesia. Moreover, it provides the students with the knowledge regarding medical history &amp; patient preparation and the way to deal with him on operation table. The course will concentrate on the student practical training, especially on giving drugs, clinical observation, instruments control, filling anesthesia forms and the surgeries name in common and their emergency diagnosis.</p>		
<b>Field training 2</b>	<b>21101200</b>	<b>3 (280 training hours)</b>
<p>This course aims at training students on the supervising of the Trachea and tabulation, to be able later on to manage doing veno – Catheterization. It also concentrates on the training students on how patient recovery is done, mostly on the ideal supervision after surgery, and how to transfer patient to I.C.U. Moreover this course will provide the student with the knowledge on checking the readiness of the instruments of anesthesia and the control of these instruments while working on patient.</p>		

